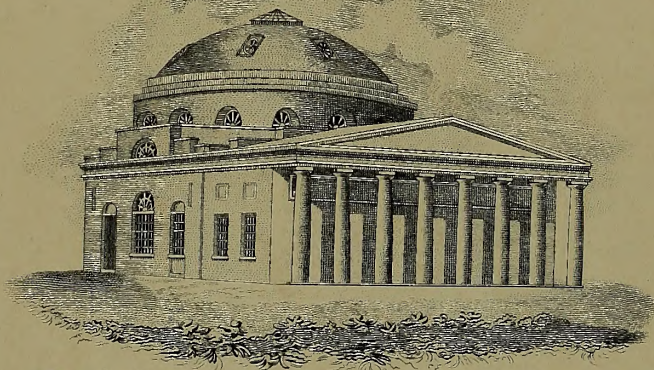


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University of Maryland Theses

Early Doctor of Medicine and Doctor of Physic Dissertations with
Corrected Tables of Contents

These manuscripts described as either an Inaugural Dissertation or an Inaugural Essay were presented to the University of Maryland for the Degree of Doctor of Medicine and/or Doctor of Physic during the years 1813-1887. The individual dissertations were bound together during the 1940's. The original tables of contents for the bound volumes contained multiple errors in authors' names, titles, and/or years. To address these errors, an additional "Corrected Table of Contents" has been inserted at the beginning of each volume.

The project team who investigated and corrected the tables of contents were Richard J. Behles, Historical Librarian/Preservation Officer; Maria Milagros Pinkas, Metadata Management Librarian; Angela Cochrane and Carol Harling-Henry, Resources Division; Sarah Hovde, Abra Schnur and Megan Wolff, Services Division.

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Stark, Charles H.	Tabes	1815
Lynn, Washington	Anatomy of the Eye	1815
Beck, Alexander Hamilton	Indigestion	1815
Baker, Samuel O.	Venae	1815
Nairn, John Charles	Natura Clinica et Ethologica	1815

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¹ Dedication and contents only bound here. Title page found later in this volume.

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Minor, Charles	On Medical Observation and Experience	1835	Title page ²
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² Bound out of order: Title page only bound here. Dedication and contents found earlier in this volume.

³ Author, title and year taken from University of Maryland Medical Faculty, Matriculation List, 1821-1851, Registry of Graduates for 1835.

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UNIVERSITY OF MARYLAND

THESES

1835, 1836

Healey, Thomas A.	Erysipelas	11p.
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Linthicum, Theodore	On the Atmosphere in an Etiological Point of View	15p.
Keedy, Daniel G.	Delirium Tremens	19p.

(1) Thesis by Miner starting with dedication page. Title page, bound incorrectly, is inserted after dissertation by Doughty. Complete title of thesis is taken from Registry of Graduates 1835.

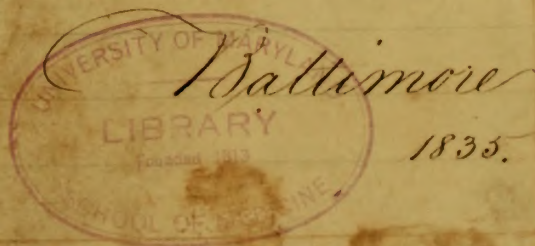
Smith, John Pearson	Cholera Maligna	20p.
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Doughty, R. J.	Pathology of Fever	18p.
Minor, C. H. Minor, Charles	On Medical Observation and Experience Inaugural Dissertation	1p. (1) 15p.
William Dashiell, Cadmus	On Circulation (of Blood)	15p. (3)
Jones, W. A. T.	Inflammationis Pathologia	16p.
William Creager, Wm. A. Hauer	On various theories that have been advanced on the subject of Conception the proximate cause of Conception.	16p.
Cockey, Joseph C.	Aneurism	19p.
Henry, Edward H.	Cholera Infantum	18p.
William Calvert, Wm. H.	Cathartics and Their Modus Operandi	13p.
Robert Archer, R. Harris	Dysentery	12p.
Taylor, John A.	Typhoid Fever	16p. <u>1836</u>
M. Pallen, Montrose	Spinal Irritation	14p.
Butler, Frederick	Vaccination	13p.

- (2) ^{only} Title page is inserted after thesis by R. J. Doughty. Complete title was taken from Registry of Graduates 1835. Remainder of thesis, beginning with dedication page, is after thesis by Coombe (see table of contents, p. (1)).
- (3) Author, Title and year taken from Registry of Graduates 1835.

An
Inaugural Dissertation
on
Erysipelas.
Submitted to the examination
of the
Provost Trustees
and
Medical Faculty
of the
University of Maryland
for
The Degree
of
Doctor of Medicine
by

Thomas A. Healey
of

Miss Hines' Thesis



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18871

Presented to the

Faculty of the

University of the

State of

Medical Faculty

of the University of

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of the

1887

1887

To Richard Wilmet Hall M.D.

The following pages are respectfully inscribed, as the first fruits of a medical education, conducted under his care and direction, and as a testimony of gratitude for the many valuable opportunities of improvement, received by his friend and pupil

The Author

The following papers are respectfully invited as the

first part of a medical education conducted under the
auspices of the State, and as a testimony of gratitude for
the many valuable experiments of improvement, rendered
by his friend and pupil

The Author

Erysipelas.

Erysipelas may be called an inflammation of the ^{skin} ulcers alone, or combined with that of the subjacent cellular tissue; and is generally accompanied with vesicular eruptions, the local inflammation being generally attended with symptomatic fever.

The various forms of Erysipelas depend on the degree of the local inflammation, on the type of the accompanying fever, and on other circumstances with which the case may be complicated.

Causes It is very difficult in most cases to find out the exciting causes of this disease. When it occurs in a part upon an injury, we have at once a probable reason for the surrounding parts assuming this inflammatory action; but some other circumstances must operate in those instances as we do not have this inflammation following external injuries in every case.

There is in many persons an hereditary or acquired predisposition to inflammation of the skin from the most trivial causes; in such, I have no doubt there is some peculiarity in

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the vascular system of the integuments; and any cause which will excite the circulation locally or generally, may induce erysipelas.

It is often produced by Gastric derangement, and from the intimate ^{sympathy} between the skin and mucous membrane of the stomach and bowels, it may become both the predisposing and exciting cause of the disease, especially if there ^{should} happen to be a susceptibility to this disease. ^{disorder} of the food will occasionally induce an attack of this disease. Dr. Follen mentions ~~and~~ a case of this kind of a lady who ~~had~~ lived in a miasmatic district and had an attack every spring and fall. She was at last cured by Mercury carried to slight ptyalism and has not had an attack since. The irritation of the skin produced by an attack of Erysipelas will frequently induce sympathetic disorders of the Biliary and Gastric systems.

It is said that spring and autumn are the seasons of the year in which it is most prevalent; this I suppose to be in part owing to the vicissitudes of temperature in these seasons producing irregular capillary action.

Women at the cessation of the catamenia and old persons of a cachectic habit of body are liable to periodical attacks of Erysipelas; it is generally preceded or accompanied & in these cases by symptoms of derangement of the Liver stomach and intestines, but without much fever.

The patients in establishments for the sick are sometimes very liable to it, and when it once appears in the wards of an Hospital it is very hard to keep it from spreading, it will very often on such places be produced by the slightest wound, operation or irritation of the skin; as for instance from the wound made by a lancet in bleeding, or by that of a scarificator in cupping, or the margin of a blistered surface: three or four cases of which I have seen occur in the Waltham Infirmary, one of the most severe ^{fatal} cases I ever saw, occurred in a boy in the Infirmary from ~~the~~ the division of the prepuce. he was seized with Erysipelas five days after the operation, and although treated with great skill by the physician in attendance, died on the morning of the fifth day.

It sometimes occurs spontaneously on different

regions of the body without any cause that can be assigned for it, there being no external wound.

It may also arise from pressure, the continued use of a bandage, laying in one position for a long time, and frequently stimulating applications to ulcers, producing several cases of which have come under my notice.

Varieties - I shall describe ~~the~~ three forms or varieties of this disease - The Simple, the Phlegmonous and the Oedematous Erysipelas.

Simple Erysipelas - This is the mildest form of the disease, the inflammation here is confined to the skin, which is hot, dry, smooth, red, & shining; the color varies from a ^{red} scarlet to a yellowish red hue.

The swelling is very inconsiderable in this form of the disease, so much so indeed as in some cases scarcely perceptible. When the inflammatory action is of a higher grade, effusion will take place in the cellular tissue beneath, and when this occurs, the swelling is proportionally increased. The pain is of a pungent burning kind, very different from the throbbing sensation experienced in a phlegmon, and is greater or less according to the intensity of the ^{local} disorder. From ~~the~~ ^{the} fourth or fifth day after the appearance of the disease, vesication,

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form on the inflamed skin, and after this the pain begins sensibly to diminish. The vesicles are sometimes numerous and small, and at other times large, and in a few days either break and discharge their contents, or dry and are converted into yellowish ^{scabs} which after a time fall off, sometimes leaving the skin ^{entire} and at other leaving it abraded. Sometimes the inflammation goes off without vesication.

In some instances it disappears suddenly from one part and makes its appearance in another and will occasionally travel in this way over the whole body. When it manifests this disposition it is denominated erratic, and must then be closely watched, as it ~~is~~ sometimes attacks the brain or some of the viscera, and is followed by symptoms indicating inflammation of those organs.

Phlegmonous Erysipelas. The inflammation in this form of the disease attacks the skin and cellular tissue adjoining it, and frequently terminates in suppuration and sometimes in sloughing of the parts affected. The young and vigorous are mostly attacked with this form of the disease, it also occasionally attacks persons of advanced age, but its progress is longer and the inflammatory symptoms not so violent in old persons. - The extremities are the parts most frequently attacked with this form.

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In all the cases of this kind that I have witnessed the local disease has been preceded a day or two before by symptoms of high inflammatory fever - the patient is seized with a chill, which generally continues about an hour attended with nausea & vomiting, this goes off and he is attacked with pain in the head back and limbs; the skin is hot and dry, and the tongue is coated sometimes white, and ^{at times} sometimes yellow, the pulse is quick, tense, and frequent; after these symptoms have continued from one to two days the local inflammation makes its appearance and this is the first thing that acquaints us with the nature of the disease we have to contend with. The skin becomes ^{slightly} red and tumid, and an effusion takes place into the subcutaneous ^{cellular} membrane, this form spreads very fast, the redness of the skin becomes of a deep red tint, accompanied with a sensation of burning heat which is almost intolerable. The redness disappears on pressure but reappears again as soon as you take your finger off the part. The disease generally goes on for five or six days, when vesications begin to appear, and then desquamation of the cuticle takes place, or it ends in the same manner as simple Erysipelas. The redness begins to

I am the son of a poor man, but I have
the best school in the district, and I
of the highest of high mathematics, for the father
in paper with a child, which generally contains some
as have attended with pleasure to learning, the year off
and as is attached with him in the best school
lands, the other is let and kept, and the income is used
sometimes into one - sometimes into two, the father
in great taste and judgment, after the manner of
continued from me to his wife, the best of the
with it, and the other is the first of the
regarding us with the nature of the school, and
school with the other, the school is not
affairs, the father is the superintendent, the
the father himself, and the school is the
because of a but not the school, and
a series of learning, that is, a
The school is the only one in the district,
again, in the year, the year, the year,
the school generally, and in the year,
the school is the only one in the district,
of the school, the father is the superintendent,
and the school is the only one in the district.

decline, the skin assumes a yellowish hue, the swelling gradually subsides, & the fever abates.

But this form of the disease frequently terminates in suppuration and sometimes in gangrene, instead of the favorable manner stated above. When suppuration takes place the matter is either confined in abscesses or diffused in the cellular tissue. If gangrene takes place the cellular tissue becomes completely disorganised, and looks like tow filled with a turbid purulent fluid, while the integuments deprived of their supply of blood, become livid and often lose their vitality. Two cases of this kind I have seen at the Baltimore Infirmary in the Spring. When these changes take place in the former ^{the} tension gives place to ~~flaccid~~ ^{flaccid} ~~ness~~, and the part has a softness which I cannot describe.

Oedematous Erysipelas. This form may be called intermediate between the simple & phlegmonoid, and is mostly observed in those persons whose constitutions are impaired, and have a tendency to dropsical effusions. The inflammation is of a subacute character, the skin is of a pale ^{dirty} red color, is smooth and shining, the heat and burning sensation is not so severe as in the phlegmonous form, and on pressure it pits like the swelling produced by oedema. This form is liable

to end in gangrene, which may be known by the redness changing to a dark livid hue, and by the cessation of pain.

The danger from Erysipelas is much greater when it attacks the face and scalp than on any other part of the body. This arises from the Brain or its Membranes becoming involved in the disease. This is supposed to arise from the fact that the capillary vessels and the Cellular tissue are in part continuous with those inside of the walls of the Cranium.

I have seen inflammation of the Scrotum in three instances, the brain was affected from Sympathy in all those cases and is much more dangerous than when it attacks the trunk or limbs.

Diagnosis. The rosy hue of the Skin, the burning pains, the uniform Swelling, the tendency to spread, the abrupt and irregular border, and the tendency of the disease to suppurate, will easily point out its nature and distinguish it from phlegmon.

Treatment. The treatment of this disease is divided into general or constitutional and local. In the treatment of simple Erysipelas, the bowels are to be kept soluble by light aperients, attention to

ought to be paid to the part of the body, on which it occurs, and not let it be in the depending position. Scruping the part and applying warm fomentation to the part, which will be found to be all that is necessary.

The Phlegmonous Erysipelas is the most acute form of the disease, both as regards the local inflammation and the fever accompanying it.

Bloodletting. In general bloodletting is indispensable, and particularly if it should happen to occur in the face or scalp, blood must be taken largely & repeatedly until the symptoms of cerebral affection are removed, both general & local. Leeches are very useful when it attacks the face & scalp, a cold lotion applied to the scalp will also be of great benefit.

Active purgatives, emetics, abstinence, cooling drinks and perfect quiet, are the remedies to be used in the beginning of this form of the disease. This is the treatment to be pursued with the young & plethoric, ^{in the first few days} and when the local and general excitement is such as to allow its being pursued. When it occurs in weak and aged individuals, this treatment would be very injudicious, local depletion may be used with great advantage in such cases with cooling applications whilst we at the same

time sustain the power of the constitution by nourishment and tonics, and at the same time ^{also} keeping the bowels open. The active ^{constitutional} treatment ~~is~~ ^{ought} to be ^{generally} restricted to the first five or six days of the disease, as the system in that time begins generally to show signs of impaired energy, if it does not and the inflammatory symptoms continue this treatment must still be pursued.

Scarifications with the lancet. I have seen more benefit from this than from all the other remedies combined; it is suited to (nearly) all the stages of this disease before suppuration or gangrene takes place, if it does occur, but it used with the greatest advantage in the beginning - it will do more than any other remedy to prevent suppuration and gangrene. I have seen it ~~for~~ in several instances put a stop to the progress of the inflammation in a night: it gives immediate ease to the patient by relieving the congested vessels and the distention of the part, and by the stimulus which the knife ^{imparts} gives.

There ~~ought~~ to be a warm bread and milk poultice applied to the part immediately after the incisions have been made, as it ~~keeps~~ ^{up} the flow of blood

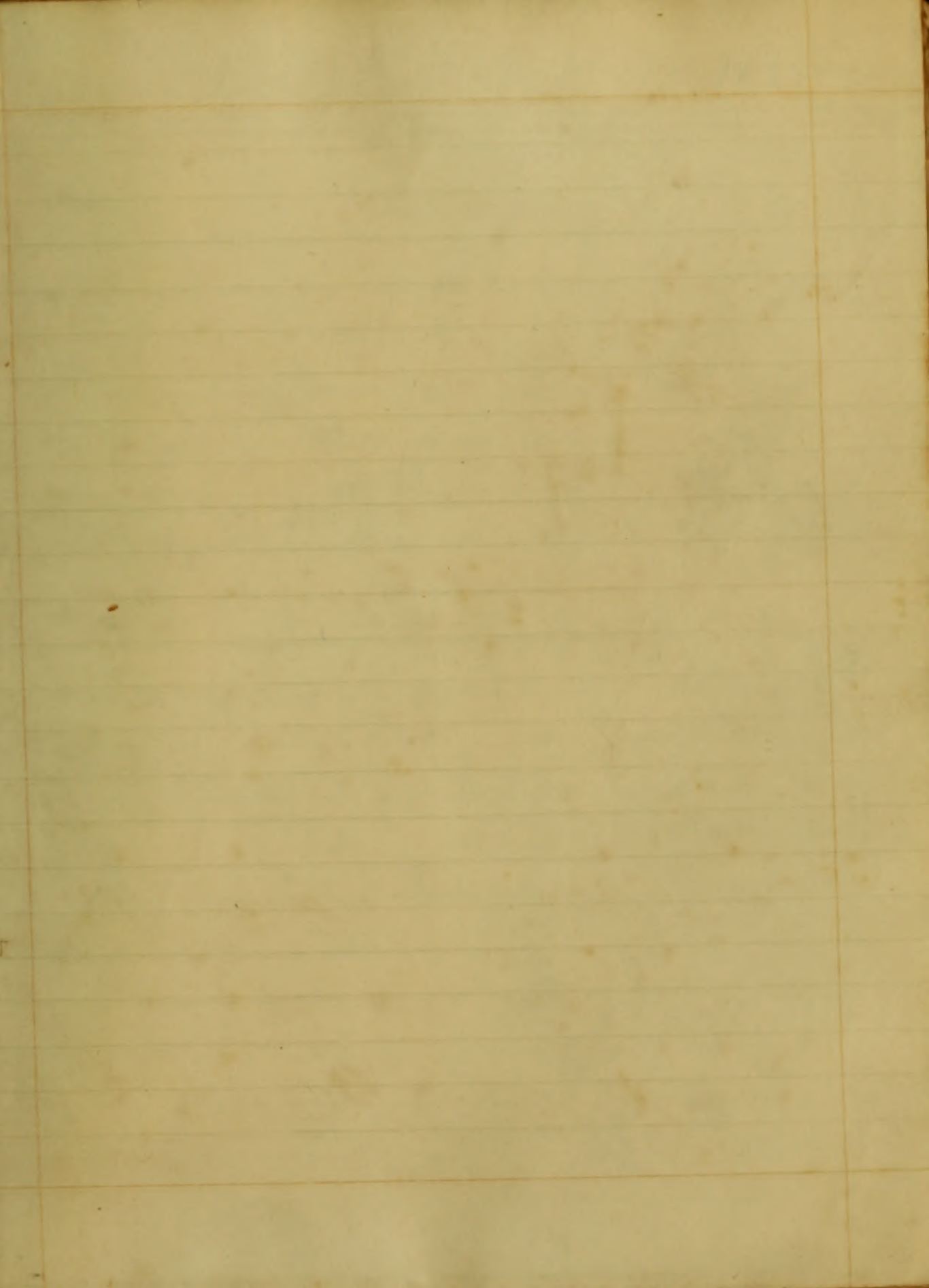
and impart to it a soothing influence which is very grateful.

When suppuration occurs an incision should be made to give vent to the fluid, for if left there it will create a great deal of irritation and finally make an ulcer in the part.

When the disease terminates in gangrene, the patient must be supported with Tonics & Stimulants, and a nutritious diet, and the occasional exhibition of mild aperients.

The treatment of the oedematous form of Erysipelas is nearly the same as that pursued in the simple form of the disease.

The swelling that remains after Erysipelas is to be treated by the application of the bandage.



1835-

An
Inaugural Thesis
on
Hemorrhage,
submitted to the examination
of the
Provost, Trustees, and Medical Faculty
of the
University of Maryland
for the degree
of
Doctor of Medicine
by
Hatter T. Bell
of
Georgetown
D.C.

1835

When the immortal Bard uttered his
wondrous truism,

The lunatic, the lover, and the poet
Of imagination all compact;

He certainly ought to have added the modest
speculator to the hopeful colerick, for surely,
if there ever was a being gifted with the
miraculous faculty of giving to every nothing
a local habitation and a name, he
certainly must be that happy person,

To be convinced of the truth of this
assertion, we may read the works of
Hippocrates and that host of ancient authors
which followed him, when we will find
some of the wisest, wildest, and most brilliant
hypotheses that ever charmed the world; many
of which were for a time the delight of
mankind and then passed to the tomb
of all the Capulets. If we are not then fully
satisfied, we may turn to the writings of
a Brown, a Linnæus, a Buffon, and a Kammian,
and there we will find sufficient to

convince the understandings of the most
 sceptical. In these works we will find some
 of the fairest, brightest, and most preposterous
 theories, that were ever promulgated for the benefit
 of the human race, and which still continue
 to dazzle, mystify, and bewilder those, to perplex
 critics and commentators; and to confound the under-
 standing of all students. Yet in their writings,
 we read some of the most ingenious systems of
 medicine; some of the most elaborate and high
 wrought speculations; and some of the most beautiful
 ideas that ever emanated from the mind of
 man: And though the works of a Darwin and a
 Brown may fail to excite the same admiration,
 with which they were at first hailed, we still
 read them with pleasure and must forever
 regard them as monuments of the ingenuity and
 sophistry of the "immortal mind".

In no portion
 of medical science is there a greater disposition to
 speculate than in that which relates to the
 capillary system, which appears to be the glory,

3.

jest, and riddle" of pathologists. The *in plus ultra* of all their researches, and the habitation of every theory, Nutrition, Nutrition, Absorption, Calcification, Fever, Inflammation, and Hemorrhage, have their respective habitations in the capillary system. Which has been written in relation to the nature, uses, and disorders of the capillaries, but is opposite and discordant to the sentiments of Physiologists in regard to these subjects, that the student finds it extremely difficult to determine which opinion is preferable.

Some Physiologists suppose that the arteries pour their blood into what is called the parenchymatous structure of an organ (which is said to be a spongy texture,) and is then taken up after the necessary changes are effected; Others have maintained that the arteries and veins are connected by the capillaries. It was the opinion of Harvey, Magendie, and others, that the heart propelled the blood through the capillaries; Bichat on the contrary, declares that the action of the heart is lost in the capillaries.

and that they possess a contractile power by which they propel the blood through themselves; and this is, I believe, the opinion of the majority of the Physiologists of the present day. Some have supposed that there were a set of vessels called exhalents, which pour out the secreted fluid; others have denied the existence of these vessels and asserted that secretion was an exhalation, a transudation through the coats of the capillaries. See Wilson Philip, Thomson, Hastings and others have from numerous and interesting experiments arrived at the conclusion that the capillaries possess a contractile power; but they differ as to the state of the capillaries in inflammation, Dr Thomson says the blood moves more rapidly in inflammation, Dr Philip and Hastings declare that it moves ~~slow~~ more slowly. Bichat, says Dr Guey, "appears to have considered the capillaries as altogether beyond our reach" When there is such a discrepancy of opinion who shall decide? shall we adopt the saying of the Poet

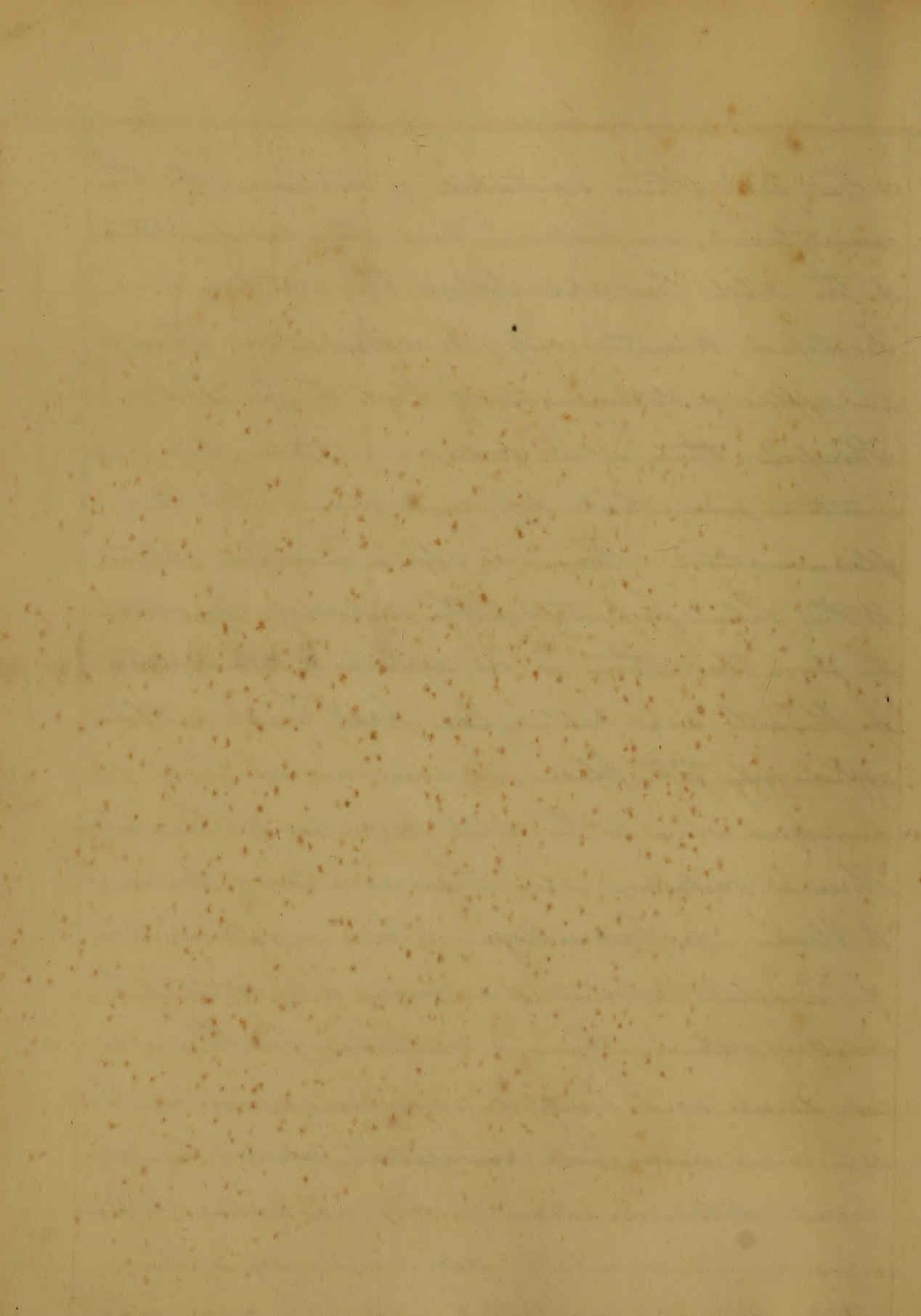
Our judgments are all our own, some
 go just alike, yet each believe his own?
 Shall we rely upon our judgment and select
 which seems the most probable from this
 mass of heterogeneous opinions? or, say with Pindar
 that it is beyond our reach. In applying these
 opinions to practice the student will be still
 more perplexed.

We shall see how they will apply
 to the subject of Hemorrhage, a subject which
 has caused some speculation in the medical
 world.

Hemorrhage is, by Dr Clark who follows Dechard,
 defined to be "a disordered state of the vital properties
 of a part or of the extent of the vital proper capillary
 system, manifesting itself by sanguineous effusion,
 or extravasation." But what is this disordered
 state of the vital properties? Fever is said to be
 a disordered state of the vital properties, likewise
 inflammation. But what is the exact difference
 of the disordered state of the vital properties
 in Fever, Inflammation, and Hemorrhage?

Irritation, which appears to be the sine qua
 non of most of the speculation in relation to this
 subject, will not extricate us from the difficulty.
 In fact there is irritation, which irritation is
 the result of stimuli acting upon an organ
 or structure, whose vital properties are in
 a disordered state, consequently it is produced
 after there is a disordered state of the vital prop-
 erties of the part and does not cause that disor-
 dered state; it consists in a "morbid action of the
 heart, arteries, and capillaries," consequently there
 is an increased action of the heart, arteries,
 and capillaries, though that increased action
 is morbid and unnatural, and this mor-
 bid and unnatural increased action
 of the heart arteries and capillaries is irritation.
 In inflammation there is irritation, that is, a certain
 inordinate and hurtful impulsion on the ner-
 vous filaments of a part by which a new and
 irregular excitement is produced in them, called
 irritation," so says Dr. Cullen. In inflammation, there
 likewise exists a "disordered state of the vital properties"

of the part thus irritated or disordered by the unnatural impulsion; here the disordered state of the vital properties follows the irritation, or is developed simultaneously. In inflammation there is an afflux or determination of blood to the capillaries. Therefore, there is in fever an irritation, but an irritation somewhat different from that in inflammation. There is also a disordered state of the vital properties of the capillary system in fever, but there is no afflux or determination of blood to any particular part, though such afflux may take place. In inflammation there is a disordered state of the vital properties of the capillaries. There is irritation, and there is a local determination of blood. In hemorrhage there is a disordered state of the vital properties of a greater or less extent of the capillary system; there is irritation. For there is an inordinate and hurtful impulsion made on the capillaries, and there is irritation, which there is local determination of blood, *ubi videtur, ubi fluxus* when is it advisable to ease and say with *aliquando morbo esse* that all we know is that



we nothing know" at least in this instance, it shall
 be found to discover in what a disorderly state
 of the vital properties (minds) and the difference
 of that state in fever, inflammation, and
 hemorrhage. Our efforts to do this will be as
 vain as those of Sisyphus, we might as well
 try to turn the sun to ice with fanning in
 his face with a peacock's feather; we must despair
 till we know more of the nature and uses of
 the capillaries, where they rise and where they
 terminate; and it must be confessed, that not-
 withstanding the powerful talent and ability that
 have been engaged in writing and experimenting
 on this subject, that it is as yet involved in an
 intricate mystery, and is as dark as Cubes. And
 in casting our eyes on the writings that have
 been published since the foundation of medi-
 cal science to the present period, we cannot
 but be struck with the strange, wild, and
 whimsical hypotheses that have been entertained
 in regard to the structure, uses, and disorders
 of the capillary system, and which will

from remain monuments of "vain man's" ability and credulity and are as well calculated to make the angels laugh at his fantastic tricks as other gales of speculation and of action seem to make them "weep".

In regard to the theory of hemorrhage, Dr Caldwell after pronouncing the reasoning of Dr Cullen on that subject, little else, but an elaborate and intricate tissue of words though the witty Dr Gregory acknowledges its ingenuity and acuteness) declares, that however satisfactory a rational theory might be to the philosopher, it is not essential to the practitioner; I know not what Dr Caldwell would call a "rational theory", but I think a correct theory both satisfactory and beneficial to the practitioner, and till practice is founded on correct theory it will be vacillating and extremely liable to error.

The second clause of the definition says, "it is manifested by sanguineous effusion or extravasation." How does this effusion or extravasation take place? Dr Clark adopts the

opinion of Bichat, that the blood escapes through the exhalants in consequence of an attraction of their vital properties. This is truly an ingenious conjecture, but a conjecture only; for if the existence of the exhalants there is doubtful, they exist only in the *monday* of the doctrine according to the opinion of some and are involved in the same obscurity that the rest of the capillary system is. If we have only the ingenuity of this opinion in favour of its adoption, for if we had actual demonstration of these vessels, the views of Bichat would be as probable and as deserving of credit as any that have been advanced on this subject. Reil supposes that it takes place by diaporesis, that is, the blood transudes through the vascular extremities, in consequence of deficient vital power in these structures; just as we sometimes find the bile percolated through the optic coats on post mortem examinations. This is another conjecture equally devoid of truth and not so plausible as the other. For that the blood transudes

through the coats of the vessels both in action and passive hemorrhage seems to me highly improbable; it may pass through them in the passive at least such an opinion because of probability, but that it passes through them in the active seems altogether incredible. I should also like to know more about this deficiency of vital force which allows the blood the privilege of passing through the coats of the vessels which contain it. Dubrochet says that hemorrhage takes place by what he calls exomose through the agency of galvanism. The opinion that the veins contain fluids has caused much speculation and much experimenting among physiologists; high names have enlisted on both sides, and the subject has been warmly and largely discussed. The opinion that the veins contain fluids, appears to me to be the one which has been adopted by a majority of physiologists; but whether this imbibition takes place through the agency of galvanism does not seem to be fully admitted; nor is it fully established that the

blood passes through the vessels terminated by
 worms in hemorrhage; the blood does not
 pass through them in health, therefore if it
 passes through them in disease, it must be
 in consequence of some change in their vital
 properties or structure, but what is that change
 who can tell, perhaps there is some change
 in the galvanism, by which the blood, which
 in health courses in safety through these
 vessels, now escapes to the great detriment and
 danger of the patient, Dr Cullen says, and with
 him Dr Gregory appears to agree, that there must
 be a rupture of some of the smaller bloodvessels,
 but this, with the rest of Dr Cullen's opinions
 seems to have fallen into discredit; his defini-
 tion on this subject is thought to be too me-
 chanical, it has too much of the hydrostatic
 system of old, too much about the calibre
 of the vessel, about its dimensions the thick-
 ness of its coats, and too little about its vital
 properties and imitation to apply to the doc-
 trines of this period of mental advancement

and scientific refinement. Now which of these opinions shall we adopt? Richet, Reil, Dutrochet, & Caldwell. They are all supported by men of celebrated abilities, and are very ingenious and plausible. I suppose here each must rely on his own judgment.

There has been considerable dispute about active and passive hemorrhage. Some boldly denying that there is a just foundation for such a division, others as strenuously declaring that there is. Dr Caldwell asserts, "that passive hemorrhage as applied to living matter is a gross misnomer." He says, "that blood flows from the vessel that contains it, at least in part by the action of that vessel." This is his assertion, he has no proof that the vessel does propel the blood through it, which is what I understand by the "action of the vessel." Again, he says hemorrhage arises not from the absolute want of action, in the part, but from its wrong

action. The vessels dilate, or rather contract and dilate alternately, when they ought to contract only, and thus prevent the escape of the blood which they contain." I should like very much to know how Dr Caldwell discovered that the vessels dilate and contract alternately, when they ought to contract only. It has been strenuously denied that the vessels from which the blood flows possess a contractile power, and that by as high authority as Dr Caldwell. He has also stated in the words contract and dilate alternately as if he wished the reader should fully comprehend him and be duly impressed with the importance of the subject. Dr Caldwell, likewise, suggests the words sy-
 stolic and apyrotic, they are certainly very good words and may answer extremely well in their place but do not express what is meant by the terms active and passive according to my idea of them. Passive hemorrhage may sound mechanical and unfit when applied to the nice operations of vitality to the ears of some

Gentlemen, yet surely it is as expressive as any term which we can find in the English language. If there be local congestion in hemorrhage, as there is every reason to believe, and hemorrhage is "a sort of sanguinous transudation without rupture or structural lesion of the part, and passive hemorrhage takes place in an exhausted and debilitated state of the general system," which debilitated state of the system would be more apt to suffer the blood to transude through the coats of the vessels, I conceive that hemorrhage may take place without increased activity of the bloodvessels of the part from which the blood escapes.

Dr Caldwell also suggests the word tonic and atonic instead of active and passive. But active hemorrhage may take place when there is a languid and weak condition of the system and which could not with propriety be called a tonic state though it might be called a hypotonic one. Passive hemorrhage takes place in metastases

when it may be denominated stenic, but could not be called aporetic. Dr Clark advocates the doctrine of active and passive hemorrhage in opposition to Dr Keen who spots it and appeals to Dr Caldwell in support of his opinion. Dr Clark advocates it on the ground that there are two opposite states of the system in hemorrhage, and that the remedy which would be proper in one state would be highly improper in the other, thus aloe which is very useful in passive would be very inappropriate in active hemorrhage. According to him, "hemorrhages are said to be passive when there is neither sanguineous congestion, nor a sense of heat and fulness in the part, but a demand instead of an increased vascular activity both of the general system and of the part from which the hemorrhage occurs, the exhalents suffering the blood to escape passively for want of vital activity to resist its entrance and transpiration." even the first clause of this definition

declares that there is neither congestion nor
 a sense of heat and fulour in papine hemorrhage,
 but I should think that congestion would
 be more apt to take place in the papine
 than the active variety, not congestion in the
 exhalents, for assuredly that never takes place,
 but congestion in the trunks which give
 off the exhalent, if there be such vessels; and it
 is more probable that the blood would pass
 through the exhalents when there is congestion.

The definition says the exhalents suffer
 the blood to escape papinely for want of vital
 activity to resist its entrance and transpiration.
 Certainly the exhalents want vital activity
 to resist the entrance and transpiration of
 the blood, if they were capable of resisting the
 entrance of the blood there would not be any
 hemorrhage either active or papine according
 to DeCaval's idea of hemorrhage, for he says
 the blood escapes through the exhalents
 both in the active and papine varieties,
 but whether the blood escapes papinely in

the latter variety or whether the vessels
 contract and pull it through I am
 sensible to decide. The definition also says
 there is a decrease instead of an increased
 vascular activity, both of the general system
 and of the part from which the hemo-
 rhage occurs. This clause of the definition
 will not apply to all the varieties of he-
 morrhage as Dr Eberle acknowledges, for there may
 be an increased activity of the general system
 and a decrease in the local activity as sometimes
 occurs in Hemorrhoids. Dr Eberle classes with
 passive hemorrhages those which take
 place in malignant fevers and cause the
 petechia and vibices, and those which
 occur in scurvy; they may be passive hemo-
 rhages, but generally they are more transudation
 of the blood through the coats of the vessels.
 Some persons appear to be extremely liable
 to hemorrhagic discharges, for it is observed that
 many pass through life without experiencing
 this affection but very seldom while others

are constantly terrified with it, in one form or another. There are some curious cases related of this liability to hemorrhage, Mitiga relates a case of death from hemorrhage produced by a scratch of the thumb nail. Several relations had previously died in the same way.

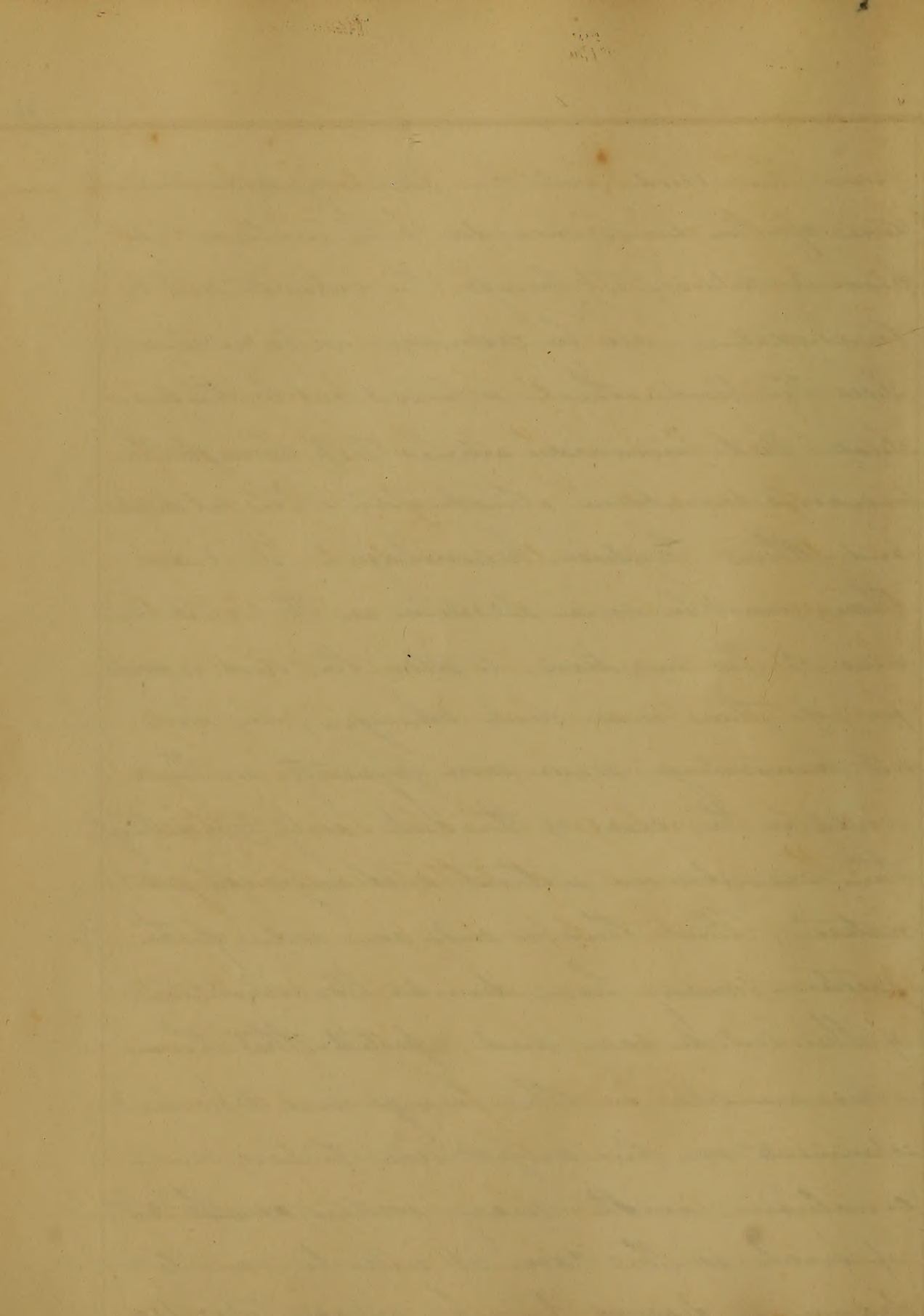
I Peak in his work on medical jurisprudence quotes a case from Mr Blackden where death was caused by the extraction of a tooth. The coats of the arteries were found on dissection very thin and transparent. Many children have died of hemorrhage caused by a division of the gum in dentition while thousands have escaped unharmed. What this liability to hemorrhage depends upon, it is impossible to say. Some authors have declared that there was sometimes a hereditary predisposition to hemorrhage, but in our present state of ignorance as to the state of the capillaries which constitutes hemorrhage it would be fruitless to attempt to seek out the cause of this hereditary predisposition.

Different hemorrhages occur at different periods of life, as epistaxis during childhood, hematuria during old age, &c. &c. Dr Cullen has written what Dr Gregory calls an "outline of a course of pathological research" in elucidation of this subject, but his explanations are thought to be too mechanical for this refined age when imitation and sympathy are the dominant passions of the day. Hemorrhages have been observed to occur periodically. Dr Caldwell, in his notes to Cullen's Practice, informs that we had not enough of what he calls Cullen's "curious specimens of the Poststroke of fœtus," has selected one, and that is the influence of the moon in hemorrhage, and appears to believe that the moon has some influence in the periodicity of its occurrence.

There are several varieties of hemorrhage, & shall commence with hæmoptysis, a spitting of blood, from arterial blood and veins to spit. This term is generally applied to hemorrhages from the respiratory organs.

whether it proceeds from the Larynx, trachea,
 or bronchia, according to Dr Eberle, though
 it may with equal propriety be applied
 to that which proceeds from the fauces for
 we generally spit out the blood when it
 comes from them. "Hemoptysis" according to
 a certain author, is generally from some fault
 of the lungs, the extremities of the bloodvessels
 being worn off by sharp humors in thin blood,
 so as to let out their contents and suffer it to
 be coughed up," and when there is plethoric
 evacuations are to be used; but if there be an
 increased velocity of a thin blood, ag-
 glutinants are to be made use of and
 coolers." This definition has now passed out of
 fashion. If the lungs are without air
 cells, if each of the bronchial extremities
 terminates in a blind extremity, in a
 cul de sac, and this cul de sac is lined
 by the mucous membrane lining the
 bronchia; if such is a fact, and also
 a fact, that the pulmonary artery

pour the blood into the parenchymatous structure
 of the lungs; how does a hemorrhage take
 place & certainly not through the capillaries, not by
 transudation, nor by exosmosis, nor by rupture.
 Does the blood which is poured out by the bron-
 chial and pulmonary arteries pass through the
 mucous membrane which forms the cul de sac
 and thus produce hemorrhage, & if it does,
 there must be some alteration in the vital prop-
 erties of this membrane to allow the blood to escape,
 for if there is no such change, why does
 not hemorrhage occur more frequently, as I think
 would be the case if the blood merely passed through
 the membrane without a change in its
 nature. But this is only one side of the
 question; many have denied the existence
 of the cul de sac and asserted that there
 were air cells in the lungs and De Haen's
 experiments on this subject seem to have been
 conclusive with many writers, ~~and~~ and
 if such is the case it will be vain to en-
 deavour to discover how hemorrhage takes place



from the lungs. It may also be asked whether
 hemorrhage proceeds from the bronchial
 & pulmonary arteries? but it will be a useful
 question. Effusions from vessels to date from
 is another variety of hemorrhage, and I
 am inclined to think that there is a rup-
 ture of some of the small vessels in this
 variety; it is generally considered the least
 dangerous kind and most easily stopped.
 There are several other varieties of hemor-
 rhages, Hematemesis, Hematuria which are gen-
 erally symptomatic, Hemorrhoids and menorrhagia.
 "The hemorrhages which take place
 in the period of collapse of malignant
 fevers seem to depend upon a paralysis
 of the capillary system." What does Dr. Clark
 mean by paralysis of the capillary system? Does
 he use the term in a figurative sense? ah!
 I suppose he means that the whole of the
 capillary system loses the power of contracting
 and thus allows the blood to escape
 through the capillents.

There is a variety of exciting causes of hæmorrhage, most of them act mechanically and produce congestion in the part from which the discharge proceeds, so that however inexplicable the nature of the change which occurs in the "vital Properties," many of the exciting causes admit of an easy explanation, such as induration of the liver and spleen, suppuration of the meninges and the Piles, which are well calculated to produce congestions in other parts. Also great exertions, as loud and long speaking, singing, laughing, which may produce congestion in the lungs and head; great exercise, lifting heavy weights, mental excitement; causes which obstruct the free circulation of the blood, as crabs, ligatures, tumours pressing on the blood vessels, cold, &c. &c. Cold which draws the blood from the external surface and produces internal congestion. Many of the causes, it is ap-

parent produce copious
 Menstruation
 perhaps has likewise excited some dis-
 relation among Physicians, some admit
 it, others reject it as an impossibility.

The hæmatemesis, which occurs in young
 robust females suffering from suppression
 of the menses, is said to take place
 vicariously; but this is certainly doubtful,
 the menstrual flux is a secretion, and
 not a mere effusion of blood, and
 it is very questionable whether an ex-
 travasation of blood can ever happen
 in the place and answer the purpose
 of the menses.

That effusion of blood,
 which takes place from ulcers and
 the stomach and other parts
 periodically, is thought to be a mere
 indication of an excited state of the
 system, which generally takes place
 when the menses flow.

^{ed}
Treatment of Hemorrhages.

It was a favorite doctrine of the celebrated Dr. Hall and his followers, that the cure of hemorrhages ought to be left to the conduct of nature; that it is often a salutary effort of the system to obviate and relieve many disorders; that it is consequently generally to be encouraged, often solicited, and not to be suppressed, unless it goes to great excess, or happens from parts in which it may be dangerous. Much of this doctrine is now thought to be ultra-remote, and therefore to be discarded from the treatment of hemorrhages, although in some cases it may hold good, as in epistaxis when it occurs in consequence of congestion in the brain, when it would be thought unadvisable to stop it immediately.

In the treatment of hemorrhage, several important considerations present themselves, namely; the state of the general system, whether plethoric, whether Symplic? What are the exciting causes of the hemorrhage? is it an active or passive hemorrhage? When there is plethora, or Symplic, Bloodletting is indicated. We should always endeavour to remove the exciting causes of the hemorrhage. The remedies which have been generally recommended to reduce local actions and to produce contraction of the vessels from which the blood flows, are astringents; of these the principal are the acetate of lead, alum, muriated tincture of iron, sulphate of zinc, &c. &c. I attempt to explain the modus operandi of astringents would be presumptuous after the failure of some of the mightiest minds of the Profession. I have believed that they act

by sympathy, but they have not told
 us how this sympathy acts. Darwin's
 hypothesis that they act by absorption
 is altogether inexplicable. Dr Murray's
 supposition is this, "that hæmorrhage, when
 it does not arise from solution of con-
 tinuity, depends upon the force of contrac-
 tion in the extreme arterial branches
 not being sufficient to resist the impulse
 of the blood from the larger branches,
 a deficiency of contraction generally owing
 to a debilitated state of these vessels; and
 that astringents by their gentle tonic, together
 with their coagulating quality are calculated
 to remove this debilitated state." This
 opinion will militate against some
 of the theories of hæmorrhage, and
 consequently will not by many be
 adopted. Dr Cullen's opinion, that
 they produce contraction and condensation
 in the soft solids, and thereby increase
 their density and cohesion, is on a par

with that of Darwin's. Dr Eberle candidly confesses, that he knows nothing about their action, and I think this opinion is worthy of adoption as any that have been advanced on this subject. May not some of them enter the blood and act directly upon the vessels? Acetate of lead seems to be mostly relied upon in hemorrhages of the uterus, I never speak very highly of it. Uva ursi was at one time supposed to be very beneficial in Hematuria, but it is now thought that it has acquired a false reputation and that it is not so efficacious as was at one time supposed. Muriated tincture of iron has been celebrated in Hematuria, likewise Purgatives and Common nettle Cold, digitalis, ~~gnetum~~, alum Teaw, have been recommended. Ipecacuanha has also been recommended, especially in hemorrhages, though it is difficult to explain its *modus agendi*. Aloe, Ferri have been highly recommended,

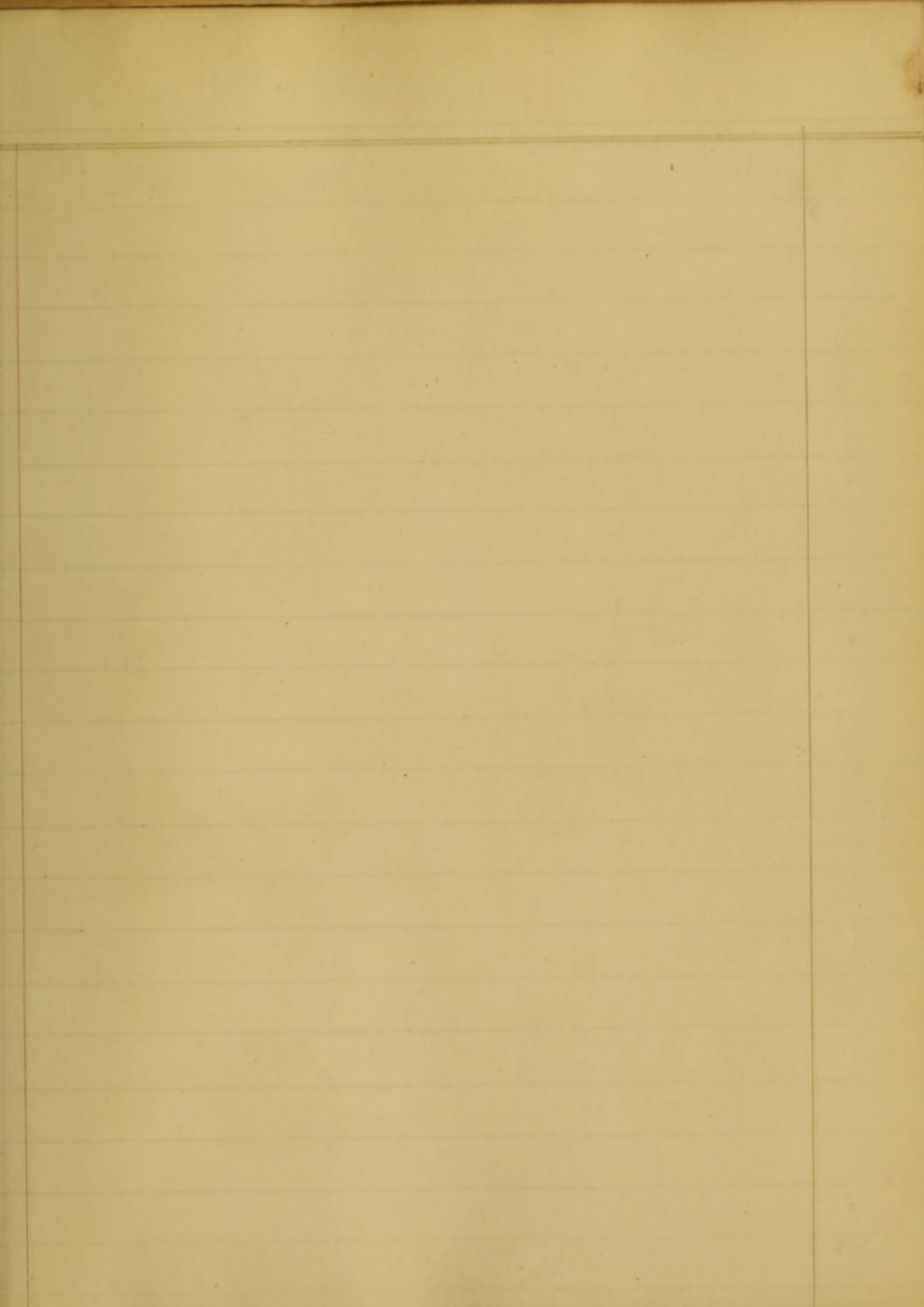
by some, as remedies of great utility in
 hemorrhage from the uterus, and
 though by some, they may be thought
 to be calculated to increase rather than
 diminish a flow of blood, yet in puerperal
 hemorrhage, where there is a want of
 action, they have been declared by
 very respectable authority to be remedies
 of undoubted efficacy.

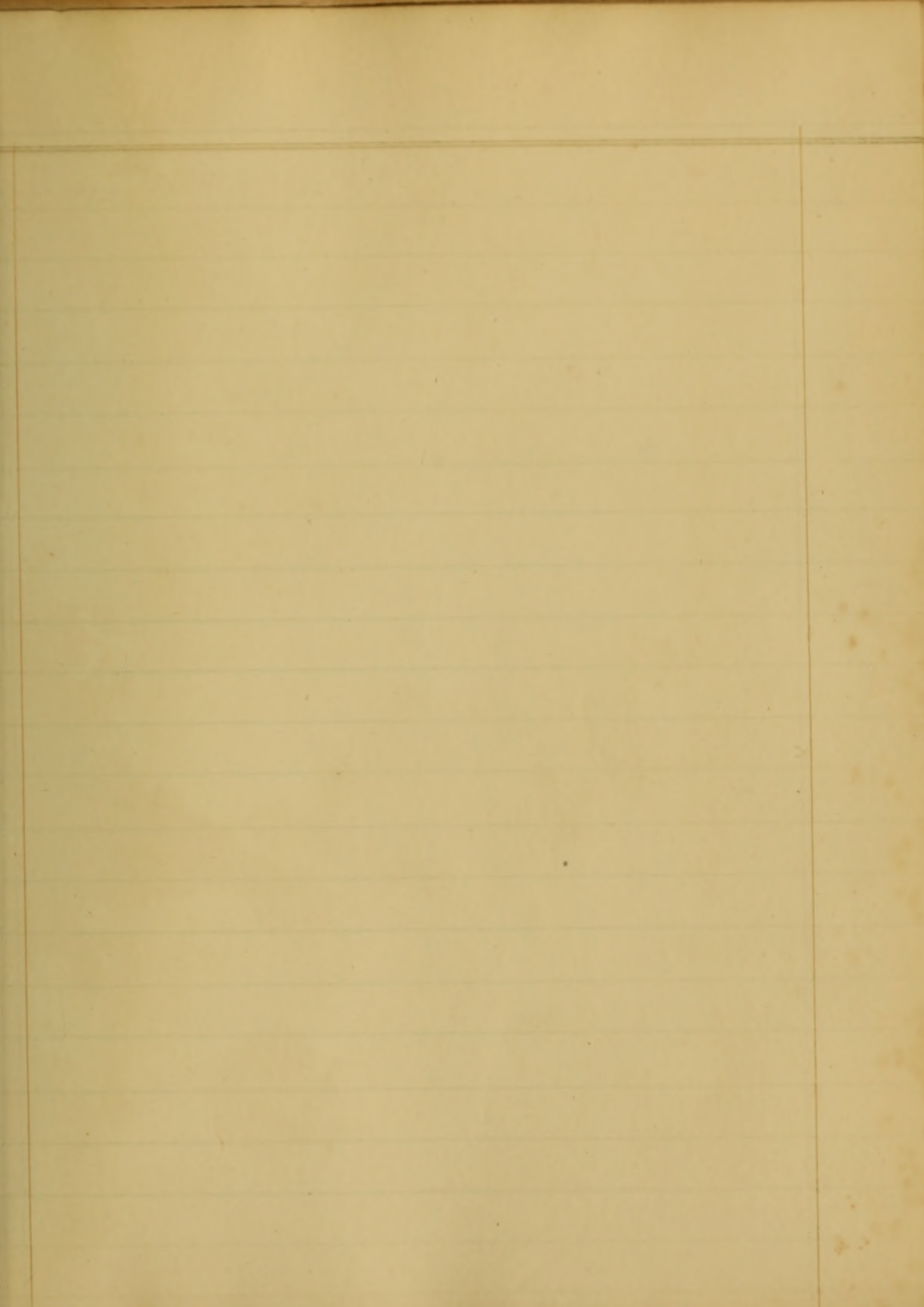
Emetics have been
 praised for their virtues in hemorrhage;
 Dr. Stourdan, Chapman, and others
 speak of them as very useful in hamaturia.
 They have been recommended by some
 and condemned by others ⁱⁿ hamoptysis, it
 is not thought that in hamoptysis they
 are of very doubtful utility. It is generally
 agreed that they are more beneficial in
 menorrhagia than in any other variety,
 and Dr. Eberle, in his Chapter on Emetics
 has given a very satisfactory reason for
 their being so, as well as a very plausible account

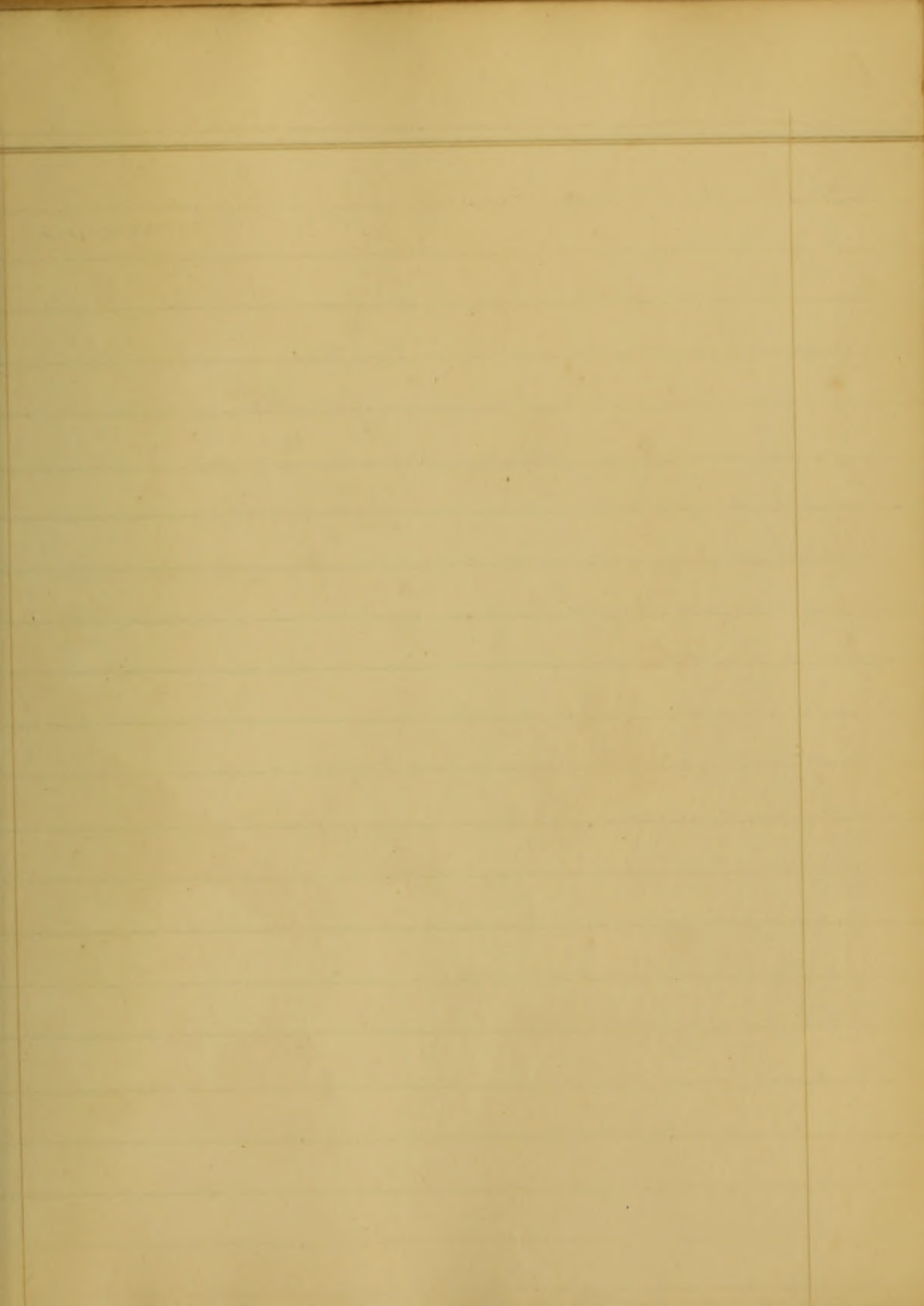
of their *modus agendi*, Murate of Soda, or according to the new nomenclature Chloride of sodium which was introduced to the profession by P. Rush, (who, I believe, derived his information from an old woman.) Has been a very common remedy in hæmoptoeis, and though not much valued by some, is undoubtedly productive of very happy effects occasionally. But how to explain its action is a difficult problem for solution; it may unquestionably prove beneficial in active hæmorrhage by reducing arterial action, but whether that is the only way in which it acts or whether it may not undergo decomposition in the stomach, as free ministic and acetic acids have been discovered there I am unable to say. Venesection, *opiatas*, *potasa*, *digitalis*, Cold reduce arterial action.

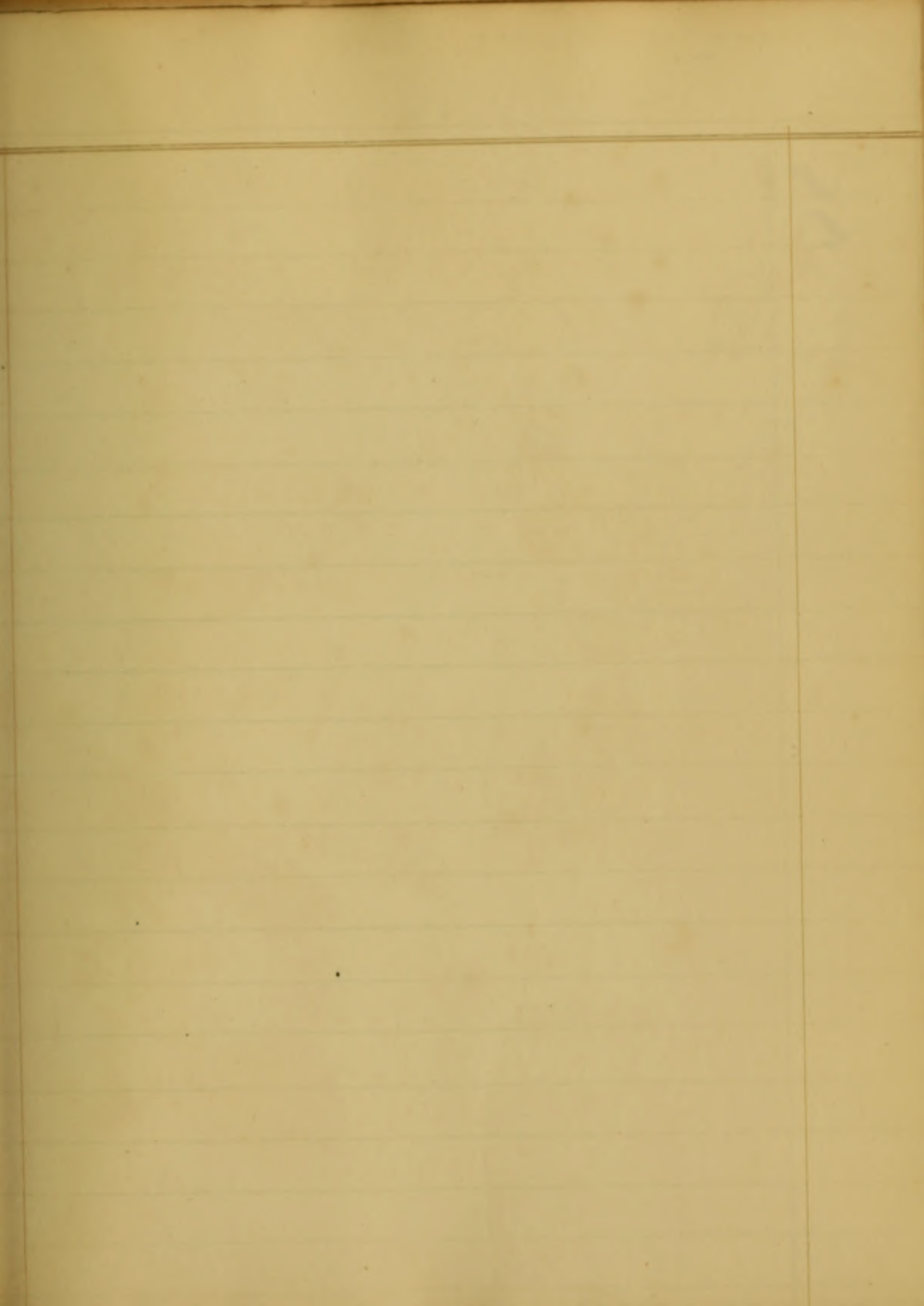
How shall we explain the action of these different remedies

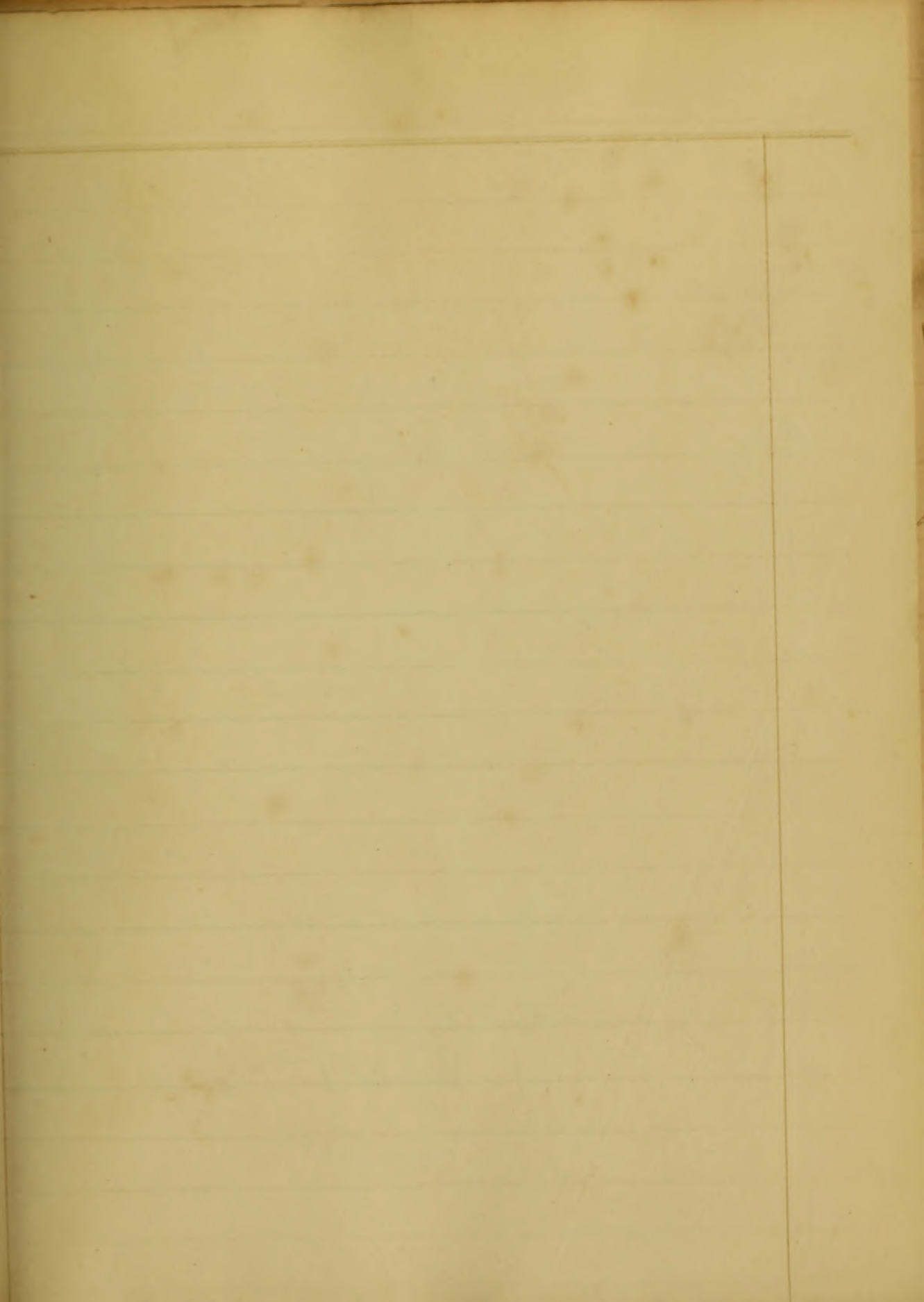
according to these different theories? How do they
 restrain hemorrhage by the exhalents? how
 by transudation? how by exosmosis? how
 by rupture? How do they correct that "al-
 tered state of the vital properties" which
 occurs in hemorrhage? How do they make
 the vessels contract only, instead of contrac-
 ting and dilating alternately? How do they
 counteract that state of the exhalents
 in passive hemorrhage which allows
 the blood to escape passively? It will
 be in vain to attempt to answer these
 above questions, they have foiled
 the brightest luminaries of the science;
 they are questions which, it is to be feared,
 will ever remain as limits to the researches
 of the "immortal mind".

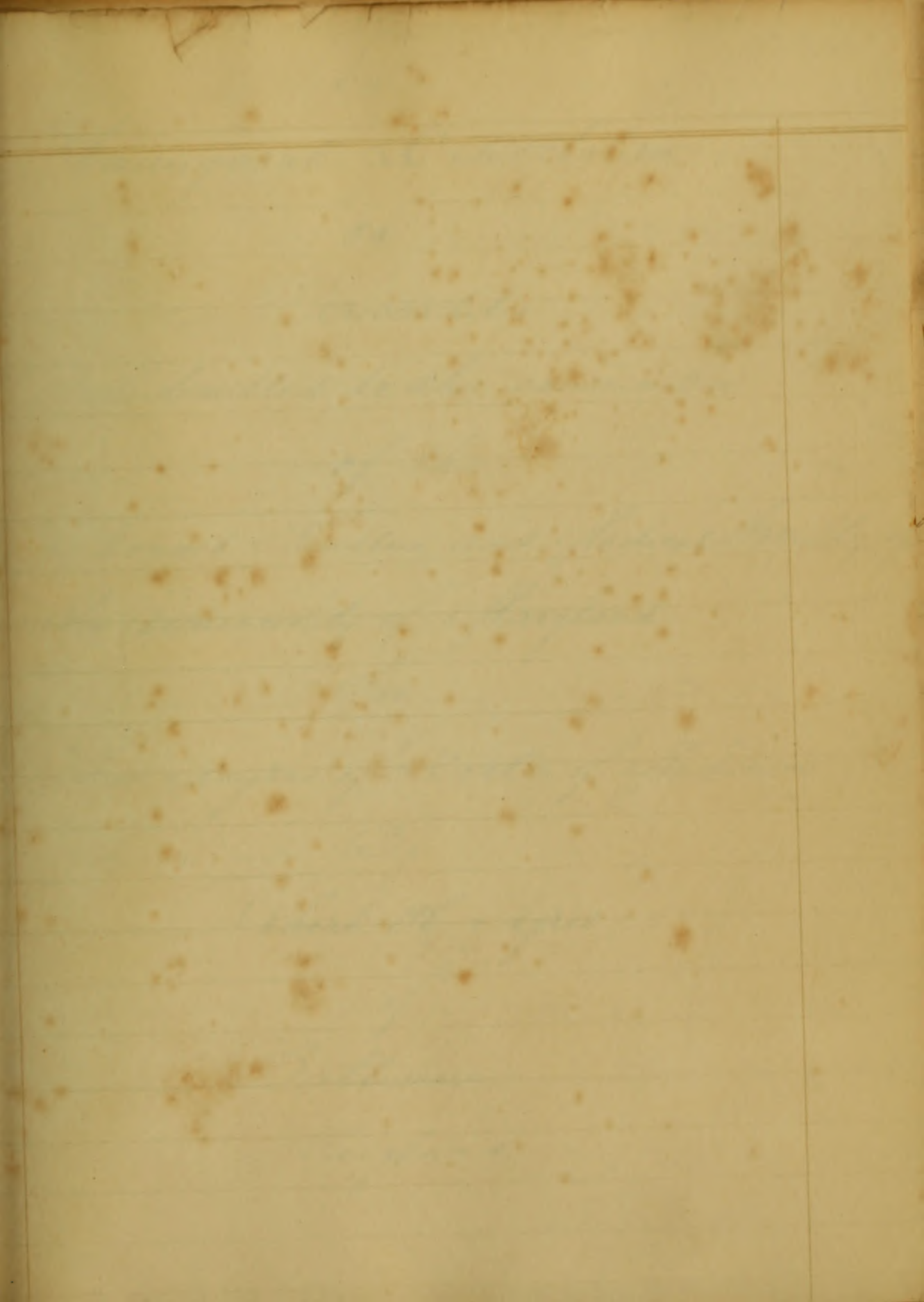












1835

An

Inaugural Dissertation

on

Pericarditis

Submitted to the examination

of the

Provost Trustees and Medical Faculty of
the University of Maryland

for

the Degree of Doctor of Medicine

By

Robert H. Agres

of

Baltimore

Maryland

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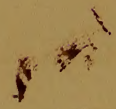
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Professor N R Smith J D of the University
 of Maryland. this paper is most respectfully dedicated
 And as my Preceptor, and Friend, I should be
 found wanting in gratitude, not to express the
 deep sense of respect for his talents and virtue
 and a grateful remembrance of his unmean-
 ing exertion to promote and facilitate my Professional
 Studies

R H Ayres

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Pericarditis

The pericardium is composed of two Membranes an outer fibrous, and an inner serous. It is situated in the lower part of the anterior mediastinum above the sponcurtic center of the diaphragm. It is connected anteriorly with the pleura, the thymus gland the Sternum, and the Cartilages of the Sixth and seventh ribs of the left side; posteriorly with the bronchial tubes the esophagus, and the descending aorta; laterally with the pleura, the phrenic nerves and the inner surface of the lung. The serous Membrane is much more extended than the fibrous; for after lining the inner surface of the pericardium it entirely covers the heart and is continued upon the aorta above its first curve; to the right it is reflected upon the Superior vena cava, to the left upon the pulmonary artery before its

bifurcation, and upon the right Pulmonary Vein immediately
 after their issuing from the lungs. The inner Surface of
 this Membrane is smooth and glistening, every where in close
 contact with itself and is moistened with a Serous fluid
 to prevent effects from the hearts Motion

The pathological characters of acute inflammation
 of this membrane are preternatural redness, Coagulated
 Lymph adhering to its Surface, and fluid effused with
 in its cavity. It is not always the Case that redness
 pervades the whole of the inflamed covering; it is not
 a sure characteristic of inflamed tissues, either Serous
 or mucous, to assume the florid appearance which
 they usually wear. The deposition of Lymph or
 purulent fluid is therefore necessary to make the
 general indication sure. In one or two instances
 mentioned by Saenue, the Substance of the heart

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itself, was found to be in a state of acute inflammation, but they are probably so obscure, that their primary seat must have been located in the lining membrane of the organ. Indeed the most tenable ground is, that when the heart was supposed to be in a state of disease, it primarily arose from an acute inflammation of the pericardium, or adhesion of its surface, giving rise to the chronic form of the disease. It is the opinion of respectable authors, that one of the best methods which nature adopts to produce reparation, is by pouring out lymph, to restore certain mischief resulting from disease, provided the inflammation does not terminate by resolution, which is still more favorable. It is the opinion of others, that adhesion is desirable, in those cases in which the heart

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and pericardium are highly inflamed, since this should not be the case, the quantity of fluid both serum and lymph would be so profuse, as to fill the cavity of the membrane, and the embarrassment of the heart action would be attended with fatal consequences.

Symptoms

The common opinion in regard to the general signs of this disease is, that they are varied and multiform, but still there is no doubt, but the same degree of precision may be obtained in ascertaining this inflammation, as in that of any other serous membrane. The usual symptoms are inflammato-

ry fever, a pungent, burning, lancinating pain in the region of the heart, very similar to that which occurs in Pleuritis. The heart action is greatly accelerated, and the arteries of the

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superior extremity beat violently, and there is great
 fullness in the precordia. The respiration is deep and
 hurried, and when full the pain is much more acute.
 The pulse is sometimes feeble, fluttering, and irreg-
 ular, and at the onset, is full, hard, and jerking.
 The tongue is coated and the skin suffused with
 cold clammy perspiration. The countenance
 indicative of great restlessness and anxiety and
 a constant fear of death's approach. Sometimes
 the disease maintains this character throughout, and at
 last terminates in two or three days, after intense suffering
 and great agony.

In regard to the principal causes which give
 rise to this form of disease, most writers at the present
 day seem disposed to agree in most particulars.
 The most satisfactory of these however, are some

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returnal blood, or mechanical pressure in the region of the pericardium, or inflammation induced from its contiguity to the lungs or pleura, or metastasis of acute Rheumatism, or inflammation in general. Cold has been said to be another of the principal exciting Causes. I should suppose that Strong mental emotion, or an inordinate use of Ardent Spirit, would more frequently promote the appearance of this formidable disease, and indeed any Cause that would stimulate the heart to undue action, or performance of its office, if continued, might assist in developing the Symptom.

Prognosis

This disease was once considered incurable by the celebrated Corvisart and others of no less reputation, but late abundant experience has shown, that its symptoms may not only be palliated, but an entire cure may be

made, though it is one of the most alarming of all the diseases to which the human family are liable. The recurrence of the disease (after the violence has abated) seems to be more dreaded (as in all cases of relapse) than in diseases of less magnitude. But generally, the prognosis is unfavourable, as it often degenerates into the chronic form.

Diagnosis

Pericarditis in almost all its symptoms seems so nearly allied to Pleuritis, that it requires the strictest scrutiny to make up a correct opinion in regard to it. The same anxious expression of countenance, accompanied with paleness, in this disease, are often to be found in Pleuritis, and many other diseases, where there is any morbid action or impairment of the vital organ going on. Purely our best judgement and still

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should be summoned in cases of such portentous impotence
We should thoroughly examine and seek out the suffering
organ, and our best remedy speedily and promptly applied

Treatment

The antiphlogistic plan of treatment must be employed
in a most energetic manner. A few hours of delay
or doubt, must certainly seal the fate of the patient
Blood should be taken from a large orifice in the
arm, even to the verge of Syncope. Leeches has been
highly recommended, to be applied in the region of
the heart, but it is my opinion that their use may
be resorted to, now successfully, under mild forms of
the disease. They are not expedient in such cases, where
the patient is assailed with such alarming symptoms
as above mentioned. It is true their employment
may be relied on, under some circumstances, but unfor

usually the violence of the disease is nearly the same in
 all cases, at least so much so, as to require our utmost
 ability to combat its fury. "Where there is a
 tendency to cachexia, I make no doubt, but our
 best local means of abstracting blood is by the use
 of cups. Twenty ounces of blood taken in this way
 will sometimes be attended with the most salutary
 consequences. There are other important means
 which should not be neglected. The condition
 of the stomach and bowels must be attended to.
 If the bowels are in a torpid condition, a purgative
 emulsion may be indicated. Sulphate of Soda with
 Senna forms an excellent one in these cases. Ten
 grains Calomel with as many of the Comp^t of
 Colocynth & two or three of Hyos^c must be given;
 Succeeded by an infusion of Senna, if it does not act

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in time sufficient for your purposes. Diluent cooling
 drinks may be allowed the patient in almost any
 quantity, Super-tartrate of Potash forms one of
 the most valuable of our diluent agents, in diluting
 the blood to make it less stimulant to the heart
 Tartrate of Antimony has been strongly recommen-
 ed, given in nauseating doses, from one sixth to an
 eighth of a grain. Sometimes it is our misfortune
 to see all our remedies perfectly futile, while the
 disease makes rapid strides to a fatal issue
 At one moment our hopes are raised to the
 highest pinnacle, at the next, our hopes and
 our patient are levelled alike. The reason
 of this is obvious, unless the effused lymph and
 serum be absorbed it is most sure to give rise to
 adhesion and a destructive and painful disease

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is the consequence. Depletion here is of no avail
 and our only refuge in this demand is glyster
 which will cause its absorption as strongly mani-
 fested in Typhus, this alone must be our sheet anchor
 from five to eight grains of Calomel, or ten to fifteen
 of Blue pill accompanied with Opium, three times
 a day. Commencing after bleeding and purging
 will generally produce the desired effect

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Monday, June 1st

1864

Left at 10:00 AM for

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and arrived at

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at 1:00 PM

at 2:00 PM

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1835

Inaugural Dissertation
On
Digestion;

Submitted to the examination

Of the
Hon^{ble} Provoost, the Medical Faculty, & Trustees

Of the
University of Maryland

For the Degree of
Doctor of Medicine.

By

Geo. W. Willson.
of Maryland.

It is not my intention in this dissertation to speak of the changes which the food undergoes in the mouth and oesophagus: but merely to consider briefly the most important changes which take place in the stomach and intestinal canal.

When the food has experienced the necessary changes in the mouth by the repeated efforts of deglutition it reaches the stomach; where by the contraction of the inferior extremity of the oesophagus and pyloric orifice of the stomach; it is retained for several hours, and undergoes the first portion of true digestion.

In proportion as the aliments are accumulated in the stomach this viscus becomes distended and if it is carried to a very great extent, the abdominal visera becomes compressed, the diaphragm is elevated respiration becomes short

-tacious mass, of a sweetish taste and
 -grayish colour, which has a slight
 acid taste called chyme. Beside those
 agents which have been mentioned (that are
 concerned in the formation of chyme) the
 temperature to which the aliments are
 exposed in the stomach (which is about
 32 degrees of Reaumur) bears an important
 part in this process.

Digestion takes place from the circum-
 -ference of the alimentary mass towards
 the center; that portion of the mass which
 is in immediate contact with the sur-
 -face of the stomach, being changed first
 it passes on to the pyloric orifice and
 a fresh portion is brought in contact.
 Thus it is digested in these layers until
 the whole mass is consumed.

The time which is necessary for the for-
 -mation of chyme, depends on circum-
 -stances. In persons of a strong and heal-
 -thy constitution and who takes considera-
 -ble exercise it is not ^{it} so long whereas in those

of a more delicate habit and who leads a sedentary life it requires a much longer time. The quality of the food also influences the time very much; vegetable aliments requiring much more difficult, than animal. The most usual time however is said to be between four ^{& five} hours.

Having viewed briefly the changes which the aliments undergo in the ^{Stomach} we next pass to the consideration of the nature of those changes. This is a point which is involved in much obscurity.

Notwithstanding the numerous Theories that have been advanced on this subject the most of them appears to be founded on hypotheses. While some of the ancient philosophers, were of opinion that it depended on putrefaction, others supposed it was concoction. Another doctrine is that of fermentation they supposing that there were some kind of leaven, in the stomach which acted on the aliments. There are various other doctrines that have been advanced.

upon this subject; of which it is unnecessary that I should speak. The doctrine which appears to be the most plausible, and on which has the most advocates is that of chemical solution; which is that of Spallanzani. This gentleman proved by experiments on animals; that by placing a portion of well masticated food in hollow metallic balls pierced by a number of small holes; and causing them to be swallowed that chymification was still affected.

He also proved that by placing food after it had been well masticated and mixed with gastric juice and exposing it to hollow tubes or small glass vessels to a heat equal to that of the stomach that chyme was still formed.

Notwithstanding the plausibility of this doctrine it has met with its adversaries. Whatever may be the nature of the change upon the food in the stomach: certain it is that by the heat to which it is exposed, the compression and motion which it receives

combined with the agency of the saliva and gas
 & the fluids chyme is formed. It would be unrea-
 sonable to suppose that the two first of
 those agents (namely heat and compression) could
 perform a very active part in this process
 and the nature of the saliva will not al-
 low us to suppose that it could have a
 very active effect; although I have no doubt
 they are all very important auxiliaries.
 Therefore as the gastric juice is the only re-
 maining fluid: I think it would be rational
 to conclude that this fluid is the active agent
 in the formation of chyme. Indeed the ex-
 periments of Spallanzani go to prove this
 position. It is also supposed that the bran-
 ches of the eighth pair of nerves has an im-
 portant influence in digestion: but according to
 Magendie the nerve of both sides may be divided;
 provided they are cut below where the branches
 are given off to the lungs so that respiration may
 not be injured; without preventing digestion from
 going on. The nature of the Chyme varies
 in proportion as the food may differ.

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Having now spoken of the changes which take place in the stomach; we next pass to ^{the} consideration of those which take place in the duodenum.

As the chyme passes from the stomach into the duodenum; the construction of the pyloric orifice prevents it from regurgitating backwards into the stomach again.

After the chyme has reached this portion of the intestinal canal: we find in the first place this organ stimulated to increased ^{action}, its mucous membrane becomes red and injected with blood; this stimulus being continued along the ductus communis choledocus, to the liver and pancreatic duct to the pancreas the bile and pancreatic juice are poured into this intestine in a considerable quantity and the chyme being well ~~well~~ mixed with ~~with~~ these fluids undergoes a kind of second digestion. It has been denied by some that the bile or pancreatic juice has any influence in digestion; believing they exert

their influence; merely by thinning and softening these particles of elements which has not undergone chymification in the stomach. It has also been proved that the fluid secreted by the mucous membrane of the intestines has very little or no part in digestion.

But notwithstanding the experiments of Messrs Lapsaigne and Leuret (namely those of tying the ductus communis and pancreatic duct and chyle being still formed) goes to prove that the biliary and pancreatic juices has no part in digestion: yet I think unless we admit those fluids, to have some agency in the formation of chyle: digestion in this portion of the alimentary canal will be difficult to account for. To what extent the action of ^{those} juices go toward the formation of chyle or whether they have any influence in that way is by no means a settled point.

But that the chyme undergoes considerable change as soon as it becomes mingled with

those fluids is certain: its taste becomes bitter its colour becomes yellowish and it also loses much of its sharp odour.

After the chyme having undergone those changes: by the peristaltic action of the intestine it passes slowly into the jejunum and in its passage; as the chyle is formed it adheres to the mucous surface of the intestine to be taken up by the absorbents. The passage of the chyme is very much assisted by the mucus which is exhaled by the mucous membrane: but notwithstanding this its progress is very slow owing no doubt in part to the valvulae conniventes; and partly also to its having to pass against its own gravity some portion of the way. This slow progress allows the chyle time to separate from the chyme.

Before the chyme reaches the lower portion of the ileon it is deprived of all of its nutrient particles and is converted into a mass approaching to excrement

... finds a certain ...
... its color becomes yellowish and
... has been much of the ...
... the ...
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... and in the ...
... is found to adhere to the ...
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This excrement then by the contraction of the lower portion of the ileum is passed through the ilio-sacal valve into the large intestine where it is submitted to its last alterations. The valve prevents this matter from regurgitating; and by the peristaltic action it is forced onward through the whole extent of the large intestines to the rectum.

During its passage through the large intestines the feces are deprived of their fluid parts and acquire more consistence and more or less color. When the feces reaches the rectum this portion ^{of intestine} being somewhat extensible they collect there in considerable quantities the sphincter muscle prevents it from passing involuntarily.

After remaining in the rectum for some time the feces becomes irritating their quantity increasing also; the irritation produced by the weight and size becomes so troublesome that we are obliged to throw them off.

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 distance where it is situated to the
 station. The other portions of the
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1835

An Inaugural

Essay on

Phrenitis

Delivered to the Corporation of the President and Faculty of the University of Maryland

By Samuel R. Knight

Knowledge of the structure and functions of the body, the laws of nature, the history, pathology, and treatment, which must be an acquisition by the aids of Anatomy and Physiology, are only to be acquired as a result of a long and arduous study.

At the University of Maryland

An Inaugural

Essay on

Phrenitis

Submitted to the examination of the Provost, Trustees and Medical Professors of the University of Maryland

By Samuel D. Knight

"A knowledge of the structure and functions of the body is the basis of all rational Medicine, Doctrines, Systems, and Theories, which will not bear an examination by the tests of Anatomy and Physiology, and only to be regarded as random guess work or idle dreams."

Mr Lawrence's Introductory Lecture

the Medical Professors
Gentlemen

In selecting a subject for my Thesis much difficulty presented itself, the numerous diseases that afflict mankind and are interesting to Physicians have already engaged the attention and exhausted the ingenuity of other candidates for Medical Degrees. independently of their productions, the various diseases have been treated of by Medical Writers of the first order, such being the case it was a long time before I could find a subject agreeable to my taste, my Mind like the Patriarchs have wandered from subject to subject but found nought to rest upon;

I have at length concluded to write on Phrenitis, and I now for the first time launch my pen into the great ocean of Medical Science, with the hope that the emmenor'd Shaft of criticism may never be directed here.

And Gentlemen for the Interest which you have always taken in my Studies, for the kindness with which you have ever imparted information to me, You have my warmest gratitude. for the urbanity and gentlemanly manner in which You never failed to treat me. I respect You. And believe ^{me} that in whatever quarter of the Globe Providence may direct my footsteps, whatever may be my situation in this transitory Life; I will ever remember the

Medical Professors of the University of Maryland with
the most sincere regards - H. Sewell

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Phrenitis

By Phrenitis Pathologists understand an inflammation of the Encephalon & its investing membranes, this disease is placed in Cullen's Nosology in the Class Pyrexia and order Phlegmasia, the parts most subject to inflammation are the Circutious or most vascular part including the Corona Striata, the Optic Thalami, Convolution, Pons Varolii and Cerebellum.

Causes of the Disease

The causes of this disease are various, long exposure to the Hot Sun, as riding on horseback, Sudden and violent mental excitement as anger the excessive use of wine, inattention to diet, Metastasis, as of Rheumatism Gout Erysipelas. diseases of the Skin and Mechanical ^{violence} as blows, Falls, &c.

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Symptoms

The Symptoms of Phrenitis vary with the stage, in the first period or that of irritation, there is an exaltation of the intellectual sensitive and Locomotive faculties hence headache irritability of the eyes and ears, delirium, Convulsions, Countenance glowing, distorted and animated, painful prickings of the limbs which are contracted and trismus.

Gradually the irritative period abates in intensity and is succeeded by the second or that of collapse in this last which is that of disorganization or compression there is *Vice Versa*, a diminution or total loss of the above functions hence coma, obtuseness of the senses, weakness, ^{paralysis,} the muscles falling into this state with flaccidity Countenance destitute of expression, Eyes closed but from the relaxation of the muscles that elevate the lid

over

Proposition

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and the same.

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falling of the lower jaw the commissure hitherto contracted and drawn to one side relaxed pupil dilated if the affection be general all the functions are simultaneously disordered, when partial the functions over which the affected part alone presides is injured hence partial Paralysis

Diagnosis

The only disease with which Phrenitis can well be confounded is Synocha or inflammatory fever and here it is extremely difficult to form a correct diagnosis, in Synocha we have a red eye, violent pain in the head and often delirium it is well known that Clutterbuck is of the opinion that Phrenitis is the cause of fever, if this opinion be valid there is no ~~more~~ necessity for diagnosis; but this theory like many others in Pathology at the present day will ^{not} stand the test of the Scalpel - The symptoms that will lead us in distinguishing Phrenitis from Synocha are the very irritable state of the Stomach, the great aversion to light - Should we be so fortunate in Phrenitis as to remove the local symptoms as pain in the head delirium &c the fever ceases: - whereas in Synocha this is not the case and the senses are more irritable in Phrenitis than in Synocha.

Prognosis

When we reflect upon the delicate structure of ^{the} organ involved in Shrewsbury's its great vascularity and its extensive connection with other parts we cannot but conclude that the prognosis in this disease must be very unfavourable, and experience too truly confirms this opinion. —

We can here as in all other diseases only judge of the danger by the violence of the symptoms — If the pain in the head be excessive with delirium, deafness, and grinding of the teeth we may view the patient as extremely ill, but should the following symptoms ^{take place} we will be warranted in considering the patient's chance of recovery as truly a forlorn hope, viz coma. Strabismus, coldness of the extremities, respiration stertorous. & feeble pulse. they denote a fatal lesion of Brain

Termination

This disease may terminate either in resolution, effusion, supuration or gangrene —

Post Mortem Appearances.

In the first period the cerebral substance is found of a rose colour, the white or fibrous of a violet and both are injected, tumefied and slightly indurated. and may be compared to the state which characterizes erection, when cut into it appears studded with red points, called by the french Pathologist *ballées du sang*

1771

the first part of the year, the weather was very warm and the crops were in the best of health. The second part of the year was very rainy and the crops were much injured. The third part of the year was very cold and the crops were much injured. The fourth part of the year was very warm and the crops were in the best of health. The fifth part of the year was very rainy and the crops were much injured. The sixth part of the year was very cold and the crops were much injured. The seventh part of the year was very warm and the crops were in the best of health. The eighth part of the year was very rainy and the crops were much injured. The ninth part of the year was very cold and the crops were much injured. The tenth part of the year was very warm and the crops were in the best of health.

Treatment

The essential character of Phrenitis as declared by its symptoms and revealed by Post mortem inspections is a high and rapidly disorganizing inflammation of the substance or membranes of the brain the Therapeutical agents employed in its treatment are bloodletting general and local, blistering, purgatives refrigerants, mercury and Digitalis, I shall make a few remarks upon each of the above remedies. With regard to the first it is evidently the sheet of our hopes the "Magnam Dei donum" we should bleed from a large orifice so as to make a sudden impression upon the vascular system; the patient should be placed in an erect position and bled until syncope takes place or until a decided impression is made on the pulse -

Doctor Good recommends the opening of the external jugular vein or temporal artery when the disease attacks adults. - Sims is also in favour of cutting the temporal artery; he says that bleeding 12 or 14 ounces from this artery he has found better than 30 ounces from the arm - Cups & leeches are spoken very highly of after general bloodletting - they should be applied to the back of the neck - We can say very little in favour of Blisters; they should never be applied to the head as they are apt to augment the irritation of the brain.

111

The first of these is the fact that the
 government has been unable to secure
 the necessary funds to carry out its
 policy. This is due to a number of
 causes, the most important of which
 are the following:

1. The government has been unable to
 raise sufficient revenue from the
 taxation of the people. This is due
 to the fact that the tax system is
 antiquated and does not take
 account of the changes in the
 economy.

2. The government has been unable to
 borrow money from foreign
 countries. This is due to the fact
 that the country has a poor credit
 rating.

3. The government has been unable to
 sell its bonds. This is due to the
 fact that the market for government
 bonds is very small.

4. The government has been unable to
 raise money from the sale of
 government property. This is due to
 the fact that the property is often
 sold at a low price.

5. The government has been unable to
 raise money from the sale of
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6. The government has been unable to
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10. The government has been unable to
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 the fact that the market for
 government bonds is very small.

Purgatives

Purgatives act in three ways in this disease, first they clear the alimentary canal of all irritating matters, secondly, they deplete from the general system by augmenting the secretions and thirdly; they act as revulsives by determining the blood to the intestines. Their purging may be assisted by injections and these should be in their nature of the harshest kind.

Refrigerants

Cold should be applied to the head this may be done by means of cloths soaked in cold water and placed on the head, or by putting small pieces of ice in a bladder and laying this on the head.

Professor Deverge objects to cold being applied to the head on the ground that the external vessels become constricted and the blood is therefore thrown on the brain. Dr Hosack states also that he has seen it injurious from the increased flow of the blood to the seat of the disease which follows its use - But the mass of evidence is in its favour

Mercury

Dr Percival gives the history of a child of his own aged 3 years and 3 months in which a perfect cure was obtained by this and nothing else. In 48 hours signs of amendment appeared, and 6 days the child was well - during which time 13 grs of calomel had been taken and several semisses of strong mercurial ointment had been rubbed into the legs.

Drs Dobson & Gohs also recommend its use;

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Experiment

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Observations

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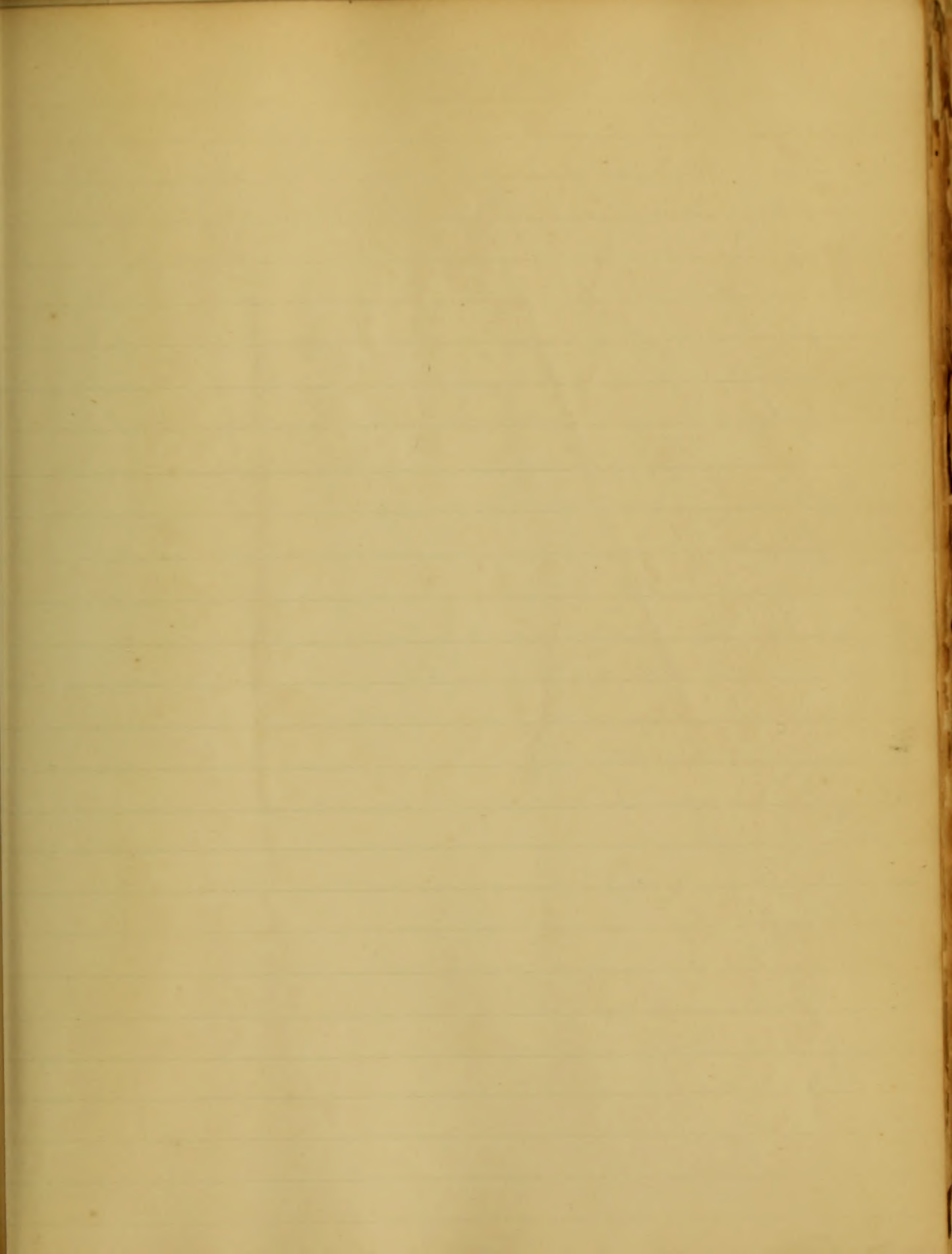
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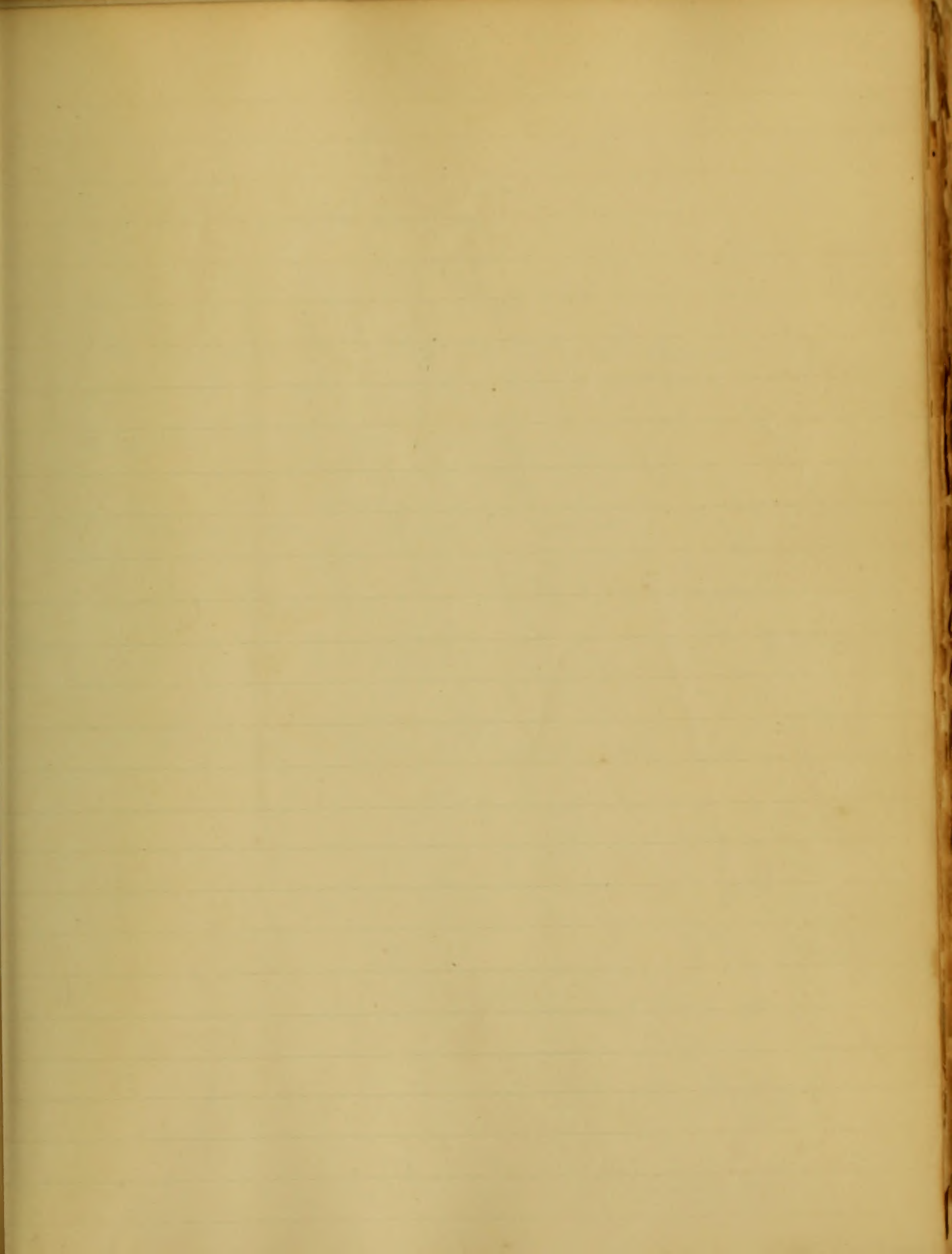
Digitalis

This article has been recommended by some of its merits we know little, never having seen it used in this disease.

Dr Good says when used early it has seemed serviceable, but it should be avoided in the second stage of the disease unless indeed it be employed as, by Dr Gohis to smooth the passage to death, by diminishing the violence of the convulsions that usually precede it;

And lastly the patient should be kept perfectly quiet and placed in somewhat of an erect posture as much as is agreeable to his feelings, the stimulus of muscular exercise should be carefully avoided, he should not be allowed alcohol or animal food in any form whatever. I should have mentioned before that Sinapisms applied to the feet a few depletion has been fully used, so as not to augment the cerebral excitement but to promote a translation of it to the feet is of great use in Phrenitis





James G. Thompson

Author

The subject of the present volume
relates to the operations of
the "Massachusetts Board of
Education"

of the University of Massachusetts

Robert H. Wallcut

London

1835-

Inaugural Dissertation
on

Blennochaea
for

The Degree of Doctor of Medicine

Submitted to the examination of

the Honorable Proost, Trustees
and

Faculty

of the University of Maryland.

by

John C. P. Wederstrandt

of

Louisiana.

James O. Baker

for his services as

for his services as

for his services as

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for his services as

The disease treated of in the following pages is one of such frequent occurrence, so well known to the medical world, and one on which such a number of able treatises have been written, that I am confident any attempt towards farther illustration of its Pathology, or more appropriate management would be justly deemed presumptuous in a tyro in the healing art.

But having revolved in my mind the greater number of ills composing the black catalogue of the Nosology, a consciousness of my inability through inexperience to do justice to maladies of a more interesting nature induced me to select Gonorrhoea for the theme of this dissertation, having had an opportunity of witnessing it in its various forms with the treatment generally pursued by those whose superior surgical attainments have raised the reputation of the Baltimore Infirmary to an eminence to be envied by the patrons of any similar institution of the present day.

The term Gonorrhoea applied to this disease is derived from the two Greek words γονορροια.

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But having looked in my mind the
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The two further applied to the
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and *glauc* to flow, signifying a discharge of Sperm,
but modern Surgeons very improperly have used it
to imply a running of infectious purulent matter
from the Urethra of the male and from the
meatus urinarius, vagina and Labia of the
female.

Within late years the term *Blenorrhoea* etymologi-
cally flow of mucus, in some degree approximating
the reality has been used by writers, on this subject,
but the pathology of the disease at once shows
the impropriety of the appellation, wherefore
with reluctance we are bound to yield to the
tyrant general usage from whose dictates there
is no appeal, and shall proceed with our subject,
not attempting to innovate upon the ancient nomencla-
ture.

Cause

Pathologists have long been divided in opinion -
concerning the identity of *Gonorrhoea* and *Lymphitis*.
Among those who have contended with the greatest
ability to support the doctrine of the identity of
the two venereal diseases stands the celebrated
John Hunter the brightest luminary of modern
surgery.

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3

A number of arguments sufficiently plausible to the inexperienced and superficial observer have been adduced by this great man in corroboration of his favourite theory, but having impartially weighed their respective merits truth leads us to the conclusion that they are totally inadequate to prove the fallacy of the following positions which must stand forever incontrovertible.

First. The poison producing gonorrhoea never produces chancre, neither does the virus of Syphilis ever cause gonorrhoea. Second. Mercury never accelerates the cure of gonorrhoea, on the contrary every gonorrhoea may be cured without Mercury without danger of Secondary symptoms supervening.

Third. The virus of gonorrhoea never produces constitutional Syphilis. Fourth. The means ordinarily used in the cure of gonorrhoea are invariably of no avail in the cure of the genuine Lymphatic chancre. Such are the reasons which must compel all unprejudiced investigators to consider the cause of this disease to be *visi generis*, viz a virus formed by a morbid action of mucous exhalents of the parts whence it originates, and capable of being propagated by inoculation.

Pathology

1

A specific inflammation primarily located in the mucous membrane of the Urethra of the male a short distance above its orifice in the Glands Navicularis chiefly affecting the lacunae mucosae Morgagni and their excretory ducts. From this point it extends in many cases higher up the urinary passage involving the membranous portion Caput Gallinaginis and neck of the Bladder. Allusion has already been made to the doctrine of the identity of Gonorrhoea and Syphilis, which for reasons adduced was considered to be wholly untenable. Admitting the basis of this disease to be Sui generis according to the well known axiom of pathology "when an irritating matter of any kind is applied to a secreting surface the natural secretion of the part becomes increased in quantity and altered in quality." Thus it is conceived that by the contact of a violent substance the mucous secretions of the urethra become changed in character as to become identical in nature with secretion from which they originated and rendered capable of producing similar results. It is not however my intention to maintain that Gonorrhoea must ensue from an impure congress, or that there is great reason for supposing that in some cases not unfrequently in the female ^{it} may be occasioned by neglect attending to the cleanliness of the parts, especially during such

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periods as she may be under the influence of her accu- 5
tomed evacuations. The surface of the female urethra
is also subject to discharges strongly resembling the subjects
of this treatise though totally distinct in reality, for
instance an effusion of puriform fluid has appeared on
the cutting of a tooth by sympathy of the urethra
with the gums, this canal is also sometimes the seat of
Rheumatism and Gout. It was proved by Mr Hunter
perhaps to the opinion which had universally prevailed
previous to his day, that this morbid secretion did not
always proceed from ulcers, but that Pus might be
secreted without breach of substance, this was proved
by the examination of subjects in whose Pleura Pus
effused was detected which was certainly the result
of inflammation, but no traces of ulceration were
anywhere discernible. It was also ascertained by the
dissection of criminals who were known to have
been executed while suffering with this disease,
and in all such cases the urethra was found devoid
of ulceration. When any irritation not specific has
produced inflammation in the soft parts a secretion
of matter takes place the intention of which appears
to be to wash away the irritating substance; but in
inflammations caused by specific poisons it is obvious
that the matter effused being in quality equally as

... the matter of being in quality of a
inflammation caused by specific factors & is known
to be traced away the irritating substance, but a
of matter takes place the interior of which appears
has been inflammation in the left part a character
of character. When any irritation not specific has
and in all such cases the matter was found to be
less abundant which happened with the disease
diphtheria of oropharynx who were known to have
appeared the same. It was also abundant in the
diphtheria of inflammation but no trace of character was
of inflammation which was certainly the result
of the examination of subject in which there was
seen to with the best of evidence the was found
always present from above but that was not the
reason to this day, that the matter is not in
abundance to the degree which was usually found
diphtheria and part. It was found by the
with the same the count is also found in the best of
the cutting of a tooth by separation of the matter
within an effusion of pus from the abscess in
the trachea through to the bottom in reality, for
is also subject to diphtheria through the larynx
and in all such cases the inflammation of the
larynx is not the cause of the disease.

ting as that intended to be removed must perpetuate the 6
side even if the venereal inflammation were not like many
similar species kept up by its own specific qualities,
fortunately in gonorrhoea this phlogosed condition of the
membrane is removed by the gradual loss of sensibility
parts to the action of the infectious matter whereby
subsequent virus is incapacitated for the further propa-
gation of the disease in tissues implicated in the destruction
b. This constitutes undoubtedly one of the kindest efforts of
nature with which we are acquainted to aid us in our remedial
treatment and which is of itself not unfrequently sufficiently com-
petent to arrest the progress of morbid actions, constituting gonorrhoea.

Symptoms

Disease appears at very different periods after the infection ac-
cording to the irritability of the constitution. The usual time is
the fourth or fifth day it has rarely shown itself within
shorter and instances are recorded of its having continued dor-
mant for a fortnight. The initial stage is characterized by an
itching in the Glans with soreness along the line of the urethra,
after which the discharge appears on pressing the orifice
of the urethra in the form of a whitish pus.

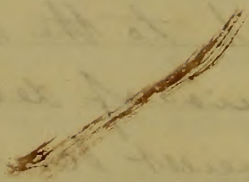
In a day or two this discharge increases in quantity
assuming a yellowish aspect, and in proportion as
the inflammation augments all the symptoms
become aggravated.

This puriform discharge gradually increases in quantity, becomes more yellowish attenuated and irritating in quality, the burning or scalding pain accompanying urination is situated as the patient will describe about an inch within the orifice of the urethra at which part the passage feels peculiarly straitened or contracted; the urine flows in a small and interrupted stream the lips of the urethra ^{are} thickened and inflamed to a cherry redness with intolerable laceration.

When the inflammation proceeds more deeply than the membranous lining and affects the reticulated structure of the urethra it produces therein an extravasation of coagulable lymph the consequence of which is a chord distinguished by involuntary erections with incision of the penis creating excruciating pain. The malady may now be considered to have reached its acme. Frequently at this stage we meet with a most annoying Phimosis caused by the increased spread of the inflammation now attends, and we may observe a long line of lymphatics in a highly phlogosed condition extending along the dorsum of the penis, the inguinal glands being likewise swollen and especially painful on pressure.

occasionally, one or both testicles become extremely & tender to the touch with pain throughout the spermatic cord. Much constitutional irritation invariably supervenes upon the inflammation being thus extended from the urethra to neighbouring structures, when the disease has advanced thus far harassing sensations of burning and titillation in the neck of the bladder and anus are experienced and cutting pain in the perineum on urinating which can only be effected guttatim. The swelling of the Testes after alleviates the primary symptoms by creating reaction and the discharge of puriform fluid is much diminished; now and then some of the engorged capillaries of the mucous membrane are ruptured and a quantity of blood escapes much to the relief of the unfortunate sufferer. The period of declension is so variable as to defy the severest scrutiny of the observer to affix limits to its duration, it is distinguished by a general subsidence of the more annoying symptoms, the scalding in urination diminishing the erections are less frequent and painful, the virus acquires a greater consistence presenting a whitishropy appearance. Such is the ordinary form of Gonorhoea which is however liable to a multitude of variations, some of which in a few cases simulate the character of *Lues venerea*.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]



According to Carmichael, who among modern
 writers has probably bestowed more attention on venereal
 complaints having had extensive opportunities for such
 enquiries, not unfrequently the matter of Gonorhea in
 the first instance not penetrating the urethra in
 the infectious Congress, but being absorbed by the
 external surface of the gland creates great irritation
 with a discharge of attenuated acid fluid from
 the glandula odorifera Tysonis, rarely this irritation is
 succeeded by small ulcers involving the inner surface
 of the prepuce and foreskin sometimes accompanied
 by a tormenting Phymosis. These ulcers are distinguished
 from the Syphilitic in exhibiting a smooth level
 and nearly circular surface slightly raised above the
 surrounding skin, having a healthy colour without
 granulations or induration, presenting more of a
 fungoid aspect.

Gonorhea is sometimes, though very rarely succeeded by
 certain secondary affections, which supervene in those
 cases characterized by these small ulcers just described,
 and it is the opinion of Mr Hauser no mean authority
 in these matters "that these constitutional symptoms
 never occur unless preceded by these primary ulcerations,"
 these are distinguished by painful swellings in the groin
 where the glands subsequently become much enlarged and indurated.

There appears also a chronic inflammation of the 10
fauces generally diffused and superficial the surface
of the velum and Uvula being after congress with
innumerable small tufts of white lymph, or pitted,
with shallow indentations; where ulceration has taken
place, clean figures of the tonsils such as are not
unlike Syphilitic sometimes accompany the train.

Papular eruptions varying from a pale red to a
deep crimson colour, ushered in by pyrexia, pain,
redness, and swelling of the joints, ~~which symptoms~~ ^{these eruptions} follow
successively not originating simultaneously, some of
them are merely pimples, while others partake more
of the pustular form. In a brief space are here
enumerated and described the generality of what ~~is~~
are by many styled the secondary affections of
Gonorrhoea, but whether the disease is ever followed
by such symptoms as have been described is to me
a matter of doubt; because they all bear the stran-
gest resemblance to Secondary Syphilis, and
probably were only a consequence of that disease
appearing perhaps long after the primary indica-
tions had disappeared, or it may have been that
true chancres in reality existed during the Gonorrhoea
but in parts such as the interior of the Urethra con-
cealed from the view of the observer.

The first part of the paper is devoted to a general
 consideration of the subject, and to a description of the
 various forms of the disease, and to a discussion of the
 causes which give rise to it. The second part is
 devoted to a description of the various forms of the
 disease, and to a discussion of the causes which
 give rise to it. The third part is devoted to a
 description of the various forms of the disease, and
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 description of the various forms of the disease, and
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 various forms of the disease, and to a discussion of
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 give rise to it. The ninth part is devoted to a
 description of the various forms of the disease, and
 to a discussion of the causes which give rise to it.
 The tenth part is devoted to a description of the
 various forms of the disease, and to a discussion of
 the causes which give rise to it.

and what corroborates this view is, that the same remedies are resorted to for their removal, which are so highly efficacious in constitutional Syphilis.

Treatment

This is to be modified materially according to the different stages of the disease may require. For the inflammatory form, and anti-phlogistic course in the strictest sense of the term must be adhered to, any indecision or disposition to temporize on the part of the physician will inevitably lead to consequences tending greatly to perplex himself, and protract the sufferings of the patient to an unwarrantable extent. By energy and boldness the disease may now be speedily arrested in its course, and every untoward symptom in the sequel certainly obviated. To effect this we must resort to venesection, and local depletion by leeches from the member, one good blood-letting will in general be sufficient to make an obvious impression on the disease, and to aid the operation of the internal remedies, but the leechings may be renewed until the

phlogistic appearances are evidently on the decline, the flow of blood from the liver may be promoted with advantage by continued abutions of warm water, and afterwards a warm bread and milk poultice may be applied which will be found highly soothing in its action.

Rest quietude, the lowest diet consisting of mild articles such as small quantities of rice, flaxseed tea barley water, sago or tapioca are the most preferable and above all total abstinence from spirituous and fermented liquors. The bowels must be opened by an ounce of Sulphate of Magnesia with the fourth of a grain of Tartar Emetic, which dose may be repeated every second or third day, *pro re nata*. Should the inflammatory condition prove tardy in yielding to these first efforts of the physician, it will be necessary to keep the patient for a few days under the influence of Tartar Emetic by administering half a grain of the article every hour, this course has been long pursued at the Infirmary and in most cases with the happiest result. It will sometimes occur that the swelling of the spleen, will

The specific appearance is evidently for the
 reason the form of leaf from the latter may be
 treated with advantage by certain authors
 known water and otherwise a new kind
 which water may be applied while one
 a form highly boiling in its action
 best practice, the French-leaf-colored of
 water had a large quantity of tea, (water
 or boiling water, say on tobacco or the
 specific and show it to be a substance for
 practice and practice is not the same as
 often in an excess of heat of the
 with the fruit of a part of water
 which will may be used to every kind of
 for the water. (water) the inflammation
 the water part is in relation to the
 of the water it will be very
 keep the water for a few days
 of water, which by administration
 a pair of articles long have the
 has been long known of the
 will call with the highest
 practice occurs that the

continues after our primary depletions, this may
 be also attended by excessive heat, tenderness and
 a burning sensation, in such cases free scarifi-
 cation should be resorted to followed by an
 emollient poultice, this practice I know to be
 productive of great benefit from personal trial.
 Cold evaporating lotions consisting of the Liquor
 or Plumbi acetatis dilutus, and the usual Spiritus
 and anodyne compounds, may be applied
 to the inflamed surface so long as relief is afforded,
 warm infusions of poppy heads or of chamomile
 flowers when once prescribed will be often desired by
 the suffering patient these are among the most
 soothing and grateful applications among our
 resources. The use of demulcent drinks already
 alluded to viz Barley water Infusions of Slippery
 Elm, Solutions of Gum-Arabic or Tragacanth
 must be rigidly persevered in by the patient, these
 by medicating the Urine and shielding the highly
 irritated surface of the urethra from its contact
 will contribute largely to alleviate the pain or
 evacuating the bladder and assuage the intensely
 heating sensation of the suffering parts.

When after the use of such remedies the inflammation of the parts shall in some degree have subsided, coincided by the diminution of swelling in the penis; the puriform discharge becoming more thickened and ~~more~~ of a yellowish colour no longer imparting a green tinge to the linen, and somewhat devoid of its acrimony: the urine causing less of the burning pain on evacuation, the phymosis or paraphymosis being wholly or partially removed and the distressing spasms of less frequency, it would now be not improper to venture on the use of the Balsamic or Terbinthinate remedies.

Regarding the employment of Balsam Copai-
ba a diversity of sentiment has for a long time and still exists among practitioners, some descri-
bing it in all stages of the disease even in its most inflammatory form, and declaring it to be productive of the highest utility, or no instance aggravating the phlogistic symptoms desired to be subdued, while others on the contrary consider it to be an article exerting in its action calculated to promote the inflammation when of a high grade, and to be used only when the subject

of depletion shall have been obtained.

Having had no experience in the indiscriminate use of this agent I am unable to speak of its effects under such management but I can bear ample testimony to its efficacy in the subacute grade of Gonorrhoea. The only difficulty attending its exhibition is the inability of many to retain it when taken as it is very liable to disorder the stomach, this may be obviated by the addition of some of the Linctura opii and mixing it in a solution Gum Arabic, the following formula is among the most common - Bals. Copaiba ℥i ℞ss Nit. Dale ℥ss Linct. opii et Camphorae āā ℥ Gum. Scac ℥ij Aquae ℥vi M of this a dessert-spoonful may be given every two hours. The powdered bubbles administered under the same circumstances as the Copaiba is given has been long extolled for its virtues, and in relaxed leucophlegmatic habits it has certainly proved beneficial, in the gleet form I know of few remedies we can resort to with more advantage, it is however to be remembered that bubbles being an article of a stimulating nature, care must be taken in its exhibition during active inflammation.

Very recently a combination of the *Secale Cornutum*
 with the *Piper Cubeba* in the proportion of five grains
 of the former with ten of the latter, was introduced
 into practice in the Papinomy having come highly
 recommended, in some cases the disease retrograded under
 its exhibition, but on the whole it failed in realizing
 the hopes of its employers. When the disease has
 lost its irritated character and has assumed a
 strictly chronic condition the Spirits of Tur-
 pentine in union with Copaiba and Cubebs may be
 given according to the following formula viz Bals-
 copait-et Linct Copabis ā ā ℥i Spirit Turbinth ℥ss
 Linct Opii ℥i Sacch. Alb ℥i Gum. Acac ℥i Aqua Lent-
 ℥viij. one teaspoonful thrice daily. It must be kept
 in mind that the use of these medicines must be con-
 tinued for days after all discharge has ceased, other-
 wise it is very liable to recur. When after long con-
 tinuance the discharge is kept up by an atonic condition of
 the secreting lining membrane of the urethra, nothing
 is more beneficial than the occasional introduction
 of medicated bougies which by their stimulation induce
 a new and healthy action in that tube. Stimu-
 lating injections of Solutions of Sulphate of Zinc-

and Acetate of Lead are generally prescribed in Gleet but the greatest caution is requisite in their employment and they frequently being on Structures, in the Infirmity they are seldom employed the use of the bougie having been preferred, the Tincture of Cantharides in doses of ʒss drops three daily until Strangury supervenes and abated after this and the odor Urinae subsides is one of our best remedies in Gleet.

If among other symptoms Dischites should occur it may in general soon be relieved by continued rest in the recumbent posture Leechings, and keeping the part wet with Infusion of Chamomile flowers or Poppy heads, or any of the cooling Lotions. Chordee generally coming on at night must be prevented by occasional anodynes. To remove Phimosis we must persevere with internal medicines such as are in common use, the greatest cleanliness of the Glans should be preserved, this may be effected by injections of tepid water under the prepuce, and the part should be kept wet with cooling lotions. Paraphymosis is to be treated with warm oblations of Soap and water repeated after during the day, and when painful tepid infusions of Opium may with great advantage be applied.

Among the more annoying symptoms demanding the attention of the Physician is the Suppuration of Buboes, these however being totally distinct in character from Syphilitic are found to yield readily to the ordinary discentent modes of management. The strongest necessity for abstinence from exercise and all other irritating causes must be urged upon the patient; which with rest, low diet and occasional copious leechings will be found materially to expedite the cure, cold evaporating lotions are useful, but should these discentent means not succeed, and the suppurative inflammation endure, it should be promoted by warm emollient poultices medicated with opium should the pain demand timely incisions should be made in the tumour when the suppurative process is sufficiently advanced to admit of the free evacuation of pus, the poultices should be continued until granulation commences when the cure will be accelerated by dressing with simple cerate or Spermaceti ointment. Should these tumours assume the indolent form the application of blisters succeeded by mercurial plaster will be necessary. The constitutional effects of Gonorrhoea when they do occur

During the course of the investigation conducted by the
 attention of the physician is the importance of
 the fact, the former being totally neglected in
 cases of the opposite are found to yield
 readily to the ordinary treatment instead of morbid
 mind. The thought is kept in relation from
 specific and other exciting causes which are
 when the patient is not with the first one
 occasional cases which will be found morbidly
 to exhibit the cure, each exhibiting a different
 degree of the disease. The extent of the disease
 and the pathological changes in the brain, it should
 be found to be in some cases of the most
 with a few. Should the brain remain in a state
 that to be made in the brain when the pathological
 process is sufficiently advanced to a point of the
 restoration of the patient should be certain
 rather than the common case. The case will
 be assisted by the brain with the first case or
 the most certain. Should the brain remain in a
 the intellect for the exhibition of the first case
 by resources which will be necessary. The case
 the natural effect of the disease when they occur

field to cleanliness, the use of diaphoretic alteratives
 Spitzant. viz the compound decoction of Sassa-parilla
 and Guaiacum, should they not decide after this
 treatment a mild mercurial course may be
 necessary, with the frequent use of the warm-
 bath. The dilute Nitric acid comes warmly
 recommended by Pearson and Powers, and should
 an opportunity present I should prefer the use
 of it to Mercurials.

Ninety pages have thus been devoted to the description
 and treatment of this disease, and it would certainly
 be an act of Supererogation to inflict more of my
 views of this subject upon the honorable Society,
 fully aware of its egregiously imperfect, I trust
 entirely to their kindness and clemency, to excuse
 what maturer experience might render more
 worthy of their observation.

1835-

An inaugural Dissertation,
On a form of Fever which appeared
last fall,

Submitted to the
Rector, Trustees & Faculty
of the
University of Maryland
For the degree of
Doctor of Medicine

By
C. H. McClellan of Baltimore.

Respectfully Dedicated

To

William A. Davis M. D.

As a testimony of esteem

By his sincere friend

The Author.

The object of Physiology is to ascertain the relation which exists between the different organs, which compose the human system. Much research has been employed in numerous investigations, and the present state of the science bears the best testimony, to the zeal and talents of its cultivators. A close examination of facts is ascertained to be the only method, by which general principles can be accurately deduced; or, in other words Physiology is a science of induction. No reasoning a priori could have demonstrated the functions of the nervous system, nay, to what vague theories did it give rise, nor was its office determined, till observation and comparative Anatomy revealed it. But why should we instance examples for confirming an admitted truth. Our knowledge of Physiology teaches us that "when all the functions are harmoniously performed health is the result, but if any one or more experiences aberration disease is induced." The object of Pathology is to point out this aberration, to show its influence, & to suggest means for its removal. When this deviation & its effects are local, diagnosis is generally easy, but when in consequence of this

The effect of electricity is to produce the
in some cases between the different organs which
compose the human system. That amount of
the present state of the system is the best
way to the great end of the system.
The various relations of facts is determined by
the help of which, and of course, principles can
be accounted for. In other words, the
is a science of observation. The objects of science
are those which are the objects of the human
mind, and to what extent they are that of
the, and are the objects of the human mind, the
and considered the objects of the human mind.
What are the objects of the human mind for
the objects of the human mind. The objects of
to be that the objects of the human mind
professed health is the result of any or
one of the objects of the human mind is the
The objects of the human mind is the objects of
then the objects of the human mind for the
When this condition is of the objects of the
objects of the human mind, but when in consequence of this

the constitution is affected, it may be more difficult to fix upon the offending part. Thus in many diseases, we are unable to determine the condition of the internal parts, till examination after death unfolds it. If induction is important to physiology how much more is its agency requisite to ascertain any vice in the system, which may give existence to disease. It was from a conviction of this fact that examinations after death were made, and the appearance of parts differing from their healthy aspect noted. Comparing these results with the symptoms existing during life, satisfactory evidence of the cause of death was adduced, if not the precise manner in which it was brought about. Since pathological anatomy has been cultivated, diagnosis has been much facilitated, and appropriate therapeutical agents suggested, but still there exists as much variance as to the Pathology of Fever, as there did a century ago. How is this difference to be resolved? All admit by an appeal to facts.

How is it then, that if all base their views on facts, that we perceive such conflicting opinions? The truth is we have such a multiplicity of facts, that it

would really be changed if all tastes could not be suited
 and all views proven. But these facts are not in all
 cases true, many of them are hearsays, many handed
 down from generations, ^{to generations} many derived from the reports
 of those who were incapable of discriminating
 between cause & effect, and most of all from the
 imagination. Add to this our prejudices, the reverence
 we have for the authorities, the fact that we are apt
 to see things as we wish them to appear and there
 may not be as much difficulty in resolving these
 'facts' as at first sight appeared.

In investigating subjects of discussion in proportion as
 the evidence is doubtful the value of correct testimony
 increases. And now a call is heard from all quarters for
 well authenticated post mortem accounts of fe-
 ver cases. On this account I have selected as a sui-
 table theme for this paper, 'The Billious Remittent
 Fever which appeared last summer & fall at the
 Baltimore Alms House', for an examination of
 which opportunity was afforded me in the ca-
 pacity of resident student.

The individuals who were so unfortunate as to
 contract this disease, were without exception, parts

of cargoes recently exported from Germany, who had been engaged some weeks prior to their admission to the Infirmary of the Alms House, as labourers on the Rail Road, between Baltimore & Washington.

The country in which they worked was but scantily supplied with springs, & it was with ~~with~~ difficulty they obtained sufficient water to quench their thirst, consequently they repaired to their "schnaps" with frequency. Their food was coarse & of a character different from what they were accustomed to.

Their lodgings were in temporary shanties, newly open, exposing them to the miasmatic emanations emanating from the low marshy grounds in their vicinity. When they were first taken sick, the known unwillingness of that class of people to take medical advice prevented them from applying for such assistance as could have been afforded on the road. They took nothing for their malady, unless copious draughts of the panacea of their trade, Whiskey. When they were admitted, they were generally in about the eighth day of fever, a circumstance much to be regretted, as their disease required prompt energetic treatment, and when they came to our hands little

short of creative power could save them.

The disease was characterized by prostration, approaching to typhoid, dull expression of countenance, complexion pallid, pulse intermittent occasionally slow & full then in a few beats becoming quicker & so alternating. respiration slow, skin dry and hot, or covered with a cold clammy sweat, head very hot, pupils insensible, breath offensive, covered with a dry hard amber colored crust so different from the healthy epithelium as not to deserve that name, this was sometimes bathed with aropy mucous following the finger with a rope when lifted from the organ, teeth covered with sordes epigastric tender on pressure, alvine dejections frequent, thin, black & extremely fetid, often mixed with blood, petechia, coma.

Case. No. 1. Cooper, Ct. about 35 was admitted July 12th with a fever of eight days standing, he represented his chills as having been very severe, and the fever following it so high as to keep him delirious for some time - it is now assuming a typhoid type - pulse rather full but extremely soft, tolerably frequent, skin hot & dry, suffused with bile, as well as his eyes, tongue dry, coated brown, with red edges; eyelids heavy & sluggish, pupils

contracted, general torpor of the whole man. He was put on the mildest diet, cupped over the epigastrium, when he complained of tenderness, treated with small doses of *Per. Chlo. Hyd.* + *Pal. Specac.* for two days which produced but little change. On the third day he was blistered behind the neck and ears, this appeared to rouse him from his sluggish state, he perspired freely, the tongue became clean and moist, pulse more tense but quicker. The fourth day found him still improving. On the fifth small doses of *Carb. Ammoniac.* & *Perfusion of Sassafras Quistlochis*, were administered, as stimulants. On the sixth he began to grow worse, his perspiration became clammy, his tongue dry and black his teeth covered with scordes, his eyes closed, & he himself so dull as scarcely to be aroused into answering a question, blisters were applied to his temples. On the seventh his other bad symptoms increased, in addition to singultus & he died at night.

Autopsia - Brain. consistence natural, arachnoid membrane thickened with lymph thrown out on its surface, vessels all enlarged, a little serum in the left ventricle. Thorax Healthy. Abdomen. Liver a little enlarged, when cut into showed an increase of

of the yellow substance over the brown. Spleen enlarged and softened. Stomach presented numerous patches of inflammation almost tending to ulceration. Duodenum also inflamed, and indeed the whole alimentary canal showed spots at no distant intervals of high inflammation.

Case 2. Beamer, a negro, Et 30. received today in a moribund state, in the very last stage of typhoid bilious fever, could give no account of himself & died an hour after admission.

Autopsia. I am induced to mention this case on account of the extreme similarity of the post mortem appearances. With the exception of the duodenum being in this case entirely free from inflammation, the description of the condition of the last patient suits that of the one under consideration exactly.

Case 3. Wise Et. 40. attacked with fever eight days previous to his admission, pulse frequent but neither very full or strong - skin sallow - of nearly natural temperature on the extremities, but burning hot on the abdomen and forehead - much epigastric tenderness, thirst, slight diarrhoea, tongue slightly furred, moist, and red - intense head ache, great debility, answers rati-

ally - Caps over the epigastrium to 3xvi - absolute diet
 gummy drinks. (10) Stools very solid, has fallen down
 several times between the bed & the close stool pulse
 becoming more contracted & frequent, skin covered with
 a copious cold perspiration (13) Some amelioration in his
 symptoms, pulse a little fuller does not complain of
 pain in the abdomen on full pulse. - (14) all the
 symptoms heightened - covered with cold clammy
 sweat, anxious respiration, after suffering until
 noon he died. Autopsia - Head. Arachnoid thickened,
 opaque, cisterns portion of the brain a dark ash
 color, cerebral substance in general injected, presenting
 numerous red points when cut into. Thorax. Lungs en-
 gorged, blood and mucous exuding from incisions made
 in them. Abdomen. Externally the viscera looked healthy
 but the mucous membrane was red throughout par-
 ticularly at the pylorus of the stomach. The whole
 course of the colon was thick & purple, but with-
 out ulcers -

Case 4. John. Aet. 35. - was admitted on the 14th day
 of fever. Has taken a "few powders" - Skin dusky of
 a livid yellow, relaxed, and covered with cold perspi-
 ration, eyes dull & heavy - low delirium, pulse of mod-

orate softness and frequency but small. Heat over the epigastric intense, the rest of the surface except the head nearly of natural temperature. Tongue dry the epithelium looking and feeling like a piece of horn, red at the edges and beset with a fuliginous deposit, teeth gums & lips covered with sordes, gums bleeding, nostril plugged with lint for violent epistaxis. M. M. Caps over the Stomach.

Colomet. P. Camphor. aa grs every 2 hours. Infus. Arist. Sufent. wine glassful every 4 hours - Gummy acidulated drink. He continued to live three or four days gradually sinking, exhaling a most fetid odor constantly muttering something to himself & appeared calmly. Autopsia twenty four hours after death. Head. On cutting through the calvaria the brain was found so soft as to render a minute examination impossible.

Thorax. Lungs. Healthy. - Abdomen; Inflammation visible on the peritoneal surface of the stomach, which for some inches around the cardiac orifice, presented a beautiful carmine color - On opening the viscus every possible grade of inflammation was seen from a light pink to black and in many parts of the mucous membrane was raised from the other coats by air effused

in the intervening cellular tissue. The same appearance was traceable throughout the whole extent of the canal with the addition of large ulcers in the ileum and colon. This emphysema is assumed by some as one of the evidences of acute inflammation, — such it undoubtedly was, for although twenty-four hours intervened between death & the examination with the exception of the marked softness of the brain, there were no signs of putrefaction, and some gentlemen present who had served long apprenticeships in opening intestines at every possible period after death never witnessed a similar appearance.

Bauer, at 34. was admitted on the tenth day of fever, apparently much better than his companions, as he was quite strong, & without the usual symptoms of prostration, but his vague look, & vacant smile signified incipient delirium. Pulse tense & fast, tongue red around the edges, and coated with a white fur. conjunctiva injected, face head & abdomen very hot, pain in the stomach, & the whole course of the colon. Venesection to $\frac{3}{4}$ xv. Calomel \frac{ss} at Pul. Ipecac \frac{grj} — Sulph. Mag. This day. delirious all last night, raving incessantly, — jactitation, pulse stout

in the interesting collection of the same specimens
 was made throughout the whole extent of the
 tract with the addition of large areas on the
 23rd Oct. This specimen is of some of the
 as one of the specimens of acute inflammation
 of the middle lobe was for a short time
 from interest between that & the specimen
 with the exception of the middle lobe of the
 brain there was no sign of inflammation, and
 the brain itself was not very much affected
 in any way, it being at most slightly
 affected in the middle lobe & a small
 area.

Since Oct. 21. was admitted on the 23rd day of
 apparently much better than in comparison of
 quite strong, but that the usual symptoms of
 but his case both, except that slight
 distinction. The first part of the
 was made with a view to the
 had obtained any but pain in the
 white matter of the cord. Venous
 of the
 of the

and weak, tongue dry & beginning to brown. Cups to the epigastrium to ℥xxij - afforded slight relief. Cold lotions to the head, Epipeptics along the whole course of the spine, & the calves of the legs, - Fourth day. Revulsives without effect, the raw surface dressed with Ung. Hyg. Brit. Comelou, passing feces involuntarily, pulse a vapor, died. Autopsia. Brain as in Case 3. Thores. Sinus greatly engorged - Abdomen. sigmoid natural dark colored, engorged - Peritonium here & there slightly inflamed - Stomach, much inflamed, a large ulcer in the greater curvature. Duodenum, almost sphacelated, ulceration about the ileo-caecal valve. Some purinous blood in the ascending colon under the mucous membrane - Such a map of disease I suppose was scarcely ever seen.

Case 6. Tupper, Et. 40, much emaciated, thin light hair of nervous temperament, he was incapable of giving satisfactory answers to any questions - high fever of typhoid character, pulse soft & weak, so much exhausted as to be incapable of rising from his bed, the sides of which were protected by planks to prevent his rolling off - Pupils not sensible to light, head & abdomen very painful, tongue almost cylindrical, dry, cracked, coated black, Skin dry & hot, petechia - M. M. Calomel ℥j. Puls.

Urterion. *grij* - Saline Cathartic. Emetic at 11 o'clock.
 Diet. Pleasant tea. The Calomel was continued in *gr* & *grss* for
 two days, when purgation was profuse in consequence of the
 Hospital being closed - and a sudden change of the wea-
 ther. looks much better, the crust on the tongue clearing
 off & exposing a red surface. For four weeks he continued
 gradually improving under an absolute diet and an
 attention to his symptoms. He was a Knight of the Thimble.
 He and it was thought that that occupation was not
 unsuitable for him in his present condition, strict
 directions were given him as to his diet & he was dischar-
 ged from the Hospital - But we might as well have
 spoken to a swine, for the same day he was discharged
 he feasted heartily on bacon and cabbage, which produced
 a violent dysentery, which carried him off in a few
 days. No autopsy made.

We might content ourselves with this simple state-
 ment of facts, confident that can be but one opinion
 as to the pathology of this fever. But if we can show
 that the gastro-intestine observable in all cases is capa-
 ble of explaining all the symptoms of the disease
 we shall hold it infallible that was the cause of the
 disease.

When the stomach is only slightly affected, headache is experienced; when the bowels are in a torpid state the same condition is perceived, and when the stomach is inflamed the brain is always affected, & if this condition continue the membranes of the brain are not unfrequently phlogosed. An instance of delirium tremens without inflammation of the stomach is rarely met with.

External injuries of the head such as wounds & contusions, & concussion of the brain invariably sympathetically affect the stomach through the medium of the nerves. The two organs are so intimately connected that when one is affected the other sympathizes, hence arises the disturbance in the circulation, respiration, & in part the suppressed state of the secretions.

When the stomach is inflamed, digestion rendered difficult or entirely prevented, the system wastes & becomes debilitated. And there are but few articles which can be placed in the stomach which do not add to the irritation.

In mucous membranes the sympathy which exists between contiguous parts is so great, that when inflammation exists in one spot it may on this account be propagated in a short space of time to a hundred.

In consequence of entritic inflammation, absorption be it
 venous or not is in a great measure prevented, hence the
 great difficulty of obtaining the usual results of the
 therapeutic agents; this & so great, may also be explained
 by this fact, as also the dry state of the skin.

The liver on account both of continuous, & contiguous
 is affected so as not to secrete its peculiar product
 & the bile continues to go the round of the circulation
 adding to the mischief already existing in the system
 Thus we think that the Physiological doctrine holds
 here, if we have been mistaken, it is not for want of
 evidence, and our future practice in this disease will
 be much modified by the principles of Broussais.

1.
A Treatise on Asiatic Spasmodic Cholera 1834-5.

The disease termed Cholera Morbus which is generally known by the copious bilious discharge differs from the Asiatic Cholera only in this respect. Whereas in the common Cholera Morbus there is both vomiting and purging together with bile, in the Asiatic Cholera there is not the least trace to be discovered.

To the Medical Faculty
of the University of Maryland

The following pages are submitted.

By James G. Coombe

of Washington City D.C.

1882

To the Librarian
of the University of Washington
The following books are submitted
by James G. Thompson
of Washington City, D. C.

A Treatise on Asiatic Spasmodic Cholera.

The disease termed Cholera Morbus, which is generally, known by the copious bilious discharges, differs from the Asiatic Cholera only in this respect. Whereas in the common Cholera Morbus, there is both vomiting and purging tinged with bile, in the Asiatic Cholera there is not the least trace to be discovered; it has distinct premonitory symptoms, which will warn us to shun the approaching danger; the common Cholera has none. When the disease is raging, if a person has a violent diarrhoea and pains in the stomach he immediately anticipates an attack of Asiatic Cholera, and takes the proper precaution to escape; if he neglects to stop the diarrhoea by proper medicines, in a few days the disease becomes fully developed. The disease first commences with vomiting, and after the patient has thrown off every thing he has in his stomach, purging commences. On the contrary, sometimes there is no vomiting, or if there is, it soon ceases, from an atonic state of the stomach, under which that organ receives and retains whatever may be poured into it, as if it were a dead substance. In the majority of cases the purging is a more constant symptom than the vomiting, and is the first in the order of occurrence, but being a less striking

A treatise on chronic Ophthalmia

The disease termed chronic Ophthalmia is distinguished from the acute Ophthalmia in several respects. It differs in the manner of its commencement, in the progress, and in the treatment. It is not attended with the same degree of pain as the acute Ophthalmia, and is not attended with the same degree of redness and swelling of the eye. It is not attended with the same degree of discharge, and is not attended with the same degree of tenderness of the eye. It is not attended with the same degree of photophobia, and is not attended with the same degree of lachrymation. It is not attended with the same degree of itching, and is not attended with the same degree of smarting. It is not attended with the same degree of heat, and is not attended with the same degree of dryness of the eye. It is not attended with the same degree of pain, and is not attended with the same degree of tenderness of the eye. It is not attended with the same degree of photophobia, and is not attended with the same degree of lachrymation. It is not attended with the same degree of itching, and is not attended with the same degree of smarting. It is not attended with the same degree of heat, and is not attended with the same degree of dryness of the eye.

deviation from a state health than the vomiting,
 (which immediately arrests the attention), it has usually
 been spoken of as occurring subsequently to the latter.
 Purging has very seldom been altogether absent,
 and when it has we may expect a malignant
 form of the disease to shew itself. There is seldom
 much griping or tenesmus although the calls to
 stool are very sudden and irresistible. They
 also, sometimes accompany vomiting attended by
 spasm, and when this takes place there is a suspension
 of the pulsation at the wrist, as if all of those
 symptoms originated from one common cause.
 In advanced stages of the disease, the purging
 sometimes stops, but in many cases, discharges
 similar to this boiled rice, takes place in every
 change of position. The matters evacuated after
 the first emptying of bowels, have been occasionally
 observed to be of a greenish yellowish colour, a
 turbid and frothy appearance, like yeast; and
 sometimes bloody, but in a majority of cases
 the discharge is of a serous looking fluid, so thin
 and colourless as not to stain in the least, the
 patient's linen. Sometimes the serous looking fluid is
 so thickly incorporated with mucus as to present the

...from a state health than the country,
which immediately corrects the situation of business
can speak of as occurring independently of the latter
Dipping has very seldom been observed about
and when it has we may expect a marked
favor of the disease to show itself. This will
much greater in those cases where the cells to
stand on a very high and elevated. They
the situation of the water is not at all
shown, and when this takes place there is a
of the position of the water and of all other
reporting is regarded from the same cause
In advanced stages of the disease, the purging
sometimes stops, but in many cases, especially
similar to the yellow fever, takes place in many
change of position. The matter occurs after
the first emptying of bowels, have been occasionally
observed to be of a greenish yellow color, or
turbid and frothy appearance, like yeast; and
sometimes bloody, but in a majority of cases
the discharge is of a serous watery fluid, rather
and colored as that of urine in the last
patient's case. It contains the surrounding fluids
notably associated with mucus as to produce

appearance of milk. The quantity of the clear watery fluid, which is sometimes discharged, is very great, and were it uniformly so, it might afford an easy solution of the debility, thirst, thicknes of the blood, and other symptoms; but it is unquestionable, that the most fatal and rapid cases are not those that have been accompanied by excessive discharges. Death on the contrary, has ensued in innumerable instances, after one or two evacuations, without the developement of any other symptoms affecting the natural functions. And it has been said that even collapox has come on before any evacuation by stool had taken place. The undisturbed state of the mind is worthy of remark; instances have been mentioned where patients have pursued their usual avocations, even after the circulation has been so much impeded, that the pulse could not be distinguished at the wrist.

The voice also partakes in the general debility, for it is feeble and broken, and in general the patient evinces no disposition to converse. Spasm is not essential to this disease, for in many cases, and more particularly in the weakly and feeble, it is frequently absent; it appears more frequently among the inhabitants of Europe and America than those of India. In the low and most dangerous forms of this disease,

the few and most dangerous forms of this disease
tubercle and chancre than that of diphtheria. The
affection more frequently among the inhabitants of
the wealthy and fertile, the frequently absent, it
is seen, for in many cases, and more particularly in
diphtheria is common. It seems a not essential to this
fatal and broken, and in general the fatal terminus in
the more advanced in a general diphtheria for it is
that the fatal ends not be distinguished at the onset.
Even after the inoculation has been made, it is not
more fatal to most persons than usual, sometimes
leading to recovery; in some cases however
other cases. The mortality rate of the disease is
higher than in any other disease, especially in that
which has come in epidemic, especially in that
the natural functions, and it has been said that one
without the development of any other symptoms affecting
incommunicable diseases, after which the connection
of various diseases. There are the various diseases
which cases are not then that have been reported
symptoms; but it is important, that in that fatal and
of the ability, that, that of the fatal, and other
more is important, it might affect in any relation
kind, which is sometimes described, in any part, and
appearance of milk. The quantity of the clear, watery

in what country, it matters not, the spasm is generally absent, or if it is present, is very slight. The muscles most commonly affected are those of the toes and feet, likewise those of the calves of the legs, next to these, the corresponding muscles of the upper extremities, then those of the thighs and arms— and lastly those of the trunk. It is an incident worthy of notice, that while only the flexor muscles of the lower extremities are affected with spasm, those of the upper, affected are the extensors, the recti muscles of the abdomen are likewise affected, there is also a twitching in the fingers. The period at which a marked diminution of vascular action takes place is somewhat various— the pulse sometimes keeps up tolerably for several hours, though very rarely; it more generally, becomes small and accelerated at an early stage, and on the accession of vomiting or spasm, suddenly, ceases to be distinguishable in the extremities. The length of time a patient will live in a pulsileps state is wonderful; and there are instances on record, where they have recovered after being in the stage of collapse. Thirst and sense of heat, or burning in the region of the stomach, are generally, connected together, and form very, prominent and constant symptoms

group, prominent and constant symptoms
generally connected together, and found
hanging in the region of the stomach, are
the stages of cholera. Third and some of heat, or
inward, when they have passed off being in
a febrile state is wonderful, and then an intense
intermittent. The latter of time a patient will live in
- phases, which may seem to be distinguishable in the
at an early stage, and in the absence of vomiting
it may generally become small and accelerated
tendently for several hours, though very rapidly
is somewhat common - the pulse sometimes rises up
inwardly in the fingers. The pulse at which
most muscles of the abdomen are likewise affected, the
- those of the upper extremities are the most, the
like - muscles of the lower extremities are affected with
it is an insistent variety of cholera, that holds only the
of the thighs and arms - and finally that of the trunk
erecting muscles of the upper extremities, the
- those of the lower extremities, the
- those of the lower extremities are affected with

in this disease. The sense of thirst seems to subdue all other feelings, cold water is constantly called for and when brought is eagerly swallowed; not withstanding the unquenchable thirst, the mouth and fauces are in no want of moisture. The skin is generally cold and clammy; often covered by a profuse perspiration, but it is always cold; the skin is sometimes observed to be dry, though cold, sometimes of a natural heat, and it has been said, as I think erroneously, that in the first stages of cholera there was often a preternatural heat of skin. An increase of temperature has sometimes been observed to take place a few minutes before death, nature at this moment seems to rally, but only in time to feel her own weakness. Respiration in the first stage is not usually interrupted, and in many cases terminating fatally it has proceeded in its mechanical part with little or no difficulty, excepting, as a matter of consequence, it becomes slower. In the state of collapse the breath has a coldness attached to it which is very striking, this is said to be an universal symptom of this stage. The blood throughout the whole body, has been found on dissection, to be

in this case. The size of heart seems to reduce
 all other feelings, cold water is certainly called for
 not water brought is easily swallowed; but
 understanding the unpalatable that the
 mouth and fauces are in a want of moisture
 the skin is generally cold and clammy; often
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 in the state of collapse the breath has a cold
 attached that which is very striking, this is said to be
 an unusual symptom of this stage. The blood then
 about the whole body, having found its destination, the

of a dark colour and very tenacious, and this will not appear surprising, when we consider what large quantities of serum were passed off by stool; and also no difference of character or colour of the blood was found in the right or left side of the heart. In consequence of the rapidity with which this disease runs its course, it is difficult to treat. the immediate attendance of the physician is necessary or it will prove fatal. If he is called in time, he frequently finds the patient vomiting and purging, and when he perceives that there is not the least trace of bile in the matters thrown off, suspects a congestion of the Liver, he immediately proceeds to bleed the patient, after that, gives large doses of calomel to act upon the Liver, or he combines opium with the calomel to allay irritation. If there are cramps attended by pain in the abdominal muscles, he places a sinapism over the region of the stomach; if the extremities are cold he also orders sinapisms to be placed on them, he also resorts to friction with some stimulating liniment. If the patient becomes weak, he uses stimulents. I will now give the practice of many authors who have described this disease. In Europe and America

of a dark color and very tenacious, and this will not
appear purplish, unless in considerable quantities
quantities of serum were poured off by stool; and also
a difference of character or color of the blood may be found
in the right or left side of the heart. In consequence of the
rapidity with which this disease runs its course,
it is difficult to treat, the immediate attention
of the physician is necessary or it will prove fatal.
If he is called in time, he frequently finds the patient
swooning and fainting, and when he perceives that
there is not the least trace of bile in the motions
thrown off, he must be a conqueror of the tumor. He
immediately proceeds to bleed the patient, after
that, gives large doses of calomel to act upon the
liver, or he combines opium with the calomel to
allay irritation. If there are no other attendants
by pain in the abdominal muscles, he places a
compression over the region of the stomach, if
the extremities are cold he also compresses them
to be placed on them he also resorts to friction
with some stimulating liniment. If the patient
becomes weak, he uses stimulents. Such a case
gives the practice of many authors who have
described this disease. In Europe and America

the premonitory symptoms are diarrhoea or some intestinal disturbance, marked by flatulency, - sudden calls to stool, and the matters dejected chiefly consist of a serous looking fluid mixed with mucous. Some authors have extolled blood letting, others never employ it. Dry frictions have been recommended, the object of these is to cause a determination of blood to the skin, and restore the equilibrium to the circulation. Liniments have been employed with some success, but their usefulness depends on the quantity of friction that has been used. If the Liniments fail rubefacients are the next in order, aided by stimulents.

Embrocations with ardent spirits are evidently injurious, for by evaporating, they increase the coldness of the skin. Blisters have been used. Vesication by cantharides is entirely too slow, to have recourse to in such a disease as Cholera. Among the other means, hot water and nitric acid have been enumerated; the moxa & vapour bath have also been used.

The hot bath is said to be excellent in the state of collapse, but some consider it too enfeebling in consequence of the sweat that follows its use. Opium. No medicine has been used that has had so great a mass of testimony in its favour

The phenomenon of a sudden increase in
infectious diseases, marked by fatality,
and the sudden appearance of a
feverish state, may be traced to the
fact that the blood is being
purified, and the system is
restoring its equilibrium to the
normal state. It is a process
of self-purification, and it is
a process which is necessary
for the preservation of health.
It is a process which is
often accompanied by a
feverish state, and it is
a process which is
often accompanied by a
feverish state.

Nearly all practitioners, notwithstanding the difference in opinion concerning the pathology of Cholera, have used it in some form, in some one of its stages.

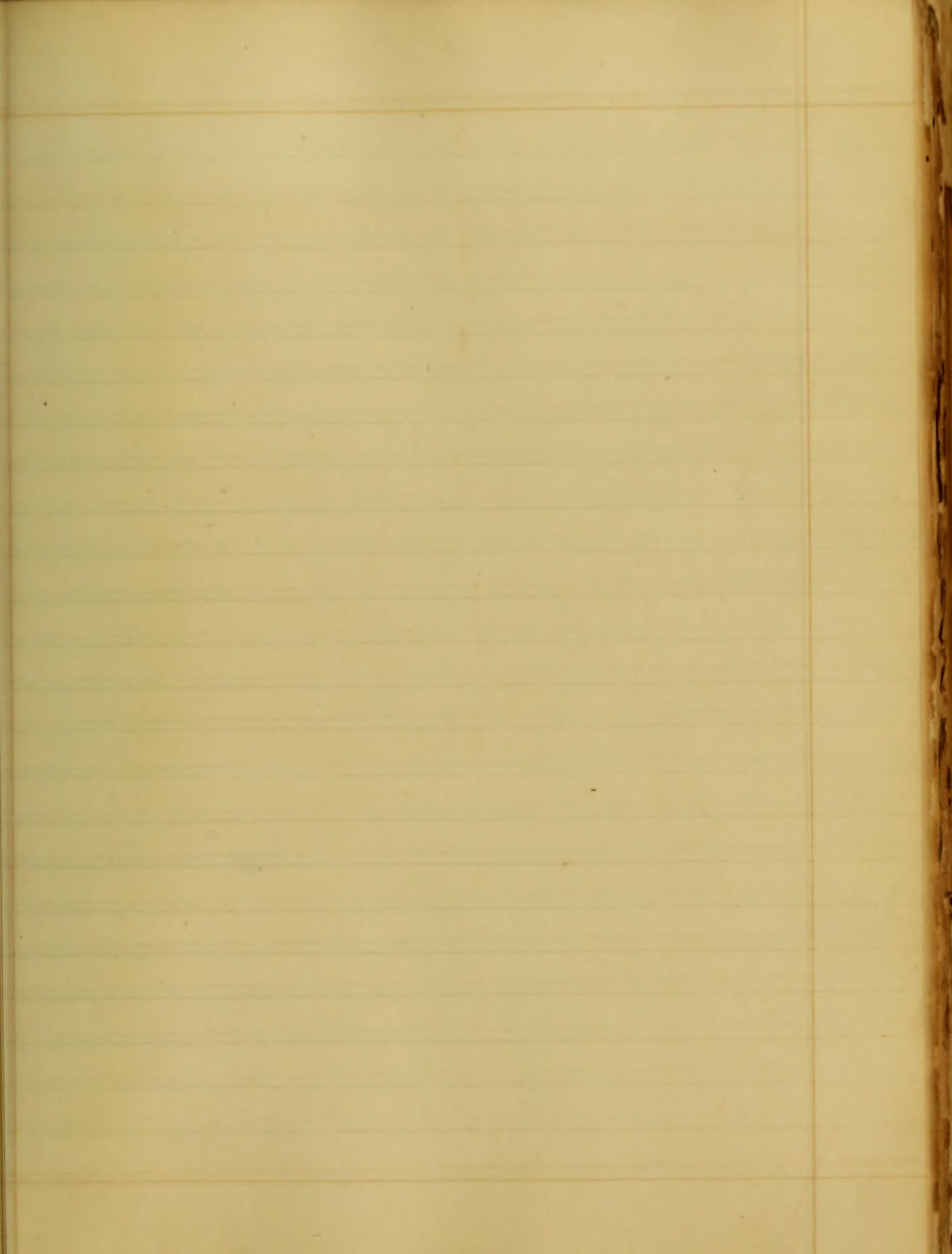
Calomel has, and always will be considered our greatest remedy in this disease. It relieves by its stimulating properties the congestion of the liver, if it is used with this intention it should be given in large doses, it can also be used in smaller doses as an alterative. When we can by its use produce bilious discharges, we have nothing of consequence to fear but the consecutive fever.

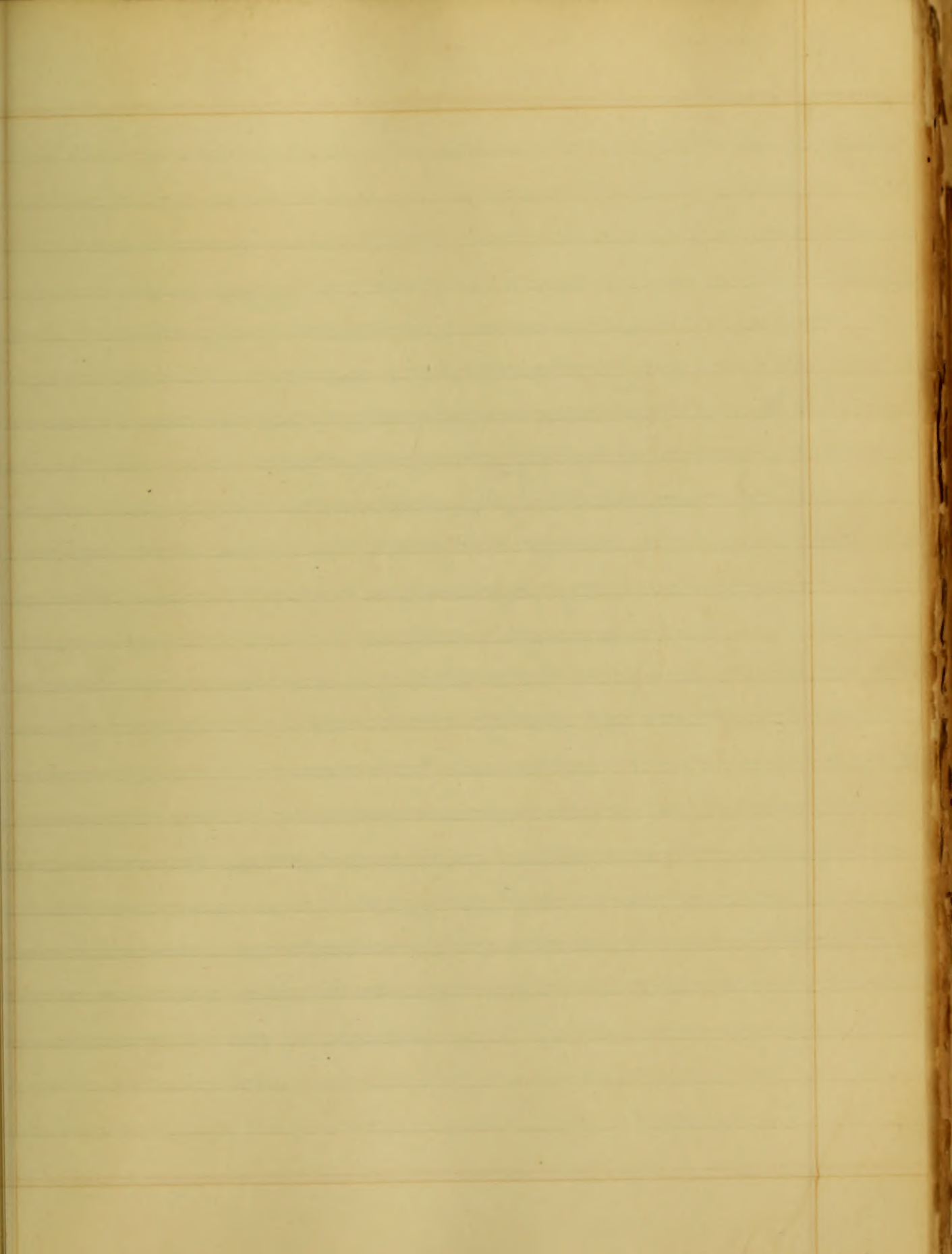
Opium to allay pain has been combined with it, and in most cases with success. But its efficacy has been denied by the Russian physicians, for they thought it to do more harm than good, and therefore abandoned it. In Dinaburgh no calomel was administered, and of 745 cases many of which were in the last stage when first seen by the physician, only 75 terminated fatally. By many physicians, emetics were used with success, but Dr Lefevre says he did not meet with any success when he used them. The whole class of emetics have been used by various practitioners, Purgatives have been used by every person, in this disease, Astringents have been

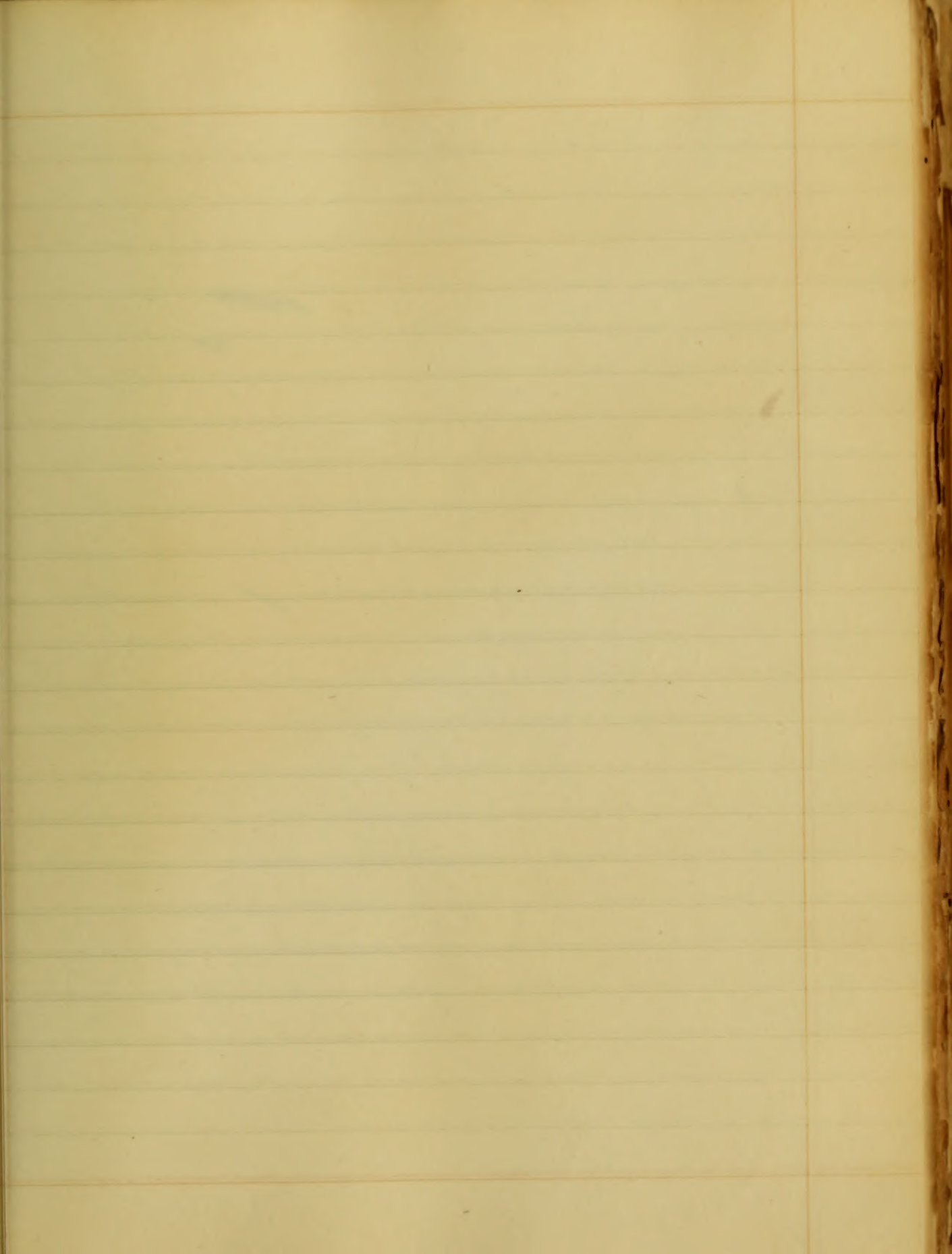
of early all practitioners, notwithstanding the
in opinion concerning the pathology of cholera,
have used it in some form in some of its stages.
It should be our always will be considered as great
of remedy in this disease. It is valued by its
stimulating properties the cooperation of the liver
if it is used with this intention it should be given
in large doses, it can also be used in smaller
doses as an alternative. When we can do so we
produce better effects, we have nothing of
consequence to fear but the counter-indication.
Opium to allay pain has been combined with it,
and in most cases with success. But its efficacy
has been denied by the Russian physicians, for they
thought it to do more harm than good, and that
was abandoned it. Dr. Bismarck's treatment was
administered, and of the cases many of which were
the last stage when first seen by physicians, only 10
terminated fatally. By many physicians, however,
there was with success but Dr. Lefevre says he did
not meet with any success when he used them. The
salubrious effects of emetics have been tried by various
practitioners. Emetics have been used by
every person in this disease. Cathartics have been

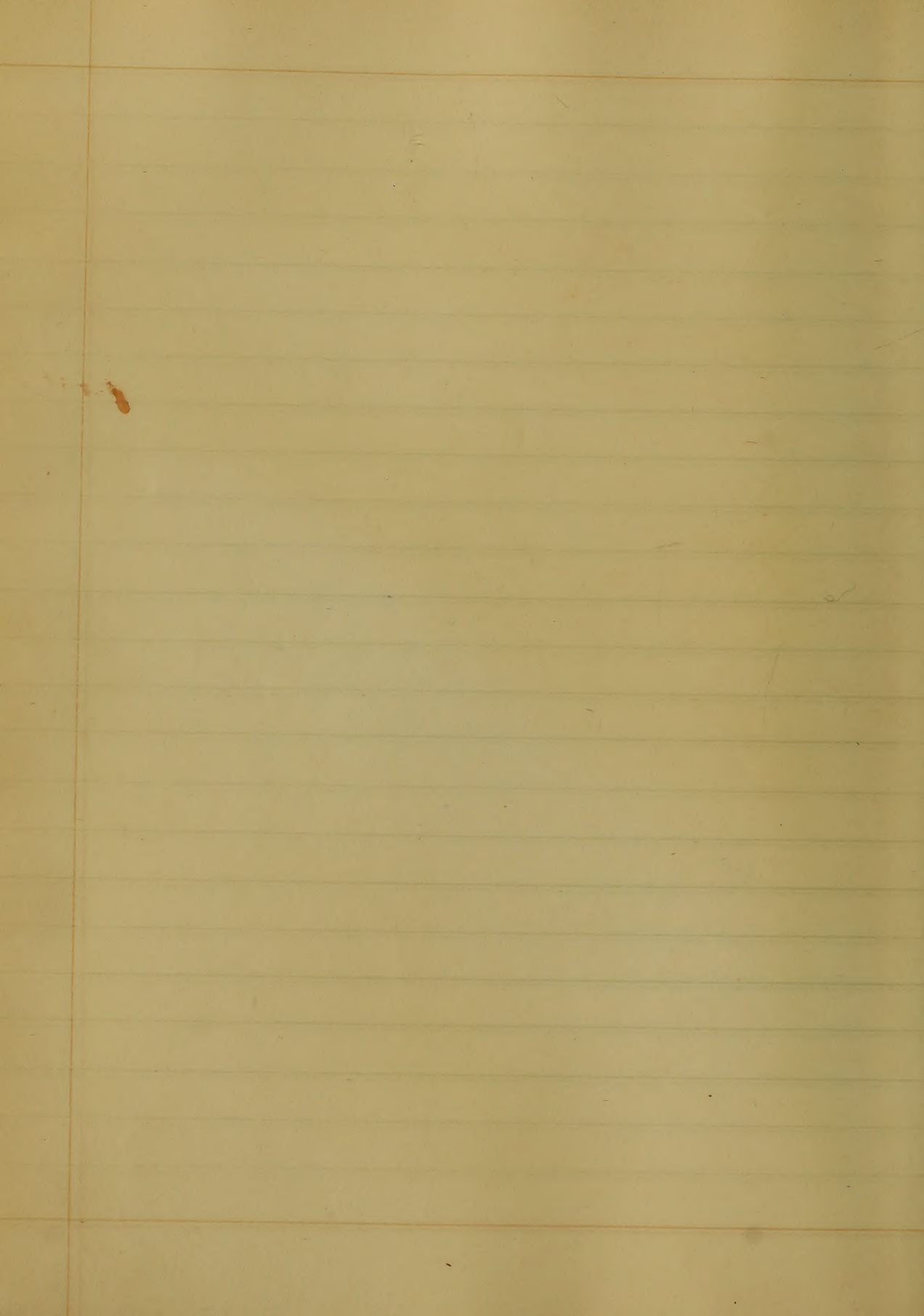
used by some practitioners as they say with entire success, but the effect they attributed to their employment was due to the other medicine they ordered at the same time. The acetate of lead is the most celebrated of this class of medicines. Enemata have been used when the stomach was in so irritable a condition as not to retain any thing in it.

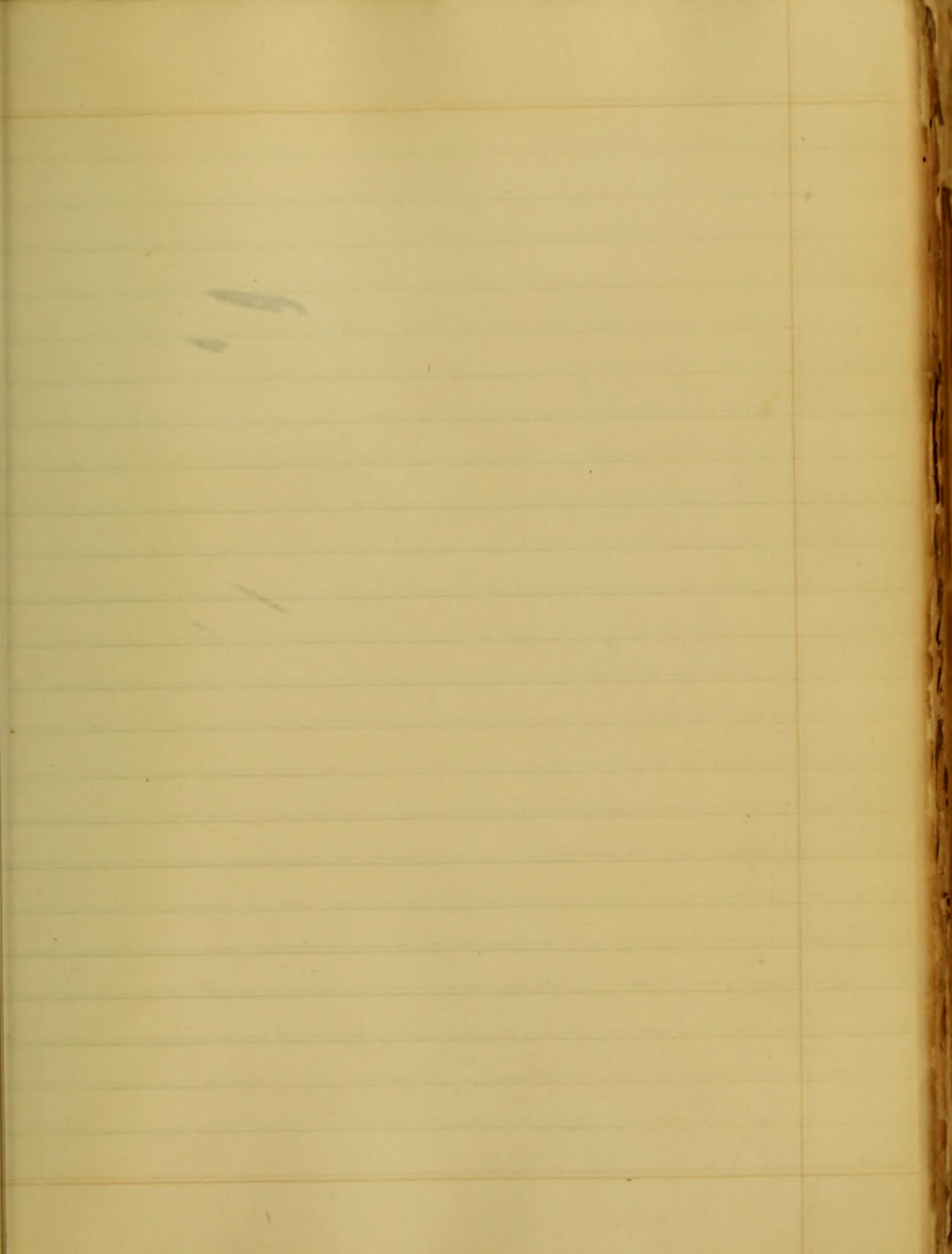
Hot water when injected, ~~pranum~~, has been recommended in the state of collapse; enemata of tobacco ~~has~~ been highly spoken of by some. In fact the whole materia medica has been recommended. If the patient escapes the state of collapse he has a consecutive fever which must be treated according to the state of the system.

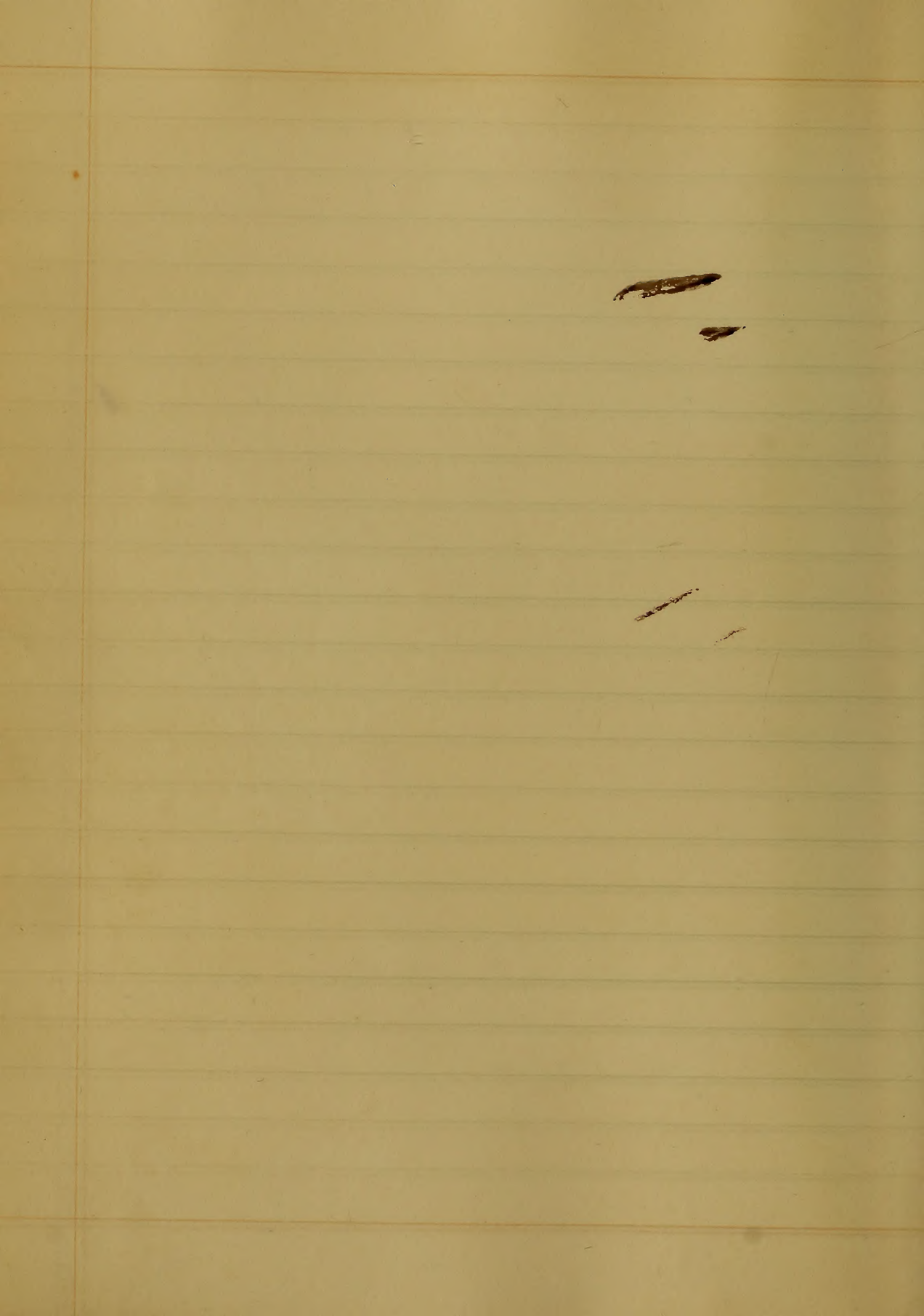


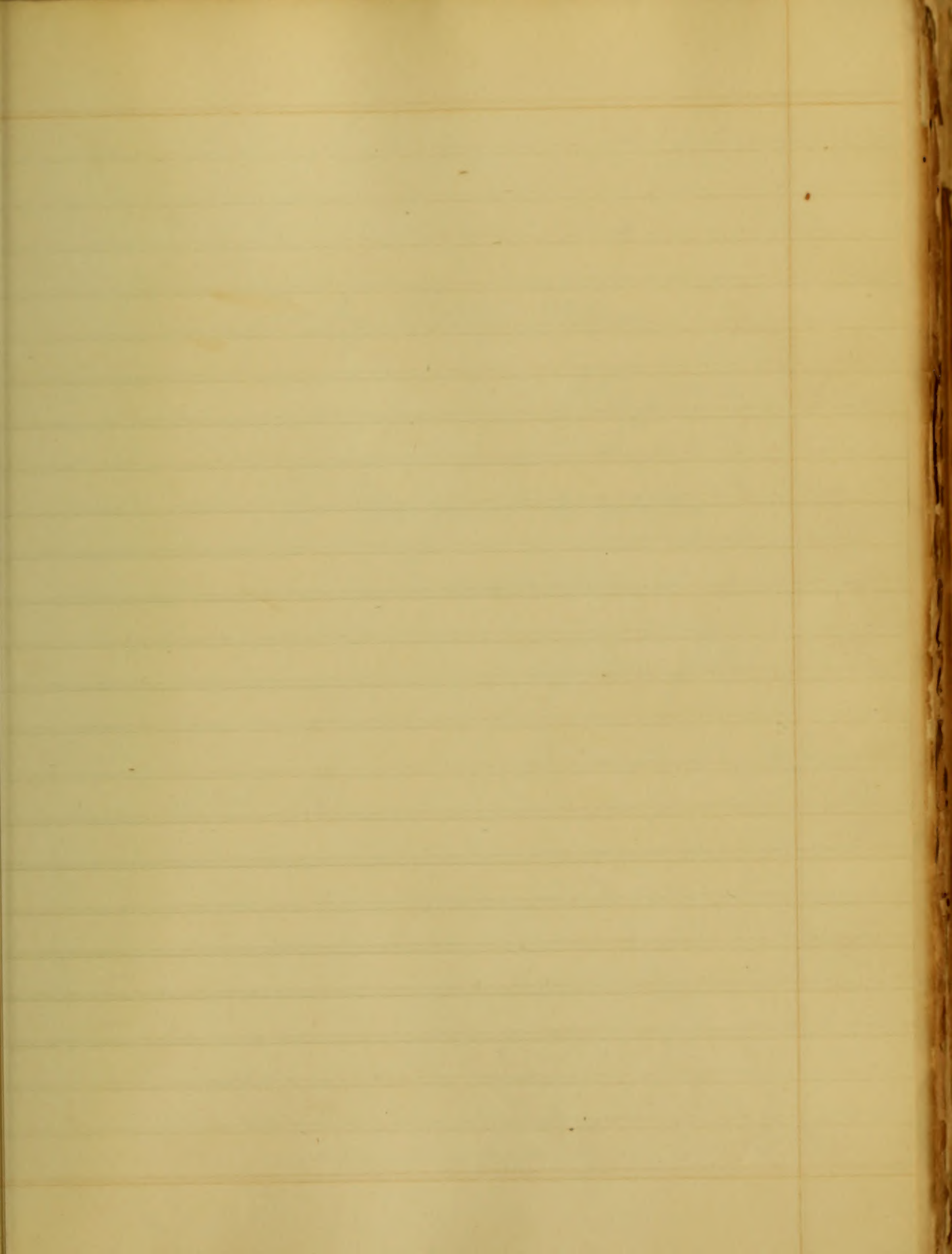


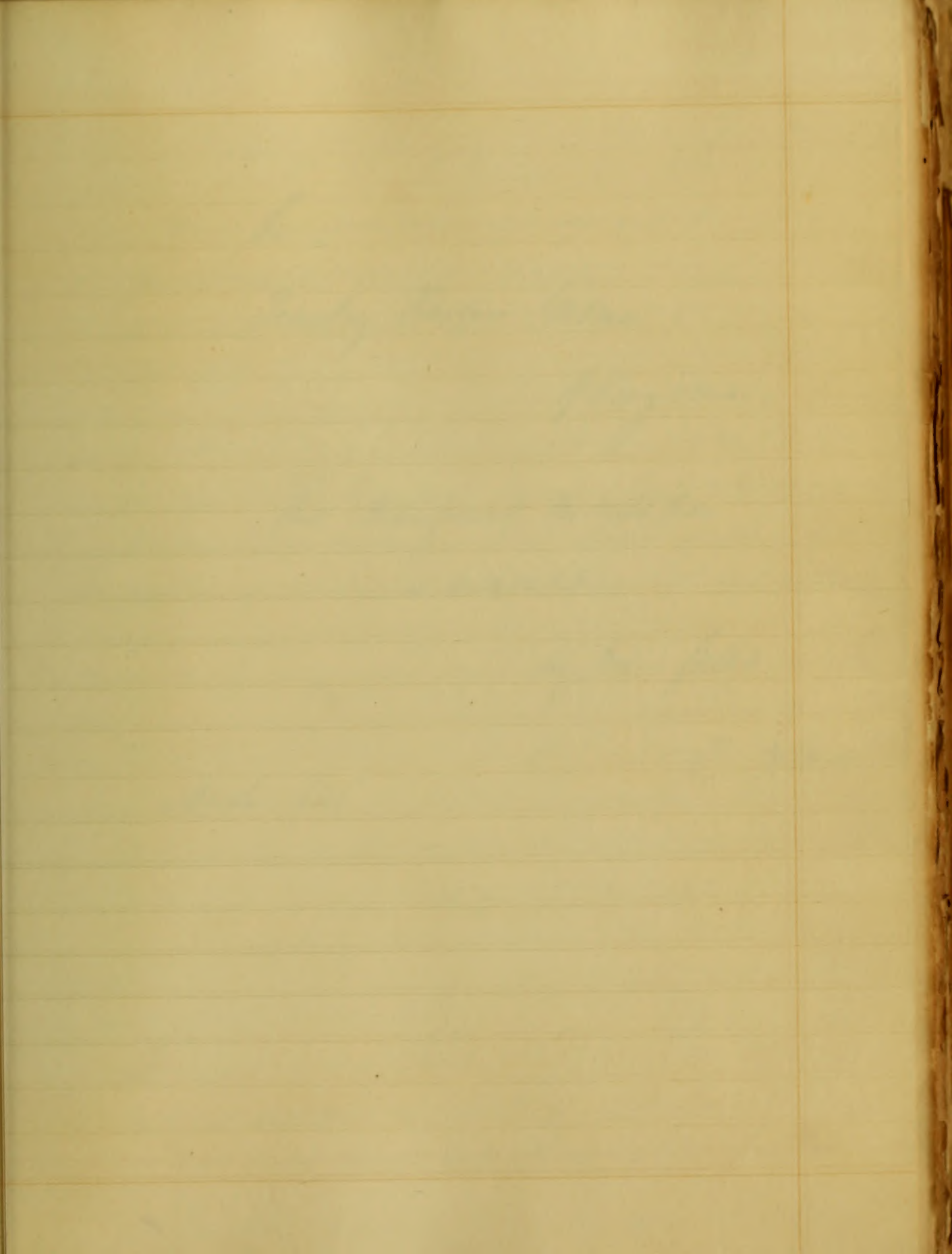












To

Respectful Son

of Virginia.

This Inaugural Dissertation
is dedicated,

by his friend

March 1835

C. Mason

To

Becky Harmer Gilmer

Virginia,

This Inaugural Dissertation
is dedicated,

by his friend,

C. Minor

March. 1835

To
My dear Mother
Hingham

The enclosed contains
a receipt

of the
same

C. W. W.

March 1857

1

The practice of medicine has been involved in numerous difficulties, and not a little obscurity from its earliest existence. Superstition, Credulity, scepticism, and Ignorance, the parent & the offspring of them all, have exerted their unperceptible influence upon the Science, & the Art which is founded upon it, until the veil which has hung around them presents an obstacle almost insurmountable to the light of Philosophy. Instead of our being able to reduce the relations of Cause & Effect to fixed & uniform laws in medicine as in other Sciences, deducing thence a Cause when we know the Effect, or an Effect from a Cause, it is still necessary to resort to Empiricism, enveloping all things in mystery rather than disclose the blindness in which we grope. We are obliged yet to prefer darkness to light!

Yet it is not alone in medical Enquiry that we are thus unenlightened & restricted. The Science of the Mind is as obscure as that of Medicine. Indeed there is a strong similarity between them. They ~~are~~ relate, the ^{one} to the subtle principle which constitutes our Vitality - the

The power of the mind is not
limited to the physical world.
It is a vast, unexplored
territory, and it is our duty
to explore it. We must not
be content with the narrow
limits of the material world,
but we must seek for the
higher, the spiritual, the
eternal. We must not be
convinced by the materialists
that the mind is a mere
product of the brain, but
we must believe that the
mind is a power in itself,
capable of creating its own
world, and of transcending
the limitations of the physical
universe. We must believe
that the mind is a power
that can create, that can
destroy, that can transform,
that can conquer. We must
believe that the mind is a
power that is greater than
all other powers, and that
it is the power that makes
the world what it is.

Other to that which makes us know. The relations of the External world to each, are discoverable — tho' the task is a difficult one. We may with a little satisfaction trace that connexion to the Corporeal Causes, but when we come to enquire into its Nature or Cause, we can avoid ourselves of Conjectures alone and that Conjecture is as dark as it is unworthy of true philosophical research.

I cannot leave reflecting so little flattering to the progress of medicine, and its collateral branches without rendering some reputation by referring briefly to what has been done. That much yet remains undone is not to be questioned, nor is it an imputation applicable to this alone but to every science. Each one has passed thro' its deprecas. The Charge of Empiricism to which I have alluded and which, I will admit, must be to some extent entirely just, is only like the Charge of occasional fallacy to which every system is liable. The difficulty of inferring effects from the Existence of appropriate means in medical art, is great because we are then called upon to decide on the relations of inanimati matter to that vitality whose

ways, like those of the artist of all things, are
just finding out. We cannot in every case discern
the connexion, and when we do, there is no certainty
of the observed tendencies of things remaining fixed
and uniform - Hence is the source of that extra-
sation to which our Reason has been subjected,
and in the absence of logical or scientific reason-
ing - instead of ~~the~~ legitimate deductions from
established premises, we have to cut short the
process; - departing with the preliminary instruments
of philosophical investigation, analogy observa-
tion, to pass at once to the experiment; - the ex-
periment again being in most cases in as
much obscurity as was the principle which
it was intended to illustrate.

In short, I allude to the marked distinction
which must exist between what are denominated
the exact & those which are called the ^{abstract or} ~~the~~ ^{we certain}
sciences. Among the former ranks ~~the physical~~ ^{that department} ~~of~~
~~learning~~ which relates to the phenomena of
inanimati matter - physical science. Under the
latter head are classed political Economy, the
Science of the mind & of medicine &c.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. A small red circular mark is visible near the top center.]

From the nature of the objects which thus become
matter of Medical Enquiry, arises the uncertainty of the
Art - An uncertainty, great indeed, but still so much
less than existed in years past that we dare not
set a limit to the advancement it shall yet make.

Among the ^{permissions of} practice to which a want of
enlightened & philosophical research has led, that
of bloodletting is as remarkable as any. The errors
which have crept in with regard to this feature
of cure are not less dangerous than they are
unfounded in truth. It is thought that many a
preternatural grave is reached by the injudicious
administration of this remedy - Nor is it im-
probable. The indications of venesection are various &
of great number, and are generally derived from the
pulse, yet not without important modifications
according to preexisting or subsequent circumstances.
Doctor Rush has said that a full & frequent dry
pulse requires bleeding; in like manner a tense pulse,
a jerking; a quick & tense; a slow & tense; an uncommon
ly frequent pulse; a left pulse without much frequency,
a fulsness; an intermitting pulse, a depressed pulse, an
im-perceptible pulse, ^{indicate} ~~seem~~ for increased action in the brain.

The object of the present paper is to
state the results of the experiments
conducted by the author in the
laboratory of the University of
Cambridge, during the year 1871.
The experiments were conducted
with a view to determining the
effect of the various factors
which enter into the process of
the formation of the various
species of the genus *Aspergillus*.
The results of the experiments
show that the various factors
mentioned above, all have a
marked influence on the
development of the various
species of the genus *Aspergillus*.
The most important of these
factors are the temperature,
the humidity, and the amount
of light. The temperature
has the greatest influence,
and the humidity and light
have a secondary influence.
The results of the experiments
show that the various species
of the genus *Aspergillus* are
all adapted to the same
environment, and that they
all have the same mode of
reproduction. The results
also show that the various
species of the genus *Aspergillus*
are all adapted to the same
mode of life, and that they
all have the same mode of
reproduction. The results
also show that the various
species of the genus *Aspergillus*
are all adapted to the same
mode of life, and that they
all have the same mode of
reproduction.

It will appear at once that this list embraces varieties of pulse which are undoubtedly directly opposed to each other. There is first the full, frequent & vigorous pulse: then the small, slow, weak are indications, of apparently the same amount, of precisely the same treatment. The quick & slow, & the slow & tense equally require bleeding, but in this case it is determined by the tenseness: that containing, bleeding is demanded, it seems, whether slowness or quickness accompany it. Also the slow & tense, and the slow & soft appear to be indications of bleeding, the tenseness here being no longer the criterion, but the slowness seems to decide. Lastly, tho' a full, frequent & vigorous pulse do demand a depletion of blood, it is no less required by an intermitting pulse, a depressed pulse, nay, an imperceptible pulse.

Now, to a mind not extremely refined, or extremely credulous, these things must seem at first view quite odd. It is indeed little less than telling us that we must bleed if there is a quick or slow, frequent or the opposite, full or viscid, small, vigorous or weak, or if there is any pulse at all, and if there is no pulse, then bleed at all events.

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With such instructions as these, how shall a student decide, or can he go amiss? He can decide, and if he do not distinguish most nicely, he may err greatly to the prejudice of his patient & his art. Yet how difficult must be the decision between so many sources of error.

It is said that congestion of blood usually requires that the organ in which it has taken place should be relieved by bleeding, and this congestion may be indicated by a certain character of pulse. But the congestion ~~may proceed~~, it is said again, may depend upon several causes, and those directly opposed to each other. Shall we still bleed? It is manifest that we cannot. If a state of venous debility exist, that may give rise to congestion in any organ, while the arteries may be in health. If the arteries be over excited, the veins remaining in healthy discharge of their function, congestion may again ensue. How shall we decide between the two conditions? By no means, probably, except a reference to the circumstances of the case, and then it is not a little obscure. — The utility of the remedy must be judged of, finally, by rigid observance of the circumstan-

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- can not which can divert the approaches of
the "monster", and securing him into a game of
"hide & seek", can hold him off until some nature
spite on her hands & renews hold upon her sinking
existence.

Lamprologal Disposition

on

the

submitted to the consideration

of

The Board of Trustees and Medical Faculty

of the University of Maryland

for the purpose of

by

Charles C. ...

...

...

In the year of our Lord 1885.

An
Inaugural Dissertation
on
Tubercula

Submitted to the examination
of

The Provost, Trustees and Medical faculty
of the University of Maryland
for the degree of M.D.

by

Charles H. Steele.
Annapolis
Maryland

In the year of our Lord 1835.

To

Dr John. Ridgely & Dr John Kidout
of Annapolis this Thesis is respectfully
dedicated by their pupil

The Author

adopt prompt measures to bring about reaction, by
breaking up the internal congestions. Unless we can succeed
in doing this, the eruption cannot come out, and our
patient will die in a state of stupor. The remedies
we must place our reliance on, are stimulating frictions
applied to the external surface; such as tincture of
capsicum, cloves steeped in hot brandy, salt made
as hot as the patient can bear it, or hot bricks or bottles
of hot water to the feet; and we must also use sinapi-
=sm, and blisters, applied to different parts of the body.

To avert the external applications, we should have recourse
to some of the stimulating diaphoretics; viz serpentaria,
sulfatorium &c. In this form of the disease, camphor, in
union with large doses of calomel, will be found of
service, and the carbonate of ammonia is also a val-
=uable remedy. Moderate bleeding has been recommen-
=ded by Dr Armstrong, he tells us however to be cautious
in its use. Though there are some cases, no doubt
requiring bleeding; and in which if judiciously em-
=ployed, it will be serviceable; yet in the majority
of cases, as it is a doubtful remedy, and we have others,
which will perhaps answer our purposes as well, I thi-
=nk it will be found the best course, generally to

Rubella

dispense with it. Where retrocession of the eruption takes place, the treatment is nearly the same, as that just described, except when it seizes upon some internal organ, and produces inflammation of that organ: here our course of treatment is entirely different; we must employ the antiphlogistic course of treatment already given. When the eruption recedes from violent sneezes, or diarrhoea, opium and camphor combined will be useful in checking it.

I shall conclude what I have to say on this subject, with a few remarks in relation to the treatment, during convalescence. The diet of the patient should be mild and unstimulating, and all exciting drinks be avoided. The patient should not be permitted to leave his room too soon, and after leaving it, should be careful not to expose himself to the influence of cold and damp weather. If the cough continues to be troublesome, the vinegar of squills with vin. antim. or tinc. opii, camp. added to it, will be found a useful remedy.

The system particularly susceptible to the influence of cold, and the one that is most liable to be affected by it, is the nervous system.

Rubella-

Rubella is an eruptive disease, occurring generally as an epidemic, in the winter and spring, and gradually disappearing as the summer comes on. Like small-pox, it seldom attacks the same individual twice; and it is thought by some, that a second attack of this disease occurs less frequently, than of small-pox. The contagious character of rubella, was long a disputed point; but experiments made by Home and many other persons, by inoculation, prove I think beyond a doubt, that it is contagious. A great many facts might be adduced, in support of this opinion, did not the general admission of its contagiousness, render such a course unnecessary, at the present day.

Rubella like other epidemics, is subject to various modifications. The weather has a decided influence over it, rendering it much milder in the warm, than in the cold seasons of the year. The constitution of the individual affected, has great influence in modifying its character. Its tendency to local inflammations is always very great, and particularly during the periods of disquamation and convalescence. It also leaves the system peculiarly susceptible to the influence of cold, and it is, from this circumstance, that we have

2.

so many diseases occurring during convalescence; diseases, which generally speaking, are more to be dreaded than Rubella itself—

In February last the measles appeared in this city (Annapolis) and prevailed as an epidemic for several months. In some respects it differed materially from the same disease as it had formerly appeared. The symptoms were generally more severe, and a larger proportion of the cases terminated fatally, than on any former occasion of its prevalence, within the recollection of the oldest physicians. The tendency to severe thoracic inflammation prevailed in a large number of the cases, and in several instances such cases terminated in Phthisis Pulmonalis. In children an unusual number of cases occurred, attended with convulsions, coma &c. In three cases which terminated fatally, Laryngitis supervened, on the retrocession of the eruption. The first case, which occurred in Town, was one of this description. The patient, who was a healthy female, aged 17, had been to Baltimore, where she contracted the disease, which appeared a few days after her return to Annapolis. The disease was ushered in with symptoms of uncommon severity,

afterwards on the body and extremities. These red spots though at first distinct, soon increase in number and size, and run into each other, forming patches of various sizes and figures. The eruption is more prominent on the face, than on the trunk and extremities; though in all places where there is redness, the inequality of the cuticle may be perceived. The eruption on the face increases for about two days, and on the third day it begins to grow dry, and assumes a brownish colour. When the redness has almost left the face, it is at its height on the extremities, where a day or two later, it runs the same course. About the ninth day, the eruption assumes a pale yellowish appearance, and desquamation commences on the face, which is completed over the whole body by the tenth or eleventh day. The fever, cough, and difficulty of breathing, instead of being removed by the eruption coming out, are rather increased; but the vomiting if there has been any present, generally ceases. When however, the eruption begins to fade, an evident amendment in all the symptoms usually takes place; though occasionally the

at one usual, takes place, though occasionally the
to force, an evident amendment in all the steps
early cases. When however, the eruption begins
but the mounting if there has been any present, is
usually the eruption coming out, or rather increasing
and difficulty of breathing, instead of being
by the truth or element of the fever, cough,
face, which is complicated over the whole body
fever, which is complicated over the whole body
appearance, and disposition, continues on the
day, the eruption appears a pale pinkish
later, it is the same colour. About the middle
at its height on the eruption, when a day or two
then the respiration almost left the face, it is
to give any appearance or brownish colour
about two days, and on the third day it begins
renewed. The eruption on the face, however, for
it is chiefly, the insensibility of the whole body, for
and especially, though in all cases, before the
these phenomena on the face, than on the trunk
part of an individual, and finally, the eruption
in one side, and even into each other, forming
spots, though at first distant, soon increase in number
appearance on the body and eruption. Thus are

fever, cough, and difficulty of breathing continue

Frequently about this time (subsidence of the eruption) diarrhoea occurs, which if not too violent, will be of service, and ought not to be checked.

Diagnosis - Scarlatina is the disease, which is most liable to be confounded with measles. In all ages even to the present day, this has been the case. Though the distinguishing between the two diseases is attended with some difficulty, to an inexperienced, and in some cases, even to an experienced physician, yet there are some of the symptoms, which if properly attended to, will enable us to form a pretty accurate diagnosis. First we have the catarrhal symptoms, to direct us, viz. the dry and hard cough, inflamed and watery eyes, sneezing &c, which are so generally present in measles, and are either altogether absent, or extremely slight in scarlatina.

Secondly, the eruption of the two diseases are different; in measles the small red spots, resembling flea-bites, are of a darker red, and are spread out over the body, in irregular patches, with the intermediate skin retaining its natural colour, while on the contrary, in scarlatina, the eruption is more

At the usual period the eruption made its appearance, and after continuing, about 36 hours, suddenly receded. About this time, or soon after, the symptoms of Laryngitis appeared, which disease ran its course, and terminated the life of the patient in a few days. A second case very similar to the above, occurred in a female aged about 35, of dissolute habits, and in a state of pregnancy. In this case symptoms of Laryngitis appeared earlier, than in the one just mentioned being nearly simultaneous with the eruption, which was slight. It terminated fatally, in a much shorter period than the first case. The third case of this description, which had a fatal issue, was likewise a young, healthy female. She had passed through the disease, to the period of disquamation, without medical assistance, nor were the services of a physician required, until Laryngitis was fully formed. This case yielded in a few days to active treatment, but bronchitis supervening she died about the 10th day. Minutes of these cases not having been preserved, it is impracticable to give a detailed account of the treatment. Blood letting, carried as far as was considered safe, emetics, calomel, blisters, &c were

vigorously employed, but except in the ^{last} case, without producing any decided impression on the disease.

Symptoms- Rubella like other febrile diseases, is ushered in by alternate fits of heat and cold, sickness, and loss of appetite - On the second day, usually, but sometimes not until the third, these symptoms terminate in a well-formed fever - the tongue is generally white and moist - there is a cough, and sneezing with a watery discharge from the nose - the eyes are also inflamed and watery, (the tears falling over the cheeks) and very sensible to light, and the patient complaining of head ache. On the third day, and sometimes earlier, nausea and vomiting occur, and slight delirium often comes on in the evening of this day, when the fever is considerable. Frequently, and particularly in children, a few hours previous to the eruption more or less coma comes on, when the disease is violent. When the disease is of its ordinary character, the pulse is generally quick, hard and frequent, and the skin dry and hot. About the fourth day, small red spots resembling flea bites appear, first on the face, next upon the neck and breast, and

diffused, and uniform, consisting of an infinite number of very minute red points, united together, resembling in colour the recureps of a boiled lobster's shell - The two diseases likewise differ from each other, as regards the time of the appearance of the eruption in each, after the fever commences -

In measles it comes out on the third or fourth day, from the beginning of the fever, while in scarlatina, it makes its appearance usually on the second, and frequently on the first -

Prognosis - is generally favorable, when the disease is unattended with any internal inflammation or congestions, and runs its regular course, without the eruption receding - It is unfavorable, in proportion as internal congestions and inflammation are present, either of the lungs, brain, stomach, or trachea &c - The retrocession of the eruption is also unfavorable, whether it be from cold, or too violent catharsis, or emesis, or any other cause capable of producing it - In persons disposed to phthisis, it is always to be feared -

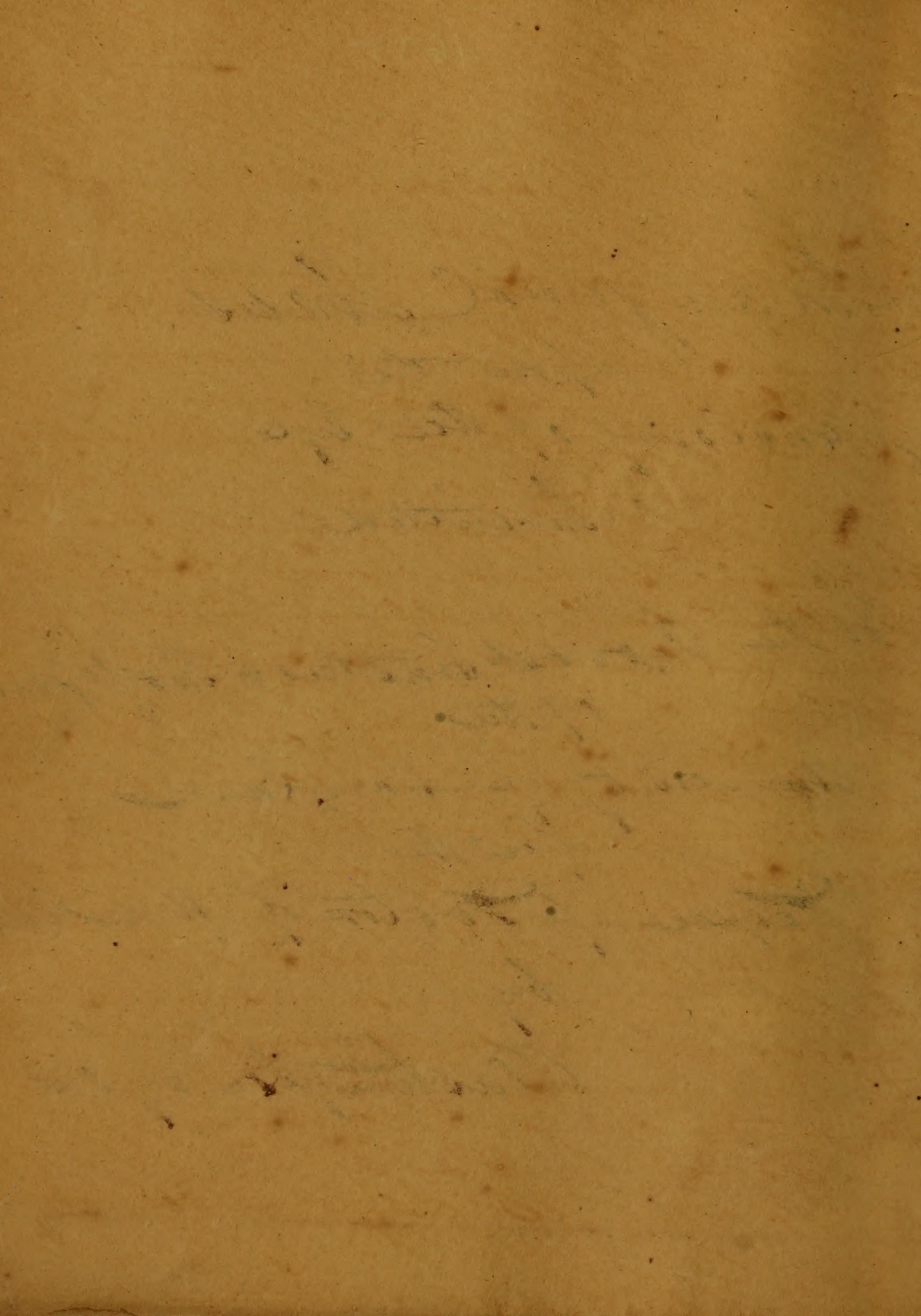
Treatment - In the mild and regular form of measles unattended with local inflammation or

congestion, our treatment should be mild. all that is required in these cases, is to advise the patient to keep his bed, and drink some tepid diluent, such as barley water set, and keep his bowels open, by some of the mild laxatives or purgatives, such as magnesia, sulph. mag., or oil - and sometimes a small dose of calomel will be proper, particularly where there is vomiting. If the vomiting should be troublesome, the saline effervescent draught will be found useful in allaying it. But when the fever is of a higher grade, it will be necessary to employ some remedies better calculated for its reduction, and those best accepted to this purpose, are the refrigerant diaphoretics - the common nitrous powder, the effervescent draught, and for children, antimonial wine with sweet spirit nitric, will answer very well. Calomel will generally be required in this grade of the disease, and the best plan, is to give three or four grs in union with the nitrous powder. There are many diaphoretic mixtures also which will be found useful, the following are recommended by Dr. Eberly, and will be found very

1835

Inaugural Thesis
upon the
Anatomy of the Eye
Submitted

To the Provost, Trustees & Professors
of the
University of Maryland
for the
Degree of Doctor of Medicine
by
Washington Lyon



The eyes constitute the organ of vision: they are situated in the cavities of the orbits, and surrounded by several parts to protect them injury, and assist in the performance of their various functions.

The Globe of the eye, termed simply the eye, is formed by several superimposed membranes, and the humours contained by them —

The coats which form the globe are, the Sclerotic, the cornea, Choroid & Retina, the additional coats, the Albuginea and Conjunctiva. — The humours are the aqueous, vitreous, and Crystalline —

The Sclerotic coat, is the largest and strongest coat of the eye, covering the whole all, excepting the parts occupied by the entrance of the optic nerve behind, and by the cornea before. It is so firmly fixed to the edge of the cornea, that it has been described by some authors as a continuation of the same substance, but it differs from the cornea, being of a white colour, and formed of fibres closely connected and interwoven with each other, and not divisible into layers —

The Cornea, which forms

2.
The anterior pellucid covering of the eye, is
next coat. It is composed of several strata
laminae closely united by cellular substance,
more compact than the rest of the ball, and
joined to the Sclerotic, like the segment of
small sphere to that of a large one. This
substance varies in different individuals,
as to form a long or short, protracted eye,
according as the Cornea is, more or less promi-
nent. In a recent subject, it is hard dense
and transparent: when macerated in water,
it swells, becomes soft & opaque, and may
be separated into different lamellae, the
anterior of which is the continuation of the
tunica conjunctiva. If it be macerated
all it begins to become putrid, it separates
from the Sclerotic being joined only by
cellular substance.

The next coat of the globe of the eye is
the Choroid, which is of a blackish colour,
and adheres by means of a great number
of small vessels to the Sclerotic, from the
insertion of the optic nerve all the way to
the Cornea, where it leaves the circumference
of the globe, & turns inward to form a
number of little processes, termed Ciliary,
situated at the edge of the Crystalline lens.
At a very small distance from the Cornea,
the Choroid is closely united to the Sclerotic

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3.
means of a whitish ring called ciliary
ligament or circle. The choroid adheres so
closely to the sclerotic, that if we blow thro'
small hole made therein without touching
the choroid, the air will penetrate every
-where between the two coats, but cannot destroy
this adhesion or pass to the cornea.

Many veins are observed on the choroid
coat, running in various directions, making
in quest anastomoses, termed vasa vortice
sa. The ciliary nerves may be seen passing
between the choroid & sclerotic coats. They
are sent off from the lenticular ganglion
and pass to be distributed upon the
iris, ciliary ligament, and processes. Upon the
inner side of the choroid coat there is a
mass of a blackish brown, termed pigmen-
tum nigrum, supposed to be secreted
by the vessels of this coat and is blackest
thickest at the fore part of the eye, where it
adheres so firmly as to be removed with
difficulty; but behind it is thinner, more
fluid, & more easily removed; becoming
gradually less evident towards the optic nerve,
round which it almost disappears.

The choroid coat with its dark pigment, serves
to intercept the rays of light which pass thro'
the retina, thereby allowing a distinct image
to be formed upon the retina upon the bottom

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the eye, and preventing the rays from being reflected, so as to form a second image. In most animals in which this coat or its part of a brighter colour, it acts as a mirror to reflect light, and make the impression stronger.

The Iris so named from its being in some sort of different colour, is the only coat of the eye which proper motion. Opinions vary in regard to the manner in which, the iris & Choroid are united; some assert that the iris is a prolongation of the choroid: others think it should be regarded as a distinct membrane. McNeil adopts the latter opinion for the following reasons

- 1st The greater thickness of the iris
- 2^d Its narrower nerves while the Choroid is broad.
- 3^d The fewer vessels which carry blood to which differ in their origin and arrangement from those of the choroid membrane.

4th The difference between the two membranes ^{and} respect to this vital phenomena, since the iris is highly contractile, while the Choroid proper is intractable. And adds for this that, the iris is easily detached after a mucration, which does not continue long enough to destroy the continuity of the lips either of this or the Choroid membrane. The iris begins a small way behind the junction of the cornea and Sclerotic, and running across it forms a septum, convex anteriorly

✓

The following is a list of the names of the persons who have been appointed to the various offices of the Board of Directors of the Bank of the City of New York, for the year 1850. The names are arranged in alphabetical order, and are given in full, with their respective offices. The names of the persons who have been appointed to the offices of President, Vice-President, and Cashier, are given in full, and are followed by the names of the persons who have been appointed to the offices of Directors, in alphabetical order. The names of the persons who have been appointed to the offices of Directors, are given in full, and are followed by the names of the persons who have been appointed to the offices of Directors, in alphabetical order. The names of the persons who have been appointed to the offices of Directors, are given in full, and are followed by the names of the persons who have been appointed to the offices of Directors, in alphabetical order.

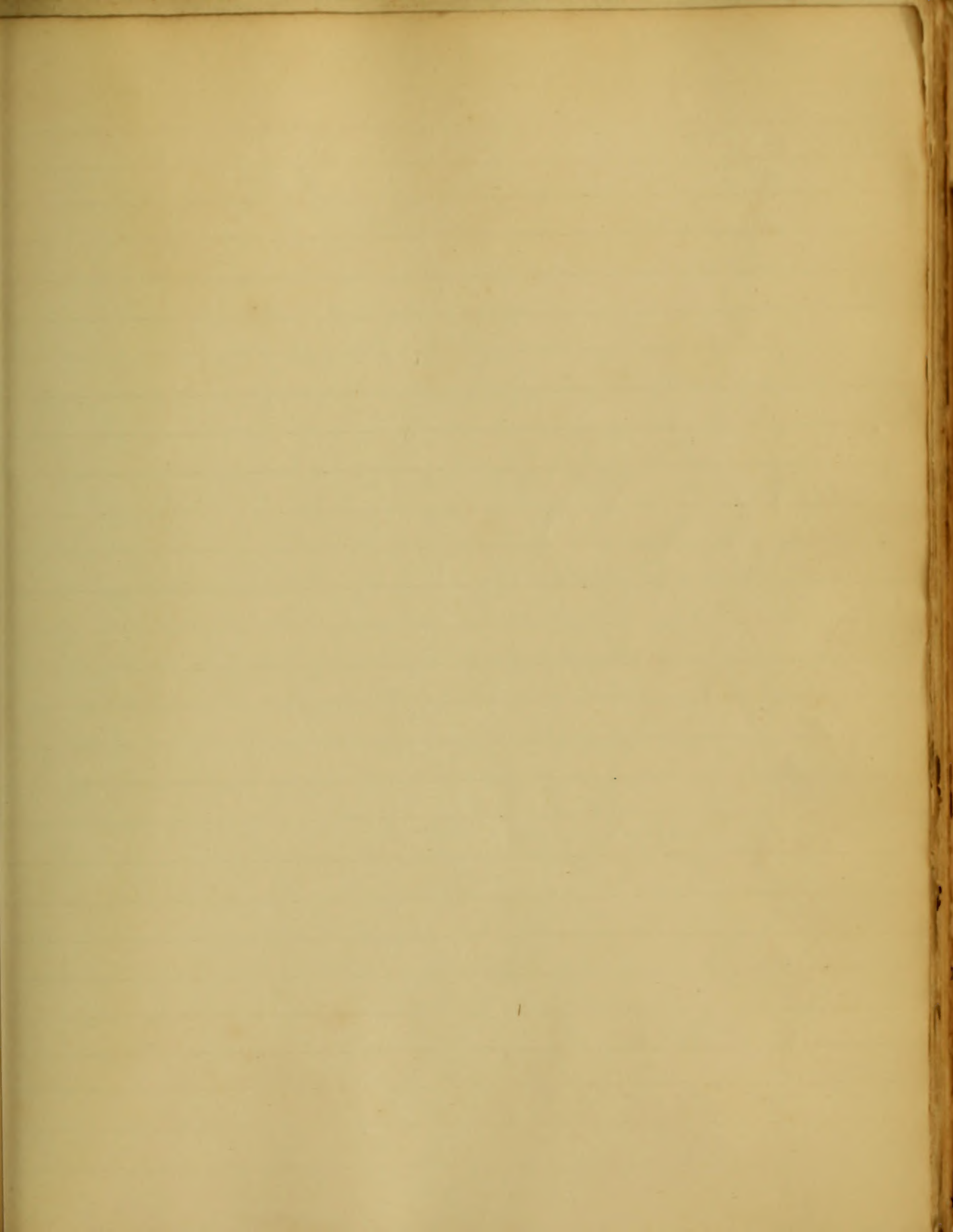
5.
is perforated in the middle by a hole,
and the pupil or sight of the eye. Upon the
inner part of the eye iris there is a dark colour
pigment, which has been considered as a pro-
per layer of the iris, called uvea. Between the
lunine of the iris we see two planes of fibres,
each has been supposed to be muscular.
The fibres of one plane is orbicular, and sur-
round the circumference of the pupil: those
the other radiated, one extremity of which is
fixed to the orbicular plane, the other to the
edge of the iris. The iris has motions of such a
nature, that the pupil is contracted at the
approach of a strong light, and is dilated upon
being exposed to a weak one. The different colours,
which appear in the iris have been ascribed
to an intermixture of vessels & nerves. The differ-
ent motions of the iris are supposed to be excited
the sensibility of the retina, and by the quan-
tity of light which falls upon that nerve. This
serves to regulate the quantity of light
sent to the bottom of the eye. The third distinct
membrane of the eye is the Retina. It is the ex-
posed end of the optic nerve, and of a very different
texture from that of the two other coats. It is
white, soft, tender, and in a manner medullary,
like a kind of paste spread upon a fine
silk web, and lining the bottom of the
eye. It is asserted by some that it terminates

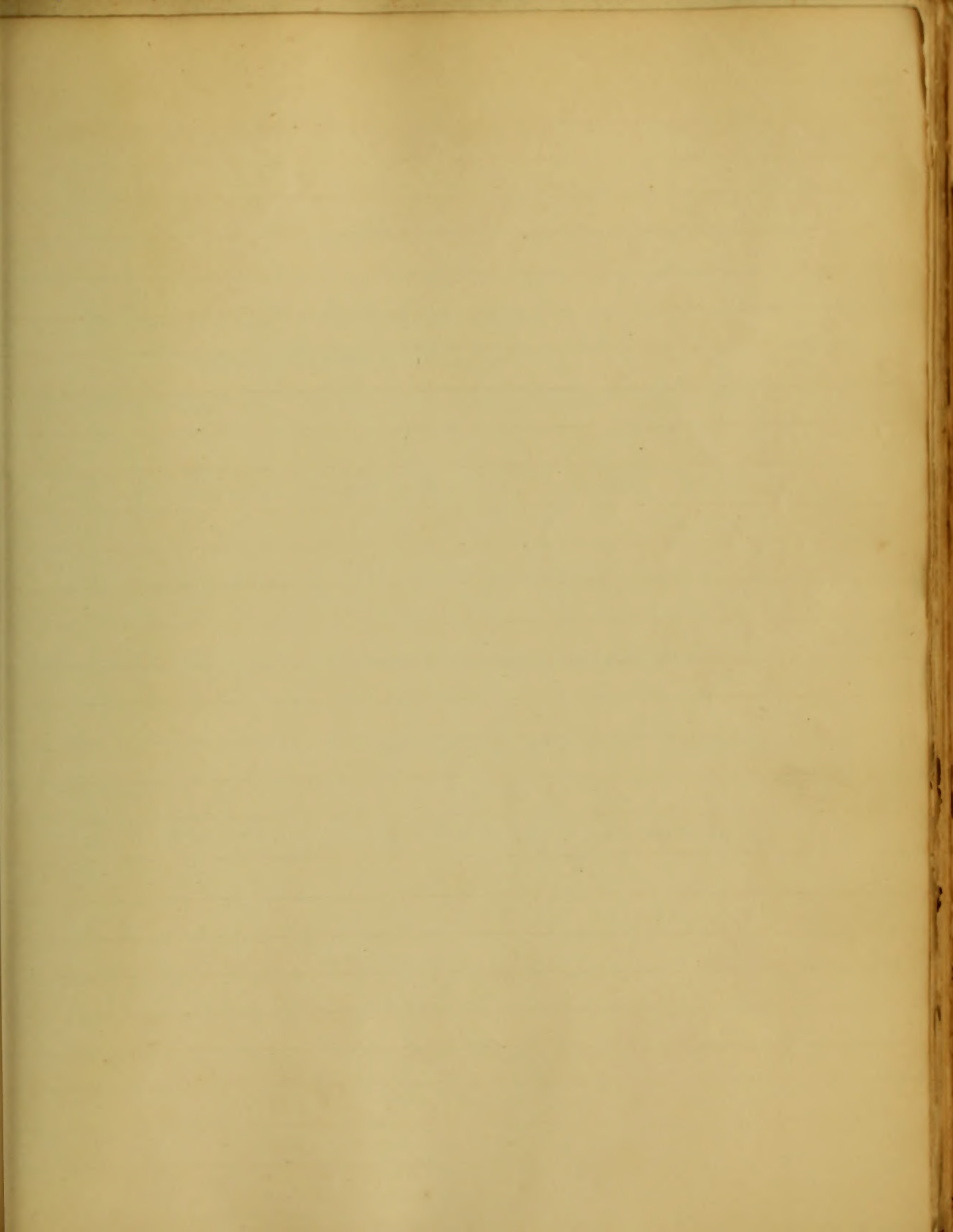
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the ciliary circle. — Humours of the eye.
 The space between the cornea & iris contains the
 anterior part of the aqueous humour, & communicates
 the pupil with a very narrow space behind
 the iris, or between that & the crystalline. These two
 are now but termed the two chambers of
 the aqueous humour the anterior & posterior: the
 anterior situated between the cornea & iris: the
 posterior between the iris & crystalline lens. This
 narrow space serves to keep the cornea distended and by
 its form and transparency collects & transmits
 the rays of light to the inner parts of the eye. It likewise
 admits the iris & lens & admits of the motions of the
 cornea. — The crystalline is situated behind the
 aqueous, opposite to the pupil, and the whole of its
 anterior part is received into a depression on the front
 part of the vitreous humour. The lens has two convex
 surfaces, the anterior being less convex than the posterior
 & is composed of concentric lamina laid over
 each other like the coats of an onion. The substance
 of the lens is soft & tender on the outside, but
 grows firmer & tougher towards the centre where
 it forms a nucleus. The lens is surrounded by
 a capsule, called the tunica crystallina usually
 described as a distinct membrane from the vitreous
 tunic. yet so firmly connected to it by cellular
 substance, that it is difficult to separate them
 without lacerating both the vitreous coat & its
 humour. — The vitreous is a clear liquid gelatinous

The following is a list of the names of the persons who have been admitted to the office of the Secretary of the Board of Education since the 1st of January 1870. The names are given in alphabetical order, and the date of admission is given in parentheses. The names are given in full, and the date of admission is given in full. The names are given in full, and the date of admission is given in full.

2.
The lens is contained in a fine transparent capsule
and tunica vitrea, it is situated in the back
of the cavity of the eye: from the insertion of the
optic nerve to the surface of the crystalline lens.
is round at the back part & sides, when it is
viewed by the retina, but is concave before when
it forms a bed for the crystalline lens. It is the
middle of the three humours. The liquor with which
the vitreous humour is filled, is similar in appearance
to the aqueous. The tunica vitrea or hyaloid,
has internally numerous prolongations in the
spaces of which the liquor is contained
as in so many cellules: these cells commu-
nicate freely with each other, as appears
by the liquor oozing out by the smallest
punctures made in the capsule. Between
the edge of the crystalline capsule & the
anterior part of the hyaloid membrane
is a thin layer termed Zona ciliaris, it has
a striated appearance and circular form:
when a puncture is made in this, and air
blown in, it forms a passage which runs
round the lens. It is termed the canal of
Petit. The vitreous humour serves to give
shape to the eye, to keep the coats properly
expanded, to preserve the due distance
of the lens, and direct the rays of light
to the retina





An Act
for the
Amendment of the
Statute in that behalf
made, touching the
Manner and Order of the
Holding of Parliaments,
in the City of Westminster,
in the second Year of our
said Majesty's said Majesty's
first Majesty's said Majesty's
of Buckingham County, England,

1835

An,

Inaugural, Dissertation,

On Indigestion,

Submitted to the consideration of the

Trustees, and Faculty of the

University of Maryland,

For the degree of Doctor of Medicine

by Alex. Hamilton, Bacc

of Rockingham County, Virginia,

1852

Jan

Presented, Published,
for Distribution,
Submitted to the consideration of the

Faculty and Senate of the

University of Maryland,

for the degree of Doctor of Medicine

by Alex Hamilton, M.D.

of Washington County, Virginia,

Samuel Baker M.D.

Late Professor of Materia Medica
in the University of Maryland

This brief dissertation, is inscribed, as a token
of the sincerest esteem, for his numerous vir-
-tues, and high professional eminence; of the
most affectionate regard, for the many friend-
-ships, personally, conferred upon, his greatly ob-
-liged friend and pupil.

The Author.

1
"On Indigestion:

"Physiological, view. In order to obtain a correct view of the pathology, of indigestion, and of the various, and true, indications for its remedial management, it is essentially requisite, that ^{the} practitioner, ~~be~~ be acquainted, with the suffering organ, in a physiological point of view.

It is only possible, however in the present treatise, to allude, to the more prominent, and primary, circumstances, that may be considered, in relation to this subject; the united experience, of those who have given considerable attention, to it, has satisfactorily demonstrated, that the two following conditions, of the digestive apparatus, are highly necessary, to the healthy function, and due performance of digestion.

These vital acts, are first a proper tone, and healthy peristaltic action of the muscular coat of the stomach, in order that aliments, when taken, into it, may be uniformly embraced by its muscular contractions, and successively, undergo chymification; whenever the food is in contact, with the organ, and has undergone the necessary changes, it is driven forward by the peristaltic action towards, the pylorus, and from thence into the duodenum.

1
The first of these

is the fact that the
management of the
business is not
entirely in the hands
of the owner, but is
shared with the
partners. This is
the case in all
partnerships, and it
is one of the
characteristics of
this form of
organization. The
partners are
jointly and
severally liable
for the debts of
the business, and
they are also
entitled to a
share in the
profits. This is
the case in all
partnerships, and
it is one of the
characteristics of
this form of
organization.

The second is, that a healthy, and regular secretion of a sufficient quantity, be eliminated in the stomach; this is no less important, than the first in digesting proper nutriment, for the health maintenance, of the individual, and without a healthy cooperation of them both, digestion is but tardily performed; that the latter, viz. the gastric juice is the only solvent, concerned, as far as chymification, is I think, established, beyond all dispute. The united experience, of Stevens, Goye, Liedman, and others, place this physiological fact, upon the basis of incontrovertible demonstration. That bile, has any vital or material agency, in the process, of chymification, does not appear, from some of the late experiments, performed, by the most distinguished physiologists, of the present day; it is contended by them, that the principle agency, of the bile is to render the oily substance, of the chyme soluble, in the chyle, and that it is the alkaline property, of that secretion, which gives to the chyle its milky color. For when the ductus communis colliculatus, is tied, chymification goes on as rapidly, and as uniform as before; with this only difference, that then occurs a transparent, and yellowish hue of the

The purpose of this book is to present a complete
and systematic account of the principles and
methods of the various branches of the
mathematical sciences, and to show the
interconnections between them, and the
application of them to the various
branches of natural philosophy, and
the arts and manufactures. It is
intended for the use of students in
the universities, and of those who
are desirous of acquiring a
thorough knowledge of the
mathematical sciences, and of
their application to the
various branches of natural
philosophy, and the arts and
manufactures.

chyle in the lacteal and thoracic duct; this phenomenon is probably owing to the transudation of bile into the blood, which taken up by the lacteals and deposited into the great reservoir of the absorbent system. As the nature of the present treatise will not admit, of further, physiological investigation, we will more immediately enter upon the subject, under consideration.

Of the different kinds of Indigestion.

This disease, like most other complaints differs in its seat and character, in different individuals. The pathological observations, made by the most laborious investigations, of the present day concur in enumerating, four kinds of disorders of the digestive organs; each having its seat principally if not exclusively, in one of the particular parts, of the digestive tube, hereafter to be mentioned. Though one species, or variety, can seldom exist for any length of time, independently, without the neighbouring organs, becoming involved, or thereby sympathy, of contiguity, or continuity, and consequently changing the nature, of the primary or

12
The first part of the
document is a list of
the names of the
persons who were
present at the
meeting of the
committee on
the 10th of
the month of
the year 1861.

Of the Officers of the
Committee.

The names of the
persons who were
present at the
meeting of the
committee on
the 10th of
the month of
the year 1861
are as follows:
The names of the
persons who were
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are as follows:
The names of the
persons who were
present at the
meeting of the
committee on
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the month of
the year 1861
are as follows:

affection into one, or the other varieties; Among the affections, which are common to the intestinal canal are first those, whose immediate seat is in the stomach; and secondly, those, in which, the small intestines are chiefly, or almost, entirely concerned, A third species is owing to a morbid, or faulty secretion in the biliary apparatus, whilst the fourth variety is exclusively located in the large intestines.

All these cases, of disordered functions, of the digestive tube, may with much propriety be classed under the head of indigestion, or dyspepsia, because their immediate tendency, is to prevent, the regular, and perfect digestion, and assimilation of the food. From the many varieties which are incident to this affection, it must be manifest to every one, who is at all acquainted, with ^{to} savages, that it is of the utmost importance, to the medical practitioner, as well as to the patient, that the kind, and seat of the disease, presented, be correctly distinguished, for upon this base, or foundation alone, can the former, do justice, to the suffering individual; or can the latter reasonably hope to derive any efficient, advantage, from his medicine

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-al attendance. I shall after these few remarks
 endeavour, briefly, to give the most prominent
 and pathognomonic, symptoms, of the different
 varieties, which we have mentioned incident, to this
 affection. In the first modification, where the
 stomach is the principle organ affected, the symp-
 toms, are a furred tongue, clammy mouth, want
 of appetite, heart burn; oppression, at the pit
 of the stomach, after meals, or a sense of sinking
 after a short abstinence; to these may be added
 nausea, rejection of food, a short time, after it has
 been taken; the mouth is generally, parched, and
 dry, in the morning, prevailing thirst through the
 day, and the breath, is more or less fetid; the pulse
 into bowels are frequently costive, but sometimes
 attended with diarrhea, but in the generality
 of cases, the bowels are regular and the alvine
 Discharges little changed, from a healthy or natu-
 ral, condition. The drinking of much liquid
 is particularly dishepsing, and often followed by
 tenderness in the region of the stomach, and
 not infrequently in the left hypochondrium;
 sometimes a puffy and elastic swelling, may be felt

of attendance. What after these two months
I have been able to see the most prominent
and the most important, by the way, of the
subject, which has been mentioned in this
lecture. At the first of these, when the
subject is the principal part of the
lecture, we are given a general account of
the subject, and then we go on to the
particulars, after which we come to a
conclusion, and then we give a short
summary of the whole. In the second
part of the lecture, we are given a
general account of the subject, and then
we go on to the particulars, and then
we come to a conclusion, and then we
give a short summary of the whole. In
the third part of the lecture, we are
given a general account of the subject,
and then we go on to the particulars,
and then we come to a conclusion, and
then we give a short summary of the
whole. In the fourth part of the
lecture, we are given a general account
of the subject, and then we go on to
the particulars, and then we come to
a conclusion, and then we give a short
summary of the whole. In the fifth
part of the lecture, we are given a
general account of the subject, and then
we go on to the particulars, and then
we come to a conclusion, and then we
give a short summary of the whole.

upon the left side, and in protracted, and in severe cases; soreness may exist in that region, and a peculiar burning sensation, more or less constant, extending to the right side. The patient in this modification is often much troubled, with acidity in the stomach; and not unusually, soon after food is taken; a simple retching, takes place, more especially after the dinner meal; the urine generally is turbid, and on standing, deposits a yellowish red sediment, but hardly ever deficient in quantity, the complexion not infrequently turns pale; but very rarely, that it ever assumes a sallow appearance.

Second variety.

The second modification, or variety of this disease, may be known, by a modification, of the symptoms in the first. When a great extent, of the small intestine, are the organs chiefly affected; the tongue is generally, coated, with a white fur, but, not so much, as in the first variety, the thirst is also, less urgent, than in the first modification, the mouth not so parched, or dry, the appetite, not much impaired, nor the breath

much tainted; no sense of sinking, at the pit
 of the stomach, except in cases, when an immod-
 -erate gratification, of the palate has been indul-
 -ged in; the bowels, are variously and much dis-
 -ordered, in this variety, though, the stomach, hard-
 -ly ever participates, the intestines are often much
 -confin'd, or too much relax'd; the alvine evacuation-
 -s, are often unnatural, and highly offensive, be-
 -ing either of a light brown, green, dark or black
 -ish colored, and sometimes the color, of pitch, white
 -not infrequently, slimy diarrhoea, is a troublesome
 -symptom, and frequently exists, from the course
 -ment; Thirst however is not, very urgent, and
 -consequently liquids, are not much indulged in,
 -and when the individual, does happen to take
 -too large, of fluid, potations, they do not cause
 -that oppression, and pain, which is felt, when the
 -stomach, is the principle organ affected. In aff-
 -ections of the stomach, there is a great collection
 -of gas; which annoys the patient very much. In
 -this variety, the gas, is principally confin'd, to the
 -bowels, giving rise to much pain and flatulency;
 -pains are often felt, in the region, of the umbilicus

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When the stomach is the organ, mostly affected, we have heat, and viscid secretions, in the mouth with some eructations; more especially a short time after taking oily aliments. When there is great irritation, in the small intestines, the sensation of heat is most sensible, and troublesome, at the other extremity, of the digestive tube; the patient is frequently affected, with hemorrhoidal tumors, which occasions considerable tenesmus, when at stool. In general the urine is highly coloured, and deposits, a red sediment; the external appearance, of the patient, is pale, and sallow, and sometimes yellow, which last appearance is very visible in the conjunctivae.

Third variety

In this the third modification; the most prominent symptoms, are in general, pain or uneasiness in the right hypochondrium, constipation of the bowels, unhealthy alvine evacuations, in which, the white, and dark dejections, predominate. The tongue, perhaps is always coated, with a thick yellowish fur, and the urine turbid, sometimes highly coloured; the appetite is more impaired, than in the second variety, but not so much as in the

first modification; The pulse is seldom unnatural and varies, but in a small degree, from the healthy standard. It may be questioned on pathological demonstrations, whether, the sallowness, or jaundiced hue, of the countenance, and eyes, are more frequent, in this variety, than in the second modification, it is however so, in some cases, and of a more steady character, in cases of long standing, and where, there has been much irritation, a palpable enlargement, and induration, can easily be felt in the right side, close to the margin of the ribs.

Fourth Variety.

In the fourth variety, of this affection, where the large intestines, are the organs affected, it often remains, a long time, undiscovered; This is probably owing, to the frequency, with which, the generality, of dyspeptics; are labouring under, some irritation, about the rectum, or anus, such as hemorrhoidal, excrescences, frequent discharges, of blood, pain and sensation, of heat, when at stool; When persons complain, of these symptoms, of the existence of disorder, and irritation, medical men, are too

Over the question; the point is not the question
and more, but in a small degree, from the fact
of course, the way is question in fact
themselves, in fact, the difference of fact
which has, of the same nature, and also, the same
question, in the matter, than in the second
of question, it is necessary to see some case, and
of a more exact character, in case of any
thing, and there, there is some thing
them, a further enlargement, and enlargement
only be left in the right way, like the
of the

Of the variety

In the first branch, of the question, when the
large culture, and the organs of the
main, a large time, and more, the
more, to the question, but in which, the
of the question, and in which, the
more, about the question, or about the
of the question, and in which, the
of the question, and in which, the
of the question, and in which, the
of the question, and in which, the

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apt, to think they are only symptoms, of the existence of diseases, in the superior portion of the alimentary canal; which do sometimes incidentally happen to all such patients, and which can only be removed, by remedial agents, calculated to remove the primary affection; As a general view, this may perhaps be a correct one, but cases undoubtedly occur, in which the original seat of all the patients suffering, may be found in the colon and rectum Dr Graham observes in his treatise on indigestion, that in great irritation, of the large intestines, patients have often an unimpaired appetite, and relish for food, with a clean tongue, and he further adds that they will, also digest their food well, provided they are careful, in the two points, quantity, and quality. This state of the stomach, and tongue, will often be present, when they are harassed, by general nervous depression, and local uneasiness, about the rectum. The pulse in the various, stages, of dyspepsia, varies but little, it is generally weak, small, slower than natural, but regular; It however may become, intermittent, and quicker, than natural, if there, exists an inflammatory, action, or tendency, it is

apt, to think the air and sun, of the creation
of disease in the human portion of the elements
and, which is sometimes considered as a
to all such points, but which can and has been
of, by means of good, calculated to remove the
more of them, as a general rule, than any
to a great one, but even in the most
which the original seat of all the
may be found in the body and
disease in the body as a general rule, that in
condition of the large intestine, which has
in various parts of the body, and which
a clear passage, but in the case of
will also depend upon the
one careful, in the first, second, and
the state of the stomach, and
the present, when they are
more, the first, and local
system. The human
is, more but little, it is
strong than natural, but
more, external, and
then, quite an important, or

more or less hard. The symptoms of dyspepsia may be very severe indeed, when there is no hepatic derangement, and yet emaciation, will be but trifling, but, if the function of the liver, be disturbed, the flesh disappears, with great rapidity.

Causes of Indigestion.

Among the various, and multifarious, causes of indigestion, few authors agree, as to the number of circumstances, that may give rise, to the morbid phenomena, in the digestive apparatus, every person conversant as well, as the medical practitioner, with the frequency of dyspepsia, among the inhabitants, of our highly, civilized country, it has become an interesting enquiry, with medical philosophers, what is the cause, of this morbid change. A correct answer is hardly to be expected, when we reflect, how divided, pathologists are in there deductions, on this subject. Some have attributed, it to physical and others to moral, whilst others combine the two as a connecting link, in the chain of morbid phenomena. It is however very evident, that it is for the most part dependent, upon changes, which have of late years, gradually taken place, in the gen

more or less. The symptoms of dyspepsia
 may be very acute, or they may be
 insidious, and the prognosis will be
 different, but of the duration of the
 disease, the best prognosis is to be
 given.

Causes of Dyspepsia

Among the causes, and the most common, of
 dyspepsia, few authors agree as to the number of
 circumstances, that may give rise to it. Some
 suppose, in the digestion of food, and from
 that as well as the most frequent, with the
 frequency of dyspepsia, among the inhabitants of
 our islands, a striking example of the same
 being given, in the medical philosophy
 in the case of the number of cases. A
 case is given to be effected when the
 various factors are in their usual
 this subject. The same has been
 and that is the case, but it is
 in a country, and in the
 manner. It is however very evident, that it is
 the most part of the cases, and in
 have of the year, gradually taken place in the

-eral pursuits, of mankind, and in their mode^s. In
 This country, when we observe minutely, these changes
 which deviate so much, from a healthy and natural
 condition, of mankind, and as these changes, are
 undisputed by all, and are I think, equal to the
 production, of the effect, the real sources of this
 disease, appear to be sufficiently manifest, some
 have ascribed, as the grand cause, inordinate reple-
 tion, and its necessary concomitants, morbid dis-
 tension &c, but many circumstances, corroborate
 in proving the fallacy of this general opinion.
 Natural, as well as medical history informs us, that
 our fore fathers ate and drank, as much as we
 do, in the present day, yet they were, compar-
 atively exempt from any such malady, we are in-
 formed by natural history, that in the reign of
 Henry the eighth, for example, both wine and ale
 were drunk with impunity, at breakfast, the qu-
 antity, being a pint, to each individual, and also
 that maids of honour, in the court of Queen El-
 -izabeth, ate for breakfast, beef steak, and drank
 -ke without respect, to quantity, ale afterwards;
 whilst many in the present day, can hardly over-

the present, however, and in the
 the country, when we have
 their names as found from
 an outline of an outline, and
 considered by all, but one
 position of the object the
 degree of light is in the
 have been in the present
 then, and the manner of
 taken, but the manner of
 in forming the object of
 believed as well as the
 we have been in the
 in the present day, the
 but the present day, the
 having a better view, that
 through the light, or
 will show a better view,
 on the day a point to
 that more of the same, in
 position, etc. for the
 it will be better to
 which may be the present

take a small quantity, of any liquor, without causing the most distressing symptoms, again it is now well ascertained by experience, for it alone in this affection, should be our guide, that in the majority of cases, if a dyspeptic, will give ease to his mind, and free exercise, in the open air, to his body, he will digest his food with ease and comfort to himself, and not be troubled, with those fits, which are common to the indolent & sedentary. In enumerating, the causes, of indigestion, they may with much propriety be divided into two classes viz. Physical, and Moral, the first class although numerous, may not be regarded, as more hurtful, than the latter.

Physical Causes.

As the stomach may be considered, not even the brain excepted, as the great centre, of sympathies; and by every undue impression on the skin, whether cold, or hot, of humidity or drought, impure moisture, the healthy functions, of that organ. In a climate like ours, this fact must be observed by every one, who has at all, rested his observations on experience, that when, atmospheric changes are so

the a small quantity of any liquid, and the
the most delicate apparatus, and the
will certainly be sufficient, for it is clear in this
position, that the air is not pure, that in the
of cases, if a sufficient quantity of air is
taken, and the apparatus in the open air, the
door, the walls of the room, and the
part to himself, and not be troubled with the
but, when we compare the indicated results
to our own, the cause of impurity, the
may be the cause of impurity, the
of the air. Physical and Moral the
at least numerous, may not be regarded, as
different, than the latter.

Physical Causes.

As the atmosphere may be considered, not less the
object, as the great center of light, heat, and
of energy in our atmosphere, in the air, in the
order, or part, of impurity, or impurity,
in life, the health of the human body, the
a limited degree, the fact must be changed
every one, who has at all, used the observation on
of impurity, the air, and the change in the

perpetually occurring, not only, as to temperature, but also, as to humidity, density, rarity. We need not fancy in the mist, why affections, of the alimentary canal are so numerous & prevalent, amongst us. If we but count, the experience, of those who have lived in the pure and open air, where atmospheric changes have but little effect, we can readily and easily, draw, a line, and marked distinction from those, who reside, in large towns & cities, whose constitution is effeminated, from continually inhaling, from every thing, in the animal, vegetable and mineral King, dom; that host of miasms, emanations, and contaminated effluvia, swallowed & kept in contact with the skin. These effects, are every where visible, in the sallow complexioned puny, and capricious, appetites, and imperfect digestion, of the inhabitants; This state of inaptitude, for aliments, resulting, generally, from sedentary, occupations. Impure air, late hours, and mental perturbations, leads greatly to an aggravation of the evil, by the recourse which is had to high seasoned food, and stimulating, drinks, more or less by all classes of society, the nerves of the bowels

perfectly common, and only, as the law is, but the
 as to the quality, quantity, and the way of
 in the most high affection, of the substance, as
 are the numerous & beautiful, amongst us. As the
 but count, the appearance of them. who have the
 in the face and open air, when almost there is
 things have but little effect, we can read, and
 easily, clear, or fine, and marked the
 on those who receive in large towns, who
 constitution is affected, from continuing in
 long, from every thing, in the animal, vegetable
 and mineral kingdoms; that part of the air, some
 waters, and certain kinds of plants, and
 after in contact with the air. Other effects
 are very remarkable, in the better complexion
 being, and complexion, of the air, and in the
 digestion, of the substances; the state of
 things, for aliment, resulting, generally, from the
 air, occupying, in the air, the being, and
 the part, taken, least, great, to an operation
 of the air, by the means, which, in the
 necessary, for, our sustenance, and, in the
 of all kinds of insects, the means of the

are irritated, by what is undigested. To these different causes, may be added, the irritated secretions themselves, not only of the stomach; but of the liver, pancreas, and all the innumerable glands that stud, the mucous lining, of the digestive tube. The physical causes, then of indigestion, may be considered morbid sensibility, of the nerves, of the digestive apparatus, and a deficiency of gastric juice, or redundancy of acid, atmospheric impressions, on the exterior surface, cutaneous disorders, and the sudden repulsion, disordered functions, and diseased tissues, in other parts of the body, as the liver, spleen, pancreas &c act through the medium of sympathy, on the organs of digestion. Aliments taken in too large quantity, alcoholic liquors, blows on the head, back, an electricity; long continued use of tea & coffee, emetics, onanism, acrid substances as drastic cathartics, taken into the stomach, or generated, in the elementary canal; under these heads, all or almost all the physical causes may be elapsed, they are numerous, and act through the channel of sympathy and direct application, to the different organs and tissues.

Moral Causes.

It is thought but one medium, that these causes can travel, from the organ of thought, to the digestive apparatus, but the number of air-spirites, and the velocity, with which, they are conveyed along the silvery pneumo-gastric conductors, baffle all intellectual calculations.

It is now plain to every observer, that in the present condition of things, men's minds, are too much engaged, in the pursuits of this world whilst, they suffer themselves, to live an inactive life; here I think lies, the great root of all the evil, complained of by the invalid.

Mental anxiety, not only arrests, and disturbs, the progress of digestion; but by interrupting, and weakening, the nervous influence, on which it depends, and thereby leaving the food, open to the chemical laws, which the individual is subject to feel; but in a remarkable manner vitiates, or impairs the bilious secretions, and consequently propagates, a new and powerful source of irritation, to the delicate nerve of the

digestive apparatus, as detailed in another paper.

Abstract Course

It is thought that our mission, that these
 years, can have, from the report of the
 the various operations, but the number of
 parties, and the nature, with which, these
 conveyed to the various persons who are
 invited, will be all interested in
 It is now plain to every observer, that in the
 present condition of things, they think, are
 too much engaged, in the pursuit of the
 which, has suffered the most, in the
 the last, but I think in the present
 at the end, and the end of the
 present subject, not only in the
 progress of the nation, but in the
 condition, the various interests, on which it
 rests, and thus, having the part, for the
 present time, which the circumstances
 not to feel, but in a remarkable manner
 which, or in fact, the better condition, in
 consequence of the progress, or in any
 source of relations, to the whole of the

Duodenum & intestines. The fact is, from the whole line, of the digestive tube, from the cardiac orifice, to the valve of the colon, is kept up in a state of irritation, from the time the food is taken in, till its remains, pass into the great intestines. It is almost incredible to relate, but Dr Johnson relates a case, in which a single look, and a few words, from a tyrant monarch gave the ambitious wolsey, a fit of indigestion which terminated the cardinal's life. The function of digestion, as indeed, every function, is so completely under the nervous influence, that there can not, be any doubt: of the channel through which the mischief is produced. In this country where mens. relations, with the world are various and multiplied, in consequence of the intensity of interest, attached, to political religious, commercial & and disappointments of every description, often sink the mind in despondency, and from ^(such) perpetual, vacillations, debilitate greatly, the digestive organs.

Autopsical appearances.

The morbid appearances, exhibited on autopsies are

The first is from the
 which are of the highest rank, from the words
 we sacrifice, to the words of the order, we lift up
 in a state of insolation, from the time thereof
 a date in, till its termination, for into the great
 nature. It is almost insensible to resist, but
 the labour, to be a case, in which a hand
 has, and a few more, from a point of view
 from the end of the world, a part of the
 which terminates the world, the
 of the system, in which, each
 be completed under the same system, the
 that can not, be any part of the system
 through which the sun shines in freedom. As the
 have of other, some nations with the world
 in nature, and in the air, in correspondence
 of the extent of our land, water, and
 of our, and in nature, the one is of
 a new description, for which the mind is
 and, one from ^{the} nature, and in nature,
 which is great, the system of
 (But of the system of
 the system of nature, which is of

various, owing to the variety, intensity, and duration of the disease, and to its numerous complications, the mucous membrane of the stomach, partakes of, in a remarkable degree, this difference in appearance, varying, from a lively rose color, to a deep brown state, and sometimes even black in spots; another appearance exhibited, frequently, is that of a dirty yellow, resembling slightly the skin in jaundice, it having lost its naturally pearl color. The arrangement, of the coloration, is diversified, being occasionally arborescent, or striated, or in irregular patches or spots, of greater or less extent, and diminishing, in intensity, at the edges until finally lost, in the continuous membrane. They are said, sometimes to be in the form of a zone. When the disease has been of long duration, the membrane in certain parts, becomes greatly thickened and indurated, this is particularly, observable about the lesser, and towards its pyloric portion, indeed any part of the greater curvature of the stomach, may be found in this condition. This thickening is often confined, to a single spot, of no determinate magnitude:

Sometimes arranged in rugae of considerable length
 with, which being coloured, gives the stomach the
 striated appearance noticed above. The coloration
 and thickening, observed above, are also formed
 in other portions of the alimentary canal, differing
 from the above, only, in so far, as there may be
 a modification, of structure & circumstances. Perha-
 ps there is no part of the animal system more
 subject, to ulceration, than the digestive, mucous
 tubes, and consequently we find it, in a great
 number of cases, of those, who have died, from
 disease, after having laboured under chronic, dig-
 estive derangement. The order of frequency, in
 which they occur in the alimentary canal is as
 follows, the beginning of the colon first, then the
 ileum, especially at its lower end, the termination
 of the colon, and the beginning of the rectum
 the stomach, the transverse colon, the jejunum,
 and lastly the duodenum. In the mucous mem-
 branes, devoid of epithelium, the ulcer is preceded
 by a small redish tubercle, with a dark point
 in the center. Previously to this ulceration, the in-
 ternal tunica is almost always thickened, Ramol

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-ipiment, of the membrane, has been found in many
cases, especially, where acute inflammation, has super-
seded, upon the chronic morbid condition. The appear-
-ances of the liver, are not uniform in old dis-
-orders, it is often enlarged and indurated, though
sometimes softened, and presenting a much lighter
color, than usual, being almost yellow, the partic-
ular investigations, of the morbid appearances, of
the liver, would be more proper in a dissertation, ex-
-clusively, devoted to hepatitis. We hope therefore
we may with propriety, be excused, from amplifying
-fying on this point.

Treatment.

In treating this affection, it is essentially requisite
-of the practitioner, to be well acquainted, with
the diagnostic symptoms, of the different varieties,
of the disease, and unless he is thus informed, it is
impossible, for him to apply his medicinal agents
with success, or mitigate the sufferings of his
patient. The indications to be met primarily, in
this disease are numerous, but in adverting, to them
I think it necessary, in the first place, to notice
the general principles, which, should precede, the

The application of remedies; and afterwards
 the employment of individual agents, there
 are certainly, two grand principles, which are of
 paramount importance, in the general adminis-
 tration remedies viz, first to restore as much as is
 possible, healthy secretions, and secondly, to give
 tone and vigor to the general system; That this
 latter consideration, is too often overlooked, is a
 truth much to be lamented, and from which
 circumstance, many invalids, have permanently
 suffered; as the mischief done by actively, lower-
 ing measures, could never afterwards, be perfectly
 surmounted; If the physical strength of a
 patient be reduced below a certain point, it is
 often found impossible, entirely, to recover the injury
 thus inflicted. That depraved secretions, are sometimes
 dependent, upon debility, and also, That local or
 general weakness, may be a common cause, of this
 disease, is a truth perhaps few will deny. It fol-
 lows then as a necessary consequence, that lowering
 measures, in such a state, of the system, may be
 improperly used; when this is the case, the most
 efficient alteratives, may be used, the secretions

The application of medicine and surgery to
 the relief of individuals is the
 profession of the physician, which is
 paramount importance in the general scheme
 of human civilization, and to which the
 world has been indebted for its
 progress and its peace. The
 physician is the guardian of the
 human race, and his duty is
 to relieve suffering, to preserve
 health, and to prolong life.
 The physician is a noble
 profession, and one which
 demands the highest qualities
 of the human mind and heart.
 The physician is a servant
 of his fellow men, and he
 must be guided by the
 principles of justice, equity,
 and humanity. The physician
 is a noble profession, and
 one which demands the
 highest qualities of the
 human mind and heart.

will still remain unimproved, and the individual, instead of getting relieved, grows worse, and from, an obvious reason, that we are by having recourse, to evacuating means, giving tone and strength to the very foundation, which is the proximate cause, of such deposed secretions, from such a constitution, of the digestive organs, we must infer, that the use of alteratives, would render but little or no service whatever, This however applies only to a lowering treatment, if, only continued, for a few, hours, days, or even weeks. The practice pursued by some physicians, of giving a colic and blue pill, at night, and a brisk cathartic in the morning, often defeats its own object, of producing healthy secretions, by the debility which it occasions. It may be laid down in indigestion, as a rule, in such conditions, of the system, that the secretions may often be restored by tonics. In the treatment of this variety, if the patient's strength, be maintained, the desired object is effected, but on the other hand, what ever, decreases the general tone of the system, threatens destruction, to the very existence of the individual. The testimony of many

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invalids, proves the correctness, of this opinion, whilst
the experience of observing practitioners, cooperate, in
its truth. It not unfrequently happens, that the phy-
sician, is entirely, defeated, by his most powerful alle-
riatives, prescribed, to correct the unhealthy, condition
of the vessels just referred to, if he is negligent at
the same time, of not administering, general tonic re-
-medies. Thus in conjunction with calomel, or the
blue pill, or some, other opiate, some of the prepa-
-rations of tonics, might be used in conjunction, and
by so doing, we shall often attain, our object, when
otherwise, we would be defeated. Another grand
indication, in the general management, of dis-
-orders, of the digestive functions, is the relief of ir-
-ritation, This should constantly be borne in mind,
for in the administration of any remedy; if it
should be productive of irritation, we must of
course conclude, that such remedy, are imp-
-proper in themselves, or employed in a manner
unsuitable to the case; In the treatment of in-
-digestion, we invariably find irritability, pain,
and irritation, closely connected with debility.
It however ^(must) be admitted, that, by far the greater

number, of cases, of indigestion, are solely dependent, upon a chronic inflammation, of the digestive organs, resulting from acute, as well, as a slow and continued irritation, produced by any unnatural impression, excited and kept up in the system, by other causes; In treating this variety, another course of medication must be pursued, entirely different; from what has been recommended, in that variety, which depends, on morbid secretions, resulting from debility, In this variety it is necessary, that the patient, should abstain from all alcoholic stimulants, and also tonics until the inflammatory diathesis, be subdued, by bleeding, both general, and local, if required, with a strict antiphlogistic regimen, keeping all irritation, from the mucous lining of the canal; this with proper exercise in the open air, will often accomplish a cure, when a tonic treatment would have proved, highly detrimental; After making these few remarks, relative to the general treatment, we would say, the indications naturally present, themselves into three great classes viz Medicine, Diet and regimen, including under the

latter, air, exercise, bathing, &c. As medicines for, to restore the morbid secretions, calomel, certainly claims our highest attention, but when given alone, says Dr Graham, it is apt to weaken and irritate the stomach and bowels, and consequently, should be given, in combination, with some other attenuant, such as Rhubarb & Opae. Some of the mild preparations, of mercury, can be used, with decided advantage, as the blue pill; or Hydrargyrum cum creta. These preparations, being less irritating, than the protochloride, and with some dyspeptics, agreeing much better; This latter medicine, however appears to have a more decided effect in cases of debility, and, also, when the system is unusually irritable: The combinations of mercury, with James powder, or the compound powder of Opae, a small pill, made of these ingredients, may be administered twice a day, with some of the preparations, of tonics, with advantage. Perhaps, there are no two medicines, in the catalogue of the materia medica, which deserves higher repute in this disease, than Rhubarb, and Opae, and more especially, when the biliary organs are

Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.

tion is morbid, or deficient, they act both as a
 Stomacic, and aperient, and appear, to render alto-
 -gether, unnecessary, any of the ordinary bitters, so
 efficacious, is this medicine, that I once saw decided
 relief obtained from its use alone, in a case of in-
 -digestion, in the short space of three months.

Ipecacuanha, also holds, a claim, in the treatment
 of this disease, by acting very salutary, on the
 internal surface of the stomach, and bowels,
 and through which medium, on the skin and
 biliary secretions. In that variety, of the disease
 where diarrhoea is an attendant, symptom, Rh-
 -ubarb, in conjunction, with magnesia, is a very
 useful remedy, an excellent antidiarrhetic pill.
 may be made, by uniting one grain of Ipecac,
 with two of Rhubarb, and two of soap to be
 taken twice or thrice a day as occasion may require.

Nitric acid is said to be a valuable remedy &
 may be used beneficially, in that variety, in which
 -th, the stomach and duodenum, are chiefly con-
 -cerned, it acts as a tonic and alterative, and at
 the same time, promotes healthy secretions. It is
 said in recent cases, it is of little service.

Mineral Tonics, are also highly recommended, in the treatment of this disease, and no doubt they have been indiscriminately used, by some practitioners, in administering them, in the inflammatory form, or variety of this affection, but notwithstanding in that simple form of debility, nevertheless described they are very useful, and sometimes, of more service, than any other description, of medical agents, but as their operations are various, they appear to be as much diversified, in their effects on the system; in some cases, the preparations, of Iron will prove the most beneficial, in others Bismuth, and in a third class nitrate of silver, or the sulphate of Cupri or Zinc, when there exists much pain in the stomach, the nitrate of Bismuth, may be used, with a great deal of advantage, especially when there is great local and general weakness, the subcarbonate of Iron, given in combination, with Rhubarb, or Opium, with a minute dose of a loes, is an excellent remedy.

Quinine has also been used, and highly extolled by some of the most eminent practitioners.

In adopting, the different medicines, to the

The first part of the book is devoted to a description of the various forms of the letter, and to the different methods of writing it. The author then proceeds to a discussion of the various styles of handwriting, and to the different methods of teaching it. The book is written in a clear and concise style, and is well illustrated with examples of the various forms and styles of handwriting. It is a valuable work for any one who is interested in the study of handwriting.

different varieties of this disease, It has been found
 where the stomach is the organ, principally, empla-
 -cated, that the following remedies, appear to be
 the most useful. Pills of Rhubarb, Opoeac, with
 soap, mercurial alteratives, and where the disease
 is dependant on inflammation, bleeding, cupping
 and leeching, must also be used, more or less.
 The different preparations of Iron, Bismuth
 the alkaline solutions, nitric acid &c. The prep-
 arations of mercury, in this modification, is less
 required, than in the second or third variety,
 but, when it should be indicated, the blue pill
 may be used, with more advantage, than colona,
 An agreeable pill may be made, by combining
 four grs, Oil Hydragyri with pulp, Opoeac. com-
 positus, one grain, to be taken, every evening.

When the small intestines, are the seat of the dis-
 order, mercurials are generally much required, tog-
 -ether with medicines, which will relieve the
 irritability of the parts, The following will be fo-
 und to be a useful pill in this variety,

Hydragy sub. gr. xij
 Antimoni Tartar. " 1

Pulv Opium gr 1
Pulv Gum Arabic. grs XXIV
M in pillulas XXII

one to be taken every evening, until they produce the desired effect, Rhubarb pills may also be used with success in this variety, Sarsaparilla, both the decoction, and infusion, have highly recommended, To relieve constipation, which is general attendant in this variety, aperients are much indicated, and for this purpose calomel, Rhubarb, and Speck, hold a high reputation, and are to be classed amongst the best, This with exercise, and general attention to diet and regimen, is much required, in order to a cure In the third variety, when the biliary organs are chiefly the seat of disease, the different preparations of mercury, are much required, The blue pill, perhaps, will be found the best, five grs every night or twice a day, has been used with much success - The nitric & muriatic acid is much extolled by some practitioners, in this disease Dr Scott recommends, a bath made of the same medicines, and I can easily perceive the correctness

of this apertion, tonics also may be given, after other means have been employed, bleeding by means of leeches or cups, with blisters, over the region of the liver, have been followed by the happiest effects, In the last variety, of indigestion, dependent, upon diseased condition, of the large intestines, an attenuate pill, every night, may and perhaps, are always indicated, Tonics also may be used, the preparations of Iron, and vegetable tone in general, these medicines, should never be used, until the inflammatory condition of the system is subdued, by blistering, cupping, and leeching, the leeches ought always to be employed, or applied to the verge of the anus, A Glyster is often necessary, to ensure a free evacuation, and for this purpose, a pint of gruel, or linseed oil, are the best, to relieve the irritation, which so uniformly exists in this variety; when contraction of the rectum, occurs, which is a common symptom in this variety, the stricture should be divided and relieved, by passing up a bougie, when the contraction, has become considerable, the patient frequently labours under nervous depression & agit.

17

to this extent, there also may be gain, the
the means have been employed, because of more
to become a cause, with the latter, and the former
to the last, have been obtained, to the last
effect, for the last result, to improve the
present, upon the same condition of the last
to obtain an attention full view of the
perhaps, are always intended, thus also may be
more, the preparation of the, and the
in general, these necessary should be used,
until the end of the condition of the system is
ability, of the time, copying, and besides, the
less and the always to be employed, or applied
to the effect of the same, to the last, to the
to obtain, to obtain a free consultation, and to the
the last, a point of view, to the last, to the
the last, to obtain the condition, which is
to obtain, to obtain in the system, when no more
to the system, occurs, which is a common condition
to the system, to the last, to the last, to the last
to be used, to the last, to the last, to the last
to the last, to the last, to the last, to the last
to the last, to the last, to the last, to the last

ation, recurring in paroxysms; relative to the treatment of the local pain and uneasiness, so generally experienced in this affection, it should be treated according to the indications, in all these cases general principles should be carefully observed, where rejection has been the cause, a gentle emetic is necessary to relieve the stomach of its burden, and where there is pain, from spasm, an anodyne is highly beneficial and for this purpose Opium & Hyoscyamus may be used, with decided advantage.

Diet,

This part of the general treatment treatment, has I believe, been considered, a consideration of no little importance, the grand rule with regard to it is to eat and drink sparingly, and at stated intervals; some have recommended at eight and twelve, in the morning, and at four and nine in the evening, this as a general rule, is I think, correct and should be rigidly adhered to; the patient should also always be cautious, as to quality and quantity, if the former it will act as a irritant, and cause much depression, and uneasiness of the whole system.

= stem. If the later, it will give pain, by in-
 ordinate distention. When there exists a hard
 pulse, with much febrile heat, generally an
 inflammatory tendency, exists in the system, In su-
 ch a case, after other antiphlogistic remedies ha-
 ve been employed, a vegetable diet, and total
 abstinence, from all alcoholic liquors, the most
 efficacious, vegetables, in this disease, are those that
 agree with the patient, and these, we must learn
 from experience, some have, recommended, turnips
 french beans, asparagus, & potatoes, light plain pu-
 dings &c. but pastry of all kinds, are inadmissi-
 = ble, in every description of indigestion.

In such cases, where the patient is free from infl-
 amatory symptoms, an animal diet will suit
 his case best, and for this purpose, the dyspep-
 tic, should eat mutton, venison, lamb, and tender
 beef, these are found to be both wholesome and
 digestible, next to animal meats, we may mention
 partridge, pheasant, chicken, and hare, when any
 of the meats are eaten, either of the animal or fowl
 kind, they should be broiled, or roasted, and taken
 in a small quantity at dinner, at no other meal

, should a dyspeptic, indulge in eating animal
 food, as a general rule, the flesh of full grown
 animals, are better, than young ones, and perhaps
 there is no exception, All salted and dried meats are
 inadmissible, and even boiled fresh meat has its ob-
 jections. All kinds of fish are objectionable, and
 should be avoided by the invalid, especially in the beg-
 inning of the disease, both animal and vegetable
 food cooked a second time; and therefore all har-
 -shes, steues and the like, should form any part of
 the invalids dish, all fluids are difficult of dig-
 -estion, and should be abstained from; All kinds
 of wines, are inadmissible, except the white wine
 this may sometimes be given with beneficial effects,
 Toast water is an excellent drink; chocolate may be
 used for coffee, at tea, and at breakfast, coffee
 should always be avoided; the supper should always
 be light and in small quantities, and for this pur-
 -pose a roasted apple, or an egg, boiled lightly, agree
 well, In summer good ripe fruit, will make a grate-
 -ful supper, When beer agrees with the patient it
 found to be an excellent potation, oat meal gruel
 has been used by some dyspeptics with advantage-

has been used by some physicians but a short
time to be an excellent substitute for animal food
and sufficient when given with the patients.
It is summer for the first time, will make a good
and a excellent substitute for animal food.
It is in some quantities and for the first
time in winter, the patient should be
used for coffee, or tea, and or bread, etc.
It is an excellent drink; it is the most
the most excellent of any other beverage.
It is in some quantities and for the first
time in winter, the patient should be
used for coffee, or tea, and or bread, etc.
It is an excellent drink; it is the most
the most excellent of any other beverage.
It is in some quantities and for the first
time in winter, the patient should be
used for coffee, or tea, and or bread, etc.
It is an excellent drink; it is the most
the most excellent of any other beverage.

34.

In all cases the patient should well masticate his food, be of whatever quality, it may, and always rest a half hour, before any exertion, is made, and after each meal, in the sitting posture.

Regimen

A correct and uniform regimen, must be observed and strictly practiced, by the dyspeptic, in order to obtain a perfect cure; Indolence in all cases, must be forsaken, and sedentary occupations given up - without which the prospect of a complete cure, can never be anticipated, much less permanent relief.

In the great majority of instances, permanent advantage can be gained, by the patient, if he will relinquish, his confined situation, and quit the confined air of large cities, and take hours, which are so common in such places, and exchange in return, the contaminated air, for pure, dry and bracing air of the country, this in connection with early rising, and exercise, will be found to act beneficial in all cases; It is from the common neglect of these rules, that dyspeptics, are not much bettered, by medicine, nor can diet, be employed with any advantage, nothing as a substitute should

As all cases the parties should meet on the
first day of whatever month, it may be any day
next a half hour before the meeting, in order to
after the case meets in the entire business.

Agreement

The contract shall conform to the usual contract
and shall be subject to the usual conditions
and a perfect case. The business in all cases shall be
finished and the necessary receipts given up
and the contract of a perfect case, can be
completed, must be permanent.
The great object of insurance is to provide
an easy and simple way of the payment of the
will be required, his company returns the same
the company one of large cities, and the same
which are so common in such places, and
in return, the contract is made, and the
and being one of the same, this is done
then with the company, and the same, will be done
to get the business in all cases, it is done in the same
respect of the same, the contract is made, and the
and return, by the same, and the same, will be done
with the same, and the same, will be done.

be taken for country air; for nothing is so salutary
 daily ^{or} exercise, cheerful company, and early rising
 The patient is recommended, by some, to quit his bed
 by six in the morning, in the summer, and by seven
 in the winter, and after breakfast, take exercise
 freely, for two or three hours before dinner; The
 different kinds of exercise, that have been recommen-
 ded, by practitioners, that of walking and riding
 has been considered, the best, used alternately, and
 when the patient's strength, will not admit of,
 walking, riding on horse back, is to be preferred.

A strict attention to diet is necessary, but, the prac-
 titioner, can not force too much, on his patient the
 importance of regimen. Enlivening, conversation, and
 cheerful company, are also requisite for the invalid.
 proper clothing; The patient should always, wear
 flannel, to keep up a uniform transpiration; the
 feet and chest, especially should be kept warm.

A matress instead of a feather bed, is also recommen-
 ded, the atmosphere, should always be drie, when
 the patient exercises; As an auxillary, to the above pre-
 scribed rules, of regimen, The tepid bath, claims our
 highest attention, from ninety, to ninety five, degrees

The first part of the report is a general
 statement of the facts, and a description
 of the nature of the business, and of the
 objects of the company. The second part
 contains a statement of the accounts, and
 of the manner in which they have been
 conducted. The third part contains a
 statement of the assets and liabilities, and
 of the manner in which they have been
 managed. The fourth part contains a
 statement of the profits and losses, and
 of the manner in which they have been
 distributed. The fifth part contains a
 statement of the dividends, and of the
 manner in which they have been paid.
 The sixth part contains a statement of
 the interest on the loans, and of the
 manner in which they have been paid.
 The seventh part contains a statement
 of the interest on the bonds, and of the
 manner in which they have been paid.
 The eighth part contains a statement
 of the interest on the debentures, and
 of the manner in which they have been
 paid. The ninth part contains a
 statement of the interest on the
 debentures, and of the manner in which
 they have been paid. The tenth part
 contains a statement of the interest on
 the debentures, and of the manner in
 which they have been paid.

to be the correct temperature, and resorted too, between
 breakfast and dinner. When the warm bath, can
 not be procured, or it proves prejudicial, to the pa-
 tient, sponging should be substituted, every morning
 always, rubbing the patient dry, with a coarse tow-
 el; the flesh brush, has also been used, with decided
 advantage, in one case under my own observation,
 kneading, as recommended, by some, is highly pro-
 ductive of good effects.

Dissertatio Medica Inauguralis.

De Variolâ

Marylandicæ Academicæ

Praefecti, Senatus, Professorumque,

pro Medicinæ Doctoratû,

judicio subjiçienda,

Auctore

Samuele C. Baker,

Baltimorensi.

MDCCCLXXXV.

"causa latet, vis est notissima."

Patri optimo carissimoque
viro prestanti clarissimoque
Preceptori ornatissimo et illustri
Samueli Baker M. D.

Has paucas paginas
Grati animi monumentum exiguum
Aucto Filius Consecrat.

Guiljelms N. Baker M. D.

In scientiâ, in caritate,
maximè in corde

Fratri

hanc lineam inscripsit,
qui in futuro ejus ardorem
facultatesque merito honoratas
videt, frater.

De Variolâ

omnium morborum pestiferorum origo ignoscitur. Quoad hunc morbum et is maximè lethalum, naturâ investigatâ pariter deficit. A Rhaze, medico Arabico præclarissimo primò accuratè descriptus est, ab illoque tempore, ab epus devastationibus extensis exitiosisque toti mundo nimis familiaris facta. Mortuus, horrido aspectu, unumquemque ejus halitus urenti confectim oblatum avidè corripuens illumque epus victimam miseram aut contumens, aut salutè reddens suis vestigiis, stigmatèque perenni cicatricatum deturpationemque, omnium medicorum benignorum maximam curam præcipuè exegit. Horum virorum illustrium deductiones, a seculo ad seculum mutatas perfectasque hæc disertatio humilis breviter dicit. Hujus morbi causa virus pestiferum est, magna potentiâ præditum, ac ab uno ad alterum ad omnes tam facillimè diffusa ut antiquitas ejus aggressione mortales perpauci evaserint. Prima origo unde emanavit, in

caligine sempiternâ premetur. Conditiones istas
 similes unde originem duxit iterum evenire posse
 ratio docet) — aliquando in seculo presenti existere
 verisimile; sed si existant, præval ultra captum
 mentis humane jacent, non inventie, nunquam in-
 veniendæ. Effluviium non percipiendum, ubique
 diffusum, et nunquam viribus decrescens, a nostris
 investigationibus nimirum securum est. Sunt tamen
 alis quedam conditiones quedamque constitutis que
 hejus viri aggressivum corpus humanum facile ob-
 noxium reddunt. Sic videmus ut aliquando
 magnâ celeritate se longe lateque diffuderit, atque
 repente inopinatèque extinctum sit — dum aliquando,
 gradu lento sed certo progressu, a vicinis ad viciniorum
 ab amico ad amicum communicatum, profectum sit,
 nullum hominem relinquens qui ejus ignem con-
 sumentem non senserit. Mortuorum putiferorum
 hec fortunatissima eandem personam nunquam bis
 afficit. Sine hac lege, omnium hominum sortis, mis-
 eria moroque fugiter incidere.

De preservatione a variola.

Qui virus vaccinum a vacca ubere receperunt, et
 sine varioloso securus esse, jam dudum exploratum.
 Quoad illos qui simili morbo apud equos pecoraeque
 infecti sunt, idem repertum. In hac animalium
 pure varioloso inserto, morbi qui eis proprii sunt,
 vaccina etc. producti fuerunt. Contra, horum
 morborum pure in corpus humanum inserto, var.
 ista aggravis non exinde metuenda. Etiam adhuc
 dicitur, verum pus variolosum vaccae lacte com.
 mixtum, atque in corpus humanum insertum,
 vaccinam solum producere. Academiae Gallicae
 Scientiarum haec experimenta communicata sunt, atque
 in hisce regionibus quaedam ex illis fauiste confecta.
 Horum gestorum veritatem medici illustres pro.
 clarique suo testimonio firmarunt. Ab his veris
 corollarium sequens deducimus - hos singulos
 morbos unum idemque esse, tantos varios aspectus
 ostendentes quantae varietates animalium in
 quibus existant. Habitus proprius corporis,
 sua natura, suis legibus, alicujus morbi quo

afficiatur, eundem Symptomataque mutabit.

Hujus sententiae veritas quoad vaccinae et variolae identitatem, nostra rationi, exemplis vindicatione se commendat. Quod ad alios morbos attinet neque pariter certum neque momentosum est. Ex his observationibus ortus est usus qui in suis beneficiis omnes homines complexus est, scientiae munus pro quo nullam aequalem compensationem recipere possit. Edwardi Jenner, medici conspicui reverendi que laboribus hujus veri confirmationem diffusionemque debemus. In gratia mundi memoria, ejus nomen conservabitur in aeternum.

Morbis vaccinae mitis innocuusque, in sua natura variolae similis consentaneusque, hujus morbi aggressioni plerumque obstat, ejus spoliationes perniciosas cohibendi gratia, a medico adhiberi potest. Quum in corpus humanum vaccinae virus inseritur, haec Symptomata fiunt. Die tertio post ejus introductionem circa punctum cepit inflammatio, crescit gradatim - primo formatur vesicula quae die nono in pustulam maturam convertitur. Hoc

tempore totius corporis commotionis signa apparent,
 febris cum algoribus alternans - glandularum ax-
 illarium tumefactio - inflammationis areola rubra,
 tumorque durus pustulam circumlistens, neque ad
 diem undecimum crescentis, post quem morbus
 gradatim deficit, dieque vigesimo quarto scabies
 separatur. Vaccinatio optime confecta variolae
 aggressione plerumque arceat. Si unquam aggredi-
 atur, a morbo tam innocuus fit nulla infirmitas.
 Secundum aegroti corporis constitutionem, virique
 puritatem ejus securitas certa aut incerta erit. Ab
 his causis oriuntur permultae modificationes muta-
 tivaeque quibus nomen "varioloidea" est. Variolae
 viri inoculatio, corpore recte preparato, quamvis
 olim ubique solita, propositum temerarium
 perniciosumque nunc plerumque rejicitur. Con-
 silium sepiens tam certum quam securum est.
 In unaqueque personâ a puris variolae in-
 sertione, vaccinationis potentia tutelaris probetur
 aut repellatur - Puris vaccine vim puritatemque
 preservandi gratiâ, in vaccam juvenem sanamque

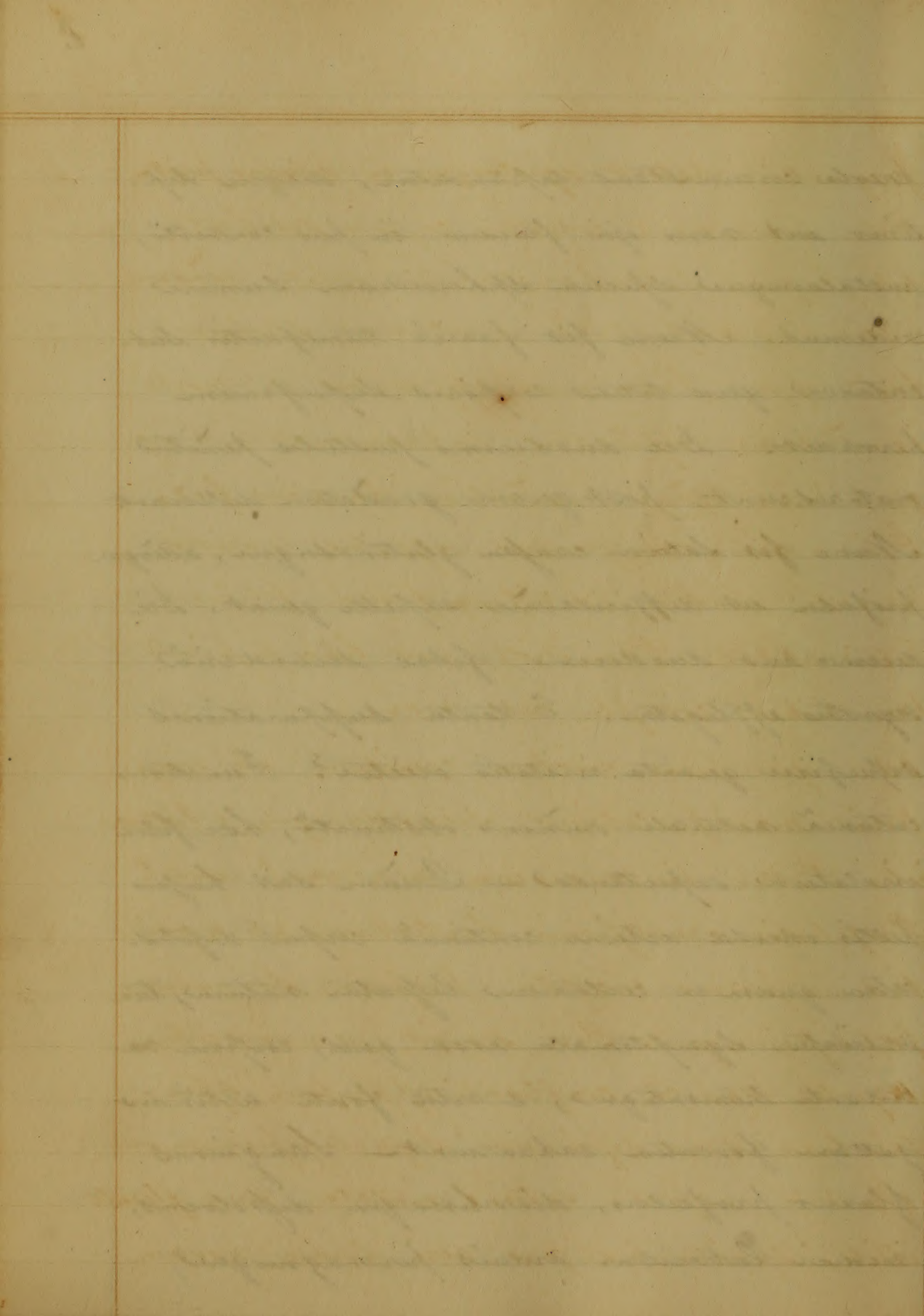
puris variolosi insertione, saepe obtineri oportet.

De Symptomatibus.

Huius morbi formae variae ab ipsius violentiae gradu solum et omnino oriuntur - Cum mitis est, pustulaeque solitariae sunt, Variola distincta nominatur - cum pustulae in commune miscent, tota corporis superficie impletae, confluens. Utraque tamen forma cum altera miscet, perditurque haec distinctio inutilis. Eruptione permultum extensa, irritatione idemque maxima, speciem typhoideam morbus sumere solet, vitam aegroti, aut alvi aut sanguinis profusis profusis corripientibus. A tempore quo corpus viro obicitur ad primorum symptomatum manifestationem interseunt dies ab octo ad quindecim. Languor, inquietudo, frigora quae rubores febriles cito sequuntur, capitis, dorsi, lumborumque dolor, cum pulsu plethorico, gradus incipientis symptomata. Tunc sequuntur nausea, emesis, praesens epigastrii dolor acutus, in febris summae formatione omnia conjuncta - In diaphragmatis inser-

tionis cursu, dolor a pressurâ signum singu-
lare constansque creditur. In totius corporis super-
ficie vehementia ruboris, præsertim in facie.
In hæc sequæ ac in omnibus febris, alvi aut
lucidas aut constrictis fit. Primo alba lingua
crustâque aliquantâ cooperitur. Omnia hæc
symptomata impetu crescunt, comitata plerûmque
tuse, gutturis pectorisque dolore, cum spiritus
magnâ arctatione. Die tertio aut quarto eruptio
fit. Parva puncta rubra circa tempora oraque
primò apparent, et sic deinceps in corporis
locis variis. In horis trigenta sex eruptio
conficitur, fereque omnium dolorum emenda-
tionem affert. Rubra fit lingua, fauciumque
dolor graviter crescit. Sed quoad cetera, cibi
appetentia redit — languor et inquietudo animi
solitis cedunt, mens vigorem recuperat utriusque
specie fit. Morbus interim certamini secundo
quàm primam, duriori et lethaliori se præbet.
Parvum punctum fluido aquoso sensim impletur,
apice parvulum depreßo. Inflammationis

areola circumstantes expanditur, dieque septimo aut nono ejus fluidum in pus convertitur, postquamque speciem spheroidicam sumere videmus. Nunc fit faciei tumefactio subcutanea que totius corporis superficiem pervadit. Die duodecimo pustulæ penitus maturescunt, postquam gradatim desiccant. Nunc fit saliva crassa glutinosaque, adque profusa ut difficillime expelli queat. Die decimo aut duodecimo, febre secundaria egrotus affligitur. Et tanta suppurationis superficiem quanta iritatio orietur? Functionem cutaneam naturali omnino obstructam, hæc febris iritativa expectanda — Quam sub hujus pestis odiosæ actionis continuam corpus deficitur quam in certaminis lapsatur natura, tum oriuntur symptomata nova que, corpore vacillante trementeque, e vitæ fonte ultimas guttas ferventem exhauriunt — Languinis fluxus profusus, diarrhoeaque dissolvens, medicis laboribus arduis permagnisque,



frequentius obstant aegrotusque in diluvio perit-
 Febre secundaria cedente, corpore debilitato
 deperesque, suis functionibus solitis nondum
 restituis, tempestatis varietatum Spolium
 facile fit. Pulmonum apparatus in morbo
 jam dudum implicatus, inflammationis ag-
 gressioni, nunc praesertim obnoxius fit.
 Plura calui in quibus aegrotus, variolae
 periculis evasis, omnibusque finem felicem
 pollicentibus, Pleuritide, aut haec pessima
 Bronchitide corruptus est, vidi.

Odor qui hunc morbum comitatur ab erup-
 tionis manifestatione, secundum que Nathana-
 elis Potter, in medicina academica nostra
 Professoris ornatissimi Sententiam, ab aegri-
 tudinis primo ineptu, propria, singularis,
 foetidissimaque. Qui sensit, reminiscetur.

Aegrotus, variolam confluentem oppressus, spe-
 ctaculum sordidissimum squalidissimumque
 offert — aspectu externo mutato, puer fluente
 illito, Spiritu pestifero aeri suam novam

infectionem perpetuam cedente - effluvis
 amico hostique pariter lethali circumventus,
 talis est qui medici benevolentiam carita-
 temque precatur. Primum aliquando fit, et
 frigoris actionem aut corporis incapacitatem
 eruptionem vix videri aut visam, cito
 retrocedere. Manus pedesque frigidi, corporis
 superficies livida, agustusque frequenter
 stupidas fiunt. viscera interna haec
 oppressis sine celeri auxilio, in mortem exit.
 Hujus morbi speciei communis haec de-
 scriptio consonat; in gradibus variis, variis
 impetu symptomata videntur.

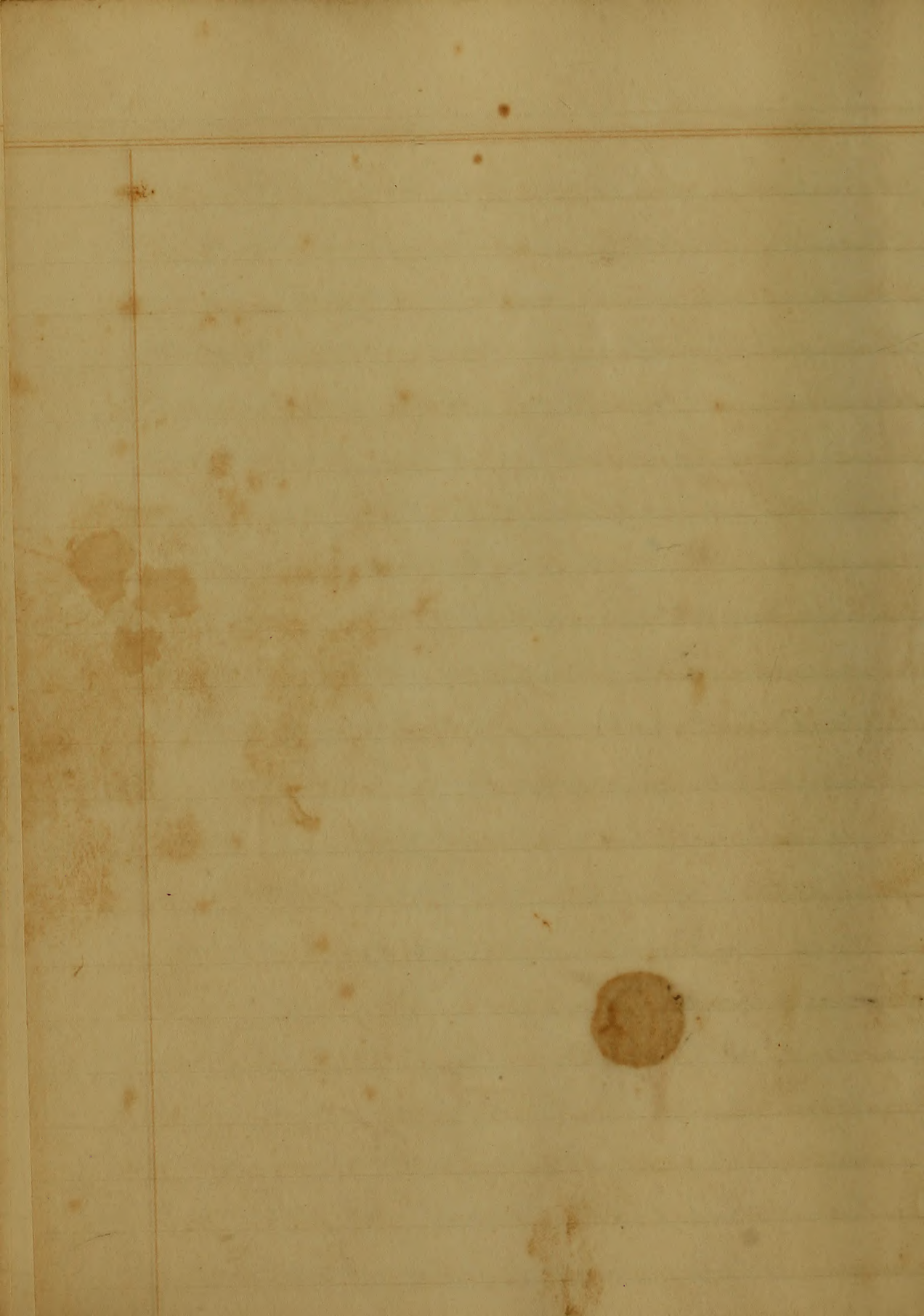
De Pathologia.

Variole virus, credimus, et per nervorum
 terminations sentientes et per sanguinis
 carcum, applicatur, ^{totum} systema nervosum debilitat
 Simul ac potestas nervosa laeditur, omnes
 corporis partes munere solito aeque funguntur,
 cor in suo pulsu vacillat - circa cor vasaque
 magna stagnat sanguis, unde oritur Senens

familiaris epigastrii gravedinis. Haec donec
formetur frigus perfectum, persistent.

Sanguis ad hunc modum congesto, irrita-
tionemque agenti, ^{ad} hoc onus deficiendum cor,
stimulatur - sed haec reactio in salutis
gradu non quiescit: - donec constituatur
febris, pergit, eruptionemque huic morbo propriam
peragitur. In cursu progrepuque omnibus
febris idiopathicis similis est - Systematum
nervosorum, circulantium, secretantiumque
alterna perturbatio. Sed hoc lineamentum
momentosum, propriumque habet, in corpus
virus introductum esse, atque per ejus
incubationis spatium sanguinis mutationes
magnas malasque, systematisque nervosi
depressionem que morbi totam speciem
variant, produxisse. In eruptionis con-
fectione symptomata propria que jam-
pridem descripta sunt, oriuntur. Broussais
reformationis patris Gallici illustris sententia,
ventris intestinorumque inflammationem in

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febris eruptivæ symptomatibus se exhibentem,
 hunc morbum ipse - ab eruptione cutaneâ
 extensâ pro tempore curari, ac eruptione præactâ
 cepatâque, primam inflammationem, febrem
 secundariam formantem redire - Huius doc-
 trine investigando nobis est nullus locus.

Nec questis nec philosophiâ sustineri, nostram
 humilis sententia. Ob ejus notorem solentiamque,
 connexionis inter causam effectumque in hoc
 morbo aspectum simplicem naturalemque
 deservit nunquam possumus.

De ratione Medendi.

In febre eruptivâ medici auxilium plerumque
 sollicitatur. Symptomata quæ si persistentia
 supra dedimus, impetu magno progrediuntur
 aliisque in rebus emissionem sanguinis copiosam
 exigunt. Venesectionem semper impropiam
 perniciosamque, non dicimus. Nequaquam.

Excitationis gradus permagnus aliquando fit,
 qui cerebri destructionem minatur, in quo
 sanguinis emissionem hic exitus solum prohiberi

potest. In variolâ hujusmodi remanesci oportet:
 Febris non medicis vincenda; finem certam produ-
 cturâ ^{est} ~~gratâ~~, hæc finis, eruptionis prospere per-
 actio. Eruptione non prosperâ, quiddam
 viscus intimum morbi spoliium fieri, ægrotumque
 mori, experientia docet. At his causis nullus
 medicus febrem superare conatur; si sanguinem
 detrahat, ad excitationem intemperatam mode-
 randam, eoque eruptionem extensam prohibendam
 in animo est. Hunc morbum pro certo tempore
 durare oportet, nullaque medicinæ potestas
 decurtare potest. Si corporis vigore infirmante
 certaminis ineptu, maximam curam agere o-
 portet, quam ante finem omnes vires vigilanter
^{sunt}
 preservandi. Neque magnum auxilium efficit
 vena secta; post consolationem brevem, cap-
 itis dolor tam nunc quam antea severus
 erit. --- ut omnis irritatio intestinalia
 amoveatur, medicinarum aperientium usu
 laxitas alvi proscaranda. --- Potiones fri-
 gidæ gratæque, sodæ aqua, aqua citrea

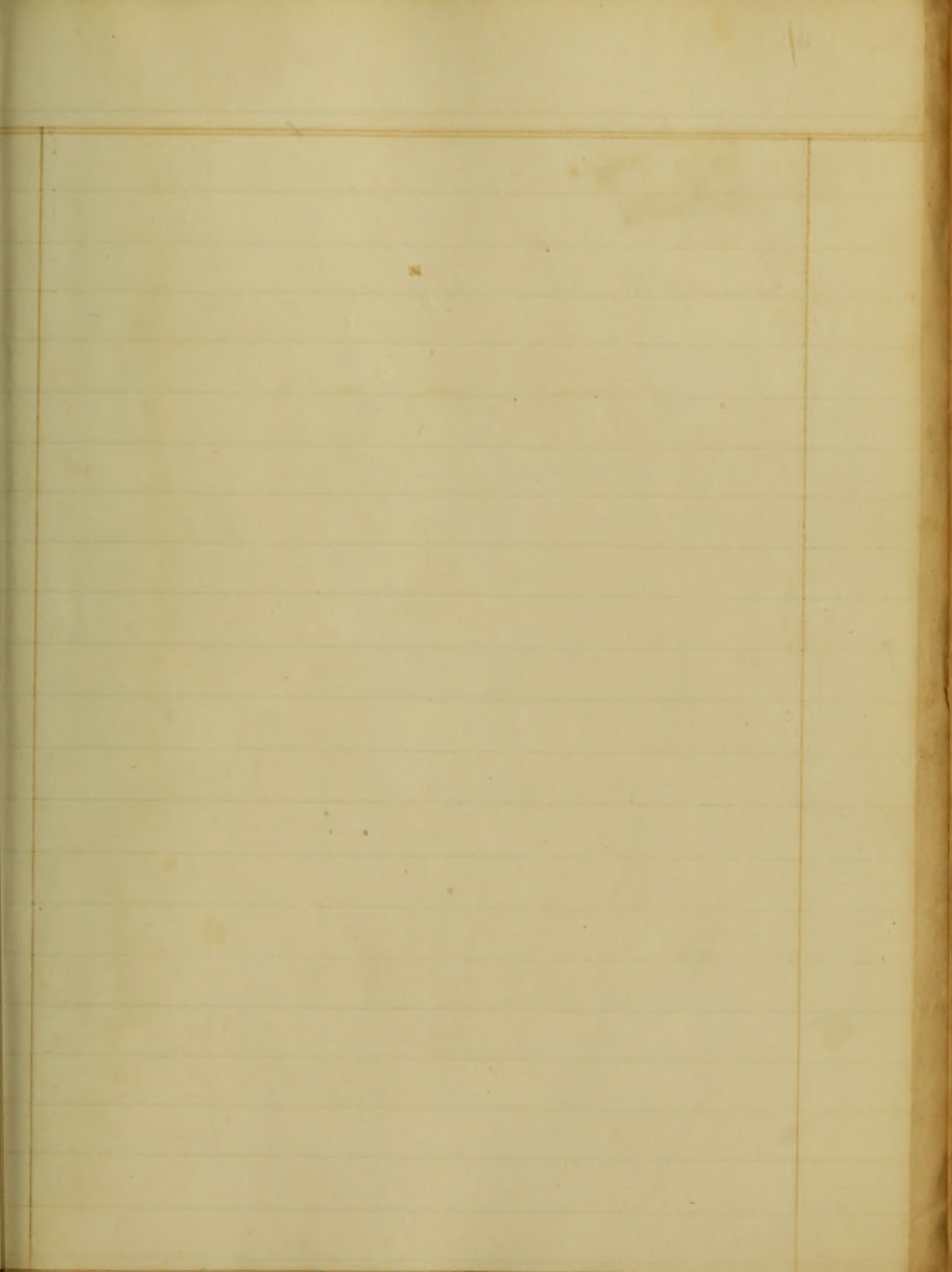
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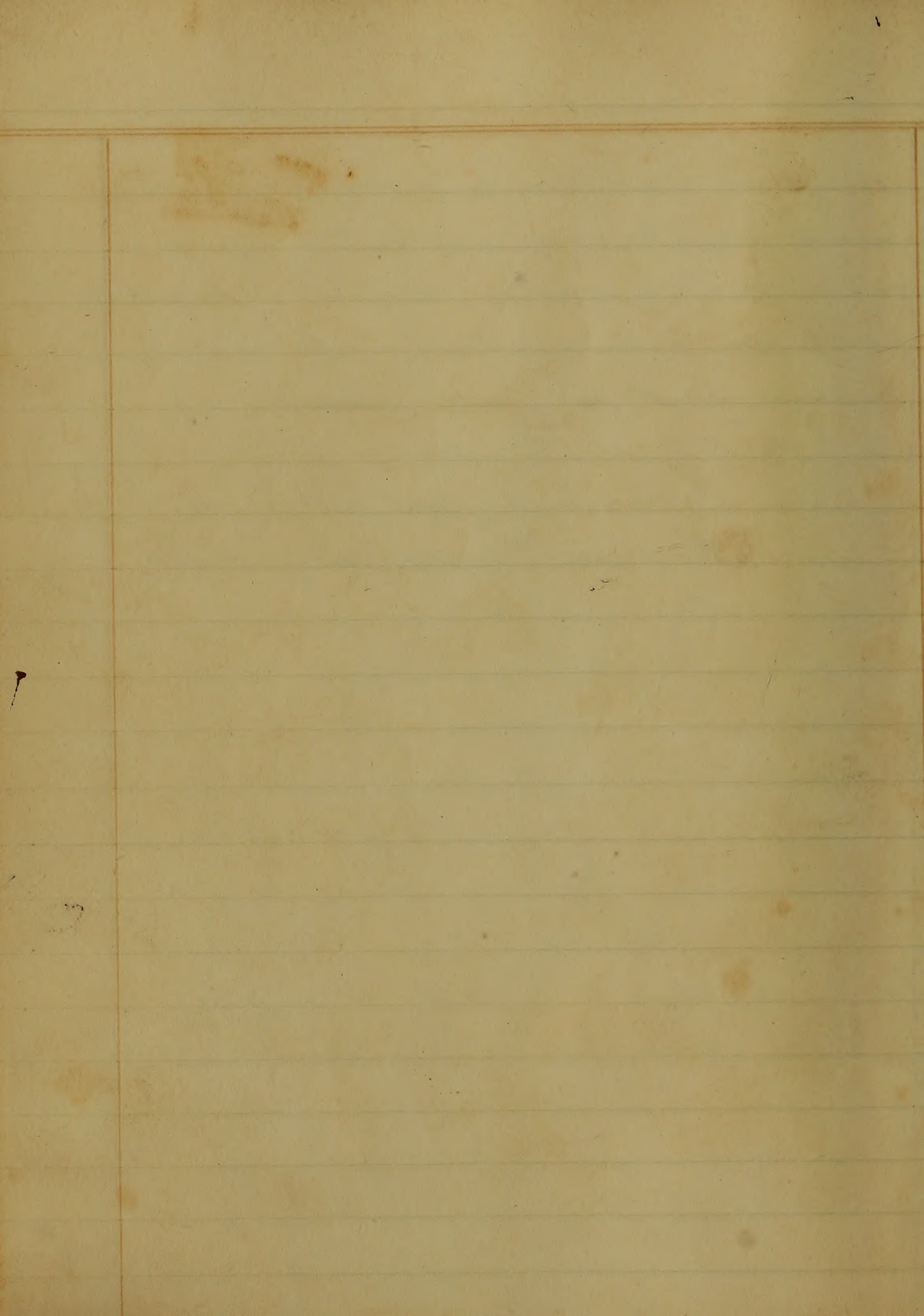
aut potasse supertartratis solutio, aegrotis
 erunt atque lectos atque utiles - Sit cubiculi
 tempestas amena, neque frigida, neque
 callida. Odore insuavi, solutionis sodae
 chloridi evaporatio, aqua quoque tepida frequens
 ablutio, aegroti solamini, jucunditati quoque per-
 multum addent. In febre eruptiva alimenta
 perpanca, perpauperaque; post hoc tempus
 mitia nutriunturque, jus pullinum, oryza,
 etc. Si oriantur symptomata typhoidea,
 in specieque confluenta oriuntur plerumque,
 Quid fieri oportet? Hoc tempore, effectum
 tam faustum felicemque quam stimulantia,
 nullum remedium habere potest. Alimenta
 maxima nutriuntur benèque condita -
 vini ardentis potiones frequentes, constantur
 sed non immodicè administrate. In
 febre secundaria maxima irritatione
 existente, somnium quietem, suavemque
 anodyna procurabunt. - Cubiculi lucis
 exclusio ad prohibendas foveolas cutaneas

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que hujus morbi horridi monumentum eternum
 ponunt, magnopere auxiliabimur. Ab aegroti
 infirmitate ⁱⁿ recuperationis tempore oritur prodeunt
 morti qui secundum sua Symptomata
 Medendi Sunt. — — — — —

"Pallida mors, aegros pulsabat pede
 Pauperum tabernas regumque turres"





1848

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"*Fac autem de quo nunc agimus id ipsum est
quod utile appellatur*".

Cicero.

— "*and what is writ, is writ;
Would it were worthier!*"

Byron.

Dissertatio Medica Inauguralis
de
Natura Chemica et Bili Pathologia,
quam
Nobilissimi admodum Viri, Academiae Marylandicae
Praefecti,
nec non
Amplissimi Senatus Academici,
et
Clarissimae Facultatis Medicae,
Pro Gradu Doctoris
Summisque in Medicina Honoribus ac Privilegiis
Rite et legitime consequendis, examini
Subjicit
Johannes Carolus Nairn. -

Kalendis Februarii

MDCCCXXXV.

Illustribus admodum Viris
In Universitate Marylandiae
Professoribus,
Quos

Non magis summi muneris Medici Honores,
Quam Ingenua Civium Veneratio
Dotes eorum animorum
ac Publicam Fidem, ac Privatam simul
Virtutem admirantium,
Condecorant;
Tenuc hoc opusculum
Summa cum Observantia
Offert
Auctor.

1.
De Natura Chemica et Bili Pathologica.

Primum, de Bilis Secretionis historia, fusi disserere proposueram; me vero, rem tam magni momenti intra limites huiusce dissertationis solitos, vel brevissime tractare non posse, cito reperi. Necepe igitur fuit ut meipsum, ad investigationem minus late patentem, atque huiusmodi operi magis idoneam, cohibeam. Quum autem in plerisque medicis scriptoribus de aspectu morbo Bilis comitante haud raro mentionem fieri, notavi, quae de hac re observarentur medici, colligere atque quantum pro comperto ducuntur explicare, haud inutile aut parvi momenti mihi visum est. - Hac de causa, disquisitionibus physiologicis de ejus secretionem ommissis in rem huiusce tentaminis, Bilis Pathologiam nunc selegi. Itaque de hac re haud satis pro ejus meritis ab medicis scriptoribus exulta, meo ingenio valde diffusus, scripturus sum.

Bilis Pathologia duobus praecipuis modis considerari potest; quorum alter ad notas cujuscunque generis morbosas, quae naturam humoris physicam chemicamque officere observantur; alter ad effectus in corpore his mutationibus morboosis inductos pertinet. Horum priorem seligere visum est, de qua in hac disputatione disseram ideoque ad hanc potissimum animum intendere oportet.

oportet. Pauca vero de hujus humoris natura, in
conditione ejus sanâ, quo aspectus morbidos inter
et sanos, facilius dignoscatur, praefari oportebit.

Bilis Descriptio. Bilis ab ductu hepatico
emissa, quod ad proprietates ejus externas ab illa
in fellis Vesicula repertâ manifeste discrepat.
Altera, quae Bilis hepatica appellatur, tenuis,
sub-flavo colore, odoris expers, atque subamara
est. Altera autem, cui nomen ^{Bilis} cystica, spissior
est et multo magis acris, quoniam partes
ejus aquosae, dum in fellis vesicula stagnat,
absorbentur; atque quidem hanc Bilem in
quantitate satis magna collectam, Chymici atque
Physiologici praecipue investigare soliti fuerunt.
Bilis cystica, dummodo haud morbosa, plerumque
viridi-flavo colore, gravitate ejus aquam superante
(quum pondus specificum sit ad 1.0026) odore haud
acri, atque sapore perquam amaro est. Haec
Bilis viscosa oleosaque est, speciemque praebet
turbidam atque multum commotâ, saponis
instar, cum aqua mixtâ spumat. Acidis atque
Alcohol. aliisque materiis chemicis, quae ejus
principia dejiunt, resolvi potest. Celeberrimus
Thenard qui principia hujusce humoris, modo
ratiocinandi a Verulam proposito, experimen-
tisque ingeniosis detexit, et cui notitiam
naturae suae chemicæ ex magna parte
debimus,

debemus, affirmat, mille et centum partes Bilis
 hujusce generis, ex mille partibus aquae,
 quadraginta duabus albuminis, quadraginta
 una materiae resinosae, ex duabus ad decem
 materiae flavae, ex quinque ad sex Sodae purae,
 atque ex quatuor ad quinque Phosphatis, Muriatis,
 et Sulphatis Sodae, Phosphatis Calcis, et Oxydi
 Ferri constare. Ex quibusdam experimentis anno
 millesimo octingentesimo decimo octavo ab
Chevallier institutis, parvum quoque Picromelitis,
 materiae peculiaris, quae a Thenard in bovis Bile
 reperta fuit, et quam ille chemicus putavit
 materiam esse per quam Bilis resina soluta
 tenetur, videtur contineri. Chevallier hanc
 materiam tantum in hominis Bile detexit, ex
 vesicula felle post mortem recepta; eam vero in
 jecinoris Bile, vel in illa per vomitum rejecta,
 haud deprehendere potuit. Hanc quoque materiam,
 Professor Orfila, in Bile hepaticae existere negat,
 atque verisimile est haud aliter Bilem cysticam
 et hepaticam differre ultra ea quae jam notata
 sunt discrimina, qualia ab conditione magis mi-
 nusve dilata pendent, nisi affirmamus auctore
Gadet aliquid Acidi Hydro-Sulphurici in Bile
 cystica existere, quod non in Bile hepatica
 reperitur. Has sit etiam hic mentionem facere
 de observationibus quibusdam a Mr. Chevreul
 factis

factis ex quibus discimus, illum Chemicum, materiam ab eo Cholesterinam dictam, (de qua postea fusius loquitur) in Bile quorundam hominum, vel vi externa subito interemptorum, vel morbo aliquo mortuorum, reperisse. In quibus omnibus exemplis quantitates variae Acidorum Oleici ac Margarici quoque repertae fuerunt, -

De Causis quae Secinoris Secretionem Afficiunt.

Hepar aequae ac alia organa glandulosa, quod ad ejus munera, rebus quae excitant, conditionibus structuralae morbidis, idiosyncrasia, rebus mechanicis, vel aliis quibus functiones ejus impediuntur affici solet; quapropter manifeste patet, Bilis secretionem ex necessario, quantitate aequae ac qualitate sua, mutationibus variis atque evidentibus, obnoxiam esse.

Hinc fit ut vel nimis parca vel minus solito acris sit, ut in quibusdam alvi astrictae exemplis videri liceat; aut praeter naturam augeri ac nimis acris fieri potest; haud aliter quam in Cholera accidit, aliisque morbis minus vehementibus, quales sunt malum vulgare Biliosum, "Lembarras Gastricque" apud Pathologos Gallicos, Diarrhaea Biliosa, &c; vel Bilis prius impedi potest, quod in morbo Arquato fit, - Hic quoque humor multas mutationes colorem aliasque proprietates afficientes, subit. colore nigro, viridi, subrubro etiamque coloris

coloris expers, vel albumine similis, aquosus, saporis expers, acris vel etiam acidus atque effervescent fit.

De coloris Varietatibus. — Coloris varietates quae vulgo obtinent, ab actione morbida haud plerumque deducamus oportet, neque pro morbi signo haberi debent, quamquam Celsus, Bilem nigram vel viridem enovere, indicium magni momenti periculosumque ducere videtur. Hic color viridis, uti censet Huxham, ex acido in Bile existente, oritur; atque quovis acidi major, secundum illius sententiam, color spissius virens in nigrum vergit. Sydenham contra, eo ratiocinandi modo qui tunc temporis valebat, arguit Bilem porraceam vel viridem ab motibus spirituum irregularibus nimia copia ad jecinoris regionem mentium, originem trahere. Opinio vero a Huxham edita, satis, pro rata parte, justa videtur; conditio autem scientiarum in eo tempore, explanationem rerum quas notavit plenam proferre, vix eum permisit. Acida colorem certe viridem Bili communicant, vel saltem materia hujus fluidi colorans tantum ab eis afficitur, ut ad has actiones subeundas, a quibus mutatio, de qua agimus, originem trahit, aptior redditur. Nonnullae observationes a professoribus Clarissimis Tiedemann et Gmelin Heidelbergensibus factae docent, hanc actionem in conjunctione chemicâ inter principium colorans (quod

(quod flavum naturaliter esse putant) et oxygenium consistere. His philosophis repertum fuit, ut omnia corpora quae facile oxygenium praebent, nimirum Acidum Nitricum, &c. effectus insignes in Bilem ostendant, et ad colorem ejus primo in viridem, postea, additionibus serie continuatis, in caeruleum, purpureum, et rubrum convertendum valeant.

Quod non perfici ab ipso acido potuisse probaverunt, nam Acidum Muriaicum Bile commixtum, quae oclusa fuit ab aëris accessu, nullam mutationem effecit. Sin autem aëri atmosphaerico libere expositum, ^{fuit,} praecipitatum flavum ab Acido demipum cito et semper in colorem viridem transit. Aer ipse, omnino sine Acido ad hanc mutationem efficiendam pollebat, et in omnibus exemplis oxygenium absorberi probatum fuit.

Verisimile igitur videtur has coloris varietates antea descriptas originem ducere ab Acido alicujus generis in Bile existente, ex quo oxygenium ad mutationem praebendam necessarium potest abstrahi; vel, si Acidum hujusmodi nullum reperitur, oxygenium ipsum, aliquo alio modo minus evidente, cum secreto humore effundi. Tam difficile est autem, bene veritatem alicujus opinionis quae ad actiones corporis vivi attinet, demonstrare, ut nequam oportet, utcunque videatur probabilis hanc temere accipere theoriam. Res tamen, quod faustum, ad

9.

ad quam refert haudquaquam est magni momenti.
De effectibus Stimulantibus Inductis.

Effectus stimulantiam in hepar manifeste
patent; praesertim si in animo reputamus modum
in quo Bilis, Cholera Indiae Orientalis hominem
vexante, afficitur. Ardor Solis, vehemens, in ea
regione, fortasse quoque victus et condimentis
quo luxuria orientalis ad cibi appetentiam languidam
reficiendam utitur, hoc viscus ad Bilis secretionem
nimiam stimulat. Hinc fit ut intestina plus
justo onerentur, atque natura visu perquam
vehementi utitur, ad proflevium hujusc humoris
nimis copiosum removendum. Calor etiam, ut
verisimile est, auctam secretionem concitat in
vulgare Diarrhoea Biliosa, quae aestatis finem
versus, vel incunte autumno homines tentat.
Affectus animi quoque, injuriae praesertim capiti
illatae, ususque nimis liberalis liquorum
spirituosorum ad hanc secretionem augendam
magna vi pollent, quod ex observationibus quoti-
dianis fere innumeris satis plane constat.

Mutationes a Structura Morbida. Bilis, hepate
tuberculoso, coloris expers aliquando videtur; hoc quoque
fit in illa ejusdem organi conditione quae Gallicis
scriptoribus "Foie Gras" appellatur, in qua textura totam
mutationem insolitam in materiam adipocerae similem
patitur. Sectione jecinoris hoc morbo laborantis
facta,

factâ, ductus biliares vix deprehenduntur, atque Bilem coloris expertem, aut liquorem viscidum tantum continent. Materia quoque huic similis in fellis vesicula reperitur. Baillie exemplum narrat in quo Bili hunc aspectum præbuit, vix nempe incocti albuminis instar. Scur morbosum atque tuberculis strumosis obiectum fuit. A quibusdam observationibus Andral protatis, videtur Bilem hujus generis in nonnullis aliis hepatis affectionibus quibus affixa sunt nomina generaliter nondum recepta, nempe in Cyrrhosi a Laennec descripta, aliquando reperiendam fuisse.

Hæc Bili coloris expertis ex albumine ^{fere prorsus} ~~atque resina~~ ^{constat} ~~componitur~~, et si glandulae structura non admodum mutatur, ex albumine atque resina componitur.

In morbo regio Bili viscosa, crassa similis pici, longe itaque a specie naturali mutata, haud raro observatur. In vesicula fellis etiam hominis, qui dum hoc morbo laboravit mortuus est, substantiam peculiaris a M. Bizio, Veneto, fere quatuordecim ab hinc annis detecta fuit. Colore viridi erat, pellucida, saporis expertis, unctiosa, et pisces putrescentem olebat. Cum Acido Nitrico mixta, colorem purpureum præbuit, propterquam dotem nomen ei Erythrogenium, ex verbis græcis ἐρυθρός (ruber) et vesicula (vesicula) compositum, datum est. Vesicula fellis quantitatem fluidi peculiaris, Bili sanæ omnino absimilis, præterea continebat.

Credo

Crede nulla alia hujusmodi exempla, praeter haec adhuc tradita esse; nulla saltem alia unquam narrata vidi. Vix itaque restam rara inter conditiones Bilis morbosas recenseri debet. Nichilominus propter naturam ejus notatione dignam, et ob alias causas, mentionem fortasse meruit. —

Bilis vel in sanã conditione vires ad excitandum vatae idoneas habet, quales efficiunt ut si aliquo casu in abdominis cavum effundatur, vel in texturam cellulosaam injiciatur plerumque homo interimatur. Hinc fit ut vulnera felle vesiculae, quorum exempla magni momenti, a Sebaticer in eximio suo opere de Chirurgia tradita sunt, lethalia dicantur. Acrimonia vero hujusce humoris, morbo ut supra diximus, augeri potest. Morgagni affirmat, Bilem infantis qui febre tertiana tentatus, convulsionibus interemptus est, adeo acrem fuisse ut duae columbae quae particula ejus minima sub cute per scalpellum inducta, tactae fuerunt, paucis temporis momentis perierunt. Gallus quoque qui portionem ejus pane mixtam in ventriculum recepit, fere in ipso temporis puncto convulsionibus vehementibus interiit. In Licentia, Bilem admodum acrem esse medici observant. In hoc morbo vires ejus quae excitare solent, adeo augentur ut album valde purgare videantur. In quibusdam canalis intestinalis affectibus exulceratis, copia ultra solitum resinae perquam

perquam amarac in Bile existere videtur. Verisimile est, ut ex hoc conditio intestini morbosa oriatur. Ex hisce jam prolatis de Bilis effusae effectibus conjecturam facere licet, hunc humorem aliquo modo in sanguinis circuitum injectum, similes editurum esse effectus. Hoc vero, ut videtur, non ita se habet. "It produces" dicit auctor Clar: Mason Good, "a sedative rather than a stimulative effect upon the blood and instead of rousing to additional energy, produces weariness and inactivity." - Bilis etiam in exemplis morbi arquati absorpta, effectus in genus nervosum valde insignes, delirium nempe, convulsiones ac coma, aliquando producere videtur. Cujus rei exempla nonnulla a Morgagni traduntur, similia quoque a Doctore Marsh, medico Eblanense, narrata sunt in tractamine ejus eximio de Sctero.

De Proclivitate in Morbos Biliosos. In quibusdam hominibus, jecur munera insolita vi praedita, per totam vitam habere videtur, ideoque morbis biliosis semper obnoxii sunt. "Cependant rien de plus commun" dicit Illust: Bichat "predominance d'une système de la vie organique sur les autres systèmes; tantôt c'est l'appareil vasculaire, tantôt le pulmonaire, et souvent l'ensemble des organes gastriques, le foie surtout, qui sont supérieurs aux autres pour leur action, et qui impriment même par là un caractère particulier

"particulier un temperament de l'individu."

Hinc proclivitate quae habitus biliosus vulgo appellatur, indiciorum injucundorum catenam, nonnullis in corporibus ciborum usu nimis liberali vel aliis causis quae parvi momenti videntur, inductam, ascribere solemus.

De effectibus, Rebus quae Functiones Hepatis impediunt inductis.

Quidem medici veteres, biliosam plethoram quam illi vocant, existere, in qua Bilis, seu ejus elementa, in sanguine abundant, circuituque ejus pervehuntur atque hinc febres aliosque morbos oriri existimarent. Notiones vero illorum hac de re minime accuratae sunt. Bilis autem interdum in sanguine reperitur; neque ideo res ita se habet, neque ideo effectus quos ei hi medici attribuerunt, excitat. Hoc quidem fit, quoties hepar aliquo modo functionibus suis impeditur, ut in morbo arquato, in quo (uti causet Hallerus) Bilis protinus post secretionem ab ductibus extremis in vasa sanguinem vehementia sese refundit, et ab eis evahitur. Omnibus autem in hujusmodi exemplis pro comperto habemus, hunc humorem vel materiam quae ei dat colorem quodammodo in corpus absorberi, ubi cum liquoribus aliis, in quibus per analysin chemicam, detectus fuit, miscetur, atque in organa varia quae

in

in colorem flavum convertitur, auferitur. Hic color flavus ab conditione diluta oritur, in qua materia quae colorem praebet, deponitur. Dicit enim ab experimentis compertum est, colorem viridi-flavum, Bile tantum cum aqua mixta, protinus in flavum purum plus minusve vividum, pro rate parte cuiusque mutari.

Aliquando autem, etiamsi raro, cutis colorem viridem ostendere videtur. "Nous avons vu" dicit Chomel, professor Parisiensis, "la peau offrir une teinte verte tres marquée chez un malade qui paraissait avoir une affection du foie" — quod vero ab illustrissimo Baillie ac aliis quoque observatum fuit. Absorptio Bilis haud raro in Hepatitide et quidem in omni jecinoris morbo evenit, in omnibus quorum necepe est ut a quadam re quae excretionem impedit, oriatur. Inter causas excretionem impediētes concrementa biliaria recte recenseri solent; ad has concreciones investigandas medici assidue atque diligenter sese contulerunt, atque quidem haec calculorum genera, quod ad Bilis Pathologiam attinet, considerare operae pretium est.

De concrementis Biliariis. Concrementa biliaria interdum quam plurima reperiantur. Baillie de fellis vesicula in Museo Hunteriano conservata mentionem facit quae mille hujusce generis

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15.

generis concretionum continebat. Aliud exemplum Doctor Munro, professor Edinburgiensis, proposuit, in quo mille et quingenti horum calculorum fuerunt; atque exemplum tertium magisque insigne a Morgagni profertur, qui tres mille calculos biliares in eadem vesicula collectos reperit.

Magnitudine pisi usque ad ovi columbae variant. Grandiores autem interdum reperiuntur, atque nonnullis in exemplis cavum felleae vesiculae totum implerunt. Unum horum Richter vidit, cuius quidem pondus tres uncias et dimidium aequavit. Haller de calculo loquitur, qui quatuor uncias pondere habuit; atque exemplum huiusmodi a Sarrau narratur, in quo calculus longitudine quatuor pollices manus, tresque ambitu aequavit. Sabatier autem qui hoc exemplum citat, huic fidem adhibendam esse negat.

Morgagni qui de hisce concretionibus fusiùs scripsit, atque fortasse fere omnia, quae adhuc de eorum proprietatibus externis pro comperto habentur, proponit (quanquam accuratius eorum naturam chemicam hodie intelligimus) nonnulla exempla notabilia tradit in quibus calculi huiusce generis permagni reperti fuerunt. Semmerring quoque affirmat, calculum hodie Viennae esse ab ipso deprehensum, cuius diameter longior pollicis manus magnitudinem exaequavit. Exemplum quaedam huiusmodi

hujusmodi ab auctoribus recentioribus in lucem edita fuerunt, ac inter haec Thomas (Londini) exemplum magni momenti praebet, in quo concretio ad unam partem, fere quinque pollices manus ambitu, ad alteram partem tres pollices manus et amplius exaequavit.

Doctor Marcet analysis hujusce calculi instituit. Exemplum quoque ab scriptoribus Gallicis tradita sunt in quibus calculi biliares intra jecinoris materiam ipsam ad ovi gallinae magnitudinem reperti fuerunt, et illic etiam in numero permagno occurrunt. Doctor Potter, in Alma hac Academia illustrissimus professor, calculum in ipsa jecinoris materia reperiisse affirmat, cujus diameter sesquipollicis magnitudinem aequavit. J.G. Walther exemplum mirabile narrat in quo universam hepatis substantiam aliquot millibus lapillosum obsessam vidit.

De compositione chemica. — Calculi biliares,

quod ad elementa prima multum variant, atque hac de causa ab auctoribus ad classes diversas referuntur. De his vero haud quidem opuserit ut in longum disseramus; quoniam proprietates structurae eorum peculiare, quae diversis Chemicis detectae sunt, tantum in animo est describere.

Sourcroy primus in suis investigationibus
notiones

notiones accuratas de harum concretionum natura edidit. In plurimis earum materiam adipocerae admodum similem existere reperit. Nonnullae concretionum ex hac materia sola formatae sunt; aliis aliquid materiae subflavo vel fusco colore insuper additum fuit. Hae observationes postea experimentis a Thénard institutis corroboratae fuerunt; a quo quidem nomen adipocerae, materiae a Fourcroy detectae impositum fuit. Chevreul autem hoc nomen rite imponi posse negat; atque hanc materiam ab adipocera pura, sua natura multum discedere affirmat; quoniam saponem cum alcalinis formare non potest; hac de causa materiam sui generis esse putat; nomenque Cholesterina huic materiae ab illo chemico datum fuit. Nominem ^{vero} prioro medici auctores etiamnum uti solent.

Doctor J. Davy plurimorum biliarium calculorum analysin instituit, atque ejus observationes in lucem a Doctore Munro, professore Edinburgiensi, qui ad hanc investigationem eum hortatus erat, prolatae sunt; quarum compendium praecipuas res, quae medici hac de re compererunt, manifeste exponit. Calculus ab illo chemico experimentis subjectus ex adipocera pura, qualis a Fourcroy descripta fuit, constitit. Aliae harum concretionum

concretionum ex hac adipocera et quantitate
 materiae nigrae cuius natura haud pro comperto
 fuit, constiterunt. Tertium genus calculorum
 pluribus materiis compositum fuit, atque in
 centum partibus, ex octoginta partibus adipo-
 cerae, et tredecim Bilis, duabus materiae fuscae
 quinque aquae constitit; Bilis atque materia
 fusca in medio positae et ab adipocera cir-
 cumdata fuerunt. Analyses quorundam aliorum
 institutae fuerunt, quorum natura perquam
 similis, proportione autem atque ordine partium
 ex quibus constiterunt variantibus. Alii ex Bile,
 materia fusca et aqua tantum formari vide-
 bantur. Forma quoque haud semper eadem
 fuit; alii ovata, cubica, polygonali forma;
 alii sphaerae-forma tubercularesque vel omnino
 globosae fuerunt. In aliis textura folii instar;
 in aliis textura homogenea fuit; atque quidem
 in aliis nucleus erat circa quem partes externae
 collectae fuerunt. Coloris quoque varietates
 ostenderunt. Hic fortasse licet addere ut haec
 concretiones aliquando ex crystallis veris constant.
 In quibusdam exemplis quae vidi, crystalli
 spiculorum forma et quod ad axin concretionis,
 ad perpendicularum posita fuerunt. Haller,
 Semmerring Walther, alique auctores qui ad
 hanc Bilis Pathologiae partem investigandum
 sese

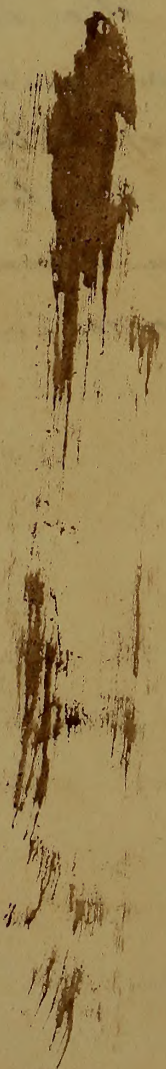
se se dederunt, descriptiones huic valde similes, quantum ad proprietates externas protulerunt. Nulla autem ratio comprobata, de modo in quo haec concretiones, vel in jecinore vel in felle vesicula deponuntur, adhuc ab illis reddita fuit. Observationes vero de Cholesterina in Bile humana existente a Chevreul prolatae, si unquam ab aliis Chemicis recte probatae fuerint, omnibus hujusmodi investigationibus futuris lumen maximum certe allaturae sunt.

Calculi Biliares interdum in cysto vel ductibus irritamentum excitant, interdum tamen nullis indicis sese monstrantibus quam plurimi existunt, atque sectione cadaveris tantum reperiuntur. Aliquando ductum impediunt atque felle vesiculae distendunt. Duo hujusmodi exempla insignia a Morgagni ex Van Swieten citata sunt, in quibus Bilis accumulata atque distentio cysti subsecuta fuit. "Minime" ait "negligendae sunt observationes duae quas nuper apud amplissimum Swietenium legebam, Illustr. Edinburgensium alteram, qui cystum octo libras Bilis continentem, idque in duodecenni puero, deprehenderunt; ipsius alteram, qui in muliere cystum eandem comperit distentam adeo, ut ad os usque Ilium dexterum perveniret." Affirmari potest quasi e contrario, felle vesiculae conditione solita circiter unciam Bilis unam tantum continere

continere et extra jecinoris marginem raro protrudere solere.

Haec mihi praecipuae observa-
tiones, quae ad huc de hac parte historiae
Bilis factae sunt, videntur. Ne diutius
tempus teramus, vel potius ne diutius obtin-
damus aures vestras de mutationibus
quibus Bilis ab morbo obnoxia est, liceat
proponere alias esse quae morbosae haud
considerari possunt, et quae ab aetate hominis
pendere videntur. Sic in foetu, Bilis multo
minus acris et amara, quam aetate magis
profecta, atque proprietates quae Bilis
adulti distinguunt, tantum paulatim ac-
quirit. In foetu circa mensem quartum, felle
vesicula humore mucoso in rubrum vergente
impletur. —

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An
Inaugural Essay
on the
Importance of the Study of Therapeutics
and

Materna Medica
submitted to the Examination of the
Provost, Trustees,

and
Medical Faculty
of the
University of Maryland
for the degree of
Doctor of Medicine

by
John H. Barnett
of
Talbot County

Maryland

1835

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To

Professor Deenlinson of the University of Ma

This Thesis is subscribed,
as a testimony, of the high
regard, entertained for the
powers of his mind, and the
generous sentiments of his heart.

by his sincere friend, and
pupil - John H. Barnard

of
St Michael's
Fallot County M. C.

1.
On the importance of Studying Materia Medica.

Of all the branches of medical science, that are taught in modern schools, none can afford to the enquiring mind of the student, a wider field of useful and necessary investigation than that of Materia Medica. Of all the branches it is perhaps the one least generally understood; and as yet susceptible of the greatest improvement. None can more fully demonstrate the great and indispensable advantage attendant on systematic arrangement. None, convince us more strongly of the truth that confusion is a monster in science. This want of system joined to the great variety of articles contained in the list of Materia Medica may explain partially the want of success that has until lately attended the labors of many illustrious Physicians, whose attentions have mainly been directed to ascertain their effects on the animal economy. Yet nearly all whose attention

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has been directed to these investigations have not exercised an accurate discrimination, but most generally have suffered themselves to be deceived and led into error by not confining their observations to the effects induced on the system when in a state of health; but taking as the constant effect the phenomena which have followed their administrations, and which, were induced merely in consequence of the accidental pathological condition present. ~~Those~~ ^{that} remedies unvariably ~~to~~ induce the same effect must of necessity be administered under precisely the same circumstances. From these circumstances we have had many classes formed; as Diaphoretics, Emmenagogues, antispasmodics, &c. which can only, when administered under proper circumstances, produce their desired effect, and never; with the un-failing phenomena, that attend the ~~exhibi~~ exhibition of Emetics cathartics or Diuretics.

But of late years that accuracy of obser-
 vation necessary to success appears to have
 been adopted by several ^{writers} upon this subject.
 As well as by the present distinguished pro-
 fessor of Materia Medica in this University -
 And we consequently find many ~~abundances~~
 and errors of former authors have been discove-
 red, and rejected. And thus the science of
 Materia Medica has been simplified ~~in a~~
 greater degree - When we are told ^{of} the nu-
 mber of articles comprising the lists of the
 Mat. Med. - their ^{number} ~~&~~ diversity would seem
 to set at nought all attempts at classi-
 fication, and leave us in confusion. But
~~when~~ we are told that all this numerous list
 may with an exception or two be divided,
 into those derived from the vegetable and
 those from the mineral Kingdom. We then
 have two grand heads for arrangement.
 And ~~when~~ we are further told that these
 articles may be further divided from their

But of late years the economy of the
writing necessary to the staff of the
has not been by the ^{inter} of the
the ^{inter} of the present ^{inter} of the
figure of relation between in this country
but we consequently find many ^{inter} of the
and even of former authors have the same
and are ^{inter} of the. And thus the ^{inter} of the
relation between the two ^{inter} of the
great ^{inter} of the - ^{inter} of the
number of articles comprising the ^{inter} of the
that ^{inter} of the ^{inter} of the
to let us ^{inter} of the ^{inter} of the
relation, and even in the ^{inter} of the
the ^{inter} of the ^{inter} of the
^{inter} of the ^{inter} of the
into their ^{inter} of the ^{inter} of the
that from the ^{inter} of the ^{inter} of the
have the ^{inter} of the ^{inter} of the
but ^{inter} of the ^{inter} of the
relation ^{inter} of the ^{inter} of the

effects, that invariably follow when they are
 brought in contact with the living animal
 economy in its healthy state; we again see
 that we make some progress in our attempts—
 at arrangement. And here we consider them,
 under three great distinctions viz. vital
 chemical and mechanical. And by placing
 them, then under these three heads—the subject
 is presented in such a form as will materially
 assist us in our investigations—and if then
 we take a further step—& subdivide each
 of these heads we shall find the first
 viz. the vital has two grand subdivisions—
 excitants & sedatives—the former composed
 of articles increasing action generally locally
 or both—the latter of articles diminishing
 action—directly or indirectly—The vital agents
 may be again further arranged into—Excitants
 profer Tonics antihelminthics astringents Emetics
 Cathartics Emmenagogues abortives Diaphoretics
 Crochims Dialagogues Quinctics Expectorants Torrefacients

and Auellants - But of these we must con-
 temmenagogue Diaphoretics & expectorants
 as not possessed of the same invariable power
 of fulfilling their respective agency. their
 terms indicate as are possessed by the other
 & we can only safely account for their
 moelus Operaucdi by their power to subdue
 the pathological state of the system on which
 depends the suppression of the Catamenia
 of Expectoration & that of the cutaneous exhalation
 whatever that cause may be, giving rise to
 the suppression of these evacuations the
 remedies classed under their respective heads
 can act only in virtue of their excitant red
 ation or other effects, & in this way only can
 we account for the diversity we find
 in these classes - for example, what two
 remedies act more different on the anim-
 al economy than blood letting and
 Carb ammonia and yet we find them
 both ranked under the class of diaphoretics.

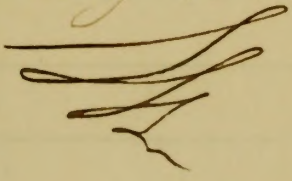
Turning our attention to the class of sedatives,
 we find also a class we can not admit but
 with a like qualification - *vis antispasmodicæ* -
 we pass on & admit as just and proper - sedatives
 proper Narcotics - Refrigerants Nauseants &
 demulcents - but the antispasmodics act
 only in ~~the~~ like manner as the diaphoretica
 expectorants & emmenagogues have been said
 to do - such then are the two vital agents -
 the chemical are only few - antacids and
 alkalis ~~and~~ antitithics & disinfectants -
 the mechanical but one *vis dituentis*.
 To the student, who is investigating this
 branch, the correct knowledge of this classifica-
 tion is invaluable and possessed of some correct
 ideas of their *modus operandi* he may be said
 to have mastered the most essential points
 that can be gained from the study of this
 branch - we will endeavour to explain the
modus operandi as its impression remains
 upon our mind.

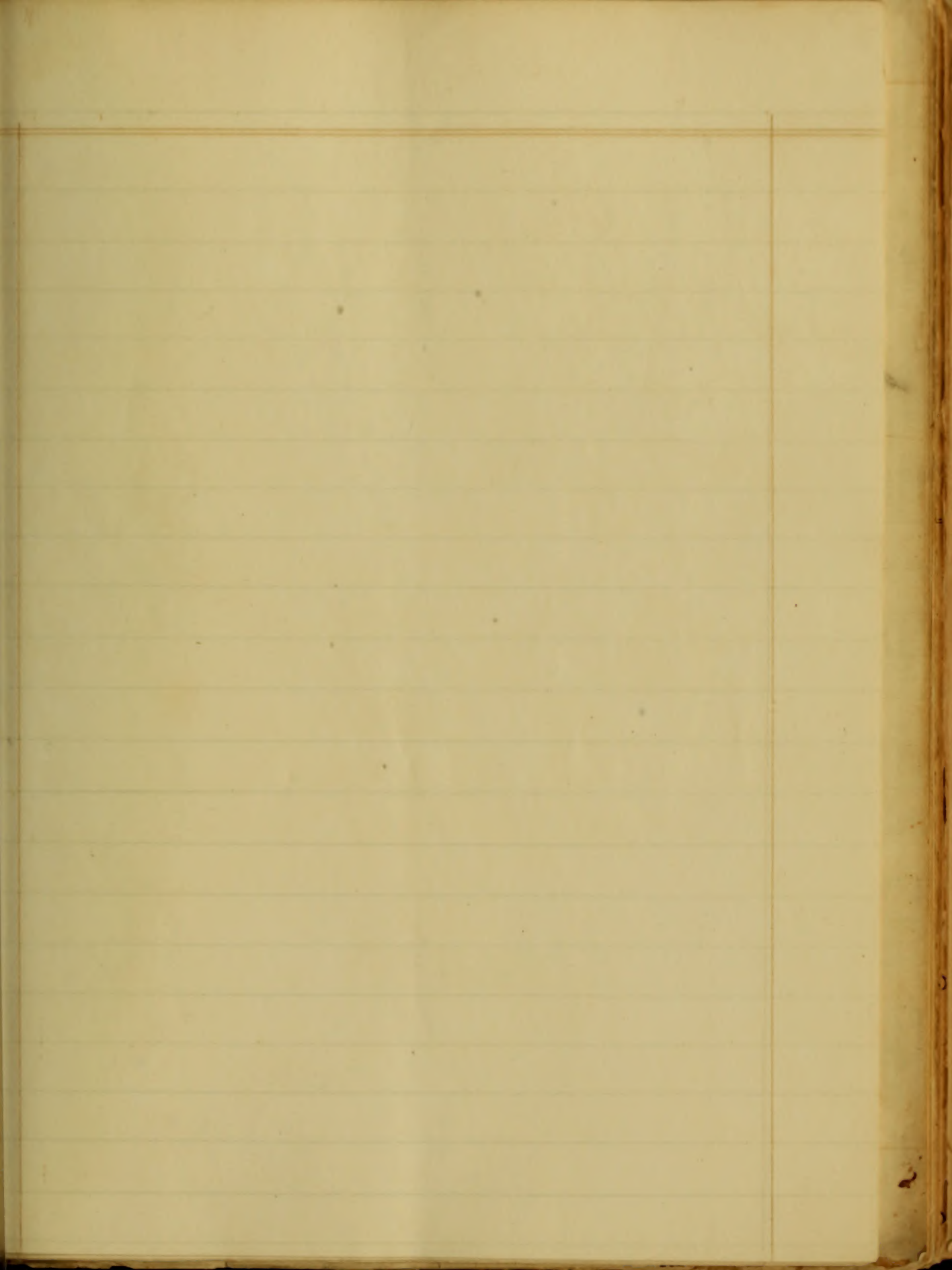
The modus operandi of medicine may be said - to ~~act~~ ^{take place} in five different ways 1st 2^d 3^d 4th 5th. By the direct impression upon the surface to which they are applied as is seen by the action of ~~biting~~ ^{biting} cuts - When taken into the stomach or injected into the rectum - in cases of common diarrhoea this is the simplest mode - 2ndly By an impression on the nerves of the part to which they are applied - the effect being ~~of~~ extended to another part of the system through the nervous agency this is demonstrated ^{by} the emetic effect being produced in children by the application of tobacco leaves steeped in hot water applied to the forehead - 3rdly, They may be conveyed by absorption undecomposed into the system such is the action of Rhubarb since it can easily be detected in the urine a short time after it is taken into the stomach - 4thly They may be decomposed after being taken into the stomach or on entering into the circulation & such

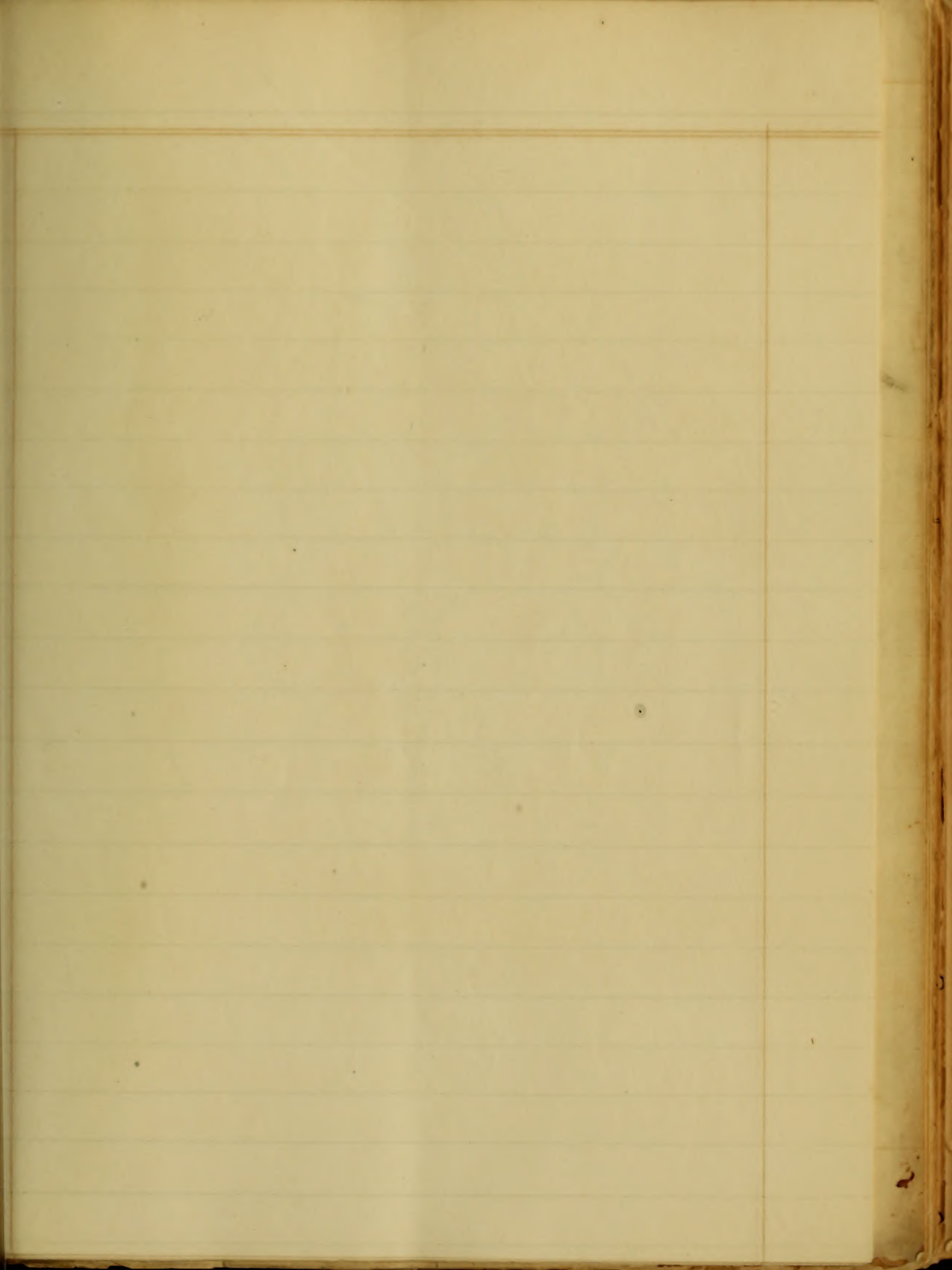
is the case with the nitrate of silver
 which is decomposed by the Hydro chloric
 acid it meets & produces its effects -
 And Lastly they act by counter irritation
 or ^{convulsion reversal} as is seen in the effects of Rubefacients
 blisters &c.

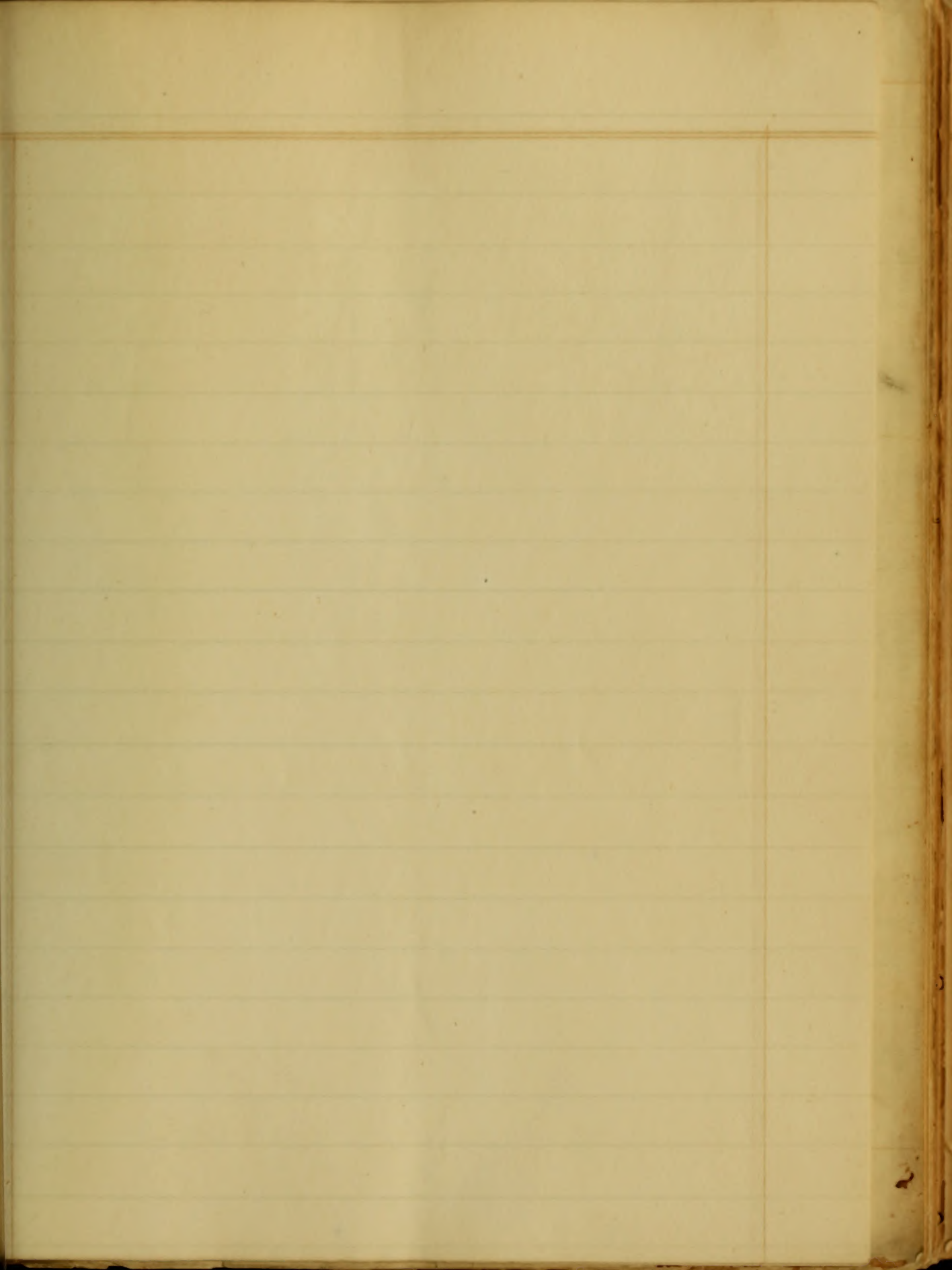
It may be well in conclusion to say that
 the successful candidate should not cease
 from his investigations, in this nor, indeed
 in any of the other branches of the medical science
 merely because of his degree but should
 devote himself to their continued culti-
 vation having in mind, Labor vincit omnia -
 that success can only, thus, attend his
 efforts -

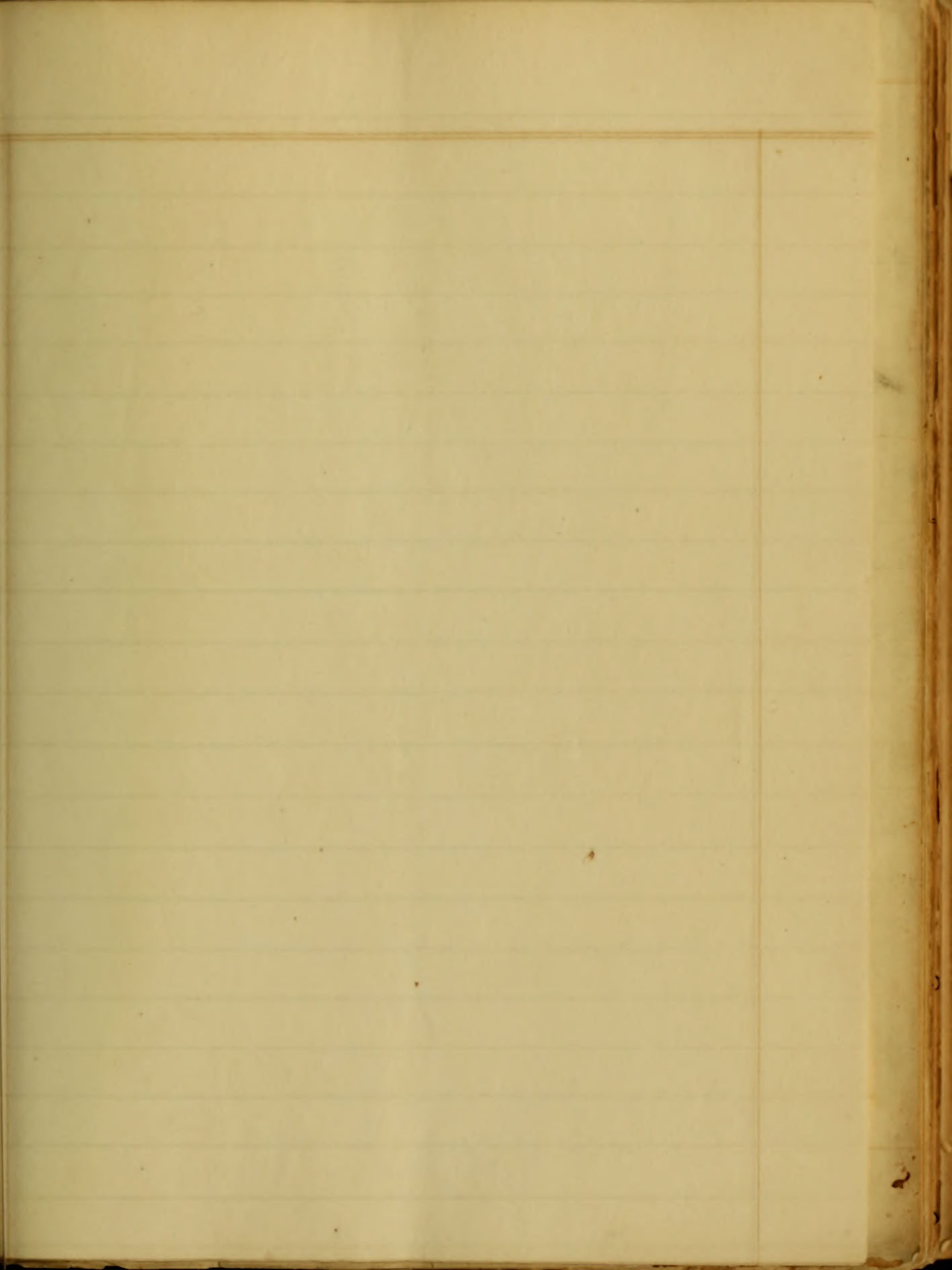
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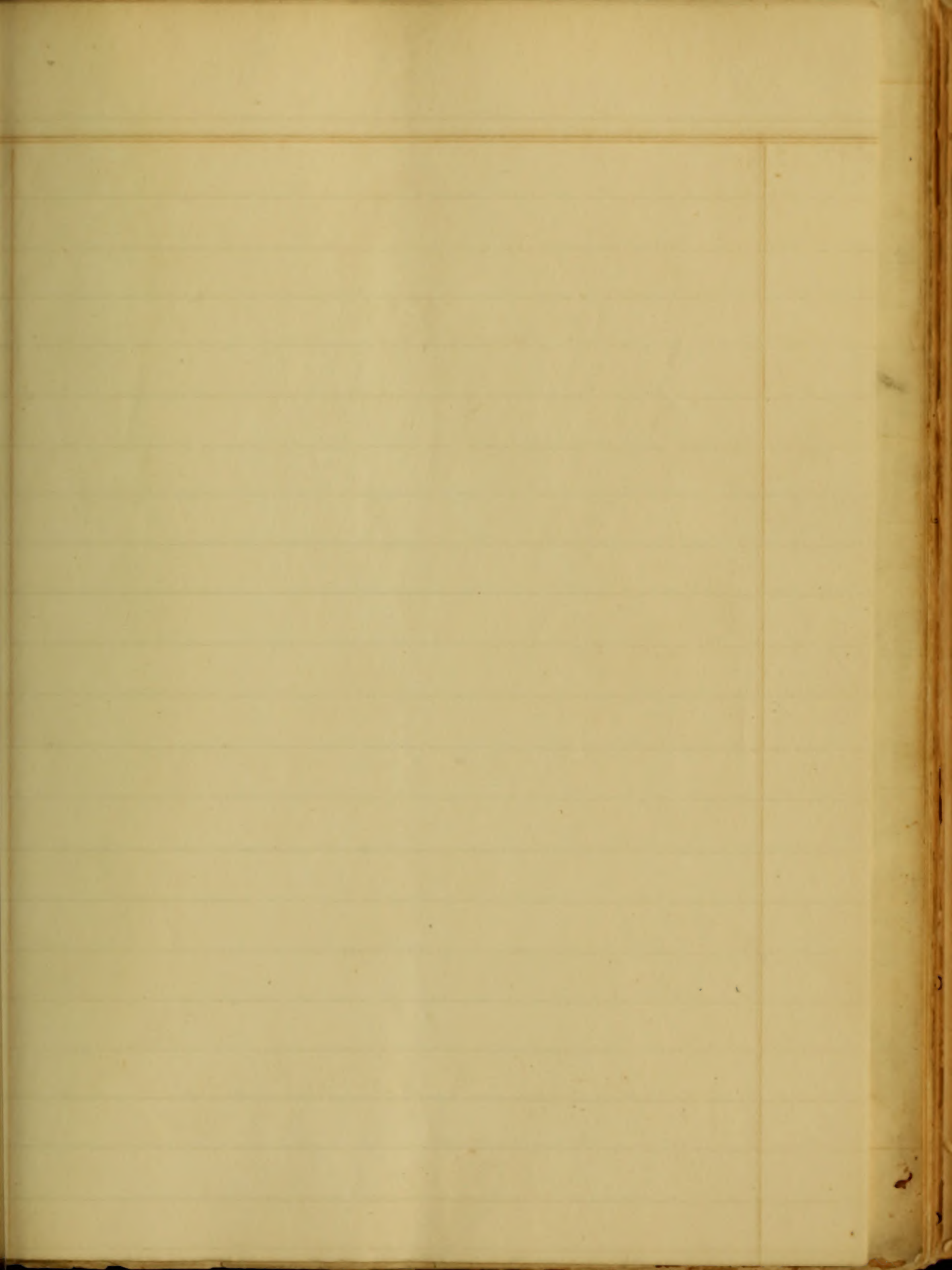


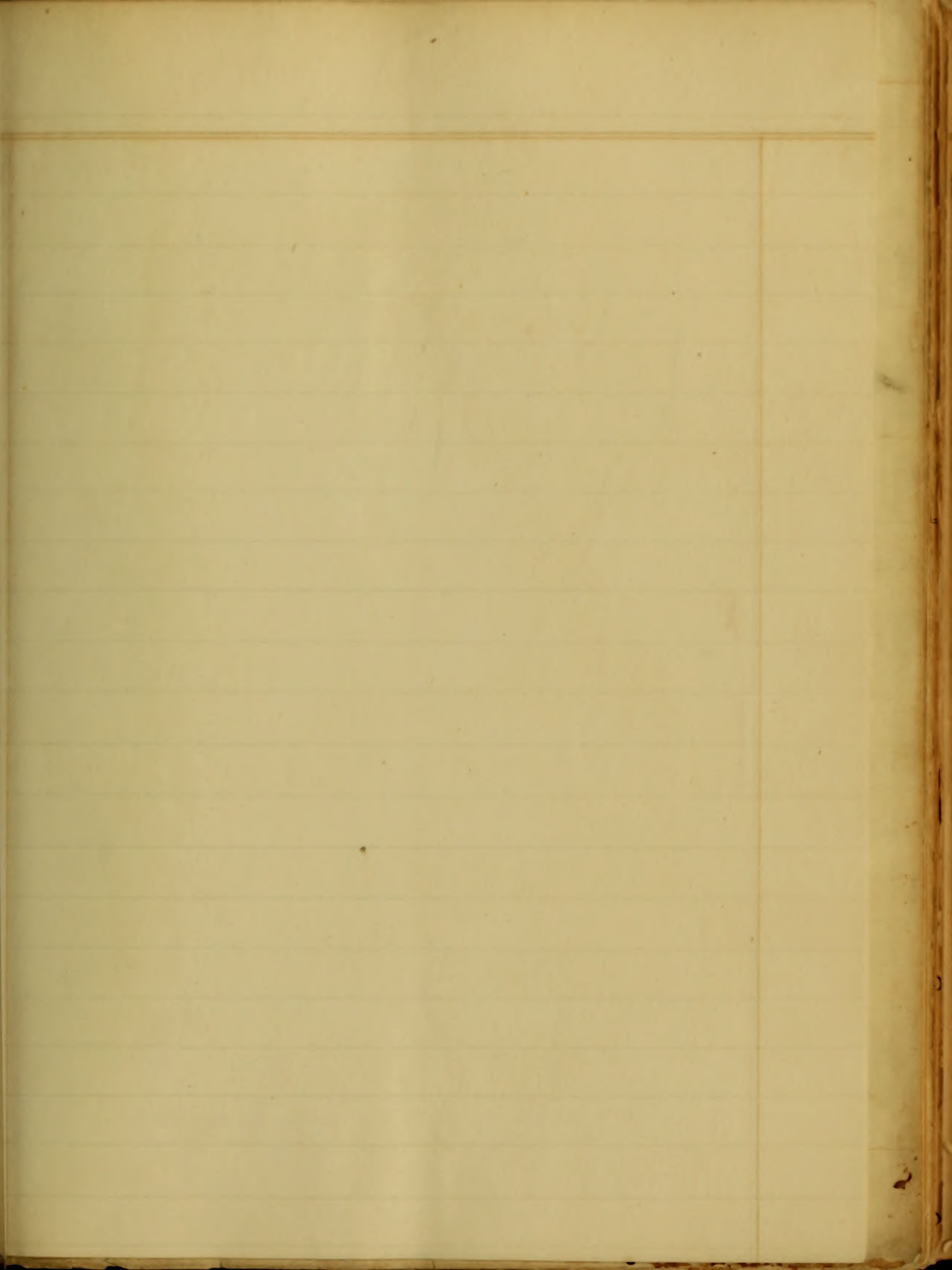


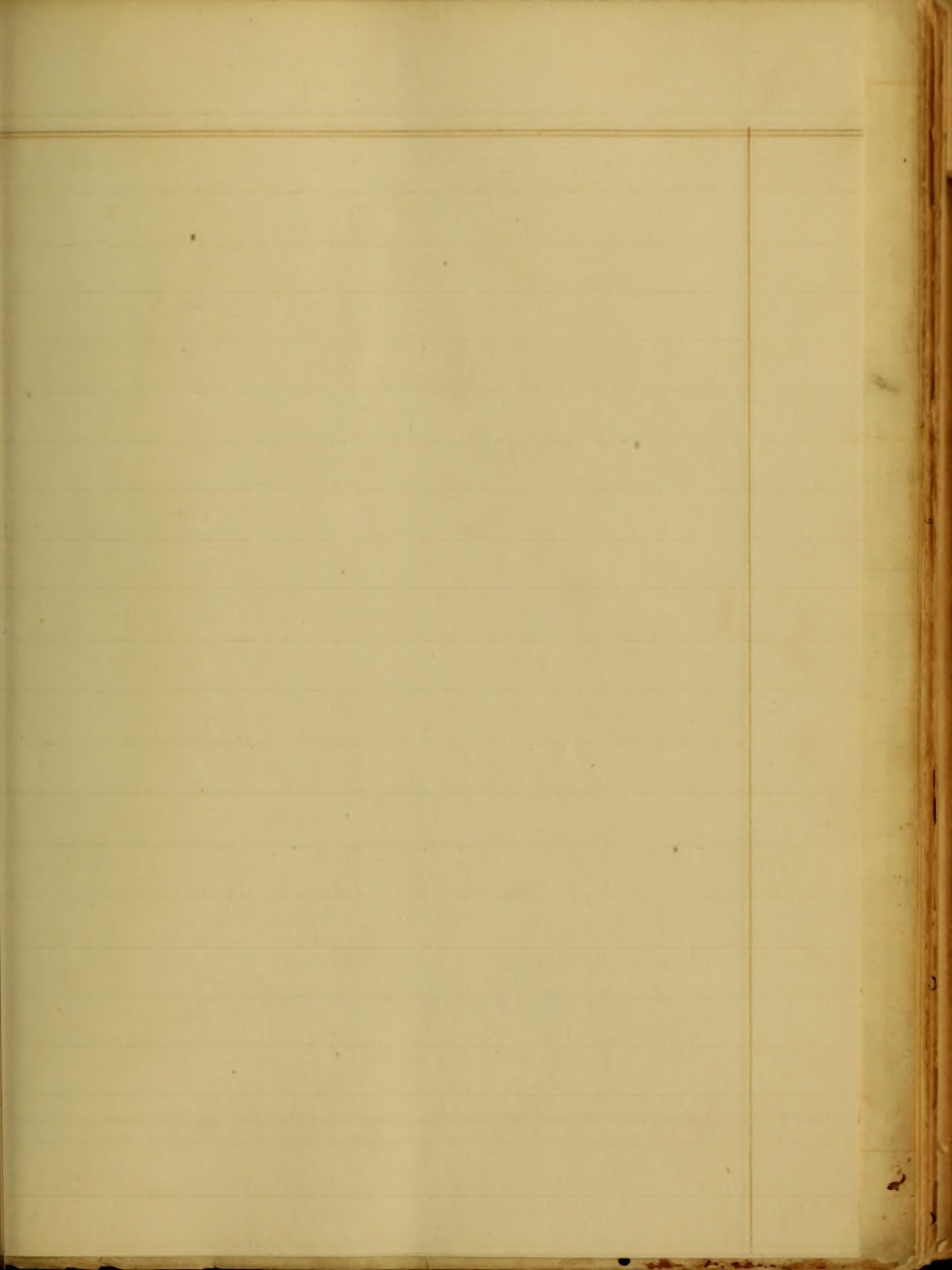


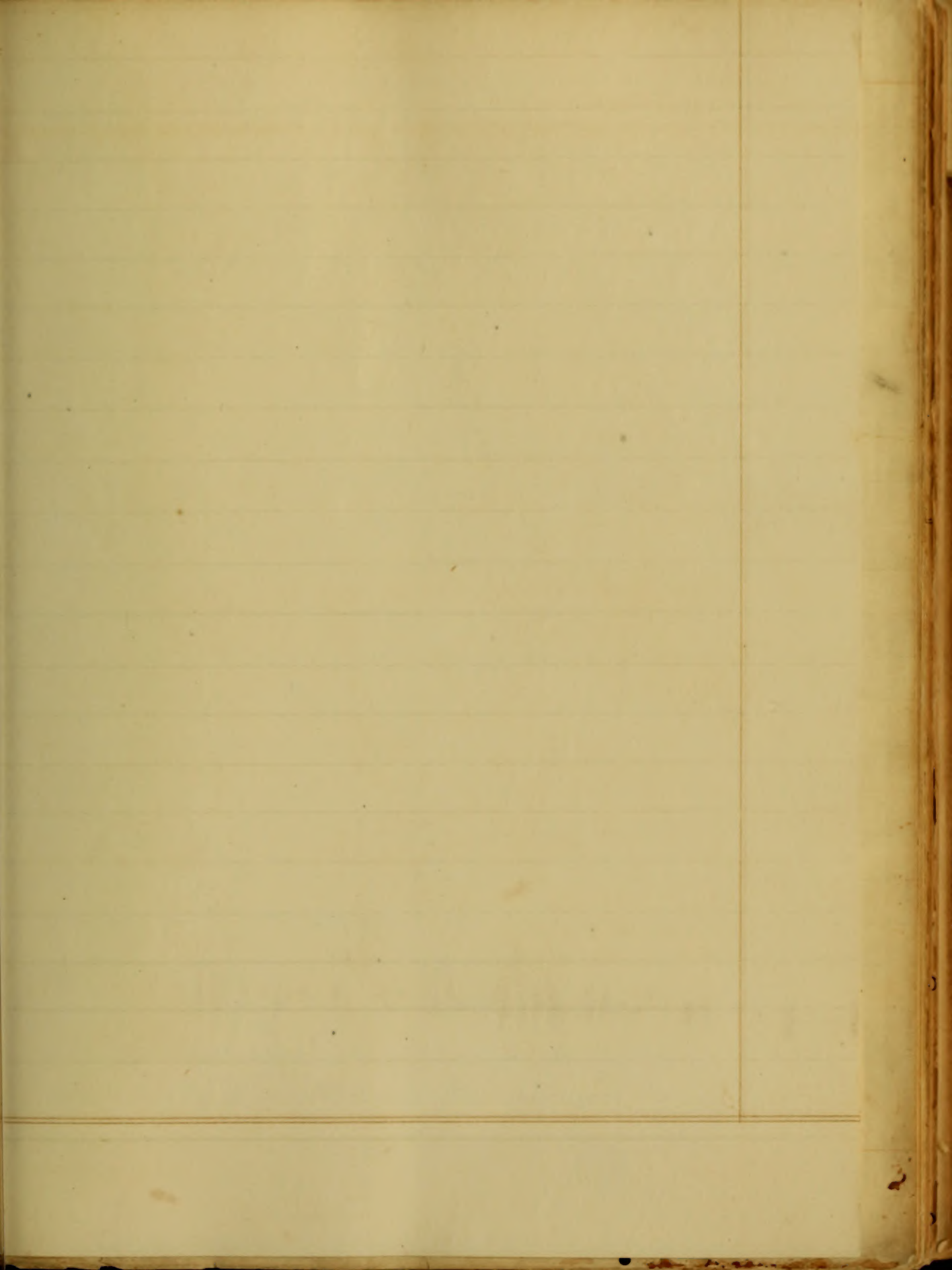


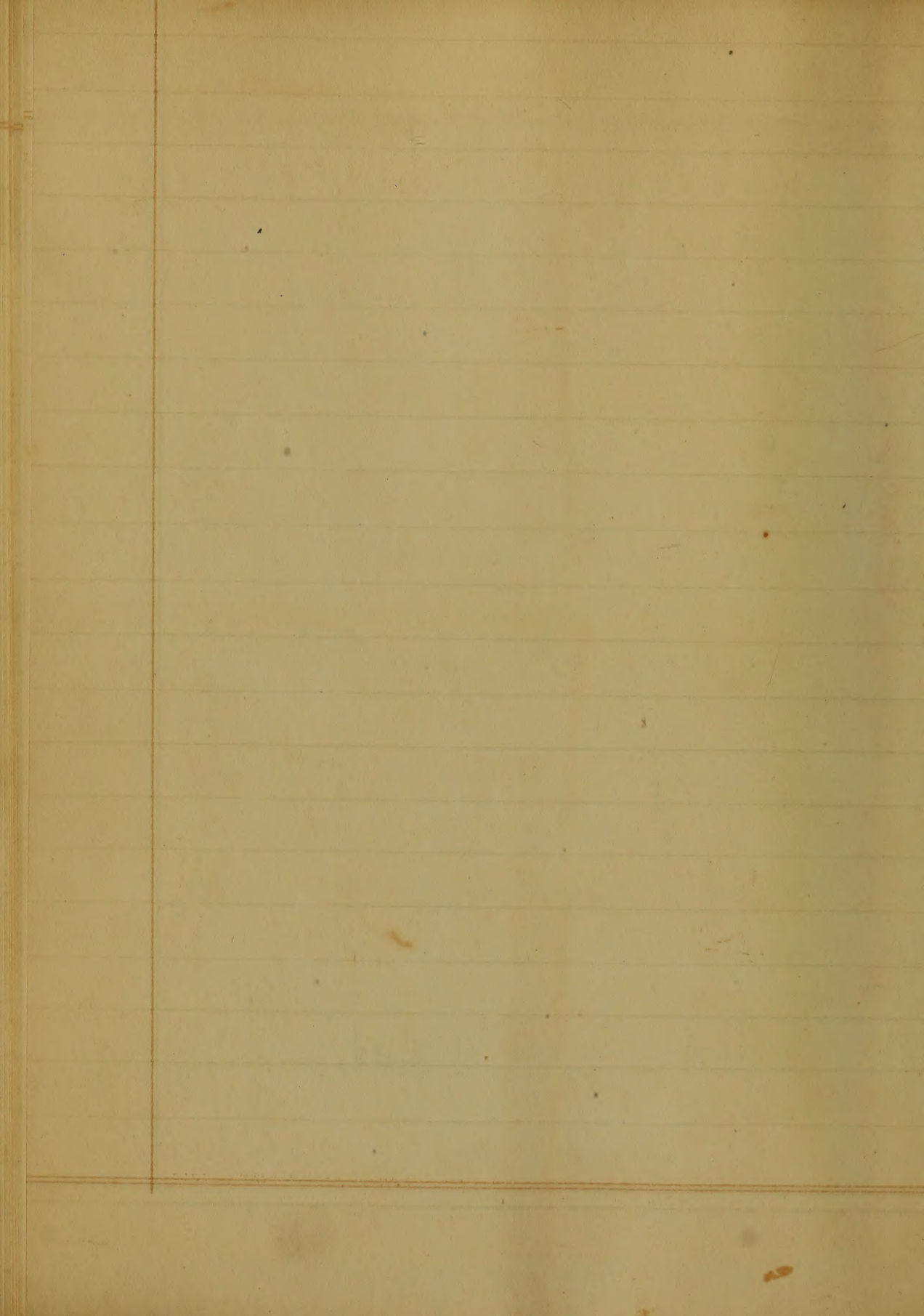












An
Inaugural Dissertation,
Submitted to the Examination
of the Provost, Trustees, and Medical
Faculty of the University of Maryland
For The Degree of
Doctor of Medicine
By John Francis Price, of
Charles County, Maryland

1835

Having observed that the Theses reported in
the Infirmary are read with avidity by the
Students, I will endeavour to make a few
remarks (unacceptable as they may be) to those who may
subsequently come under the fostering of the
University of Maryland.

When I look around upon the various sub-
jects that present themselves to me in making
selection of one or more to build the superstructure
of an inaugural dissertation, there appears to be
no one of more interest to the student than that
of his medical Education:

I do not possess vanity sufficient to flatter
myself that any imagination or idea of the
humble author of these lines can impart a
new principle to the profession, yet the young
student brought up comparatively within the
precincts of College walls, may occasionally
receive a practical suggestion from one
utterly unacquainted with sophism and
book creation.

Most parents in these days to whom
Fortune has extended the welcome hand

of plenty, bring up their children for some one of the learned professions, and not unfrequently a vocation is chosen for master Tyro without once appreciating either his physical or his intellectual capacity. And this is generally done before his mind is sufficiently mature to weigh or to compare things, ^{to make} a choice in a matter so important to his future usefulness, prosperity and happiness in life.

A marked absence of physical ability in some individuals must have been noticed by every observer both in the Schools and in the practical world.

There is in some a total want of that moral courage and self composure, so essentially necessary in operative surgery.

The class of the present winter must have witnessed the withering of some of its members in attending the operations in the Theatre of the Infirmary.

I would suggest that those who sicken

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at the sight of blood, and recoil from
 the imaginary ghosts of a dissecting room,
 are unfit disciples of Aesculapius, and
 little prepared to enter upon the field
 of active practice not knowing at what mo-
 ment the life of a fellow man may depend
 upon their surgical stamina.

These superstitious feelings belong
 to the fair sex, rather than to the man
 in pursuit of science.

I do not make these remarks with
 unkind feelings towards any member
 of the school, well knowing that such
 misfortunes are for the most part
 beyond the control of the individual
 unfortunately possessed of them.

We sometimes meet with students
 of medicine possessing a natural
 mind of no ordinary capacity, but
 who are placed at the pestle and mortar
 of some country practitioner, uninstruc-
 ted in the first principles of an
 education. To such I would say

at the height of the year, and
the consequence of a repetition
are useful remedies of those
little papers to take upon the
of a certain number of times
the life of a patient, many
upon their progress, the
these symptoms, which follow
to the fact, and, rather than
independent of disease.
I do not make these remarks
without feeling towards any
of the school, and I sincerely
wishes to see for the most part
improved in the course of the
improvement of the
The treatment must be
of the disease, and
number of the disease, and
also are placed at the
of some general
states in the first
at least, to be

take the example of the late Professor Smith of Yale College. First of all avail yourselves of the advantages which an Education offers, and then you may with fair hopes and bright prospects resume the road that leads to eminence and distinction in the profession.

But frequently is the question asked by the Student, why all this devotion to the dead languages, to mathematical theorems philosophical experiments, and critical subtleties? In the world no one talks Greek or Latin, nor shall we be called upon to demonstrate the propositions of Euclid. — Be ware, these are the temptations of sloth, the most insidious, persuasive, and dangerous of deceivers.

Remember it is not the design, nor is it within the limits either of a Literary or a Medical institution to teach you all that it behooves

you to learn. Education is not completed in the schools or Universities. Here are inculcated the general principles of the profession derived from the experience and observations of learned men of the past as well as those of the present age.

To feed your ambition with the delusive hope of arriving at anything more than mediocrity without the ground work of a substantial education will be vain and illusive. There can be no student who has not been convinced of the increased tardiness with which he has progressed in prosecuting the study of a profession, in consequence of his inability to translate the Languages from which nearly all the technical words are derived. Having to grovel as it were in the dark over words perfectly incomprehensible and equally discouraging to him.

How different is it with one

possessing a knowledge of the classics,
 so soon as one of those terms is present
 - ted to his view, he immediately traces
 it back to its root, and has at once
 a radical and analytical idea of
 its significations.

In addition to a liberal education,
 a strong, thinking, and discriminating
 mind is of the highest importance.

Yet it is in some cases so trammelled and
 so much restricted by dogmas and
 settled notions, that young men are
 seldom so rash (as it is termed) to venture
 out of the pale of a certain old roman
 like practice, imbibed by them at the
 office of quackery and empiricism.

I mean there are some so averted in this, or
 that mode of prescribing, that they seldom or
 never call upon their own reasoning faculties
 to sift and discriminate ^{the principles} on which they
 act; "Finding it easier to prescribe than
 to think."

When occasionally the labour of research

bring to light an improvement in the pages
 of medical history, there are some whose
 narrowness of mind prompts them to look
 upon every thing of the kind as an innova-
 tion upon good old precepts, and unfit to
 be received into the hands of the healing
 art.

It is customary generally for a student
 to read two or three years in an office
 before attending lectures, but my impres-
 sion is, he should enter the dissecting
 room as soon as he has read Osteology,
 and there remain until he becomes an
 anatomist. It also appears decidedly better
 for a student to attend a course of
 Lectures at the onset of his professional
 pursuit; this gives him an idea of the
 manner in which medicine is taught,
 and he can then read with infinitely
 more interest as well as with more
 benefit to himself.

We occasionally meet with some
 individuals who are more nice than

wise; they will spend an hour or two
 in handling and commenting upon
 an anonymous fibre of the human
 body, or in "plunging the scalpel into
 intervertebral cartilages," to see how
 often the elasticity of the part will
 cast it forth. — This sort of sport
 may do for children but ill fits
 a youth aspiring to the ^{road} of
 distinction. — We should endeavour
 to grasp the great leading features, fundamen-
 mental truths, and first-principles from
 which others are deduced. After this shall
 have been accomplished, we may
 with some degree of propriety give atten-
 tion to anomalisms and freaks of
 nature.

That there is a disparity in the intellect of
 different individuals, seems now to
 be pretty generally admitted. But may
 we not suggest that the chief natural super-
 iority manifested by the favoured few, over
 their competitors in the intellectual conflict, is

is to be found in the facility with which their attention is directed and confined to its proper subject. — A few moments of this concentrated, and riveted attention is worth days and weeks of vague and interrupted reading.

There are certain members of the human family, nay, even of the profession, so vain and light headed, that they think the degree of Doctor of Medicine bestows on them distinctions, and entitles them to the respect of the community. — But the Merciful gentleman in a land of equal rights and equal privileges, knows that worth and merit make the man, but merit of ~~them~~ the follows

Consequently he cultivates singleness of purpose, with an eye steadfast on Virtue, whose beacon ever leads him to the shrine of her sanctuary.

As a general rule a favoured few only are calculated to flourish in more than one profession. Let the Warrior sigh for the field of glory, and the

pitiful politicians thirst for bustle and
 turmoil, let the noisy multitude hang
 around you to become a candidate for
 their favour; Yet listen not to the Siren
 song of human flattery, or the fawning
 note of sycophancy.

"Let moral courage close your ears
 against the impressions of these sounds"
 so insidious and fatal to many, when
 first entering upon the theatre of professional
 life.

When you shall have gone forth "with
 blushing honours thick upon you"; when
 you shall have launched your frail
 bark on the wide world's surface,
 when the relationship that now exists
 between you and the professors shall
 have been changed, when you shall
 have ushered from the threshold of
 your Alma Mater; Remember the
 perfect gentleman should mark
 the footsteps of your profession.

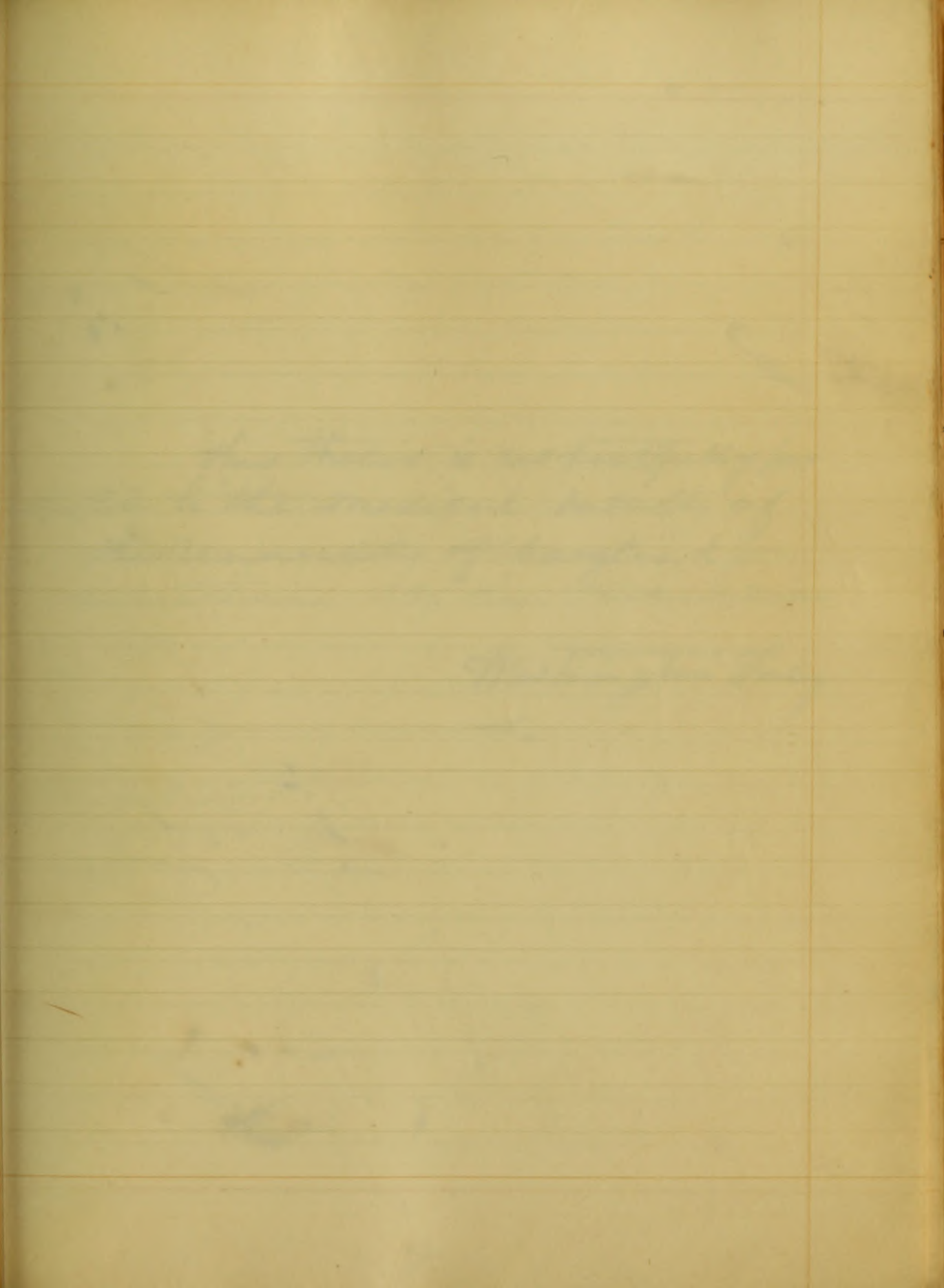
Extend to the poor the welcome

man of Charity; and be ever mindful
that he who giveth can as easily
take even that which he hath given
and leave you poor indeed.

The Author.

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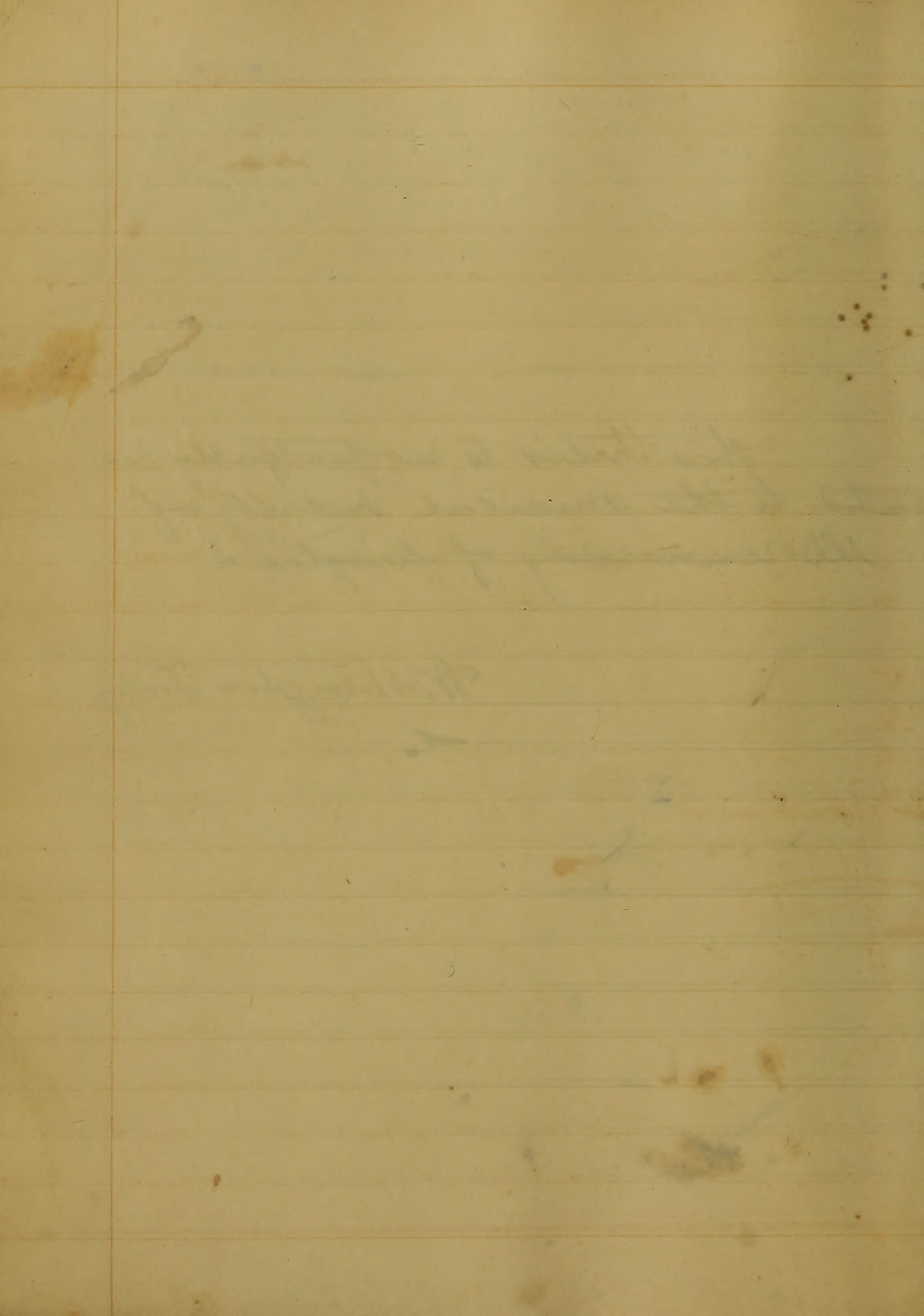
The ...



This thesis is respectfully pre-
sented to the medical faculty of
the University of Maryland for
indication by their student

Washington Loring

1835



This thesis is respectfully pre-
sented to the Medical Faculty of
the University of Maryland for
inspection. By their Obedient Servant

Washington Finley

of
2. Third
Maryland
2nd February
1835

Intermittent Fever

This is a disease that shows itself in almost every part of our country; and notwithstanding its frequent appearance there is perhaps no disease which is less understood, or which, perhaps owing to the many varieties and forms under which it is presented has rendered so often fruitless the attempts of the medical practitioner. It is most generally ushered in by a chill of which the individual is generally made aware of, by frequent yawning, stretching, and a sense of lassitude and weariness, and aching pains in the loins and limbs. But owing, as Professor Thomsen, to the powerful action of the cause in weakening the brain and nervous system; a chill is not always present, or if be its action is so slight that it is not perceptible. A chill is generally marked by the patient,

experiencing slight and transient
 sensations of cold along the back,
~~he~~ has a great disposition to yawn
 and to change his position.
 The extremities lose their natu-
 ral temperature and ~~are~~ slight-
 ly benumbed; his ideas flow with
 unusual rapidity through his mind;
 and generally shews a great irri-
 tability of temper, or *taciturnitas*
lenitas. The chilliness with more
 or less rapidity extends itself over
 the whole surface. The skin assumes
 a pallid hue and is contracted and
 rough; the pulse becomes, small,
 contracted, frequent and firm.
 It trembly now commences, general-
 ly at first about the jaw, and
 very quickly over the whole body.
 It is sometimes so violent that the
 patient appears to be in a parox-
 ysm of convulsions, and frequent-
 ly leaves him in a very exhausted
 state. The breathing is hurried and

referring to light and darkness
 variations of cold during the day
 the heat a great difference
 the sun to change in position
 the sun's rays in the air
 but temperature and light
 by themselves; but light
 natural capacity to see things;
 and generally light a great air
 ability of paper or to other
 things. The children with some
 a life capacity to see that
 the world has seen. The sun
 a ball of fire and is connected
 with the earth by a cord
 connected, separate and firm.
 of several thousand miles
 at first about the sun and
 very peculiar over the surface
 of the planet to be in a form
 of communication, and present
 to us in an easy manner
 that the light is from the

oppressed; and a painful constriction
 is felt across the breast; there is some
 times great confusion of mind and in
 some a slight degree of delirium.
 Vomiting is not infrequent and is often
 of a bilious character. The patient suf-
 fers extremely in consequence of the
 very urgent thirst. The duration of
 this stage is various, but generally lasts
 two or three hours. Transient flushes
 of heat pass over the body, the chilli-
 ness rapidly subsides and the sense of
 heat increasing obtains the entire ascenden-
 cy. This which is called the hot stage,
 is distinguished by a full and flushed
 countenance; an extremely hot and dry
 state of the skin, great thirst and
 dryness of the fauces; the powers of
 the mind are greatly exalted; and ~~with~~
 a full, strong, and frequent pulse.
 The respiration is much less oppressed
 than in the former stage, although
 it is much more irregular than natu-
 ral. The patient suffers great uneasiness

up about the forehead, and in the
 back and extremities; a slight delirium
 - an not un frequently occurs at this stage
 subsides; the urine is discharged in small
 quantities, and presents a deep coloured ap-
 pearance without sediment. This con-
 tinues much longer than former stage,
 and is finally succeeded by the sweating
 stage. This stage is manifested by an
 evident amelioration of all the symptoms.
 The perspiration generally makes its first
 appearance about the head and breast,
 and is gradually diffused over the whole
 surface. The pulse loses its frequency
 and hardness but not its pulseness. The
 breathing assumes its natural freedom; the
 unnatural heat of the body rapidly
 subsides; the urinary discharge al-
 though very high coloured throws
 down a copious sediment. These
 are followed by a state of convalescence
 or *Spysxia*. Although during the
 intermission there is no febrile ^{symptoms} mani-
 fest, yet the patient in most cases

fuls debilitated with a loss of appetite. yet some do not appear to be affected at all from any inconvenience whatever, but pursue their regular avocations. ~~Intermittents~~

Intermittents occur almost under every variety of complication, but I shall not notice them in every anomalous form. The following which may be called the most common and important varieties, it will be proper and necessary to mention viz: Inflammatory, congestive, gastric, and Malignant—intermittents all of which require some variation of treatment. Miasme is looked upon most generally as being the sole cause of intermitting fever; but some authors have noticed, other causes, such as worms, or any cause that gives rise to intestinal irritation; the drying up of ulcers, and suppressed hæmorrhoidal discharges. In reference to the proximate cause and period

icity of intermitting fever, there has been many ingenious conjectures and hypothetical speculations. The location of it in the stomach and intestinal canal is a very favorite opinion of Broussais, and his followers. Others think that the predisposing cause is directed to the brain through the pulmonary nerves, and thence throughout the whole nervous system, partially destroying the whole sympathetic connections.

The treatment of this disease must be noticed under two different heads, that during the paroxysm, and during the intermission. Intermitents of the mildest form and where the patient is otherwise sufficiently strong, it will be unnecessary generally to employ any remedial agent during the paroxysm.

It is proper as the thirst is very urgent in the cold stage that bland and warm drinks should be allowed. But not such as are of a directly stoma-

2
This is a copy of a letter written by
the Board of Directors of the
College of Physicians and Surgeons
of the City of New York, in
response to a resolution passed by
the Board of Regents of the
University of the State of New York,
on the 21st day of February, 1862,
relating to the admission of
women to the medical profession.
The letter contains the following
provisions: That the Board of
Directors do hereby certify that
the Board of Regents of the
University of the State of New York,
in their resolution of the 21st day
of February, 1862, have not
violated the provisions of the
Act of the Legislature of the State
of New York, in relation to the
admission of women to the
medical profession, and that
the Board of Directors do hereby
certify that the Board of Regents
of the University of the State
of New York, in their resolution
of the 21st day of February, 1862,
have not violated the provisions
of the Act of the Legislature of
the State of New York, in relation
to the admission of women to the
medical profession.

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It is proper as the thirst is very urgent in the cold stage that bland and warm drinks should be allowed. But not such as are of a directly stimu-

2

[Faint, illegible handwriting on lined paper]

7

lating character, nor should he be oppressed by a great quantity of clothing, as is generally the practice, supposing that it lessens the feeling of chilliness, for it does not appear to have much beneficial influence over the chill, but is very apt to aggravate the succeeding stage. It is however necessary when the patient is weak and debilitated to use stimulants both externally & internally, as the powers of the individual would be inadequate to develop the hot stage. A great many agents have been employed in the cold stage for the purpose of stopping the chill. Emetics have been employed with advantage in many cases at the commencement of the chill. In debilitated individuals, and when the system is much relaxed a full dose of opium if given a short time before the attack will have a very good effect. Many other remedies

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have been employed, but within
 the last few years, the attention of
 physicians have been drawn to ^{the} use
 of bloodletting as one of the most im-
 portant indications in the cure of
 of this class. It is the opinion of Pro-
 fessor Potter, that if the patient is
 strong and vigorous in constitution,
 and complains of pain in the head
 and back, with a protracted chill,
 and a struggling pulse, it is as much
 the duty of ^{the} practitioner to employ
 venesection, as it would be in apo-
 plexy. A check will be put to the
 chill, you remove the congestion
 by giving activity to the capillary cir-
 culation, and without the reaction
 will be much shortened, and rendered
 lighter? In the hot stage it will
 be frequently necessary to employ blood
 letting as the most efficient means,
 to lessen the febrile excitement.
 If the skin be very hot and dry, with
 a full and vigorous pulse, drinks of

a cool and acidulated character may be employed, in some cases it will be necessary to give refrigerants such as nitre, antimonials, and the saline effervescent draught. Cold water in many cases is an excellent refrigerant.

If there be puking or purging either in the cold or hot stage, it will be advisable to administer opiates. During the sweating stage you may give tepid drinks of a bland character. During the intermission you may expect to have the most decided impression upon the individual labouring under this disease, if you resort to the necessary remedies. If your patient be labouring under the inflammatory modification, it would be necessary to make use of the antiphlogistic means, before using the bark and other stimulating agents. In the malignant and congestive varieties of a fever it will be necessary to resort to tonics liberally. The gastric variety, which is indicated by nausea, bilious vomiting, and purging

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foul tongue; loss of appetite; pain
 in the stomach and bowels, Purga
 tives, such as Calomel and Jalap must
 be given for the purpose of cleansing the
 alimentary canal; emetics may some
 times be used with advantage, before the
 administration of the bark or quinine.
 Bark and its preparations are the agents
 which have been most employed in
 the cure of inter-mittent fever. With regard
 to the yellow, pale, or red bark, there is
 no preference to be given, as they all
 depend, it would appear for their good
 effects, upon their active principles, qui
 nina and cinchonine. Many other remedies
 both from the vegetable, and mineral
 kingdoms, ^{have been employed} and many of them are indi
 genous, the barks of the cornus florida,
 the Liriodendron tulipifera, Hypocis
 tannin; and the different oaks; and willows;
 the Virginia snake-root; colomba; gen
 tian; quassia; Among the mineral
 productions, Arsenic, and the sulphate
 of Zinc are the most efficient.

Essay on

Pneumonia Nothae

Submitted to the examination, of the Medical
Faculty of the University of Maryland.

By Allen Bowie, of M.^d

1835

By order of the

University of the State of New York

in testimony of the execution of the laws
of the University of the State of New York

By Allen Brown of the

1832

1

Pneumonia Notha.

The most general cause of pneumonia is the application of cold to the body, which gives a check to the perspiration and determines a great flow of blood to the lungs. It attacks principally those of a robust constitution and plethoric habit, hence, it is more frequently met with in men than in women, and occurs most frequently in the winter season and spring of the year, but it may arise in either of the other seasons, when there are sudden vicissitudes from heat to cold. Other causes, such as violent exertions in singing, speaking or playing on wind instruments, by producing an increased action of the lungs, have been known to occasion pneumonia. Severe exercised, external injuries, a free indulgence in the use of fermented liquors, intemperance, rebelled eruptions, suppressed evacuation, and metastasis from other diseases, such as

as gout, rheumatism &c. may also give
rise to it - those who have laboured under
a former attack of this complaint, are much
predisposed to returns of it. - Peripneumonia
appears as a symptomatic affection in
several diseases as measles and Catarrh.
The true peripneumony comes on with an
obtuse pain in the chest or side; great diffi-
culty of breathing, particularly in a recur-
-bent position; or when lying on the side af-
fected, together with a cough, dryness of the
skin, heat, anxiety, flushing of the face and
thirst. The pain is prodigiously increased
on coughing or making a full inspiration.
At the first commencement of the disease, the
pulse is usually full, strong, hard and fre-
quent, but in an advanced stage, it is com-
monly weak, soft, and often irregular. In
the beginning the cough is frequently dry
and without expectoration, but in some
cases it is moist from the first, and the
matter spit up, is various both in colour
and consistence, being often streaked with
blood, but at which we need not be alarmed.
If relief is not afforded in time and the in-
flammation proceeds with such violence as
to endanger

to endanger suffocation, the vessels of the neck will become turged and swelled, the face will alter to a purple colour an effusion of blood will take place in the cellular substance of the lungs so as to impede the circulation through that organ, and the patient will soon be deprived of life. Should these violent symptoms not arise and the proper means for carrying off the inflammation have either been neglected or have proved ineffectual, although adopted at an early period of the disease, a suppuration may ensue, which event may happen in a few cases during the first week, but more usually in the second when the disease continues, and is to be known by frequent slight shivering; by an abatement of the pains and sense of fulness in the part; by the patient being able to lie with greatest ease on the side affected; by a remission of the previous febrile symptoms and accession of hectic, and by the respiration being less painful but more oppressed. When the collection of matter has come to maturity, it sometimes bursts into the air vessels and occasions instant death. In some cases it will be spit up, this spitting often continues

Continues long, and the person falls into a state similar to that in Phthisis pulmonalis. Sometimes the collection bursts into the Cavity of the thorax and produces emphysema. rather a hopeless case. Sometimes lymph is effused into the air vessels which by filling up the cels of the lungs produces suffocation, or being effused into the cavity of the chest, gives rise to Hydrothorax, at others, adhesions to the ribs are formed. When peripneumony proves fatal, it is generally by an effusion of blood or lymph into the cellular texture of the lungs, so as to occasion suffocation, which usually happens between the third and seventh days; but it may likewise prove fatal by terminating either in suppuration or gangrene - the latter, is a very rare occurrence. In those cases where it goes off by resolution, some very evident evacuation always attends it, such as a great flow of urine with a copious sediment, diarrhoea, mild sweats diffused over the whole body, or a hemorrhage from the nose; but the evacuations which most frequently terminate the complaint, and which does it with the greatest effect,

is a free and copious expectoration of a ^{5.}
thick white or yellow mucus, and by this
the disease is carried off in the course of
twelve or fourteen days, the pulse gradually
abating in its frequency, and the heat of the
body, with the other febrile symptoms dis-
appearing. Cases of Pneumonia terminating
in health without expectoration are very rare.
The opinion as to the event is to be drawn
from the symptoms which are present. A
high degree of fever attended with delirium,
much difficulty of breathing, acute pain,
a dry cough, or an expectoration of a dark
black colour, sudden cessation of pain, or
of the expectoration, followed by a change,
or lividness of the lips and of the countenance
and sinking or irregularity of the pulse, de-
note great danger: on the contrary, an abate-
ment of the febrile symptoms and of the
difficulty of breathing, and pain taking
place in the evening, or of a free expectoration,
or the happening of any other critical evacu-
ation, such as a hemorrhagy from the ~~lungs~~
nose, diarrhoea, or a free diaphoresis, the urine,
at the same time depositing a copious sediment,

promised
may

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6.
promised fair for the recovery of the patient.
When the inflammation terminates either
in suppuration or an effusion of lymph into
to the ~~lungs~~ cellular substance of the lungs
or cavity of the thorax, it is always to be
considered as highly dangerous. On dissec-
tion, the lungs usually appear inflamed,
and there is often found an extravasation
either of blood or of coagulable lymph
in their cellular substance. The same appear-
ances likewise present themselves in the
cavity of the thorax and within the peri-
cardium. The pleura connected with the
lungs, is also in an inflamed state, having
its surface every where crowded with red
~~pustules~~ vessels; besides these, abscesses
are frequently found in the substance of
the lungs, as likewise, tubercles and adhes-
ions to the ribs, are formed. A quantity
of purulent matter is often discovered also
in the bronchia. -

As in many cases of peripneumony
the patient is destroyed in the course of
a few days, by the passage of the blood
through the lungs being obstructed, effu-
sion
may

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7.
effusion taking place, hemorrhage of blood
ensuing or the inflammation proceeding
on rapidly to a suppuration, the antiphlo-
gistic plan in its most vigorous extent
ought to be adopted on the very first at-
tack of the disease. A quantity of blood
proportional to the state of the pulse, the
violence of the symptoms and the vigor of
the person; (for there is no fixing on the de-
finite quantity.) should be drawn from
the arm, taking care to make the orifice
large; and if the difficulty of breathing
and pain are not relieved while it flows,
the bleeding should be continued until the
patient turns pale and seems likely to
faint. — a copious evacuation is far
preferable to repeated small bleedings. If
a powerful impression is produced by the
abstraction of a large quantity at first,
the disease is suddenly corrected, and will
often in the course of a few hours, be con-
verted from a most violent pneumonia
to a simple Catarrh; or if the result is
not so fortunate, the symptoms will become
infinitely milder and more manageable, and
may

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may even not recur with such violence as
 to require a repetition of venesection. But
 the reverse of this picture deserves notice,
 If bloodletting has been too long deferred,
 or from timidity in the Practitioner or
 the patient, not largely employed in the
 first instance, the disease generally proves
 violent, tedious, untractable, and often fatal.
 It appears to be a matter of indifference
 from which arm the blood is taken away,
 as the operation is resorted to, with the view
 of removing a stimulus, and not any ex-
 pectation of causing revulsion. If the pain
 and difficulty of breathing continue violent,
 or return after a short interval, which
 they are very apt to do when the loss of
 blood is only trifling, the bleeding may be
 repeated the succeeding, or even the same
 day, and a proper quantity may again
 be drawn off, as the Practitioner, in repea-
 tedly abstracting blood, is not to be guided
 by the quantity, or even by the appearance
 of the blood, but by the relief procured.
 When the inflammatory disposition is sub-
 sided, and the difficulty of breathing and pain
 are

are not very great, the patient complain-
ing only of a rawness and soreness in the
throat, it will not be necessary to have re-
course to the operation a second or third
time - it is according to the state of the symp-
-toms, the effect produced upon the lungs,
and respiration being freely performed, taking
into consideration at the same time the ap-
pearance which the blood exhibits when
cold, the bleeding is to be repeated or not.
after expectoration has taken place to any
degree. it would be improper to bleed. Where
there has been a considerable lapse of
time, and the patient is old, or in a weak,
debilitated state, instead of repeating &c. &c.
a second or third time, we may apply se-
veral leeches, or the scarificator or cupping
glass to the chest, immediately over the
part which is painful. To diminish the
action of the heart and arteries, it has
been proposed, in this disease, as well as
in pleurisy, to administer the digitalis.
In addition to early and copious bleeding,
this remedy, may probably have a good
effect.

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10.
effect. but it ought never to be relied on
alone. Where much systematic debility and
pulmonic irritation prevail, with frequent
coughing, difficult respiration, dry heated
skin and a rapid hard pulse - notwithstanding
we have bled freely in the early stage
of the disease - we may then give the foreglove,
either in the form of powder or tincture -
about half a grain of the former, or from
fifteen to twenty drops of the latter, may be
administered every four hours. Inflaming
the skin immediately over the part affected
with pain, by the application of a large
blister, is the next proper step to be adopted
after bleeding; and should it shew a disposi-
tion to heal up soon, a fresh one ought to
be applied in the vicinity of the other, so
as to keep up a constant effect; which
mode of proceeding ~~is~~ will be far prefera-
ble to keeping the blistered parts open with
any kind of stimulating ointment, as is often
practised. Blisters may be used in any
stage of the disease; and in many cases in
which blood letting cannot be carried far
enough

... of the disease - we may then find the
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enough, or cannot be employed at all in the
pneumonia. Notha of old people, they
prove very beneficial. Emollient fomenta-
tions and Cataplasms, are sometimes made
use of, but they evidently interfere with the
application of a more powerful remedy, as
a blister cannot be kept on at the same
time that they are employed. If the bowels
^{require} evacuation, strong purgatives ought not
to be given; but gentle aperients of a cooling
nature should be used, particularly at the
commencement of the disease. It is a pretty
general opinion that purgatives are not
proper remedies in pneumonic affections;
because, copious and frequent purging, has
a tendency to diminish expectoration; a point
of the highest importance; that drastic ones
ought not to be administered, is obvious, but
nevertheless, we should not neglect giving
those of a mild nature, - such as a solution
of the sulphate of magnesia. A free expec-
toration, being the means which nature most
usually adopts for carrying off the inflamma-
tion, we ought, therefore, to promote it as much
as

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129.
as possible, by giving such remedies, as are sup-
posed to have a power of promoting a secre-
tion from the glands of the throat, and bron-
chia, and likewise such as will serve to
alleviate the cough, by sheathing the parts
against that acrimony of the mucus, which
gives rise to it. With the view of assisting
expectoration, and determining to the surface
of the body, we may give antimonials in
small nauseating doses, taking care, however,
not to excite any vomiting. With these me-
dicines, it will be proper to direct the patient
to take frequent small draughts of some
mild solvent liquor, such as barley-water
or thin gruel - to which may be added a
little lemon juice, to give it a pleasing aci-
dity. Nitre and some other neutral salts,
will, likewise, produce a good effect in peri-
pneumony, as well as antimonials, and may
be, therefore, given. Making use of a pediluvium
every night, will probably be attended with
much benefit. - After the expectoration has
appeared copiously, we should be cautious
in promoting purging; as this as well as
blood-letting
may

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and difficult to decipher.]

131
blood-letting would be likely to check it. - at
this period of the disease it will be right, how-
ever, to remove costiveness by gentle aperients
or an enema. At the commencement of
pneumonic inflammation, opiates would
evidently prove injurious, by interrupting ex-
pectoration. and therefore they should not be
prescribed in this stage of the disease; at
least, until previous bleeding and blistering,
have greatly relieved the difficulty of breath-
ing and pain. In a more advanced stage
of peripneumony, where a cough is the only
urgent symptom, and proves the chief cause,
either of the continuance of the pain, or of the
want of sleep, opiates will be highly useful,
and may be given with great advantage. Du-
ring the whole of the complaint, the patient
should be confined to bed, lying with his head
and shoulders as much elevated as possible;
his chamber is to be kept of a proper tempera-
ture, neither below 50 nor above 60 degrees of
heat, and his strength supported with food of
a light, nutritious, nature - such as roasted or
boiled apples, or panada; his drink, should be
this

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191.
this gruel and barley water, sweetened with
honey, or a decoction of liquorice in which
a small quantity of Currant jelly is dissolved,
to give it a pleasant taste. On recovering
he should carefully guard against any ex-
posure to cold, or any irregularity which might
occasion a relapse. For no inflammation, is
so apt to recur as the pneumonia. a return
of it, might lay the foundation of Phthisis
Pulmonalis. . . In pneumonia typhoides, the
general plan of treatment should be a combi-
nation of that of typhus with the local treat-
ment of pneumonia. - Bleeding from the
system, might prove injurious, unless employ-
ed at the onset of the disease. Dry cupping
together with fomentation, Cataplasms and
resuscitans liniments, applied over the
part, will be far more advisable, in an ad-
vanced stage, the person at the same time
throwing in with the breath, watery vapours
repeatedly throughout the day and night, by
means of an inhaler. When there is a tenden-
cy to gangrene and hemorrhage, blisters would
be improper, both on account of the evacuation
which

which they occasion, and because they some times give rise to dangerous sores. in this species of disease, every thing that might derange the Prime via should be guarded against. The presence of noxious matter in these passages, often has, however, a share in producing pneumonia typhoides, and in such cases, clearing the alimentary Canal, ought to form an essential part of the treatment; but as the operation of Cathartics, would be too debilitating, and it seems very generally admitted that the chief cause of irritation, is in most instances lodged in the Stomach, it would appear that an Emetic would be the best means of removing it. To avoid exciting purging, instead of vomiting, which would be certain to prove prejudicial, we should prescribe ipecacuanha in preference to antimonials. When the skin is very dry and hot, Saline draughts, or the liquor ammonia acetatis, may be administered with advantage. To allay pain, ease cough, stop diarrhoea, when it arises, or procure sleep, we employ opium. To support the vital powers and resist the tendency to putrescency, it will be right in all cases of this species of pneumonia, to allow a moderate use of wine, proportioning the quantity to the degree of debility which is present. If the inflammatory symptoms do not run high, and the fever shows

any tendency to remit, we may add a
 decoction of the bark of Cinchona. 1.
 Succeeded in removing the symptoms of
 typhoides, and the patient has advanced
 state of convalescence, it will be necessary
 have recourse to bitters and aromatics, in order
 strengthen the stomach and system in general.

p. 16

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The
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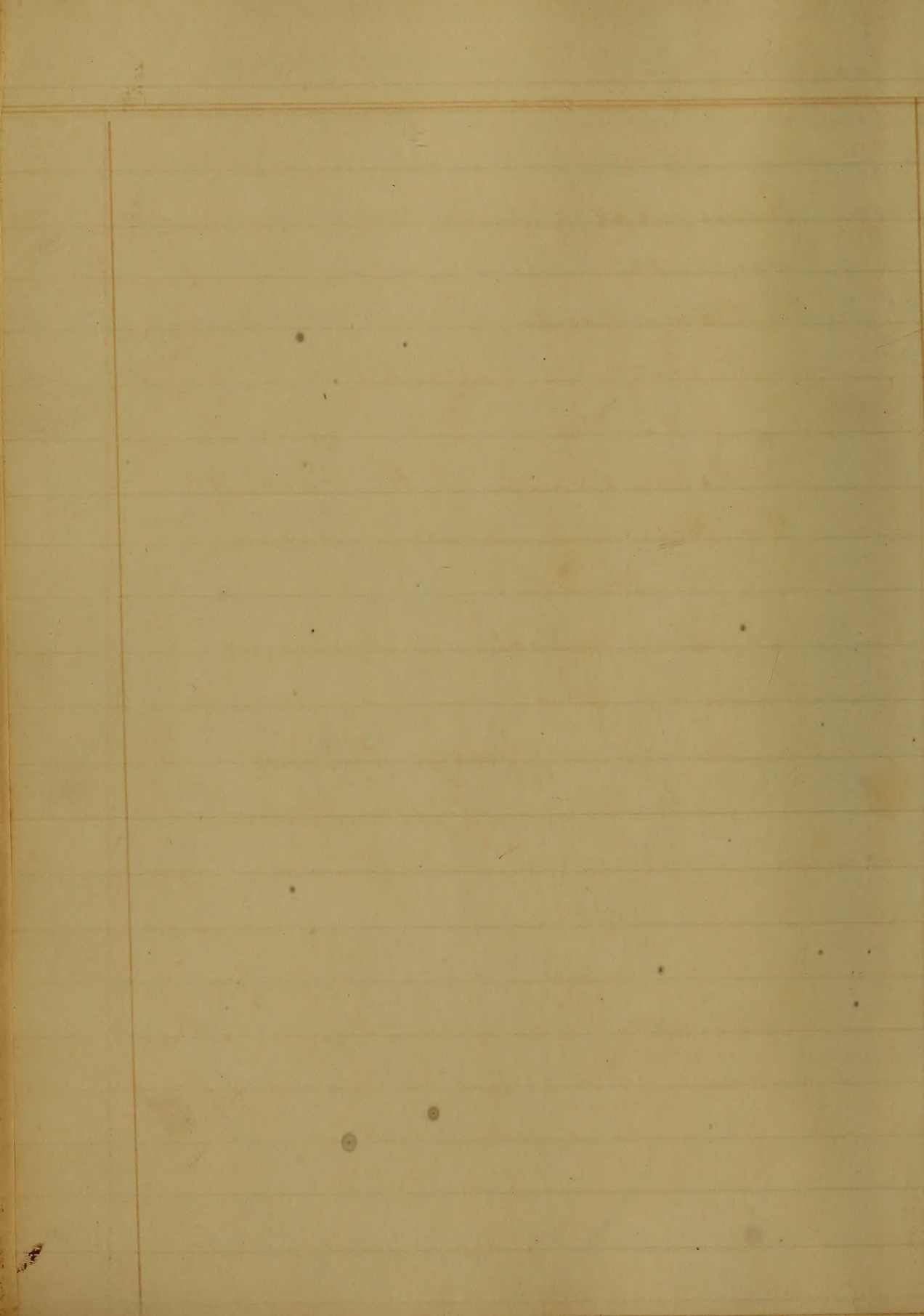
the re-organization of the
Congressional Association

for the
purpose of

George L. ...

of ...

January 1888



An
Inaugural Dissertation

on

Hæmorrhoids

Respectfully submitted

to the

Examination of the Provost,
Trustees and Medical Faculty

For the

Degree of Doctor of Medicine

By

George C. Perry
of Maryland

January 18.85

Hæmorrhoids

This disease which I have selected as the subject of my inaugural essay is one of common occurrence and of the most inconvenient and painful diseases with which the human system is affected. Though not a little has been written on this subject, yet until recently, the nature of these tumors has been very imperfectly understood, and the treatment frequently improper.

Hæmorrhoids are certain excrescences or tumors seated about the lower part of the rectum.

By systematic writers these tumors have been divided into vascular or varicose & spongy. Relating to the nature of the first kind of hæmorrhoidal tumors, many opinions have been promulgated. Montagne and others think that the sanguine discharge flows neither from arteries nor veins but from the capillary vessels. Duncanson, Ledran, Cullen & others say they are formed by the cysts in which the arterial blood is found. Dupuytren, Eberle and many others regard them as dilated veins, or real varices and

The disease which I have described is the most
common of myriads of diseases which are of common
occurrence and of the most frequent occurrence and
painful diseases with which the human system
is afflicted. It is a disease which has been
the subject of much research, the nature of the
tumors has been very imperfectly understood and
the treatment frequently unsatisfactory.
The tumors are certain enclosures or tumors
which about the lower part of the neck
the systematic nature of the tumors has been
into the vascular system & spreading, relating to
the nature of the first kind of hemorrhoidal tumor
many opinions have been proposed, but the
and others think that the sanguine discharge
rather from a vessel that gives but from the
large vessels. Broussais, however, is of a different
they are formed by the excretion which the
blood is found, & therefore, that the
appear them as cellular tissue or as a kind of

such also is our opinion. The second kind Dr Eberle says arise from a thickened and condensed state of submucous cellular tissue. Abernethy remarks, that such piles as he has seen removed by operations, and those with which he met in the dead body, possessed no vessels of magnitude, and seem to be composed of a merely fleshy substance those tumors must have been of the second kind.

The first variety of hemorrhoidal tumors characterised by the following circumstances. The tumors are of a dark and blueish colour, soft and elastic feel; of various sizes & of a conical shape. by gradual pressure with the finger they may be considerably diminished in size, though soon returning to their original size when pressure is removed. They may be internal or external.

The second variety of tumors looks like small fleshy tubercles of a brownish colour. they are situated a little above the verge of the anus, or descend like pendulous excrescences from it; when they are situated externally, they are paler and more elastic

and transparent." The internal tumors differ in no respect from those which are situated externally except when embraced by the sphincter ani, the internal hemorrhoidal tumors are less painful than those which appear externally. The internal piles are surrounded by soft and yielding substances, which do not make any painful pressure on them. but when the pile is protruded through the anus and embraced by the gripe of the sphincter ani the pain is very distressing and unless promptly returned into the rectum, the symptoms become so much aggravated as to resemble in some degree strangulated hernia.

Symptoms.—The occurrence of the local hemorrhoidal affection is generally preceded by a sense of weight and pressure in the abdomen, with a peculiar uneasiness in the intestines. Convulsions of the back and loins accompanied with pain, sometimes a numbness of the inferior extremities, pulse hard and contracted, pale countenance, dryness of the mouth, and occasional sensation of confusion

The first part of the paper is devoted to a description of the general character of the disease, and to a statement of the facts which have been observed in the course of the epidemic. It is shown that the disease is characterized by a certain set of symptoms, and that it is not contagious, but is spread by the air. The second part of the paper is devoted to a description of the pathology of the disease, and to a statement of the facts which have been observed in the course of the epidemic. It is shown that the disease is characterized by a certain set of symptoms, and that it is not contagious, but is spread by the air. The third part of the paper is devoted to a description of the treatment of the disease, and to a statement of the facts which have been observed in the course of the epidemic. It is shown that the disease is characterized by a certain set of symptoms, and that it is not contagious, but is spread by the air.

in the head, vertigo, an irritable and discontented state of the mind, flatulence, and a sensation of pressure from the anus to the perineum and constipation is an almost invariable attendant a frequent desire to urinate and the urine that is discharged is high coloured. The patient usually experiences heat, itching and pain, within and around the anus and these symptoms are attended with an abundant serous discharge from the rectum all of which symptoms indicate action or inflammation of the lining membrane of the intestines. These symptoms do not in general continue long they generally disappear for a short time and again return, if the individual is exposed to the exciting causes. If the tumors are of vascular or varicose character they generally continue, in a greater or less degree until they burst and relieve the engorged vessels by the free discharge of blood which takes place and procures immediate relief of all the general symptoms. the discharge of blood occurs when the patient is at stool, this flow of blood sometimes

in the heart, vessels, and muscles and also in the
liver of the human placenta, and a common
disease from the time of the formation of the
embryo is an almost universal affection
of the placenta, being to be seen in the
placenta in high cases. The placenta usually
appears first, rising and falling with the
breast, the size and shape of the placenta
varies with the amount of blood which
the placenta contains, and in high cases
it is enlarged and the vessels are enlarged
of the arteries. These symptoms do not in general
continue long, they generally disappear in a few
days and upon return of the placenta to its
normal size the cause of the enlargement of the
arteries character is generally confined to
a period of 10 days after the birth and when
the symptoms pass by the first day of that
period the placenta and vessels are normal and
the placenta appears the shape of that which
the placenta is at that time of its formation.

continues for several days, and has been known to occur daily for months and even years. great quantities of blood is sometimes discharged from these tumors without terminating fatally. If the piles are of the spongy or blind kind we observe at the margin of the anus, and sometimes even within the rectum one or more tumors of a round and shining appearance, of a dark violet colour, with more or less inflammation.

When either kind of hemorrhoidal tumors are inflamed they give rise to extreme pain particularly during the evacuation of the feces. Dr Cullen remarks that when they are situated high up they are often forced down past the sphincter and from the irritable condition of the parts and the enlarged and exquisitely tender state of the tumors they cannot again be returned. In this situation they give rise to continued and extreme suffering and the inflammation occasionally runs so high as to cause suppuration and sloughing.

Causes.—The causes of this affection are general and

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Local. Some of the general causes are merely predisposing and others are exciting causes of the hemorrhoidal affections. Persons living in large cities are more subjects to this malady than those who reside in the country and those who live in northern climates are more apt to suffer from the disease than those who reside the equator. Some persons it is said inherit a peculiar physical temperament or abnormal condition of the body which predisposes to the occurrence of this disease. Middle or advanced life is the period at which this affection most generally occurs, though ^{no} age is entirely exempt from it. Persons of a sanguino-bilious habit are most liable to the affection; but no temperament or constitution can claim immunity from the disease.

Dr Eberle observes that though pregnancy and the final cessation of the menses, are well calculated to favour the occurrence of sanguinous congestion in the vessels of the abdominal viscera, and particularly of the rectum; yet with the exception of

the periods when these conditions are present hemorrhoidal affections appear to be much more common in the males than the females! The most common exciting causes are habitual constipation; the passage of hardened feces and sedentary habit; heating food; intemperate use of alcoholic liquors; worms or other foreign and irritating bodies in the rectum; the abuse of drastic purgatives particularly aloe preparations; stimulating enemata; the weight of the gravid uterus, and the suppression of habitual evacuations, lifting and carrying heavy burdens; riding on a hard trotting horse; and indeed any irritant applied on or near the rectum may excite this disease by determining a fluxionary movement to wounds of that part. The maxim "ubi irritatio, ibi fluxus"; applies with particular force to the anal regions.

Treatment. — Very discrepant opinions have been expressed with regard to the propriety of interfering with the hemorrhoidal tumors; and

more especially with the sanguineous discharges to which they occasionally give rise. Cullen was of opinion that the disease ought in all instances to be arrested in its progress as soon as possible which he thought could be attempted without any danger; as the disease is very rarely of a constitutional character. Dr. Clarke remarks that "that this view of the subject would inevitably lead to very disastrous consequences, were it generally adopted in practice; for although, hemorrhoids are in many cases, of a purely local character, and in such instances may be removed as soon as convenient, without any detriment to the system; yet both experience and analogy present us with abundant testimony of the dangerous consequences which are liable to result from a hasty interference with the hemorrhoidal disease, when the disease is founded, as it very often is on a constitutional predisposition" although the sudden arrestation of the discharge of the blood from piles may under some circumstances be attended with

more especially with the dangerous
to which the occasional
line of opinion that the disease might be
way to be treated in the hospital as soon as
it is that he thought could be attempted
and perhaps as the disease is very early of a
nature of character. In that month the
the aim of the hospital would inevitably be to
keep patients comfortable and generally
at least in private; for although the most
in many cases of a highly local character, and in
other instances may be removed to special
wards without any detriment to the system,
yet both in private and hospital cases
abundant testimony of the temporary
is which are liable to result from a local
and with the temporary disease, when the
disease is founded, as it may often be considered
at present, and with the aid of
time of the discharge of the blood from
which some cases are treated as a

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unpleasant consequences we think that we should not hesitate to attempt to arrest the bleeding or at least to moderate it when the discharges are so great as to endanger the life of the patient. If an individual is labouring under the symptoms which I have enumerated as preceding an attack of the affection we should endeavour to prevent any attack by such means as are calculated to remove all irritation and preternatural determination the rectum, and the patient must avoid all the causes which have a tendency to develop the affection such as excess in his exercise and regimen. He should put on a light vegetable diet, the bowels be kept soluble and he should take gentle exercise.

Hemorrhoids are in many cases the effect of a general disorder of the elementary canal which we must correct before we can hope to cure the local disease. The bleeding pile is the least painful form of the disease, and when the discharge is moderate, little else is required of the

patient except to avoid excess in his exercise and regimen: but if it be profuse and debilitating it is necessary to adopt such means as are best calculated to arrest it; for this purpose we direct the patient to lie on a mattress, to be kept cool, to be restricted to rigid diet, and when the patient is plethoric, to be bled from the arm we must make use of cold and astringents applications to the arms, thighs and abdomen, cold and astringents injections should be thrown into the rectum. If these means fail we should introduce a tampon into the rectum for the purpose of making pressure on the mouth of the bleeding vessel.

The blind piles as long as they are not inflamed do not give rise to much inconvenience if they are washed with cold water after going to stool and moderate pressure applied by means of T bandage. when they are irritated and painful we should apply soothing applications and the bowels should be kept soluble by mild aperients. When the tumours are much infla

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med no astringent application should be used except poultices made with lead water, the external use of the narcotics have been recommended by some. It is important that the patient should remain in a recumbent posture and if the tumor is constricted by the contraction of the sphincter muscle, an attempt should be made to return them into the rectum. It is the blind piles for which the surgeon is most frequently consulted.

If all the means we have enumerated fail and they continue to give rise to great inconvenience and distressing pain some operation seems to be imperiously required.

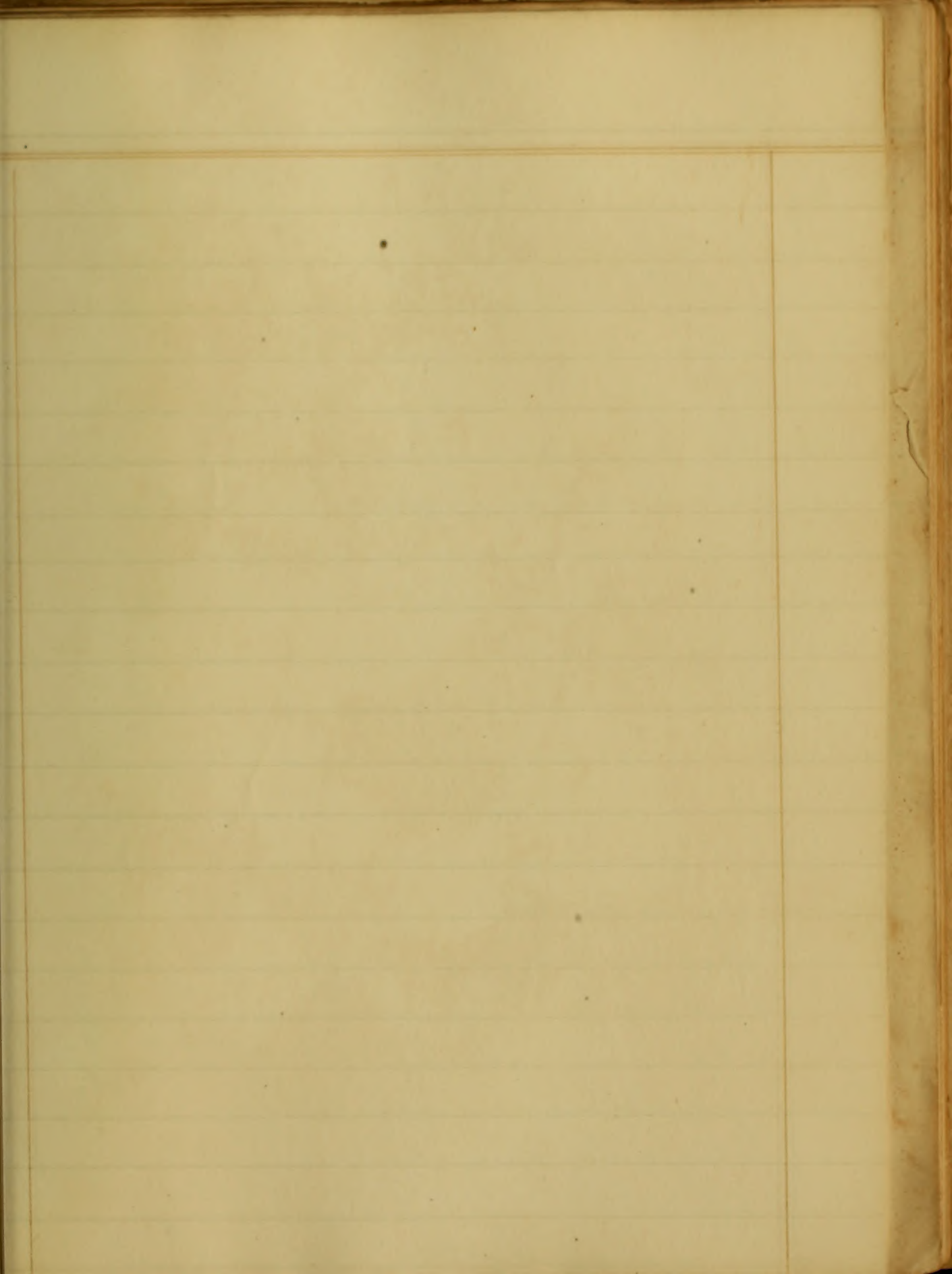
bausters, the actual cautery, the ligature and excision, are all used by different surgeons in the removal of these tumors.

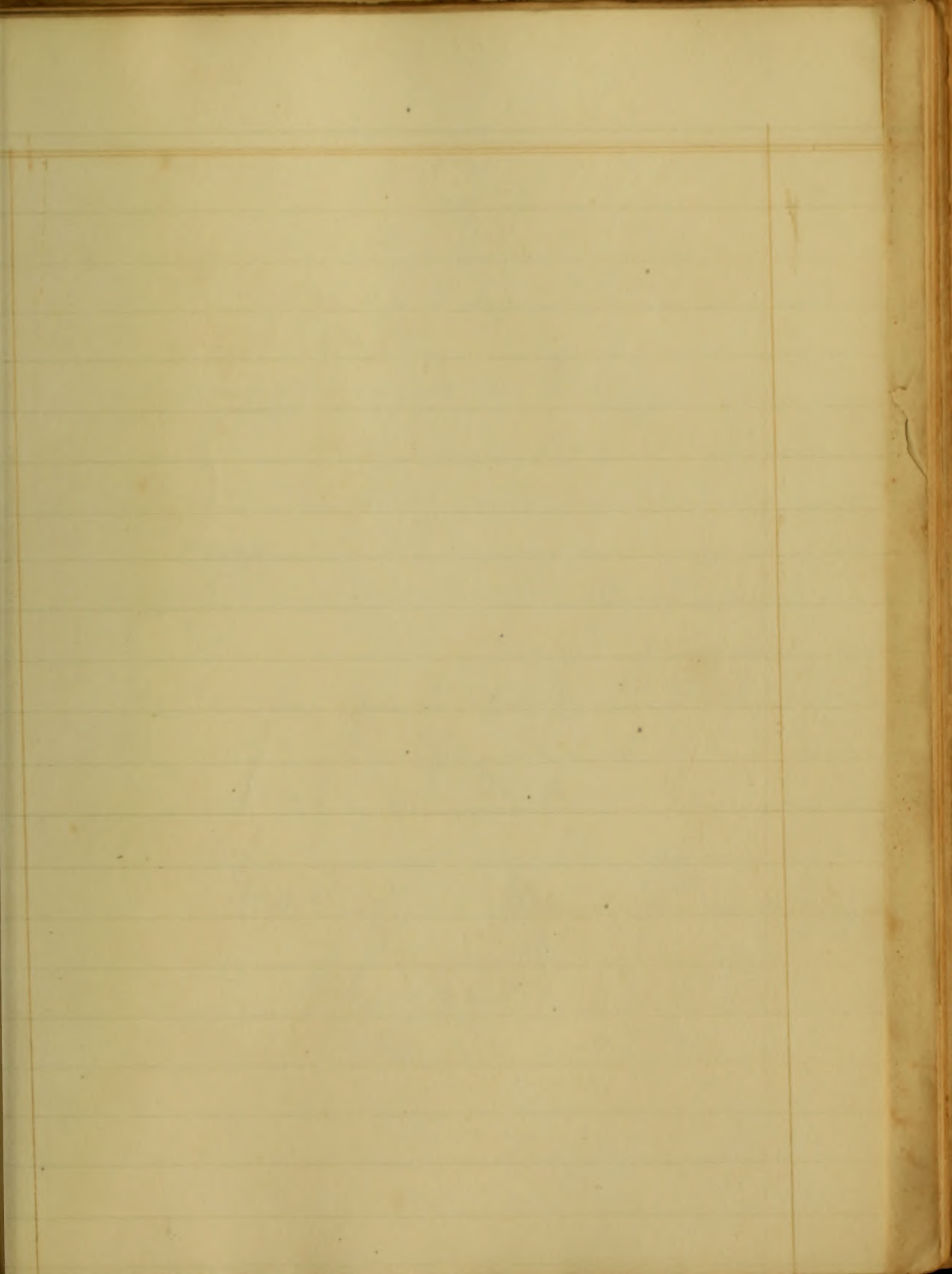
Our limits will not allow us to offer the objections which might be urged to every mode of removing these tumors when a surgical operation is required except that of excision which we think is the least hazardous, most prompt, most effect

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ual and least painful method of operating. It has now the sanction, indeed of the most authoritative surgeons of the age.

We cannot in this short essay enter into a description of the mode of performing this operation to the systematic works therefore we must refer the reader.





1.
An inquiry into the
Cause of
Albophaea, or an Oedematous
Swelling of the
Lungs, &c. &c.
Submitted to the
Faculty of the
University of Maryland
In the Degree
of Doctor of Medicine
By
Theodor S. Williams
of
Maryland
1833

An
Inaugural Dissertation
On the
Atmosphere, in an Etiological
point of view.
Submitted to the examination
Of the
Provost, Trustees, & Medical Faculty
Of the
University of Maryland
For the Degree
Of Doctor of Medicine
By
Theodore Sitticum
Of
Maryland
1835.

1.

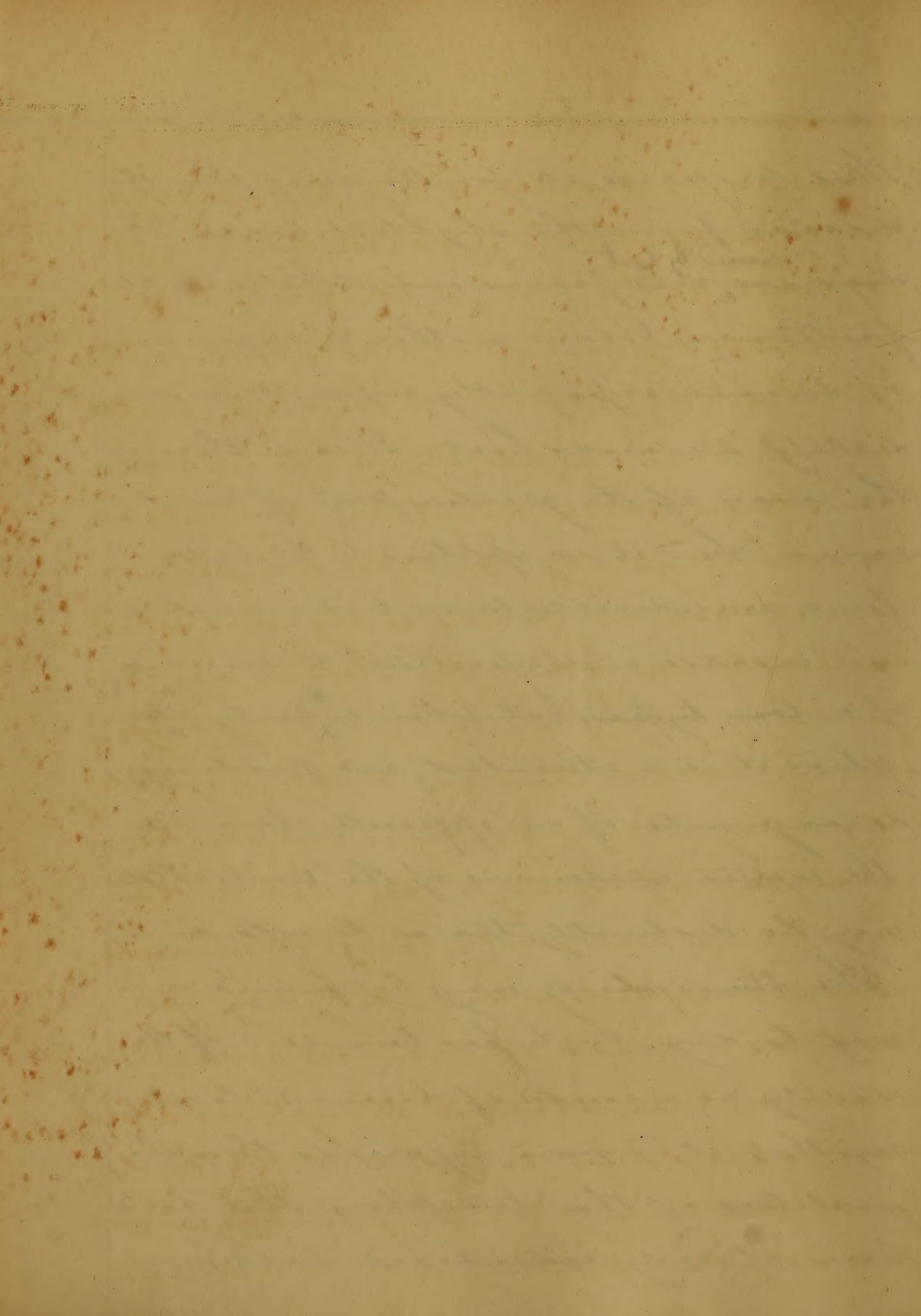
The Atmosphere in an Etiologi- cal point of view.

The sensible qualities of the atmosphere.
The atmosphere may be either hot or cold.
Heat has been universally allowed to be
a cause of disease from the earliest dawn
of medical science down to the present
day. The Greeks looked upon the burning
atmosphere as a fruitful source of
disease, and these accurate observers of
nature have not failed to display its
influence. In our own country we
have all witnessed its injurious effects
at different times. When strangers come
to us from a colder country, during our
warm weather, they are almost always
attacked with disease. The mode in which
heat acts is very intelligible. It first
acts as a stimulus to the system and
leaves it depressed and debilitated, and
thus

thus prepares it for the reception of disease from the slightest cause. The diseases, ^{caused by heat} are fevers and intestinal affections. — Cold is another prolific source of disease especially when it immediately succeeds heat. It is in this way the cause of the greater part of our diseases. When it is applied to the body for a considerable time, it is a sedative and creates a disposition to diseases of a low type, but when ^{sudden} applied it is a stimulant, and produces derangements of an opposite character. The winter epidemics of the United States may be distinctly traced to cold. —

The atmosphere may be humid or it may be dry. Much has been said of humidity as a cause of disease. Some say that it is more injurious than the qualities of the atmosphere that have been already considered. Sudden

transition



as having a tendency to aggravate their
 complaints. But there is reason for be-
 lieving that it is sometimes of advan-
 tage in this disease: thus Dr Bond, a cel-
 ebrated Physician, was in the habit of
 sending his pulmonary patients to places
 where the air was moist and impreg-
 nated with marsh miasmata. And the most
 happy changes often took place in their
 systems. And it was remarked, ^{that} the most
 beneficial effects followed an attack
 of intermittent fever. A celebrated
 Physician Dr Young of London after thir-
 ty years experience recom^mended this
 very practice of Dr Bond as superior to
 all others in the treatment of Pulmonary
 consumption. Dryness has been insist-
 ed upon as a source of disease. There
 is no doubt but it is in the vast sandy
 deserts where the atmosphere is near-
 ly deprived of all its moisture, so as to
 be

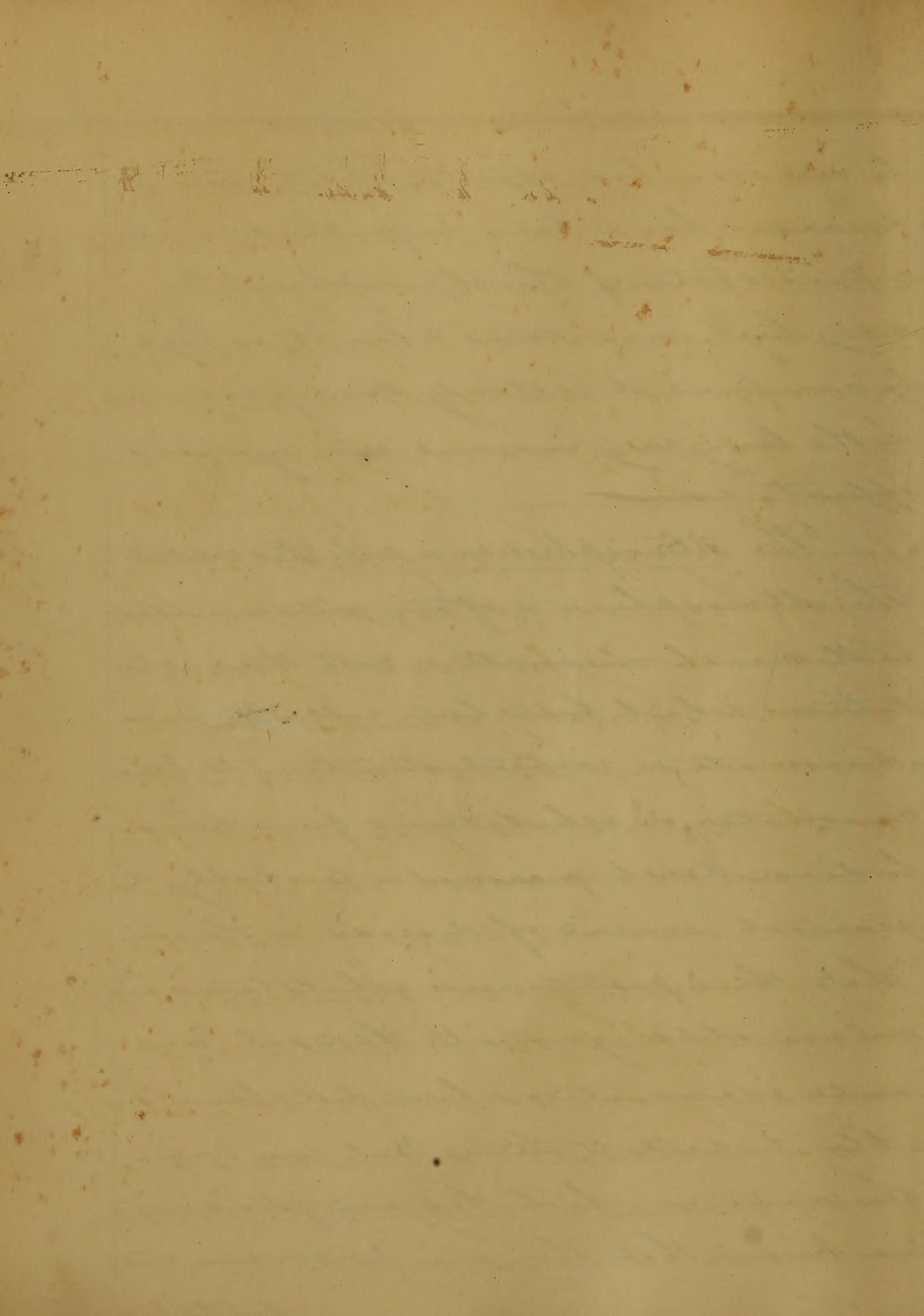
be unfit for respiration. It absorbs the moisture from the mouth and fauces, and produces the most intolerable thirst and pain; as also from the surface of the body, producing a scorching-like hectic fever. Travelers in the deserts are often obliged to apply wet sponges to their nostrils, that they may inhale vapour to moisten the air which they breathe. We should experience the same effects from sitting in a closed room heated by a stove, did we not evaporate a small quantity of water in it, or occasionally throw open the door to admit the moist air from without. In this country what we call a dry air is salutary; But it is because a humid atmosphere is more ^{or} less impregnated with miasmata. I have however known the atmosphere so dry as to

to occasion bad effects. Of late, some diseases have been imputed to a rari-
fied state of the atmosphere. On very high mountains when it is high-
ly rarified, it certainly does produce on the body very curious and injurious effects. —

The Atmosphere in a vitiated condition.

The Atmosphere is often contaminated with marsh miasmata or with those exhalations which have been called Koino-
miasmata, in contradistinction to Idio-
miasmata, or exhalations from human bodies. Marsh miasma is probably the greatest source of disease in the air.

What these pestiferous exhalations are we are still ignorant, the most mi-
nute examinations have not been able to detect them. But we know the mode in which they are produced, we know that they are poisonous and
subtile



subtle exhalations from vegetable
 matter, and we are acquainted with
 the diseases to which they give rise.
 It is said that their production re-
 quires an atmospheric temperature
 of eighty degrees F° . A partial es-
 cape of them may take place at a
 lower degree of temperature. They
 arise from moist vegetable matter
 acted upon by heat, and in general
 from low marshy grounds. Long con-
 tinued rains do not produce them,
 as they cover the ground, cool the
 air, and thus prevent their formation.
 When rains are frequent and hea-
 vy, alternating with sunshine, it is
 observed that the Inhabitants of
 marshy grounds are healthy; whilst
 those in elevated situations are
 very generally sickly. The reason
 of this is obvious; under these
 circumstances

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circumstances, the high grounds are supplied with proper proportions of heat and moisture to favour the productions of exhalations, whilst the water covers the low grounds, and prevents their escape. Besides favouring the generation of miasmatic effluvia, there are other modes in which rains are hurtful. Thus they wash off the green coats of ponds, which prevented the sun from acting upon the water thus causing noxious exhalations. They bring down miasmata from elevated regions of the atmosphere which had been previously formed and raised; and they sometimes cause cracks or fissures in the dry ground, which allow noxious exhalations to escape from the bowels of the earth. As to the dis-

-tance

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distance to which marsh effluvia can be conveyed in sufficient quantities to create disease, much difference of opinion prevails. We have no certainty on the subject, But it is possible they are wafted by the winds to considerable distance, as the diseases of miasmata occur in situations remote from any source of exhalation. Facts prove that they can be carried to the distance of eight or ten miles. But to this effect a current of wind must prevail steadily for some time. It is observed in most parts of the United States, during the summer season, that the inhabitants of the Northern and Eastern sides of water courses are sickly, whilst on the opposite sides they are free from disease; The cause of this is obvious,

The wind is in general pretty steady from the south and west during ^{the season} ~~the season~~.
 It is customary in some places, for the inhabitants to plant trees on the south and west sides of their habitations, to receive the noxious impregnations from the wind as it comes from the sources of Marsh Effluvia and it is thought to be a successful plan. With regard to the length of time that miasmata may remain in the system without causing disease there is no certainty. Sometimes fever soon follows its introduction and sometimes it lies dormant many weeks, or months. Dr Rush relates some curious cases of its having remained passive among a number of soldiers during the space of a whole year. But no one can believe that the miasma itself lies dormant in the

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in the system. It is the predisposi-
 -tion which is produced which re-
 -mains in the body, and that is lia-
 -ble to be acted on by any exciting
 -cause. Marsh miasma does not act
 -with the same degree of violence up-
 -on all persons; thus strangers in
 -marshy countries are much more
 -apt to take on disease than the
 -old ^tsettlers; and indeed some of
 -the latter enjoy a total exemp-
 -tion from its diseases; and further
 -it is in some people ^{so} ablutely, ne-
 -cessary to health. It is a fact
 -that some old persons removed
 -from their marshes into a pure
 -atmosphere, will languish with
 -disease. This is agreeable to ana-
 -logy as well as to authority. After
 -having been long habituated to
 -miasma, it is probable that the

system

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system requires this stimulus in
 the same manner that opium
 and ardent spirits are necessary
 to those, who have been long ac-
 customed to their use. The opo-
 ration of miasma is very wide
 and invades every section of the
 system, it is no doubt therefore the
 cause of numerous diseases. It is
 well known that all Bilious fevers,
 whether Intermittent, remittent or
 continued, are referred to this source.
 To them we may add Cholera, Dysen-
 tery, Diarrhoea, Chronic affections
 of the Liver, Spleen &c. and proba-
 bly cutaneous affections, especi-
 ally in warm climates, may be re-
 ferred to this cause. But are we
 warranted in ascribing so many
 diseases to one single cause?
 To this I cannot give a satisfactory
 answer

answer, But I believe that in the progress of putrefaction, there may exist many gradations of strength in noxious exhalations, giving rise to various diseases; Thus to the first gradation we may refer Intermit- tent fevers, to the second remittent and continued fevers and to the third or most concentrated species malignant and Pestilential fevers. In the whole of Pathology, there is no circumstance so striking, as that of the single cause of marsh miasmata producing such a va- riety of diseases. - As to the man- ner in which these exhalations act on the body, as to produced dis- ease, we can give no satisfac- tory explanation. -

The atmosphere may be contami- nated with Effic. miasmata. They differ

differs from Koiné-miasmata in being
expelled from the human body
They are generated from all the
secretions and excretions in a
putrid state; but the most a-
bundant source is the perspira-
-tion. The linen to which the pers-
-piration adheres, has sometimes
given rise to disease in women
who washed them. Its diseases
are low typhus and weak Dysen-
-tery &c. Another difference between
human and marsh miasma is
that the former never impreg-
-nates the atmosphere for more
than a few feet from its source.
Experiments have proved that
they do not contaminate the air
at a greater distance than a
few feet. But they adhere for
many months to clothes, brick
and:

and stone walls, for which reason, people should not let their soiled linen remain long in their dwelling houses and they should white wash the walls of chambers in which sick persons have been confined. They never adhere to ground floors, and this is an important fact in the construction of military camp &c. They act more rapidly in cold than in warm weather, in producing disease. This is noticed in jails, and military hospitals, and the reason is obvious. During the summer season the doors and windows are thrown open and allow a current of air to carry them off; whilst in cold weather they are confined, and become accumulated and concentrated.

John W. Johnson

Respectfully Submitted

The Board of Trustees
of the

Central Institute
of the

Medical Society
of the

University of Maryland
for the

College of Physicians and Surgeons

of the State of Maryland

January 1855

An
Inaugural Dissertation
on
Delirium Tremens
Respectfully Submitted
to
The Examination
of the
Provost Trustees
and
Medical Faculty
of the
University of Maryland
for the
Degree of Doctor of Medicine

By Daniel G. Keedy

of Maryland.

January

1835.

No.

University of Edinburgh

Edinburgh, January

Respectfully Submitted

The Commissioner
of the

General Register
and

Medical Faculty
of the

University of Edinburgh
for the

Register of Orders of Admission

James G. Smith

1832

W. G. G. G.

1832

January

Mr. [Name] of [Location]

University of [Location]

Dear Sir, I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed course of study for the [Department] of the [University]. The proposed course is a liberal one, and is calculated to give a general education to the students, and to prepare them for the pursuit of any of the liberal professions. The proposed course is a liberal one, and is calculated to give a general education to the students, and to prepare them for the pursuit of any of the liberal professions. The proposed course is a liberal one, and is calculated to give a general education to the students, and to prepare them for the pursuit of any of the liberal professions.

Yours truly,
[Signature]

To
E. Geddings M. D.
Professor of Anatomy and Physiology
in the
University of Maryland

Whose great skill and extensive knowledge in the
various departments of the Medical Sciences, add
lustre to the profession, and whose integrity of prin-
ciple and private virtues are not less distin-
guished than his professional attainments, the
following short essay is dedicated as a testi-
mony of the esteem, the gratitude and respect-
ful attachment of his obliged friend and pupil,
D. G. Keedy

No.

F. Pickens, M. D.
Professor of Anatomy and Physiology
in the

University of Maryland

These pages contain the
manuscript of the lecture
given to the Professor and
other students of the
University of Maryland
on the subject of
the anatomy of the
human eye and
the structure of the
eye and its
accessories.

Introduction

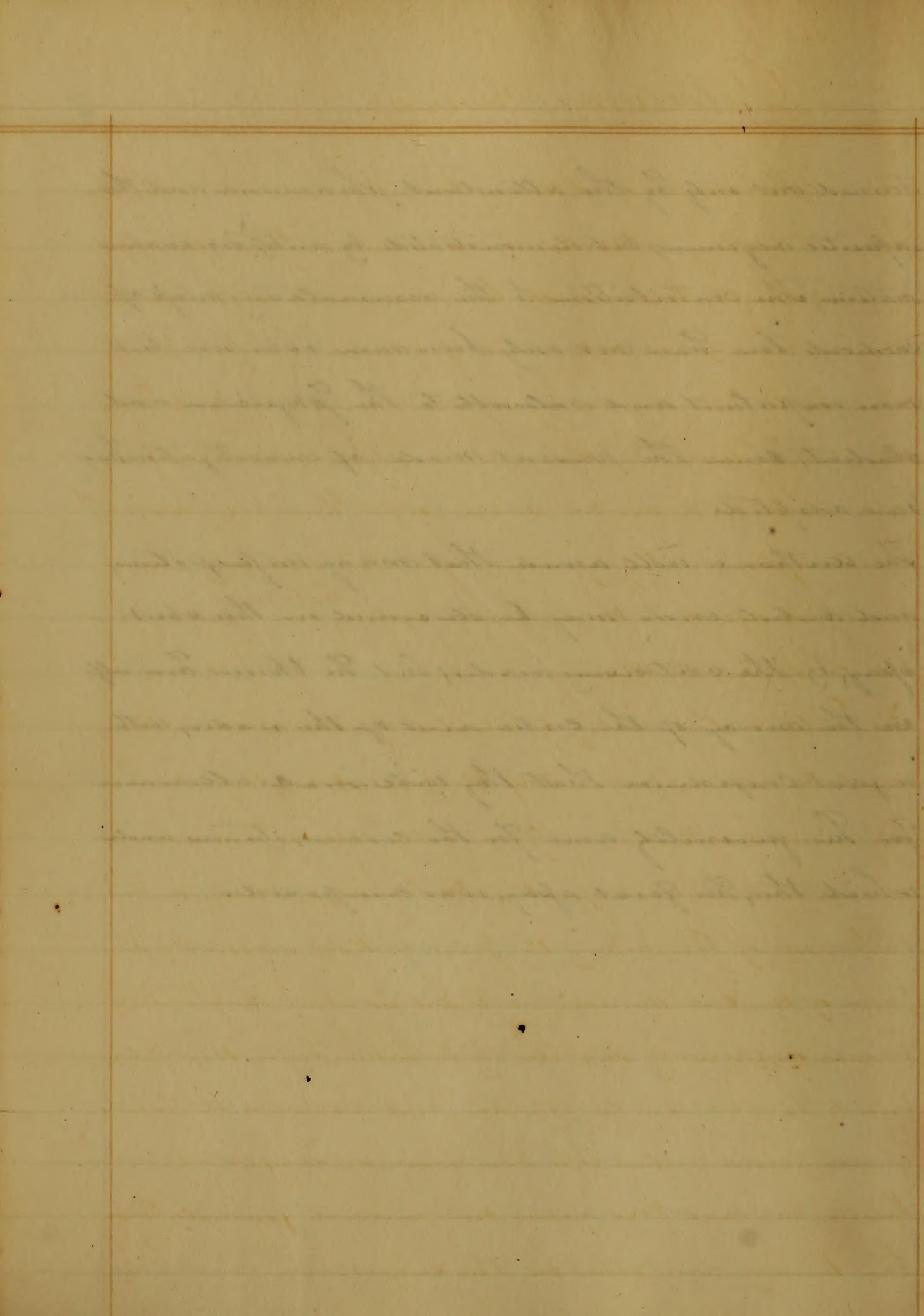
1.

In selecting a subject for a dissertation some considerable difficulty is presented. The great variety of diseases which are interesting to medical practitioners have already attracted the attention, and exhausted the ingenuity of medical writers of the greatest note; and whose descriptions and modes of practice the mere tyro in the sciences cannot flatter himself with the hope of making any improvement. As we have not had the opportunity of instituting a series of experiments or making any personal observations, it cannot be expected that we shall offer anything new or original on the disease upon which we propose to write. It is well known that we, who have not had the advantage of experience and the opportunity of making personal observations, must obtain our knowledge of the medical sciences by reading and reflecting.

The student's facilities for obtaining a correct knowledge of the medical sciences has been much improved; since the day of wild theories and vague speculations has passed, and given place to firm, feasible, and solid positions deduced from observation and use.

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Tained not only by the attendant phenomena and therapeutic regimen, but demonstrated by autopsic examination. The contributions to the accumulating mass of medical lore have not only been more extensive, but more important and valuable to the Physician and Student, since the present mode of investigation has been adopted.

The Author is well aware that many imperfections, and verbal errors may be discovered in this short essay, by the criticising reader; but he throws himself on the mercy of the critic and of the reader, with a just confidence that they will make allowance for his juvenility and for the circumstances under which this, his first essay, was composed.



Delirium Tremens.

3.

The subject of delirium tremens has within the present century attracted much attention from medical writers; much has recently been said and written on the subject, and great dissidence of opinion has prevailed, and still prevails, among different writers as to its pathology and proper method of cure. While some have considered it as a nervous disease, others have regarded it as an inflammatory affection, each class addressing their remedial agents to the particular system, ^{that was} ~~long~~ ~~supposed~~ to be the seat of the disease.

The history of this variety of mental affection is short. Previous to the commencement of the present century, it was confounded with mania from other causes, and was not known as a distinct affection. Dr. Pearson, of Newcastle has the honour of publishing the first distinct account of this form of cerebral disease: this he did ~~in~~ about the year 1801; it was ~~subsequently~~ described by Dr. Gutton. Since then it appears to have arrested the attention, and interested the feelings of numerous writers who have variously described it. Within the last few years our medical journals have been teeming with essays on this subject.

Different appellations have been assigned to the disease by different writers. "Delirium tremens" is the appellation given to it by Dr. Sutton. By Dr. Armstrong it is called "Brain Fever". Dr. Blake proposes as the most appropriate, the title of "Erethismus Ebriositatis". By others it has been denominated mania à potu, mania temulenta, Febris temulenta, &c. The distinguished Peroupaiz, whose opinions are entitled to the highest respect, has taken occasion in one of his works to affirm, that this is a new disease invented by the English. He regards it, as he does all other diseases, as a gastro-enteritis and thinks it should be so called.

Without occupying time, in noticing the reasons on which these different names are founded, or discussing their respective merits; we shall pass this part of the subject by; preferring ourselves, to adopt the name given it by Dr. Sutton, which appears to have been generally sanctioned. By delirium tremens we mean the temulence, delirium, and the accompanying symptoms with ^{which} individuals who indulge excessively in the use of ardent spirits are occasionally attacked.

Symptoms.—The first distinct indications of this disease are usually the following: lassitude; a feeling of oppression in the epigastrium; heaving of food; nausea and occasionally vomiting; giddiness; an uneasiness and sense of confusion in the head. The countenance is generally of a leaden hue; frequently flushed, with indications of great anxiety. The skin is sometimes warm and dry, but usually cool and damp, and occasionally covered with profuse perspiration. The bowels are generally open, but sometimes constipated; nervous tremors of the hands and tongue, the latter being moist, and but slightly furmed. In the latter stages of the disease, the tongue sometimes becomes very dry and chapped. These premonitory symptoms are succeeded after a time, varying according ^{to} the state of the constitution and previous habits of the patients, by the following: watchfulness; an expression of alarm and suspicion by the countenance; a wildness and quickness of the look; the eyes are cast about with quick and scrutinizing glances; the patient becomes irritable, very restless, and sometimes insensible;

He is walking to and fro continually, has no disposition
 to lie down and frequently he can not be persuaded
 to go to bed; if prevailed on to lie down, he is deprived
 of the restoring solace of "balmy sleep," and is harass-
 ed by obstinate pervigilium. The state of the intellectual
 functions vary very much; patients who are robust, are occa-
 sionally very violent, rendering it necessary in some instan-
 ces, to subject them to restraint; but those who are more
 advanced in years and have long been victims to evanes-
 cence, are very easily managed. A patient labouring under
 this form of derangement, is in a state of perpetual
 excitement, laughing and talking by turns incessantly.
 Frequently contends that he is well and is confined ~~on~~
^{account of} some sinister intentions ^{towards} ~~against~~ him, and begs to be
 liberated and permitted to pursue his usual occu-
 pation. During this wonderful derangement of the
 faculty of perception, he is terrified and alarmed
 with a succession of various alarming, disgusting,
 and ludicrous apparitions. The objects of delusion vary
 very much. Sometimes patients are annoyed by cats and
 mice; frequently by snakes; occasionally they imagine

The devil has presented himself, and claimed them as his property. Sometimes he fancies that some persons design to rob, kill, or annoy him. The patient's mind and body are in a ^{continued} state of action; generally he is intent upon some imaginary employment. If he be contradicted in any of his phantasies, he adheres to them very pertinaciously, and becomes much enraged; but if he be dealt with kindly and soothingly, and his attention gained, he will generally reply to questions very correctly.

The pulse, I should have remarked before, is commonly full, but compressible and not very frequent. In old drunkards, the pulse is small and undulating, and as the disease advances to a fatal termination, it becomes weaker and more frequent.

Pathology.— In order to arrive at any definite ideas on this subject, it will be necessary to inquire into the causes of this affection, and their mode of action on the system. It is admitted by all who have written well, on this disease that the habitual use of diffusible Stimula; but more especially of Ardent Spirits, are the predisposing causes. Great however is the dependence of

opinion that seems to exist with regard to their mode of action in the production of this disease. Some writers, whose opinions are entitled to much respect, affirm that this disease is the result not of the use, but of the sudden interruption of the use of these articles. Others, whose opinions are entitled to no less respect, contend that it may be the result of excess as well as of a want of the customary stimulus (Stokes, Marc) Numerous well authenticated cases have been recorded to prove the correctness of the latter opinion, to which we can not hesitate to give credence. The most common immediate cause of the disease appears to us to be in general the sudden cessation of the application of accustomed stimuli, through the medium of the digestive organs, to the nervous system.

The opinions that have been advanced concerning concerning the pathology of the disease are extremely various, and contradictory; so much so indeed that it is almost impossible for us to come to any conclusion as to what is the correct pathology.

Inasmuch as our limits will not permit us to enter into an examination of all the doctrines that have been entertained on this subject; we must content ourselves ^{with making} ~~to mention~~ a few ~~illusions~~ ^{illusions} to the theories that attract most attention, and are most generally received. Dr Eberle says the disease would seem to consist in a purely dynamic disorder—a morbid activity of the brain; from the sudden abstraction of an habitual stimulus by which its excitability had long been depressed or blunted. Dr Coats in a very elaborate essay published in the North American Medical & Surgical Journal considers it as consisting in a heightened activity of the sensorium from the generation, as it would seem, of an inordinate degree of vital activity in the brain. The celebrated Broussais maintains that a gastritis constitutes the primary and essential pathological condition in this disease. That traces of inflammation of the mucous membrane of the stomach are almost invariably detected on post mortem examinations is generally admitted. But that this condition constitutes the proximate cause is still a

mooted point. Those who oppose the gastric pathology, maintain that the gastritis supervenes during the progress of the disease, and is not primary. It may be observed that although inflammation of the stomach, is a very common affection in this malady, and in cases of a fatal tendency, perhaps very rarely absent, it is improbable that it always constitutes the primary and essential pathological condition of the disease; and cannot therefore, be regarded as its proximate cause. Such inflammation occur most probably in the course of the disease, and should be regarded as one among the ordinary consequences of the disease. The importance of attending to this condition of the stomach, in a practical point of view, is by no means lessened by the supposition of its being consecutive; for whether primary or secondary, its reduction or removal must constitute a very essential part of the remedial treatment.

As the result of all our reading and reflections, we would say, that the disease consisted essentially in a morbid excitement of the brain, as is exemplified in the increased activity of its functions,

with a depression of those of organic life. Should the patient after having long indulged in the excessive use of ardent spirits break off suddenly, and abstain altogether from his accustomed stimuli, the abrupt withdrawal of so much excitement, would weaken very much all the general action of the system, producing very considerable exhaustion; but in every exhaustion or depression, nature makes an effort to react, so that shortly, there is developed preternatural action, particularly in the brain — ^{as Dr Blaise has said} we say, that in consequence of the sudden cessation, of the application of accustomed stimuli, the nervous power gradually, sinks to the lowest ebb, and in endeavouring to rally and re-establish the lost equilibrium between it and the vascular system, its efforts exceed the exhausted resources of the sensorium, the consequence of which is delirium, &c. When the disease results from excessive stimulation, it is perhaps always dependent on a gastritis. The manner in which this excess of stimulation operates in developing the characteristic symptoms of the disease we will not attempt to explain.

Treatment.— If it be true that the characteristic symptoms of the disease may arise from two different causes, our mode of treatment must of course be diversified according to the nature of the ^{immediate} cause and symptoms in general. To treat every case alike, regardless of its nature would be a manifest departure from sound practice; and a part of a system not yet exploded;— the system of prescribing for names and not for things. We should always pause and consider the nature of the case; before we adopt a plan of treatment, so that it may be consistent with sound pathology.

When an individual is attacked with the disease in consequence of a want of his customary stimulus, we are led a priori to infer that the exhibition of stimulants will be productive of benefit; but is this mode of treatment proper or admissible when it arises from excessive stimulation?— certainly not. Dr Stokes avers that he has never seen a case of excessive stimulation benefited by the stimulating treatment, nay more, he has seen many patients, who had been treated in this way, die with symptoms of inflammation.

tion of the brain or stomach. In this variety, opium is
 the remedium magnum; but it should always be
 employed with extreme caution, not be had recourse to
 exclusively, without any regard to the existing state
 of the constitution. In the employment of such potent
 agents, there should be great caution and vigilance.
 In cases of simple mania, with great coolness of
 the surface, with soft pulse, unaccompanied
 by any ^{proternatural} heat of the head, we would rely on opium.
 It is not often, we think, that such cases occur.
 When the delirium is complicated with symptoms of
 gastritis or inflammation of the brain the use of opium
 should always ^{be} preceded by the employment of
 such means, as are calculated to subdue or
 remove those affections. If we reduce the active
 state of the system and diminish the inordin-
 ate determination to the head, by general and
 local depletion, and revulsion to the abdomi-
 nal viscera by means of active cathartics,
 together with free use of cold to the head; the
 employment of opium, will no doubt be followed

by the happiest effects, in calming the excitement and producing sleep. The quantity of opium which is required, varies according to the condition of the patient. When the disease is fully developed, and the system in a proper condition to bear it, it is necessary to begin with six grains, and repeat it in an hour, and then suspend it. When given in this decided manner, a very powerful impression is produced, and often the patient will fall to sleep in a few hours (Carter). Some practitioners recommend it to be given in two or three grain doses, every hour or two, until sound sleep is procured. Dr. Jackson of Northumberland, says that we cannot cure this disease in its worst forms without giving from ten to fifteen grains of opium every two hours, till long-continued sleep be induced. Dr. Wright of Baltimore says that his experience leads him decidedly to prefer half-grain doses of opium, or an equivalent in Laudanum, repeated every half hour.

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Blood letting. — Great difference of opinion exists among practitioners with regard to the propriety of blood-letting in this affection; not so much however concerning the propriety of local as general blood-letting: Few individuals indeed at the present day will deny the salutary influence of cups and leeches in the treatment of this malady. We should be guided in the employment of this agent, ^{as well} as of all other remedies by the indications; and not throw aside all our usual principles of action and abandon ourselves to a blind and exclusive system of routine as is too frequently the case, we think, with practitioners in the treatment of this most formidable disease.

When the disease results from the want of the customary stimulus and occurs as it generally does in persons whose constitutions have been wreathed, or very much shattered, the system exhausted by want of sustenance for several days, Venesection is rarely, if ever demanded. The employment of it in such cases would certainly be attended with the most serious consequences.

But when the disease arises from excessive stimulation

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and attended, as this variety always is, with symptoms of inflammation of the mucous membrane of the stomach, pulse pouring more than ordinary force, with great determination to the brain we should not hesitate to abstract blood freely. When the general strength will not bear venesection and there is too much activity of the vascular system for the successful employment of opium in any case, the application of cups, or leeches to the epigastrium, and to the temples or behind the ears is of the greatest importance. In fact we think there are but few cases in which local bleeding is unattended with benefit; for as we have already said that if there are not symptoms of gastritis in the inception of both varieties they almost always supervene.

Emetics.— This class of remedial agents has been highly recommended for the cure of this affection by numerous and respectable writers; whilst others no less respectable have prohibited them altogether. Dr Klapp has advocated their use very enthusiastically and seems to have ~~re-~~ depended upon them ^{almost} exclusively. It appears to us that there are not many cases in which they are indicated

and that no cases occur in which we would be justifi-
 cable in depending exclusively ^{on} them. If morbid and
 irritating accumulations exist in the stomach, the utility
 of promising an emetic to the use of opium is very evident
 but they should always be employed with extreme cau-
 tion. In some instances it is extremely difficult to
 excite emesis. Dr Klupp says he gave one of his patients
 20 grains of tartar emetic before it excited great vomiting &
 cathartics. — In regard to the use of cathartics in this
 disease Professor Potter observes that "although the necessity
 of a soluble state of the intestines is obvious in almost every
 condition of fever, it would appear from repeated obser-
 vation, that cathartics are not to be ranked among the
 radical means in the treatment of the fever; (Mercurium ter-
 mend) and indeed they are but feeble auxiliaries, except
 in such cases as are attended with, and favoured by,
 some vitiated secretion". Dr Eberle remarks that "it has
 appeared to him that without administering one or two
 mild purgatives preparatory to the employment of opium
 the free use of this article has a tendency in some instances
 to give rise to dangerous determinations to the head, and to

bring on coma instead of healthy sleep; and similar views on this subject have been expressed by numerous other writers.

Although "Cathartics are not to be counted among the radical means in the treatment of the Malady" they certainly are of considerable utility when vitiated secretions exist in the bowels. And in those cases, where active determinations to the Head exist and not much gastric irritation, there is perhaps nothing more useful, in subduing the inordinate action, by remission to the abdominal viscera. When much gastric irritation exists enemata should be employed to evacuate the bowels and also to effect remission.

Warm and Cold applications. — The warm bath has been highly recommended by Dr. J. M. Wright of Baltimore as an agent for restoring the equilibrium of the mind. If we take into consideration, that the warm bath generally has a soothing influence, and is well calculated to calm irritation, we may well conceive how it may exert a salutary influence in this disease. Tepid affusions were employed by Dr. Armstrong with much benefit. Cold affusion also, was employed we are told by Dr. Armstrong with decided advantage.

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If the patient is very wild, with great heat of surface, & action in the head, the dashing of cold water over the head if the constitution has strength ^{to} react, may be very effectual in diminishing cerebral action, and equalizing the excitement of the system. The extremities should at the same time be stimulated by means of ^{aromatic} ~~stimulus~~ ^{stimulus} Ardent Spirits. — We are constrained to coincide with the opinion with Dr. Clarke, in regard to the use of Ardent Spirits in this disease; that there are not many instances where it is absolutely necessary, and that Opium will in general, do all that can be effected by Stimulants; this kind.

Before we conclude this imperfect essay, it remains for us to return our most grateful Thanks to the illustrious professors of the Medical department of this University, for the permanent advantage which we have derived from their truly valuable Lectures, and for the polite attention which they have individually manifested towards us. That they may long continue to exercise the duties attached to their respective departments, with the same reputation that has hitherto characterized their labours, is the fervent wish of their obliged and grateful Pupils.

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The

Inaugural Dissertation

upon

Cholera Malayna

By
J. G. ...
M.D. ...

An
Inaugural Dissertation

upon

Cholera Maligna

Respectfully submitted to the Provost
The Trustees and the Medical Faculty
of the University of Maryland

for the

Degree of Doctor of Medicine

by

John Pearson Smith

of

Columbia South Carolina

1835

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Cholera Maligna

The subject of my Thesis is a disease upon which millions of valuable lives depend, a disease that has carried in its train death and desolation, spreading dismay and horror in almost every part of the habitable globe; exciting the most unpleasant and appalling feelings the mind can well conceive of; and this not confined alone to individuals unacquainted with the science of Medicine, but terrifying those, who above all others, should be calm serene and deliberate in all that he does in cases of emergencies-- Get how true it is, upon the first appearance of any new (or at least new to them) disease the mind of the Physician is disconcerted, as well as the mind of those who are uninstructed in medicine; whether this follows as a matter of course I dont pretend to say

how ever true the observation may be, it is not at all applicable, to the Physicians at present, in regard to the Cholera Malignant; for in this, as well as in other countries, where the Cholera has spread its devastations, they have had line upon line and precept upon precept, and if they err it is in judgement or for the want of proper tact, or what is even worse for the want of an attentive examination of the disease as it presents itself.

But these remarks can only apply to Physicians who have lived in places where the Cholera has made its appearances.

Malignant Cholera, is a disease that can be reduced to writing, and should ever this ^{have} called forth the energies of men fully able and competent to give the subject a proper investigation, and to throw upon it

that useful and practical light so much needed; notwithstanding the importance of this investigation, it has been in some measure neglected. The want of facts occasioned by this neglect I, by no means dare presume to supply and if I did, my inability would be a sufficient barrier.

It has been said by individuals who really ought to have known better, that the disease is involved in so much obscurity, that there is no possibility of gaining any knowledge that could be aduced to useful practice. This, and like ideas have done much harm in retarding or paralyzing, the energies of those disposed to give a proper examination, and is the case, not only in the present disease, but in many others to which the human family are equally liable, the pathology of which are

are now well understood, and of course a proper mode of treatment adopted. This knowledge of the morbid condition under which the system labours, was not obtained by implicit reliance upon the idea there was nothing to be learned in reference to it. What would be the condition of the world, if the disciples of medicine were to let their energies slumber whilst such gloomy foreboding clouds were gathering over them? Would it not present to every eye a scene truly deplorable! One that would put at defiance every attempt at delineation. Happily however, we are not ^{so} unpleasantly situated, though our resources are truly limited; quite enough, upon subjects of this kind.

5-

Asphyxia and spasmodica have been used by some Physicians, to designate Malignant Cholera, however these terms are not very appropriate as applied to Cholera; they are often absent and indeed never present—only as symptoms, and ought ~~only~~ to be used to designate the different stages of the disease, which is generally marked, by premonitory, spasmodic, and ^acollapse state

The primary cause of the disease perhaps is not fully known, by some it has been referred to the decomposition of animal, and vegetable substances; by others to a specific contagion; again it has been referred, (and perhaps with more propriety) to the existence of a peculiarity of epidemic influence in the constitution of the air

*

In 1775 the influenza was the prevailing disease in America and Europe

Noah Webster in his book on pestilential and epidemical diseases published in 1799 refers it to certain electric influencies, occurring in certain series, detilering the Atmosphere

He say the near approach of Comets the eruption of Volcanoes, and any unusual phenomenon, generally proceed epidemics &c By producing certain changes in the Electric fluids - This doctrine, in regard to epidemics generally, is not altogether without foundation. The following facts that the "influenza of 1708 was preceded by a meteor or fiery globe the measles in America in 1758 was preceded by a meteor. In 1771 a meteor and then commenced the measles and influenza. In 1775 a meteor, and then the Cynanche Maligna prevailed*. In 1783 two meteors and then commenced the Scarlatina

The first of these is the fact that
the number of specimens of
the species in 1979 is very low
and the population is declining
at a rapid rate. The reasons
for this are not clear but
may be due to a combination
of factors including habitat
loss and over-harvesting.
The species is listed as
endangered in the United States
and is protected under the
Endangered Species Act of 1973.
It is also listed as endangered
in several other countries.
The species is found in
the mountains of the Sierra
de Guadalupe in the state
of Chihuahua, Mexico. It
is a small, slender, herbaceous
plant with a single stem
and a few narrow leaves.
The flowers are small and
white. The fruit is a small
capsule. The plant is very
delicate and is easily damaged
by trampling or fire.

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Scarlatina Anginos; In 1788 another
meteor and immediately began the
measles. These facts seem to be of
more importance than we are will-
ing to admit - He farther remarks

"if these coincidences are all the mere
work of chance, they are certainly very
singular kind of accidents." And is
it not very likely, similar occurrences
since 1788 - in regular succession, might
have been noticed, even to the present
day - Previous to the appearance of
the cholera in Baltimore 1832 there
was a remarkable change in the
atmospher, assuming a peculiar diskey
yellowish appearance, this was ^{not} per-
ceptible to the naked eye until the
14th July when it was perceived by
many persons - Another fact that seems
to corroborate the doctrine of Electric
influence is during the progress of
the Cholera 1832 in Baltimore

* Loeb Potter says that this new combination
is a ~~poem~~

no thunder or lightning was apparent during the whole time of its prevalence, the atmosphere was heavy respiration, very difficult, the mind depressed, no disposition, to perform the usual avocations of life, an apparent indifference, to those around us. This state of things, does not exist long before the actual appearance of the epidemic. Previous to its appearance, its influence is very manifest, by the change of the air, the new combinations formed therein* exerting its mofic principal, upon the animal kingdom, untill it becomes fully developed - its baneful effects are not confined to the mammilla tribe, but all the animal kingdom, are more or less affected, horses, cows, hogs dogs, and fowls have died under its influence, the numerous and

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and great varieties of small birds that frequented the yards and gardens, left the city on the first day of Cholera, and those that were confined in cages ceased to chirp during the whole time of its prevalence — If this existing condition of the atmosphere was the cause of the Malignant Cholera, may it not be asked; why every person was not affected at the same time? was not this peculiar epidemic influence, in the constitution of the air surrounding thousands that escaped?

This may be answered in the affirmative; nevertheless this predisposition or tendency, was in a great measure modified by a proper attention to the principles of Hygiene — It is evident that this tendency did exist from the following facts

mentioned by Prof: Potter, every person that was bleed during the time of Cholera, wether sick or not, presented blood simular in every respect; Their tongues also was very much alike,

The degree of intensity depends upon the violence of the cause, which acts upon the system like a poison: This seems to fall heavier on some places than others, especially where there is a number of persons crowded together in a cholorine atmospher, their vicious breath &c &c can but increase the disposition.

In 1830 it was noticed that there was a great disposition to inflammatory diseases - Gastric irritation Diarrhee &c &c differing in many important points in there usual pathology and of course requiring a different mode of treatment - In the winter of 1831 Catarrh, Bronchitis, Pneumonia &c were attended with inflammation of

of the bowels; Indeed in every disease there was a remarkable tendency, to terminate in Cholera

The pathology of this disease perhaps we know something more about than we do of its direct, or indirect causes,

The sympathetic ^{system} seems to be primarily affected, the functions of the liver are interrupted, the bilious secretions are suspended, great inward congestion, gastritis, enteritis &c &c indeed it presents to the Physician, some new form or modification, in every individual case, it is generally preceded by a fulness of the head &c. during its existence many persons experience, considerable difficulty to keep awake through the day, nevertheless when night approaches, they are watchful and get to sleep they cannot but doze away the night in unpleasant dreams

pain in the region of the stomach generally precede the attack for two or three days. its progress is hastened by ~~the~~ immoderate indulgence at the table, eating of different articles of diet, overwatching, great anxiety changes in diathesis, change in water, fear, grief, sorrow & indulging in excesses of any kind. all tend to bring on the disease; the rice water or albuminous evacuations now appear; the bilious secretions are suspended when this obtains there is generally a disposition to spasms.

In all who breathe the infected atmosphere present alike, white tongue discoloured, as if by a mixture of tin and ashes, dove coloured &c and it is always moist. which passes off with the cholera or Choleric symptoms, the blood is black, resembling in appearance a mixture

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of root and water, which is not easily coagulated, has very much the appearance of molasses &c. some express their indisposition by a pain in the breast, a sense of sinking &c finally the skin is of a bluish hue, becomes quite relaxed, looks old and dead and when it is caught between the fingers it will hang loosely over the cellular membrane, this leaden hue may be refer'd to venous congestion, the arterial blood retains its floridity

As above mention'd, the degree of disease depends, upon the violence of the cause, the change of the secretions &c - our indications of cure is to change the secretions, remove the congestion of the deep seated vessels &c.

all external stimulants are unnecessary as they are of no use whatever

When the skin is blue and feels hot to another and yet feels cold to

him and with it a desire for cold drinks let him have it. When the tongue is red, rough and like a piece of raw beef, it is always connected with great Congestion. The Pulse are not frequent, unless there is spasm, then, they are so frequent that they cannot be counted

perspiration cannot be induced by the application of any remedy in the class of stimulants, Calomel and the lancet seem to be the Sampsons in this disease. The Proto-Chloride Hydr. should be given until the gums are sensibly affected; persons in collapse have recovered by this mode of treatment, if there is any perceptible pulse or any pain bleed; and if not with success, the want of success will depend upon a want of vitality to act upon, the most

but the bad ones, and these ought
 not to be abandoned too speedily, we
 should disregard all fear of the dis-
 ease, cautious in diet, eat but little,
 all acids, fruits, cabbage, sweet
 potatoes, lattice — Pork, poultry, fresh
 fish. Oysters, crabs &c Corn bread
 puddings, pastries &c should not
 be made use of — it would be well
 to apply a strengthening plaster over
 the region of the stomach during
 the existence of the disease, all
 stimulating drinks should be dis-
 pensed with for the time being, the
 practice of taking purgatives to
 prevent the disease is dangerous,
 especially so, when the neutral
 salts are taken — Cathartic have
 been too highly estimated in the
 treatment of this disease, however
 in the onset of mild cases Emetics
 Cathartic, are valuable remedies and

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remove the congestion - aperients, are
often very beneficial, when used
after Calomel. . . . Emetics are
useful in the forming stage of the
disease, and this is the only stage
in which emetics are admissible
if given at this stage they very
frequently cut short the attack -
the Antimonials, Sulph: Zinc: and the
Sulph: Capri: are objectionable, we
should therefore select with judge-
ment our ^{emetics} remedies - the best of
which are The Chloride of Sodium
and water or Pulv: Ipecac:

Blood letting is more beneficial
in some cases than others but when
judiciously used is one of the most
valuable remedies in our possession
- When the pulse are frequent, full,
and tense or slow and full, ven-
section will accomplish much in
its cure by removing the congestion

a white tongue, hard, frequent and distinct pulse always indicate venisection - even in the depressed or collapse state of the disease, when there is a tense pulse we should never hesitate to bleed the patient and to follow it up by Calomel with a view to its specific effect. if this effect is ^{produced} (salvation) the patient will recover attention should be paid to the evacuations, which take place after the collapse state - here we must lay aside mercury and rely upon bloodletting which is our principal means of cure.

In that stage of the disease which is merely diarrhea, if we fail with the Proto: Chlo: Hydr: and Opium & bloodletting followed with Calomel will generally produce the desired effect; however the Opium should never be given in Diarrhea when there is fever.

* if after the removal of the leeches, the cups
were applied immediately over the part, it
would I have no doubt answer a much
better purpose than a simple scarifying
of the parts, the impulsion produced in
this way would (I think) be far more ad-
vantageous than the loss of an equal quan-
tity of blood by bleeding from the arm

In regard to the manner in which depletion should be performed there ~~has~~ is some discrepancy of opinion Dr Potter says local depletions are inefficient in this disease, he say when blood is drawn by leeches or by the cup the heart and arteries always accommodate themselves to the loss,* but when drawn from a large vessel it makes a decided impression upon the circulatory system and in this consist its remediate efficacy — There has also been much discrepancy of opinion in regard to the quantity of Calomel given as a dose, in this affection — by some small dose from 1 to 2 grs have been recommended as alteratives but Dr. Potter says there ~~was~~ ^{never} was a case of violent Cholera cured by this practice 'he says' when the condition of the Stomach is such, that there is violent purging

Purging and emesis of rice water, congestion of the vessels and inflammation, small doses of Calomel can do no good, but from 20 to 30 grs should be given — The deeper the congestion, the larger the dose ought to be; when it is approaching the collapse stage from 30 to 40 gr of Calomel should be given, here blisters are useful and only here

De
Morbo venereis

Dissertatio inauguralis

a

Mario Ahlenfeld

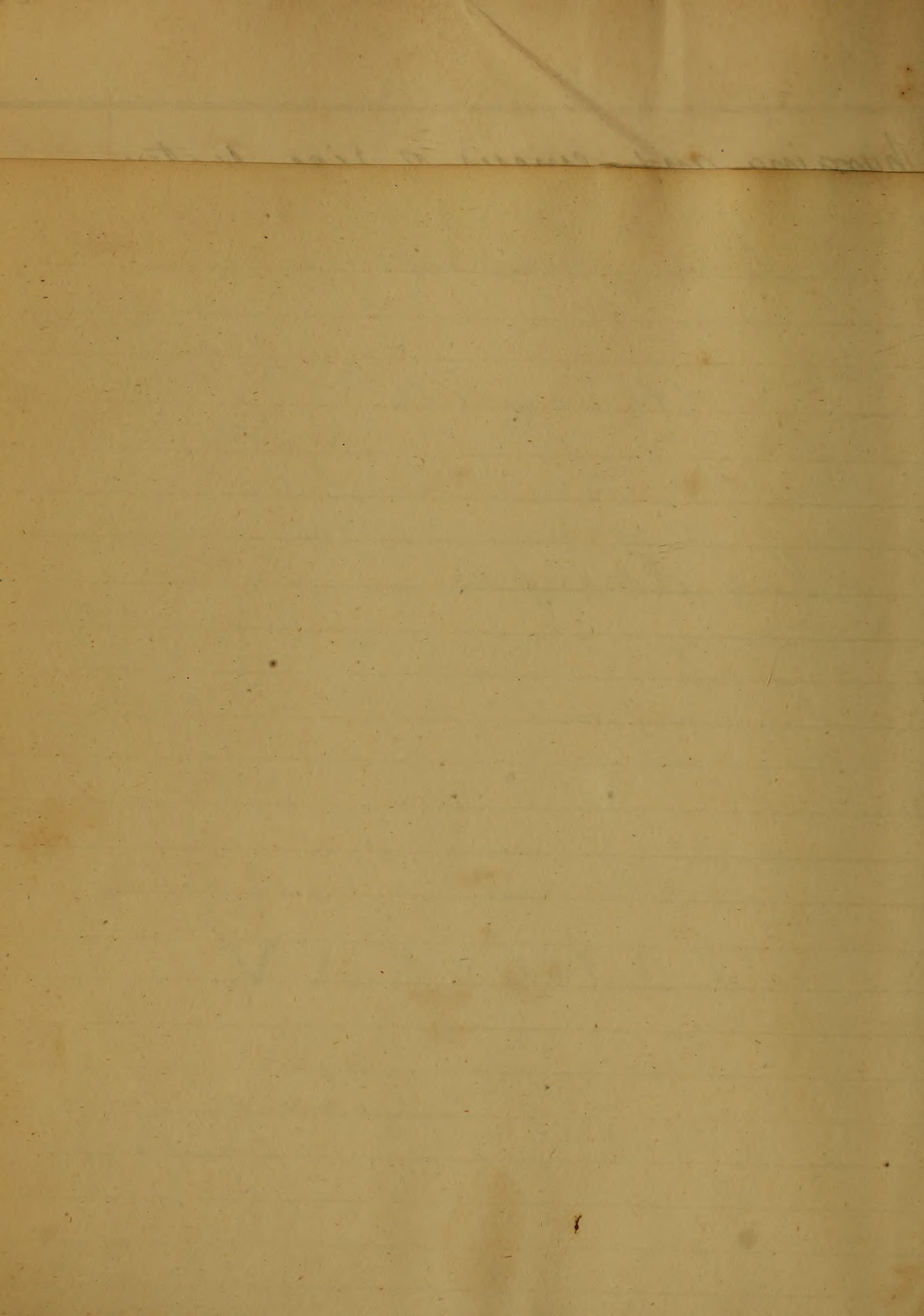
Pomeriano

Baltimore

M. D. CCC. X. X. V.

Examined & approved.

E. Hedding



Geschichte der Syphilis

Schon im fünften Jahrhundert beschrieben die griechischen und römischen Schriftsteller die venerea, das Pulo etc. Krankheiten die in den allermeisten Fällen syphilitischen Ursprungs sind.

Die Fälle waren aber so selten und so gutartig, daß man es fast für überflüssig ansah, ihr besondere Aufmerksamkeit zu widmen, und sie daher nur mit flüchtigen Worten abgehandelt findet. Bis sie endlich zu Ende des vierzehnten Jahrhunderts in Europa mit solcher ansteckenden und verheerenden Kraft auftrat, daß man sie sehr lange als eine der furchtbarsten und wichtigsten Krankheiten betrachtete. Bis sie in der neuern Zeit wieder unglücklicherweise zu werden beginnt.

Ursprung der Syphilis.

In America war sie schon lange Zeit vor Columbus Aufbruch, als eine alte Krankheit bekannt.

Ob sie aber wirklich von da nach Europa verschleppt wurde, und folglich die in den ältesten Schriften dergleichen genannten Krankheiten keine venerische waren, ist ungewiss. Schwediaur ist der Meinung, dass die Krankheit von jeher auf der ganzen Erdoberfläche geherrscht habe, und nur unter einer andern Gestalt.

Allgemeiner Charakter der Syphilis.

entsteht von einem ganz eigenthümlich,
 specifischen Gifte, welches sich durch
 einen Peischlaf, oder durch Application
 von einem von der Epidermis entlösten
 Gifte, durch die Einsaugung eines dem
 Körper mittheilt, sich in der Lymphe repro-
 ducirt, und sich durch Entzündung, Geschwüre,
 Tuberkeln, Geschwülste und after. Organisations-
 anstalten, deutet.

Es ist aber meiner Ansicht gemäß nicht er-
 wünschlich, daß die der Gift aufnehmende Stelle
 in der Epidermis ganz entlöset sey, sondern wenn
 dieselbe durch mechanische oder chemische Wirk-
 ung so beleidigt ist, daß sie sich dadurch in ein
 and. Zustand der Irritation befindet; wofür
 dann zu erklären ist, warum das Gift dieses
 ist nur durch die Thierwähler, Mutter schenke,
 Mastarm, den Mund mittelst Tabakpfeif-
 e und Conjectura dem Menschen zugeführt
 werde, indem die Schleimhaut des Oropharyn-
 chen System durch den Haarn immer in einem

gelind reizenden Zustande sich befindet,
 desgleichen der Mastdarmes durch die *Facies*
 Die Schleimhaut der Mutter Scheide durch den na-
 en Schleim der von den *folliculis mucosissimi*
criptis sebaceis in den *columnis rugarum*
 abgerollert wird: ebenso die conjunctiva der
 Die Thränenfeuchtigkeit: Desgleichen die Schleim-
 haut der Mundhöhle durch das *empyrea*
 sche Öl welches aus der Pfeifenpitze hervorkommt.

Dieses aber scheint mir nicht wahr-
 scheinlich, daß das Gift mittelst Küsse oder sonst
 anderen sanften Berührungen dem Men-
 schen mitgetheilt werden könne, ausgenommen
 wenn die Syphilis schon in der Mund- oder
 Rachenhöhle haftet, dann kann freilich der
 stinkende Speichel, die Schleimhaut der
 Lippen des geküßten zur Aufnahme des
 Giftes fähig machen.

Einteilung der syphilitischen Krankheiten.

Die Wirkung des Giftes erstreckt sich entweder
auf einzelne Theile. Das heißt; nur auf solche die
mit dem Gifte in unmittelbarem Contacte stehen;
oder sie erstreckt sich auf den ganzen Körper. Das
bezieht sich auf solche Theile die weit von der Berührung
Stelle entfernert sind; und darnach theilt man diese
Krankheiten ein; in örtliche und allgemeine
Morbi venerei topici et universales.

Diese Einwirkung ist aber keine sich immer gleich
bleibende, absolute Einwirkung; sondern sie
leidet durch die Individualität des Kranken,
die Art der Mittheilung; und die größere oder ge-
ringere Reinermpfindlichkeit. Die mannich-
faltigsten Modificationen. Daher die so vielen
Formen; der wechselnde Verlauf des Übels,
welches sich oft lange nur auf einen einze-
len Theil beschränkt; bald aber auch sehr
rasch eine allgemeine Krankheitsart,
morphose in die Lymphgefäße setzt.

6
A. Oertliche Syphilis

Die oertliche syphilis, oder welche Benennung nach
logischer ist primitive syphilis ist eine Ent-
zündung eigenthümlicher Art, welches als
Folge der unmittelbaren Einwirkung des giftigen
auf die Schleimmembran der Ruthe, der Mutterscheide,
des Mastdarmes, der Augenhäuten, der
Mundhöhle, oder auf andere gewissen Stellen
einen pathologischen Schleim, Absceder
erregt, seltener wirklichen Eiter, d. h.
Chanker producirt.

Die wichtigsten Arten der örtlichen syphilis sind
folgende:

1. Gonorrhoea, Menorrhoea, Tripper;
2. Pus albus, weißer Fluß;
3. Aphtharum gonorrhoica;
4. Ulcus syphiliticum, Chanker.

P. Allgemeine Syphilis.

die allgemeine syphilis, oder die bessere Benennung
syphilis secundaria, s. insensitiva.
erscheint unter mannichfaltigen Krankheits-
formen; von welchen die mehren an solche
stellen vorkommen, die von dem infectierten
te weit entfernt sind.

die wichtigsten sind folgende:

Affektionen der glandulösen Gebilde:

Orchitis, Orchitis, Kernia humoralis,
Entzündung der Hoden;

Epididymitis, Entzündung der Beinhoden;

Pauca, Leisten, Beulen;

Phymosis, Einklemmung der Eichel;

Paraphymosis, Spanisches Kragehen.

Mancher wird freilich einwenden wollen,

daß die zwei letzteren ⁱⁿ keinen glandulösen

gebilden ihren Sitz haben, es wird nicht

zu weit führen, hier diese Einwendung

zu berechtigen.

b. Affectionen der Schleimhäute;
 vorzüglich erscheint diese Affection in der Schlund-
 röhre wenn sie sich selbst überlassen bleibt, zerstört
 sie die Gaumenbeine und die Nase

Ordo syphilitica.

Die syphilitischen Polypen in den verschiedenen
 Höhlen kommen nicht so häufig vor, und ich
 zweifle fast ihre Existenz bezweifeln.

c. Affectionen der äussern Haut; von denen die
 am häufigsten vorkommen folgende sind;

Urticaria für sich trocken und gefurcht; kommen
 gewöhnlich am Gesichte und den Händen vor.

Condylomata, Feigwarzen, für sich weich und
 fleischartig. Sie kommen gewöhnlich vor an der
 Ruthe, und den After, in welcher letzteren gegen

sie gewöhnlich breit sind *Condylomata lata*
 und zuweilen ganz geschwürartig aussehen;

so daß der Mangel sich leicht mit der Pflaster-
 reuecht; ferner kommen die *Condyl.* vor an den
 Schultern und am das äussere Ohr.

Die *C. arboræ* s. *moræ* habe ich nur an den
 Eichel beobachtet.

Peritulae syphiliticae kommen gewöhnlich

gerichte vor, und wenn sie die ganze Stirngegend
 und von Schläfe zu Schläfe einnehmen, so
 sind dieser ausschlag (Cronoverer's genannt,
 hayades sine signis interius hinc in der
 Lananus vor.

erpes syphiliticus. Die Species die ich beobachtet
 heißt ulcus herpeticum, und zwar immer nur
 in gerichte.

Die seromatöse Entartung des Testikels, als den
 einer penis habe ich nur selten Gelegenheit
 gehabt zu beobachten und gehört zu den
 Affectionen der glandulösen gebilde

Affectionen im Knochen systeme
 wöhnlich leiden nur solche Knochen die nicht
 in vielen Muskeln bedeckt sind. Dahin gehören
 Tibia, humerus, Clavicula, und die ossa cranii.
 diese Affectionen bestehen anfänglich nur in
 einem subinflammatorischen Zustande der
 Knochen selbst, und ist nur nachtheilige Knochen,
 Schmerzen verursacht; hernach aber bewirkt es
 Resudation zwischen dem Knochen und der
 Haut, welches wenn sie weich anzufühlen
 ist: gummata und wenn die so geschwülste

10.
hart sind: Radii Populi heißen. Ist der Knochen
selbst aufgetrieben so heißt es Exostosis syphilitica
und im letzten Falle entsteht Caries syphilitica.
Man will der Syphilis ferner noch andere Krank-
heiten zuschreiben als Lungenblennorrhoeen u. s. w.
welches aber von der Erfahrung doch vielleicht nicht
bestätigt ist.

Die Syphilis hereditaria habe ich nur einmal die
Gelegenheit gehabt zu beobachten.

Prognosis

In Hinsicht den Kranken zu heilen, ist sie mit
Ausnahme der Ophthalmia gonorrhoeica,
fast immer heilbar und so wohl bei der allgem.
nen als bei der örtlichen, und fast in allen
Formen, so lange das eingebild. noch nicht
völlig zerstört ist. Nicht so aber in Hin-
sicht dem chronischen Verlaufe vorzubeugen
welches bei der größten Sorgfalt des Arztes
und der strengsten ^{Folgsamkeit} ~~Beobachtung~~ des Patienten
doch zuweilen erfolgt.

Die Behandlung der syphilis.

Uebergang der Methoden, die syphilis ohne
 erinner zu heilen, welches die Grenzen dieser Profer-
 tion überwinden würde, will ich hier nur
 er die Behandlung mit Mercur, welches doch
 sicherste ist, besprechen. Gleichfalls erlaubt
 in Zeit und Raum nicht weder über die Pigin-
 einzelnen Formen, noch etwas über die äuß-
 e Behandlung der Chanker, Condylomen,
 Stitis, Epididymitis, Procto. herpes syphilitis.
 über ich manche Erfahrung gesammelt
 habe und darüber nicht wenig sagen könnte,
 schreiben.

Wirkung des Mercur
 mannichfaltig die Behandlungweise des
 erivers ist, so unzählig sind fast die aufgestellten
 Regeln über seine Wirkung, welches,
 reicht ^{mit 30} mitunter stattfindend, Spitzfindi-
 in Theorien über allgemeine Pathologie. Den
 ungehenden Arzt nicht selten zu Mißgriffen
 leiten; nur unserer Zeit scheint es

12.
verbehalten zu sein, die Medizin von allen solchen
unsinnigen Wortkram zu reinigen, und die
Behandlung der Krankheiten durch die Ver-
einigung der Empyrie mit dem Rationali
mus sowohl, als mittelst der unbefangenen
Anrichten über Materia medica, mit glücklicherem
Erfolge gekörnt zu sehen.

Hufeland sagt "Mercurius est ein solvens
decomponens, absorptionem lymphaticam pro-
movens, desoxydans, cohaesionem et energiam
vitalem minuens, antiplastica, salivam
movens, secretiones augens etc." Mit der
Aussicht über Mercur wird man leicht aus
Krankheiten die Indicationen für seine An-
wendung festzustellen, und nach Umständen
zu modifizieren wissen.

Mercurialpræparate.

Die Präparate welche wir uns gegenwärtig bedienen
sind eigentlich nicht viele, und nur das Calomet
actives Sublimat, m. subl. corrosives oder Zinnober
Zinckars und die graue Quecksilbersalbe Arzt
Hydrarg. ciner. sind unentbehrlich.

erzählige Methoden bei der Anwendung
quersilbers.

Mit ^{der} Übergang der unpassenden und zum
Theil obsoleten Methoden als die Extinction
der Dämpfungsur; 2) die Diaphoretische Sur;
die Räucher Sur; 3) Zivello's Methode: Ein-
reibung des Sublimats in die Fußsohlen;
Bäuerle's antivenerische Fußbäder;
Clare und Cruikshank's Methode: Einreiben
Salomel in die innere Seite der Backe; und
Boyers Sublimat Clystier, will ich nur
Lauviersche Schmier Sur, verbessert von
Lust; das Litzmannische Peccat und Zouls
Sublimat Pillen anführen.

Die Schmierkur. Frictionskur. grand remède

Sie war schon in frühern Zeiten bekannt
 ist aber hernach fast in Vergessenheit
 gerathen; bis ihr endlich Lavoisier und vorzüg-
 lich Rust großes ansehen wieder verschaffte.
 Rust hat sie auch auf nicht syphilitischen Krank-
 heiten ausgedehnt, denen eine völlige Störung
 des Reproductionsprocesses zum Grunde liegt. End-
 lich nach seiner Meinung der Mercur nicht als Spei-
 gmittel; sondern als die Thätigkeit des Lymph-
 systemes erhöhend, wodurch die Resorption bis
 zum Uebersaß gesteigert, das bereits Entartete zu
 Norm wieder zurückgeführt, das ganz unbrauchbar
 gewordene entfernt, und so eine völlige Uebers-
 des Organismus hervorgebracht wird, also ganz in
 übereinstimmung mit Hufelands Ansicht.

Indication für die frictionskur.

Wir nehmen unsere Zuflucht zu dieser eingreifenden
 und ich möchte sagen heroischen Kurmethode, nur da
 wenn wir von dem internen Gebrauch Reiner
 gebrauch machen können. Dieses ist der Fall wenn die
 Verdauungsbeschwerden den innern Gebrauch des

sterns verhalten; we auf den inneren Gebrauch zu sein.
 Der zu viel Affection des Unterleibes und
 ganzen systemes folgt; wo schon die Knochen
 kien sind; welches der gewöhnlichen Curmethode
 Mercur innerlich zu geben nicht weichen will,
 extra indicationen der frictions cur.

Darf nicht angewendet werden bei solchen
 sich in einem sehr schwachen Zustande befindenden;
 in gereizte Venen haben; bei hysterischen
 hysterischen; bei solchen die zu sehr zu
 Wallungen geneigt sind; oder mit Brust-
 schmerzen, Bluthusten, Zahnschmerzen,
 Rheumatismus u. s. w. behaftet sind.

Preparation der Cur.

krankheit sich erheit gehörig vor der vorbe-
 iten: Durch Bäder, Abführungsmittel und
 eine sehr strenge Diät; wodurch die Leinwand
 Empfänglichkeit für den eingerie-
 men Mercur gesteigert wird und der Re-
 ceptionsfähigkeit erhöht wird

Ordnung der Einreibung.

Am ersten Tage wird die graue mercurial
salbe durch eine hydraurg. ein. drach. 1 in die
beiden Unterschenkel eingerieben, am
dritten in die Oberschenkel. am sechsten in be
en Armen von der Handwurzel bis zum
Schultergelenk. am neunten in den Ar
en von den Hüften bis zum Halse; un
den siebenten bis zum fünfzehnten
können nach Umständen 2-3 oder 4
Einreibungen gemacht werden. Zwei
en den 14^{ten} und 16^{ten} Tage bemerkt man
stattgefundenen Brusttumor im ganzen
Organismus, welches sich durch die Symptome
einer allgemeinen Reizung sich ausdrückt.
Durch kritische Abflüsse durch die Haut
den Parmanall und derinwege entscheidet.
Am sechzehnten läßt man wieder er
reichen, giebt den andern Tag ein Purgir
mittel und fährt so bis zum 25^{ten} Tage fort
wenn nicht Zubringen, Preklearung,
große Schwäche eine frühere Unterbr
ung der Kur gebieten. Am 26^{ten} Tage wird

Kranke in ein warmes Bad gesetzt und nach
 der halben Stunde mit Seifenspiritus ganz rein
 zu waschen. Selten aber wird der Praktiker die Kun-
 st diese Art wie sie von Rust vorgeschrieben ist
 anzusetzen; denn entweder tritt die Proferung schon vor
 dem 19. Tage ein, und zwar ohne merkliche irriterende
 Erscheinungen; oder die Crisis kommt zu spät
 der Kranke kann es nicht mehr ertragen.

18
Secretum Zittmanni

Die Formel ist folgende:

Rp. Rad. Salsaparill. Unc. XII
coq. c. aq. font. lib. XXXIV p. 24 h.

adde

Alumin. saccharat. ℥ss

Mercurius dulcis ℥ss

Cinabar. Antim. ℥j

in nodul. ligat. sub fin. coct. admisce

Col. Senn. ℥ijj

Rad. liq. ℥jss

Sem. Anis. vulg.

— foenic. a. ℥ss

Col. lib. XVI ℞ ad lag. viij ℞ Secret. fonte.

Rp. Presid. Secret. font.

Rad. Salsaparill. ℥vj

coq. c. aq. font. lib. XXXIV sub fin. coct.

adde

Puls. cort. Citr.

— — Cinam.

— Cardam. y. a. ℥ijj

Rad. liq. ℥vj

Colat. lib. XVI ℞ ad lag. viij ℞ Secret. tenue

Anwendung des Zittmanns Rect.

Am ersten Tag zuvor bereitet sich der Kranke
 mit einem Laxans aus Calomel zur Kur vor.
 In folgenden Tage trinkt er Morgens eine
 Scabille erwärmtes starkes, nach Mittag
 eine Scabille nicht erwärmtes schwaches
 Rect. Am sechsten Tage wird wieder ein
 Laxans aus Calomel und die 4 folgenden
 Tage das Rect auf angezeigter Weise
 genommen.

Wenn die Krankheit noch nicht geheilt so wende
 man die Kur zum zweiten Male an.
 Bei sehr schwachen Kranken gebe man am
 fünften Tage noch einmal ein Laxans.

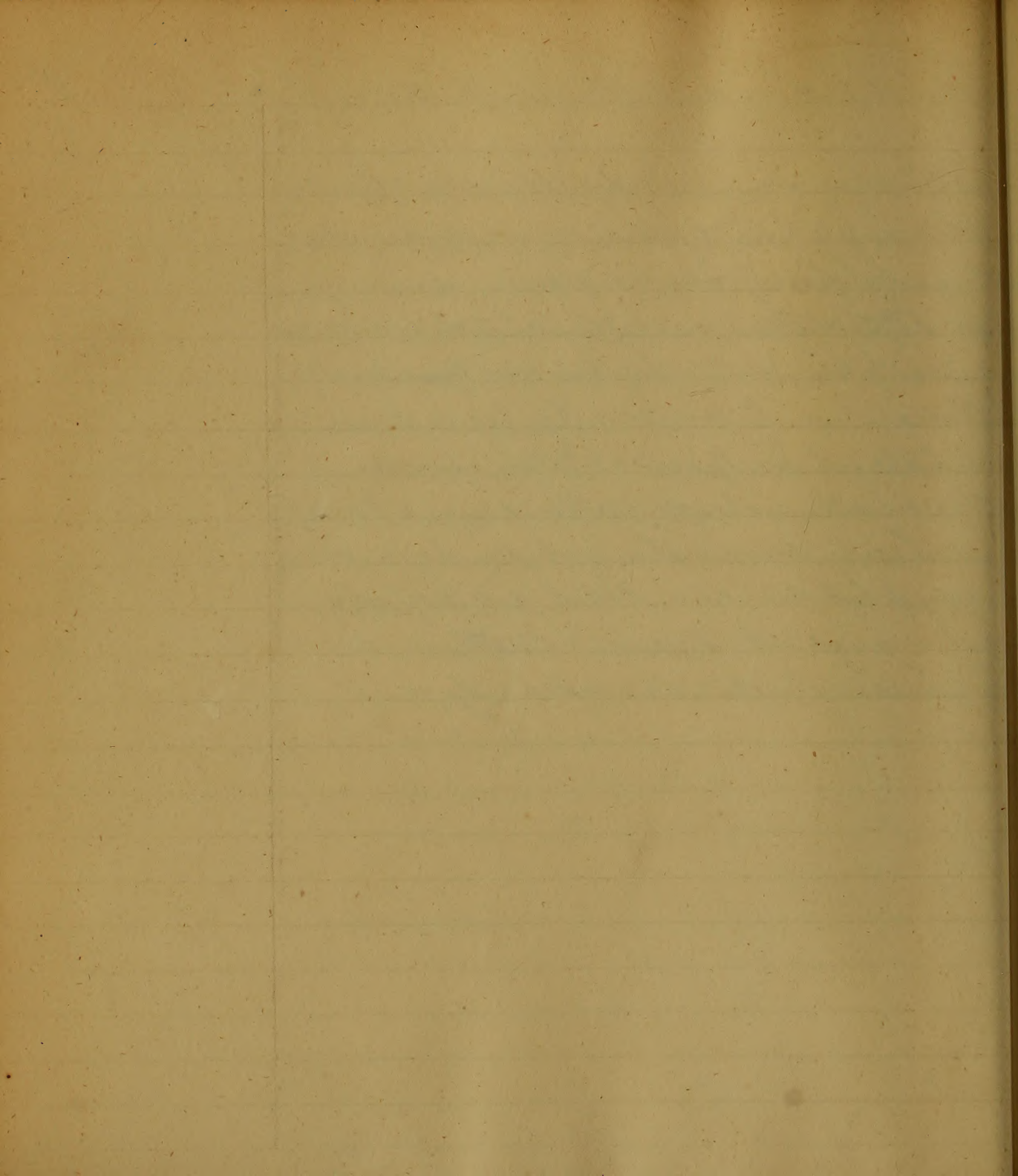
Pyandris Pillen.

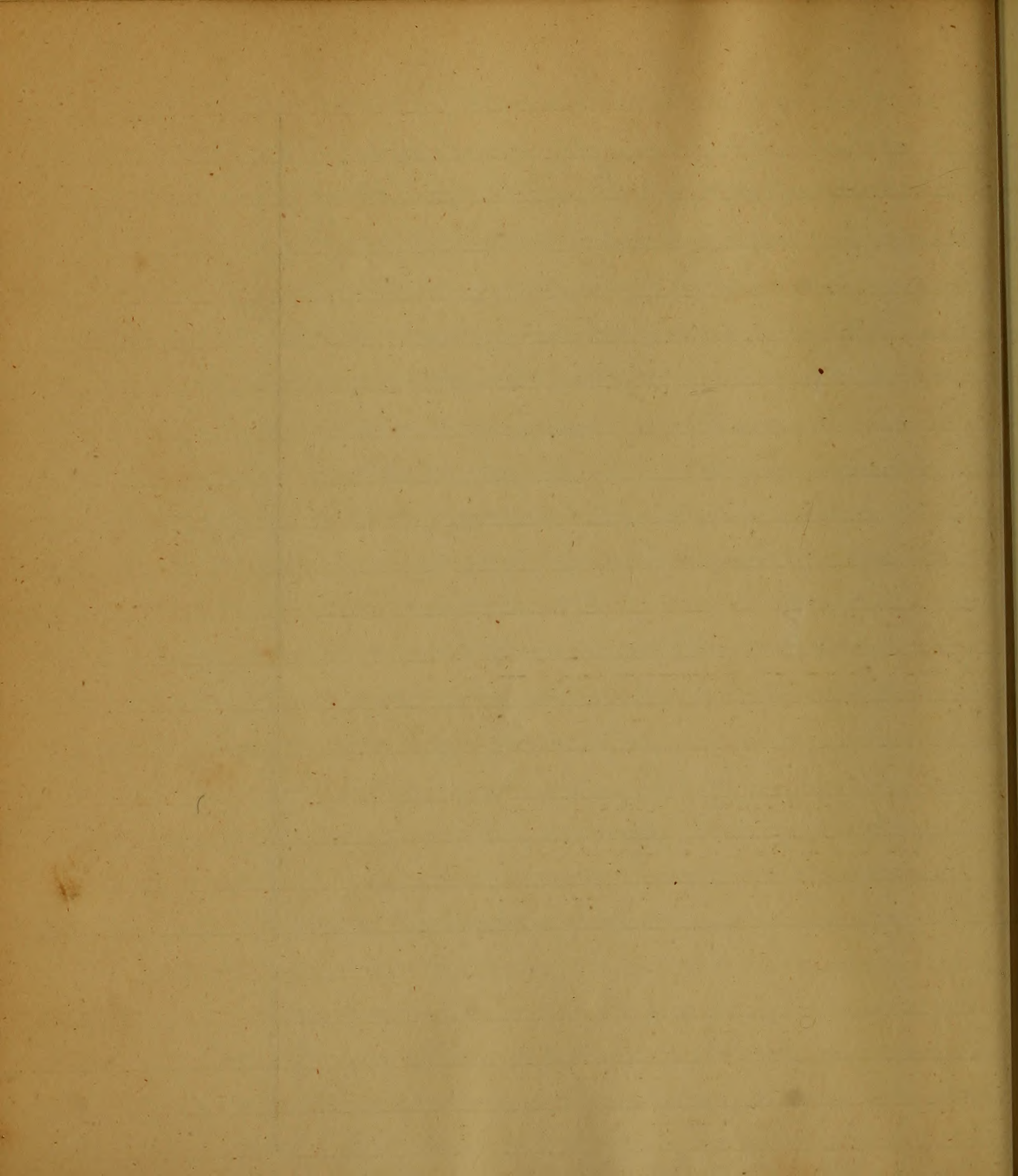
Der Kranke faengt an mit $\frac{1}{4}$ gr. Sublimat
in 4 Pillen; einen Tag um den andern
steigt man mit 2 Stück, so das auf dem
letzten Tage der Cur welche 7 Tage dau-
ert 30 Stück, also $1\frac{1}{2}$ gr. Sublimat auf einm-
genommen werden.

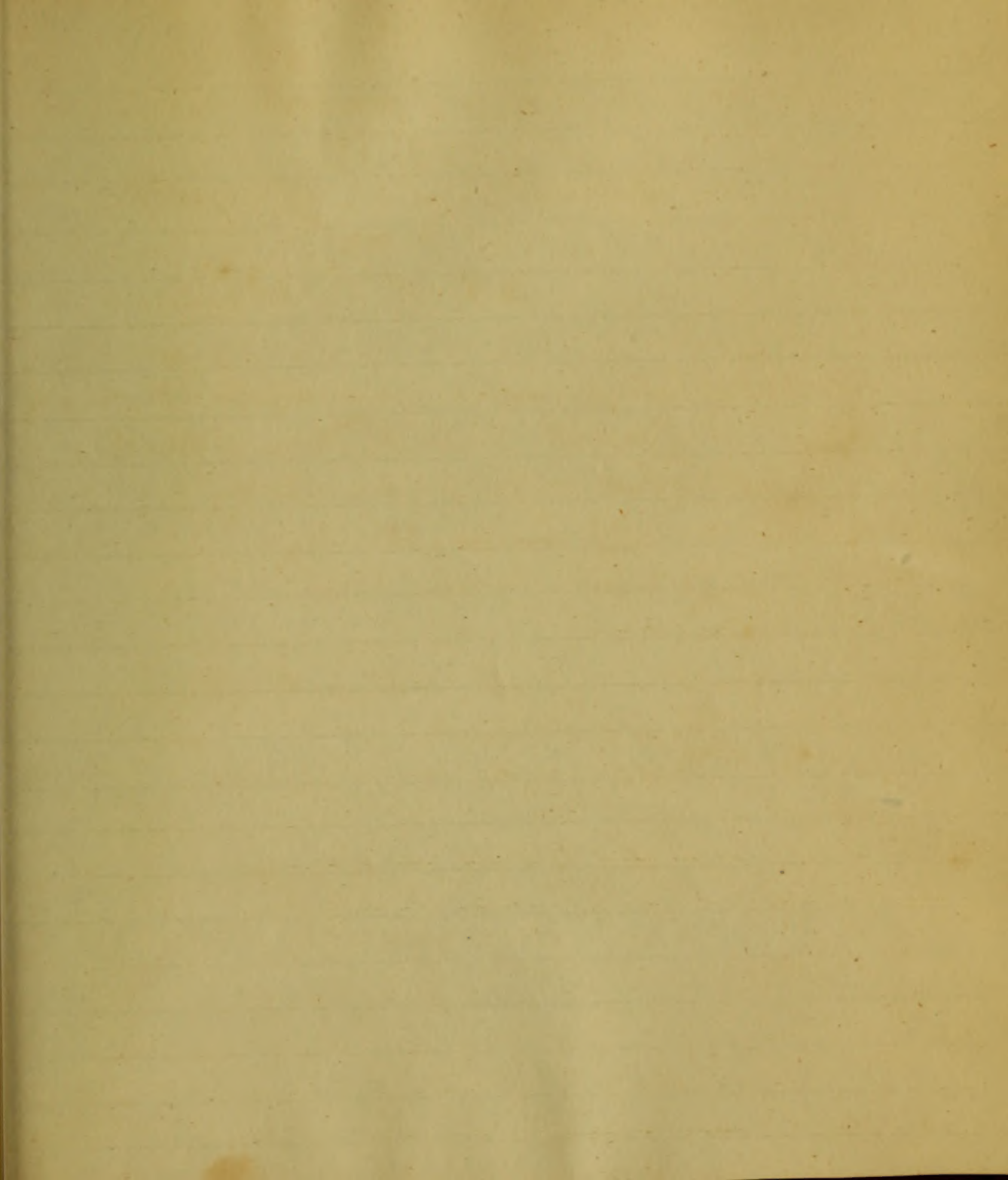
Muß man die Cur wegen Speichelfluss
unterbrechen, so soll man mit der Zahl
Pillen fortfahren, bei welcher man
stehen blieb.

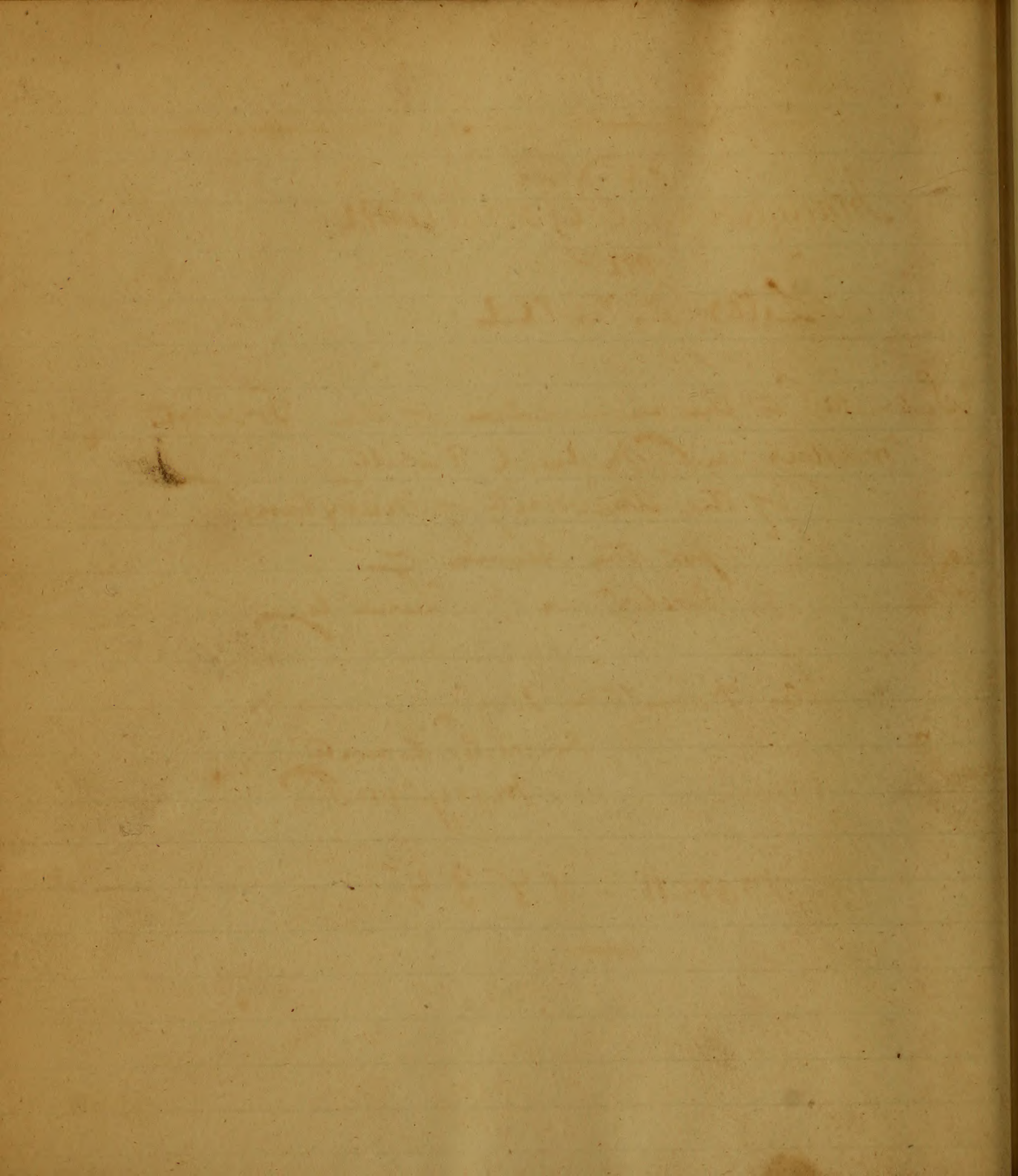
wahlte die drei Hauptmethoden.

Gleicher nun von diesen drei Hauptmethoden
 Vorzug gebracht, so muß ich mich, meiner
 te ganz für Syonbi erklären. Denn es
 in allen Fällen ausführbar, welches nicht
 fällt bei den Russischen oder Kottmanns
 Kottmanns, besonders bei den erstern,
 ich habe ich von Syonbi's Pillen immer
 eine Wirkung als von Kottmanns Kussel
 sehen. Werde aber doch bei bedeutend
 syphilitischen Uebel wo Gefahr
 Vorzug ist, Syonbi's Methode der
 Pansiers. Russischen nachsetzen.









Inaugural Dissertation
on
Lues Venerea

Submitted to the examination of the Provost
Warden and Medical Faculty
of the University of Maryland
for the degree of
Doctor in Medicine by

Alex. Hamilton Bayly
Dorchester County
Maryland

March - 1835

Manuscript Depositor
on
Two Volumes

Submitted to the examination of the
Faculty and Medical Faculty
of the University of Maryland
for the degree of
Doctor in Medicine by

Rev. Hamilton Taylor
Bachelor of Arts
Maryland

March - 1832

To
Samuel Baker M.D.

Late Prof. of Materia Medica &c in the University of Md.

This inaugural essay is inscribed
as a tribute of respect for his medical talents,
and of gratitude

for the care with which he endeavored to
inculcate just principles of Medical Science,
on the mind of his obliged friend and pupil
Alex. Hamilton Mayly-

To

Professor Gesinger. this Dissertation is most respectfully and gratefully dedicated as a sincere tribute of esteem and respect, and for the many favours and benefits which have been conferred on his friend and pupil.

The Author -

to
William N. Baker M.D.

and

Mr Samuel George Baker

This Dissertation is affectionately

inscribed by their friend

Alex. Hamilton Bayly-

76
to
Mr. William M. Jackson M.D. of
New York
The operation is performed
in order to
Alex. Hamilton Esq.

Lues Venerea.

1

'Haud ignarus mali, miseris succurreve Sisco'

The origin of Lues venerea has long been a subject of much debate among medical writers. So many different opinions have been advanced, that it would be impossible in the compass of a discourse like the present, to attempt their enumeration; I shall therefore merely enumerate such as are most conclusive.

We are told by many writers, that this disease was imported from America into Europe, by Christopher Columbus and his companions between the years 1494 and 1496; And why? merely because it happened to rage in Europe shortly after their return. But ought we not rather to look upon this as a coincidence, than as a consequence? For by referring to History and Chronology we will perceive that this disease existed long before the discovery of America. If ~~then~~ such a loathsome disease as Lues had existed among the Aborigines of this Country, would it not have been mentioned by some of the numerous Historians, who have written upon this Country? But do we find this to be the case? We certainly do not. To find out the precise time of its first appearance, would indeed be a difficult task.

The Ancient Writers have described the many Strangements of the economy, attributed at the present period to the Syphilitic virus. Paulus Aegineta asserts that in many cases the skin

How ignorant people, various occurrences have
 The origin of the disease has long been a subject of much dispute
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 We are told by many that the disease was imported
 from America into Europe by Christopher Columbus and
 his companions between the years 1492 and 1494; but
 why? because it appeared first in Europe shortly after
 their return. This might be well matter to note were the
 disease known from an antiquity; but referring to history and
 geography we will perceive that this disease existed long before
 the discovery of America. If there was a bottomless disease
 in Asia had existed among the Ethiopians of this country.
 would it not have been mentioned by some of the numerous
 historians who have written upon this country? That does
 not seem to be the case; the contrary doubt. To find out
 the precise time of its first appearance, would indeed be a
 difficult task.
 The disease first has been described in many languages of
 the country, situated at the present period to the opposite
 side of the Indian Ocean, that in many parts of the
 island.

of the Prepuce, and sometimes part or the whole of the Glans Penis becomes gangrenous and sloughs (Gowdun) Lanfranc speaks of Warts on the Prepuce arising from an impure intercourse (Gowdun). Boerhaave of Calabria treats of Fornica of the Penis, which turn round to denote a sort of Rustulous and eating Ulcer. (Gowdun). Plutarch in his life of the speaking of Ligellinus, says that he was afflicted with several Sinners produced by impure coition. Beckett relates from a manuscript found in the college of Lincoln, at Oxford, that John of Ghent, died (in 1399) of a gangrene of the genital organs and body produced by intercourse with lewd women. Pliny relates in his letters an anecdote, of somewhat similar. A woman seeing her husband affected with ulcers on his Genitals, which from long continuance, were becoming gangrenous, and despairing of a cure, rushed with him into the lake Como. Herod. King of the Jews, according to Josephus, died of an Ulcer on the Genitals, which caused a gangrene of those parts. The Emperor Galerius Maximus died of Ulceration of the Genitals, and fistula in Sinus; the whole of his body exhaled a most offensive stench (Gowdun).

If we refer to one of the oldest books we have in existence - the Bible - we will find many passages which tend to prove the antiquity of this disease. It has been said by authors of the highest respectability, that the sore boils wherein Satan smote Job by God's permission from the sole of his foot to the crown of his head were venereal.

Job. Ch. XX. V. 11 He says "his bones are full of the sin of his youth, which shall lie down with him in the dust."

The following verses also lead us to believe that David was alike
unfortunate.

Psalm. 38. V. 3. "There is no soundness in my flesh, because of
thine anger, neither is there any rest in my bones, because of my sin".

V. 5 - "My Loins are petrified and corrupted because of my foolishness

V. 7 - "For my loins are filled with a loathsome disease,
and there is no soundness in my flesh."

We find in Ecclesiasticus. Chapter 19 - Verse 3 - as follows - "And
he who joineth himself to Harlots, will be naught, rottenness
and worms shall inherit him".

Johannes de Vigo notices the way in which the disease is com-
municated by a chancre, in a very particular and accurate
manner. *Ejus virus in partibus genitalibus, vix. in vulvâ
in mulieribus et in virga in Hominiibus, semper fieri solet
cum pustulis parvis, interdum lividit caloribus aliquando mi-
qui, nonnunquam sub albidis cum calloritate esse circumdanti*
(Dorsey's loops). This quotation shows that it was propagated
from the beginning as it now is by what the old writers called
a pustule, and we name a chancre.

The facts which we have related in the preceding pages, to prove
that *Lues Venerea* was not introduced into Europe from America
are I think sufficient to convince the most sceptical.

It has long been a contested point whether *Gonorrhœa* and
Lues Venerea are distinct Diseases, or the same complaint dif-
ferently modified. The latter opinion, for some time was by far

the most popular, and it is but lately that the consideration of their being distinct and different diseases has received any very considerable support.

Gonorrhoea and Lues Venerea do not produce each other. Notwithstanding the many arguments which have been brought forward to refute this opinion, as yet in my humble opinion it stands unshaken and well supported. If the viruses of Gonorrhoea and Syphilis were of the same nature, a person labouring under a chancre only would be able to communicate to another not only all the symptoms of Lues, but also of Gonorrhoea, and vice versa. But so we find this to be the case? experience proves the contrary. I have known several instances, wherein by the negligence of the patients, Gonorrhoea has continued for the space of two or three years, without a single symptom of Lues supervening, and ultimately "wearing itself out." Had these individuals laboured under the influence of the Syphilitic virus, and had been as regards of their health, Secondary symptoms would undoubtedly have supervened, and eventually destroyed them.

The advocates of the opinion that they are produced by the same poison, dwell strongly upon the circumstance of the two diseases sometimes occurring in the same individual. This objection would at first appear very plausible, but if we examine into the cases, we find it always owing either to a subsequent connection, or to the person having been infected with

both Diseases at one and the same time. And again if these Diseases produced each other we ought to find them constant companions in every case.

The two diseases require different modes of treatment for their cure; this argument I think is sufficient of itself to convince any reasoning mind. It was Hunter's opinion that Gonorrhoea and Syphilis arose from the application of the same specific virus, and the difference of ^{the} effect he explains by the application of the same being made in the first instance to a secreting surface; and in the second to a non-secreting surface. The Virus when applied to the former surface always gives rise to inflammation followed by a discharge, in the latter to ulceration. This opinion will ^{not} stand the test of experience. Chenevix very often kept a long time and occasion the continued application of the Syphilitic Virus to the orifice of the Urethra without producing the slightest gonorrhoeal discharge from that duct; this fact is known to every one who has had any experience in the disease. Mr Hunter asserts that the Glands Penis is not endowed with the power of secreting, but if we refer to Meckel and other anatomists we perceive that "all around the neck and posterior face of the crown of the Glands Penis presents numerous rounded depressions, termed Glandulae Tysoniana, which secrete a thick and whitish fluid." During my stay at the Baltimore Infirmary two cases fell under my observation which are very conclusive. A Soldier by the name of Hodges was admitted during the past summer, he

The first of these is the fact that the same result was obtained in every case. The second is the fact that the same result was obtained in every case. The third is the fact that the same result was obtained in every case. The fourth is the fact that the same result was obtained in every case. The fifth is the fact that the same result was obtained in every case. The sixth is the fact that the same result was obtained in every case. The seventh is the fact that the same result was obtained in every case. The eighth is the fact that the same result was obtained in every case. The ninth is the fact that the same result was obtained in every case. The tenth is the fact that the same result was obtained in every case.

- bowing under both Gonorrhoea and Syphilis, contracted at different periods, there were several Chancres around the Corona Glandis and one immediately in the orifice of the Urethra, and a very profuse Gonorrhoeal discharge, and or Urine - Chordee. Under the influence of Mercury and a wash of Dilute Chloride of Soda all his Syphilitic symptoms disappeared, and still his Gonorrhoea continued without the slightest mitigation, but in the course of one or two months this also was cured, not by Mercury, but by diet and the Balsamic Medicines. Now according to Hunter the virus when applied to the Urethra is not capable of producing ulceration, but must invariably produce a Clap and nothing else. In the other case (the name of the patient I do not recollect) there was a chancre in the orifice of ^{the} Urethra extending nearly to the fovea Navicularis, and unaccompanied by any Gonorrhoeal discharge - Chordee - or or Urine or any symptoms of Clap. This patient was also cured by the administration of Mercury and a lotion of Chloride of Soda.

The venereal Virus when applied to any part of the body will invariably produce a chancre, but ~~not~~ the matter of Gonorrhoea will not, I have seen it applied repeatedly to raw surfaces without the slightest effect.

Tubercles resulting from the two diseases ^{are} very different in their appearance - termination and frequency. Tubercles resulting from the absorption of the Syphilitic Virus are sometimes very troublesome

affections and if not correctly treated give rise to the most destructive and unmanageable ulcerations; and in some cases in spite of the most judicious treatment the abscess when opened, remains stationary - condensed edges - granulations soft and flabby, discharging a copious and highly offensive fluid. On the other hand buboes arising from the mere sympathetic invitation of Gonorrhoea when they do suppurate heal as readily as a common Phlegmon. Syphilitic buboes almost always terminate in suppuration if not treated with judgement and energy; the Sympathetic buboe on the contrary seldom suppurates, and will often disappear without the application of a single discutient, as soon as the primary local invitation upon which they depend is removed. Buboes more frequently result from the absorption of the venereal matter than from the invitation of Gonorrhoea.

This disease arises from a specific morbid poison, which when applied to any part of the human frame produces effects on the part to which it is applied, or on various parts of the body & in consequence of absorption. It is divided by writers into two distinct stages - primary when it is altogether local - Secondary or constitutional when the virus is absorbed and affects the whole system.

The interval between the application of the poison and its effects upon the body varies from a few days to several weeks, I saw a case in which the disease did not mani-

fest itself for seven weeks. Generally about three days after an impure venereal intercourse it commences, with one or more small Pimples full of matter, preceded with an itching in the part, the itching is gradually converted into pain and the pimple into an Ulcer. denominated Chancre.

The true Syphilitic Chancre according to Hunter, is somewhat of a circular form, excavated without granulations, with matter adhering to the surface and with a thickened edge and base. This hardness and thickening is very circum-
-scribed; not diffusing itself gradually and imperceptibly into the surrounding part, but terminating very abruptly.

They are most commonly found on the internal surface of the Prepuce - Glans Penis - ~~and~~ ~~Frænum~~ - Penis - Scrotum and Thighs, and in Women on the Labia Majora and Mi-
-nora - in the Vagina - Mons Veneris - Thighs.

When the Chancre is situated on the base of the Glans Penis I have found that Buboos are more apt to occur than if it were on the Glans itself, owing no doubt to the lymphatics being far more numerous in the former than in the latter region. When they first make their appearance, it has been recommended to destroy them by the Caustic Potassa, but this practice is sometimes followed by very unpleasant con-
-sequences; for by the application of the Caustic, the Virus is confined by the eschar produced, and corrodes the part so as to form a deep Ulcer, and in this confined situation is

The first thing I noticed when I stepped out of the car
 was a warm blanket of air, the kind that makes you
 think of home. The humidity was just what I needed
 after the long drive. I took a deep breath and
 felt the sun on my face. It was a relief, a
 moment of peace in a world that often feels
 so chaotic. I walked towards the building, my
 steps echoing on the pavement. The air was
 thick with the scent of flowers and the
 sound of birds. It was a beautiful scene,
 one that I had never seen before. I felt
 like I had found a new world, a place
 where everything was just what I needed.
 The humidity was perfect, the sun was
 just what I needed. I took a deep
 breath and felt the sun on my face. It
 was a relief, a moment of peace in a
 world that often feels so chaotic. I
 walked towards the building, my steps
 echoing on the pavement. The air was
 thick with the scent of flowers and the
 sound of birds. It was a beautiful scene,
 one that I had never seen before. I
 felt like I had found a new world, a
 place where everything was just what I
 needed.

more readily absorbed, this practice is now seldom resorted to by Surgeons. In the treatment of Chancres our attention should mainly be directed to the constitution of the Patient. It is of the greatest importance to protect the system against the occurrence of a Syphilitic taint, it will therefore be proper to put the patient at once under a gentle mercurial action, in conjunction with local applications to the Chancres. When the general system is inflammatory, Venesection should be employed, and followed by a dose of Calomel and Jalap ten grains each. The patient should be confined to bed and use a very mild and unirritating Diet. If the Chancre be very painful and the pimple inflamed, the best treatment would be to scarify the Pimple freely with a sharp lancet or scalpel, and then apply a warm poultice of Flax and meal, wet with an aqueous solution of Opium. I have seen this practice attended with the happiest results. After the System has become more tranquil, the patient should then be subjected to the influence of Mercury. The following prescription I think is a very good one

⁷⁷⁴

Proto. Chlor. Hydr. - ~~gr~~

Ext. Conii -

Sub. Specie a a a grj to be taken three

times a day. The Conium will have a tendency to prevent the Calomel from running off by the bowels, and also to tranquilize the system, the Specie by depressing the action of the Heart and

more ready of admission, the patient is now seldom worried
 of the progress. In the treatment of chronic ear affec-
 tion, the most important point is the construction of the patient.
 It is quite possible in some cases to find the system of
 the nervous system of a patient, it will be found in fact
 that to find the patient is more under a greater muscular
 system, in comparison with local application to the drum.
 In the present system of inflammation, the patient
 should be employed, and followed by a loss of colour and
 a drop of the drum. The patient should be confined to bed
 and use a very mild and stimulating diet. If the disease
 is very painful and the patient is unable to rest, the best
 treatment would be to apply the patient's foot with a drop
 of oil of turpentine, and then apply a warm fomentation of
 bread and milk, with an agreeable solution of them.
 I have seen this practice attended with the highest success.
 After the system has become more tranquil, the patient
 should then be subjected to the influence of mercury. The
 following prescription I think is a very good one.

R. Calomel. ℥ss. Hydr. - ℥ss.

℞. Calomel -

℞. Hydr. - ℥ss.

In the morning the patient will have a quantity of
 colour from coming off of the drum, and also to strengthen
 the system, for the purpose of supporting the action of the drum.

As-tories will promote the absorption of the Calomel. 10

Calomel is decidedly preferable to the Blue Pill or Bi. Chloride of Mercury. The former is by no means as certain, and the latter often produces the most violent gastric distress, as I have witnessed repeatedly at the Baltimore Infirmary. When the inflammation has subsided in the Breach, we should have recourse to some gently stimulating applications. The Chloride of Iodine is indeed a most excellent application, being both gently stimulating the chancre and at the same time destroying the villanous adour exhaling from its secretion. If the chancre did not put on a healing appearance in four or five days, more active agents should be employed such as the Black and Yellow Washes, Solutions of Nitrate of Silver - Sulphate of Copper - Sulphate of Zinc - Trasilion - Citrine and Red Precipitate ointments, and if these fail we should resort to the Undiluted Nitric Acid - Caustic Pot-ash or the Actual Caustery. I have frequently seen the two former prove effectual in curing the most obstinate Chancres. The parts should be kept clean by frequent ablutions, the mercurial ~~and~~ impregnation should be kept up for four or five weeks, and it is of the utmost importance that the patient should avoid a damp and cold atmosphere, and that he should keep up a gentle action on the skin by warm clothing. His diet should be mild and unirritating, he should remain within doors during damp weather, for

there is great risk of receiving injury from cold while the system is under the influence of Mercury.

A Buboe is a swelling in the absorbent system, arising from the ~~application~~ absorption of the Venereal Virus. They more frequently follow channels on the Scapula and Corona Glandis for reasons which have been previously stated.

They occur more frequently in the right than in the left groin; and when there is one in each groin, that in the right is the largest, and most apt to suppurate, such has been the results of my observations at the Infirmary,

The Syphilitic Buboe generally commences with pain more or less severe and impeding the locomotion of the patient, on examining the part a small hard tumour will be perceived, very painful to the touch, which increases very rapidly, and if not checked it advances to suppuration and ulceration. The inflammation is at first confined to the gland, which may be moved about in the cellular tissue, ~~but~~ but when the inflammation has become more advanced, the surrounding parts become implicated and the tumour is more diffused. It is very rapid in its progress from inflammation to suppuration and the suppuration is commonly large.

We should use our utmost endeavours to disperse it as soon as possible, for if it suppurate there results a very troublesome and sometimes destructive ulceration. Where the system is Phlogistic and the

There is great risk of occurring in any form which the
 system is under the influence of heredity.
 It is also a condition in the absence of heredity, arising
 from the excessive absorption of the mineral bases. They
 more frequently follow changes in the system and various
 glands for reasons which have been previously stated.
 They occur more frequently in the right than in the left
 breast; and when there is one in each breast, that in the
 right is the largest, and most apt to suppurate, such has
 been the result of my observation of the disease.
 The lymphatic vessels generally communicate with the veins
 or the venous system, and in the formation of the tumor, or
 examining the fact a small hard tumor will be per-
 ceived, very painful to the touch, which increases very
 rapidly, and if not checked it advances to suppuration
 and ulceration. The inflammation is at first confined to
 the gland, which may be moved about in the cellular
 tissue, but when the inflammation has become
 more advanced, the surrounding parts become infla-
 mated and the tumor is more diffused. It is very
 hard in its progress, from inflammation to suppuration
 and the suppuration is very large.
 We should be very attentive to observe it sooner in progress
 the fact of suppuration the result of my observation and results
 in the disease. When the system is changed and the

patient experiences a great deal of pain and tenderness in the part, our most efficient means are Bleeding both generally and locally. Emetics and Nauseating Doses of Tart Ant. Saline Cathartics. Perfect rest. and very low diet. Cold Astringent Lotions such as solutions of Acetate of Lead, or of Muriate of Ammoniac. Powdered Ice - Cold Clay - Linen wet with Alcohol or Ether and applied in such a manner as shall not interfere with the evaporation. Blood letting should never be omitted where there is the least degree of excitement, it is our most effectual remedy. If leeches be not at hand the part should be freely cupped or scarified with a lancet, and apply a poultice of Flax seed meal as warm as the patient can bear it. If it still progresses mercurial frictions should be largely employed to the tumour on the inner surface of the thigh, and if we do find the tumour diminishing a blister should be applied, which will frequently check the further progress of the swelling. If these means fail to arrest the progress of the buboe, and its tendency to suppuration inevitable, we should endeavour to promote its suppuration by warm emollient poultices, and when we can distinguish fluctuation in it, the lancet should be introduced and ^a free incision made so as to evacuate its contents. If the Buboe ~~and~~ instead of suppurating become hard and indolent, it may be dispersed by the repeated applications of Blister. Tart. Emul. Ointment. Hydriod. Mercur. Oint or by compression. When the Abscess is laid open, it will generally heal

Patient experiences a great deal of pain and tenderness in the part
 and most efficient means are required both generally and locally
 further and I suggested use of tart. emet. Iodine Calomel
 Tart. emet. - and very low diet. Cold compresses to the
 neck to reduce the inflammation of the vessels of head or of the
 forehead &c. - Cold bag - immerse wet with alcohol or ether
 and applied in such a manner as shall not interfere with the
 respiration. Blood letting should never be omitted when there
 is the least degree of excitement, it is very important remedy
 of leeches be not at hand the part should be freely cupped
 or scarified with a lancet, and apply a poultice of flax seed
 bread or warm to the patient as best. If it still progress
 the general treatment should be largely employed to the an-
 nouncement on the inner surface of the thigh, and if we do find the
 the most determining is this it should be applied which will
 I expect that the further progress of the swelling, if there
 is any more pain to avoid the progress of the labor, and the
 tendency to suppuration inevitable, we should endeavor to pro-
 mote the suppuration by warm emollient fomentos, and when
 we can distinguish fluctuation in it, the lancet should be
 introduced and for incision made so as to evacuate its contents
 of the matter and instead of suppuration become purulent
 it may be dissolved by the repeated application of
 solution - Pot. Iod. - Pot. Permanganat. Hydrat. - Merc. Iod. or of
 camphor. When the abscess is laid open, it will generally heal

under the use of gently stimulating ointments - lotions and Emol-
 -lient Poultices. Sometimes the ulcer acquires a very indolent
 character, discharging a copious and very offensive fluid, with
 hard, indolent edges, granulations large and flabby, extending much
 beyond the level of the skin, to such a conditioned Ulcer Stimulating
 applications should be resorted to, ~~such as~~ the following will be
 found very excellent applications, Chloride of Soda - Solutions of
 Sulph. Copper, Zinc, Nitrate Silver - Corrosive Sublimata - Dilute
 Mineral acids - Pyroligneous Acid - Powdered Galls - Peruvian
 and Oak barks - Rhubarb - Ginger - Tinct. Canthar. - Citrine
 Brasilien - Red Precipitate - and Canthar ointments - Caustic
 Potassa, if all these prove ineffectual, we should have
 recourse to the actual Caustic, I have seen it prove highly
 beneficial in promoting the cure of very indolent ulcers,
 when every other remedy had failed. If the edges of the Ulcer are
 projecting and very indolent they should be removed by the Scalpel
 or Scissors. Mercury should also be given, and the impostha kept
 up for some time, the formula I recommended in Chancre will
 do very well here.

Warts are frequently produced upon the Glans Penis and Prepuce
 by the imitation of the Venereal virus, and are of great annoy-
 -ance both to the patient and his friends from their very offen-
 -sive secretion. They are generally removed by the adminis-
 -tration of Mercury - by the application of Nit. Silver - Caustic
 Potassa, or by an ointment of Pulv. Labin Zi; Lellh Lupri Zi;

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Simple Cerate ζj and sometimes it becomes necessary to resort to the knife or scissors.

When the Venereal Virus becomes diffused through the system by means of absorption, it gives rise to the symptoms denominated Secondary Symptoms, and the parts which are generally affected by the virus, are the Skin - Tonsils - Throat - Nose - inside of the mouth - Pericostium - Bones - and tendons. The Secondary symptoms seldom improve when the patient has been judiciously treated with mercury. It is decided by the most powerful Anti-Venereal we possess. It has been asserted by Writers that this remedy is absolutely injurious, favouring the development of the constitutional symptoms. My own experience proves the fallacy of this assertion. Its "modus operandi" was for some time thought to be owing to its combining chemically with the virus, thereby destroying its noxious property. This theory has now very few adherents, and its beneficial effects are at the present day supposed to be owing to its acting by revulsion; that is by exciting a train of symptoms, which are incompatible with the pathological symptoms of Lues. This view appears to me much more rational and satisfactory.

When the skin becomes the seat of the disease, eruptions appear containing a limpid matter and resembling pimples; in other cases the eruption comes out in distinct blotches, which form a very copper coloured scurf, this is thrown off and another of the same kind is formed. Mr Hunter remarks

that every succeeding scurf becomes thicker and thicker, till at last it becomes a common scab, then the disposition for the formation of matter takes place in the cutis underneath and a true ulcer is formed, which commonly spreads although in a slow degree. For the cure of this eruption we should rely principally upon constitutional remedies. Mercury in conjunction with Antimonials - Lassaravilla - Guaiacum - simple Diet - Warm bathing and aperients will often remove it.

- ℞. Blue Mass -- ʒi
- Hydro. Sulph. Antimon -- ʒij
- Rub Gum Guaiac -- ʒi

Made into ~~xxx~~

50 pills, two of them to be taken three times a Day. I have seen this formula administered with advantage. The following "diet drink" I have seen frequently prescribed at the Infirmary by Prof. Hall and in all the cases in which it was used, it was attended with very good effects.

- ℞.
- Hyad. Lassarap -- ʒi
- Eupat. Perf. --- ʒss
- Guaiac --- ʒss

Hydro. Sulph. Anti. enclosed in a linen bag - ʒij

℞j: Bullint -- ℥. let it boil five or ten

minutes. A wine glass full three times a Day.

The Mercurate of Gold is very strongly recommended by some writers, and is given in doses of 1/10 of a grain three times a Day,

that very ascending very becomes thicker and thicker till at last
 it becomes a common coat on the surface for the formation
 of smaller tubes in the later underground and a tube
 which is found which consists of small tubes in a row
 paper. It is the line of the surface in which the small
 tubes are situated and in the way in which they are
 arranged. The small tubes are arranged in a row
 and are separated with spaces between them.

Hydro. tub. ...

Hydro. tub. ...

Hydro. tub. ...

It is the line of the surface in which the small
 tubes are situated and in the way in which they are
 arranged. The small tubes are arranged in a row
 and are separated with spaces between them.

Hydro. tub. ...

Hydro. tub. ...

Hydro. tub. ...

Hydro. tub. ...

Hydro. tub. ...
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 Hydro. tub. ...

gradually increased to ~~1/2~~ 1/6 of a gr. it should be given in the form of pill. The aqueous solution of Iodine - Tinct Hydriod. Ferri - Iodo. Hydr. Potass - Arsenite of Potassa have all been used at the Baltimore Infirmary with advantage.

As local applications the dilute chloride of Ioda and ~~Acid~~ Arsenite of Potassa are most excellent, they have been used at the Infirmary in several cases with complete success. The Black and Yellow washes - Fumigations of Ethiops and Turpith Minerals are recommended.

The Venereal Ulcer should be carefully distinguished from other kinds of sores in the same region. The Syphilitic Ulcer is seldom preceded with swelling, Mr Hunter describes it as a fair top of substance, part being dry out as it were from the body of the Tonsil; it has a determined edge, and is commonly very foul, having thick white matter both like a slough adhering to it, and not admitting of being washed away. The parts around the ulcer present a copper coloured aspect. This is also to be removed by the administration of mercurial preparations - Stimulating Gargles, such as Chloride of Ioda - The dilute Mineral Acids - Pyroligneous Acid - Tri Chloride of Mercury - Sulf. Linc. - decoctions of Oak Bark - touching the ulcer with Nitrate of Silver. If the bones of the nose become carious injections of Nit. Argent. Sulf. Alp. &c. should be employed. A Nodule is a tumour proceeding from the Periosteum of a bone. They occur much oftener in bones thinly covered by

muscles, such as the *Triceps-Ulna* and fore part of the *Tibia*
 they increase very slowly, and are at first attended with very
 little pain or inconvenience, but as they increase in size, they
 become exquisitely painful, particularly at night. When they
 continue long the bone generally becomes carious. If attended
 with much febrile irritation bleeding both locally and
 generally should be employed, together with purging - Emetics
 Nauseants. Low diet - Perfect rest - anodyne fomentations
 or soft anodyne Poultices. When the system has become
 more tranquil, the patient should be immediately put under
 the influence of Mercury. Repeated blisters - Tart. Emetic and
 Hydriod. mercurial ointments will almost invariably discur
 the enlargement. Dr Eberle says that we possess no remedy
 more effectual than arsenic. He employs it in the form
 of Fowler's Solution in doses of from 5 to 12 Drops twice
 a Day. When the pains are paroxysmal (as they frequently
 are), the Sulphate of Quinine in five grain doses should
 be given every three hours during the intermission and a
 full relative Dose of Opium during the Paroxysm.

Alex. Hamilton Bayly
 Cambridge
 Maryland.

The Provost, Trustees, Dean, &
Medical Faculty, of the
University of Maryland,
this Inaugural Dissertation,
is respectfully submitted,
for examination, by

James S. Anderson,

January 28th 1835.

On the generation of -

Intestinal Entozoa in the Human Body.

It appears that throughout the animal kingdom, from man even down, to animals of the lowest order in the scale of creation, there is no single species, so far as investigation has extended, but which serves as the habitation and means of support, of various other species of animated beings still more minute, inhabiting the interior as well, as exterior surface, of their bodies.

The different kinds of worms which have been discovered in the human body, have been properly divided, into two classes - 1st The Entozoa, or those animals which are generated, and live within the body. 2^d The Ectozoa - animals, so denominated, because the ova from which they are produced, are derived from without, having been taken into the stomach, accidentally, along with the food, where they remain, until they have attained the complete larva state; after which, they are discharged from the body, with the feces, to undergo the last

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Main body of handwritten text, consisting of several paragraphs. The text is mirrored from the reverse side of the page and is largely illegible due to bleed-through and fading. The handwriting appears to be a cursive script from the 18th or 19th century.

2.

metamorphosis, which develops the insect.
Many of the grubs of the different species
of the genus *Musca*-or Fly, as for instance,
the *M. carnaria*, or Flesh Fly, and the
M. vomitoria, or Blow Fly, and a variety of
others, have been discovered in the human in-
testines, having been taken into the stomach
in the egg state together with putrid articles
of food of different kinds and there undergo
the change.

According to Linnæus, the various species
of Entozoa of the human body, may be properly
divided into two distinct and separate classes,
according to their respective situations. The
1st comprehending those animals that inhabit
the Alvine Canal denominated (vermes In-
testinales) as for instance the *Ascaris ver-
micularis* and the *Ascaris Lumbricoides* and
many others - and which class will be the sub-
ject of the following discourse. The 2^d compre-
hending those, that reside in the parenchyme

3.

of the different organs; as for instance, the Fasciola Hepatica or Liver Fluke, the Filicaria &c.

The manner in which Insectical Entozoa are generated, has from a remote period, been, and is now, the theme of the most contradictory speculations, of some of the most enlightened, and distinguished, physiologists of ancient, as well as modern, days.

From the times of Hippocrates up to the present period, the theory of equivocal or spontaneous generation, has been invariably resorted to by one class of physiologists to account for the production of all the lower orders of animals, whose process of generation is in the least degree obscure.

This theory appears to have taken its origin from the ancient Egyptians, who, to account for the appearance of the innumerable swarms of insects and reptiles, which infest that country subsequent to the period

- ideal inundations of the Nile, supposed, that
 warmth and moisture, in certain degrees, were,
 the only agents necessary, to produce many of
 the lower classes of animals. According to
 ancient writers, even the production of the rat
 and frog, whose process of generation, is now
 known to be equally as obvious and intelligi-
 ble, as that of any of the higher classes of
 animals, were supposed to be the result of spon-
 - taneous generation. But we think, it now
 time, to be more cautious how we advance, such
 unreasonable opinions, on the production, how-
 - ever obscure, of any class of animals, or beings,
 - no matter how low their rank, since the mi-
 - croscope, has given us incontestible evidence, of
 the existence, of sexual organs and ova, in
 myriads of insects, which entirely elude our
 unassisted, senses. Even many of the Fun-
 gi and other parasitical plants of the vege-
 - table kingdom, which, have been adduced,
 as analogical arguments, in favour of the the-

ory of equivocal or spontaneous generation, are now known, to be produced from seed.

The singular circumstance, of Entozoa, having been observed, in the intestinal Canal, of the foetus and new born infant, has been supposed by supporters of the equivocal theory, to furnish direct evidence, of their spontaneous production. We do not pretend, to deny the fact, of Entozoa, having been discovered, in the foetus in Utero, as we have satisfactory evidence, in the declarations of the following creditable authors to that effect.

Kerkringius, relates his having seen the *Ascaris Lumbricoides* in the intestinal canal, of a seven months foetus, and in another instance, a great number of small worms in the bowels, of a new born infant; Fromman, saw the *Stomatia Hepaticum*, in the liver of the foetal Lamb. Heim, also discovered, *Seniae*, in the new born infant, and, was it necessary, many other similar cases, which are recorded, might

be adduced. But, although, this extraordi-
 nary occurrence, may be considered, by some,
 as amply sufficient, to cause us to relinquish
 our ideas of regular generation, as regards in-
 testinal Entozoa; yet, I think, it would be un-
 wise, in us, to desist, in our endeavours, to devise
 some more probable method, of accounting for
 this remarkable fact, than by the, ancient,
 though very irrational, theory, of spontaneous
 generation. For were we to admit, that such
 animals, as the *Ascaris Lumbricoides*. *Tricho-*
cephalus Dispar or *Oxyurus Vermicularis*
 and many others, whose structure, is so com-
 plicated, and at the same time complete; be-
 ing endowed, according to Anatomists, with a
 head; stomach, and intestines; skin, muscles,
 circulatory and nervous systems, and evidently
 well developed genital organs, and of distinct
 sexes, were ~~the~~ the products, of spontaneous
 generation; to what extent, might not the theory
 be pushed? If the adventitious arrangement

of particles of inanimate matter, or any alteration, of mucus or heat, resulting from Gastritis (that all comprehensive terms in pathology) which opinion, has been advanced, by Broussais, but, which, is as I conceive entirely assumed, being unsupported, by arguments either from analogy or experiment, and consequently unworthy of credence, be capable of assuming to itself, the creative power, and producing animals regularly and perfectly formed, of various species and forms - occupying different situations, of different habits, and enjoying an independent existence, such, for instance, as the above mentioned; whose organization, when compared with that of other animals, which hold a determinate place in the Zoological scale, and are known to be the product of regular generation, will be found equally complete: why, should not, similar dispositions of different kinds of dead matter, be capable of assuming the different forms, of the various species of animals.

Did, they not possess genital organs, and did, they not copulate, as other animals, then, there, surely would, be, some room for speculation, but, in the absence, of proof to the contrary, it would, be ^{more} wise, in us I think, to confess our ignorance, than adopt, such an irrational theory, as that of Spontaneous generation. But, since, we are, satisfied, that, they are, perfect, in this respect, and, are, known, to copulate, I cannot, imagine, how we can arrive, at any other conclusion, than, that, they are generated, after the same manner, as other animals occupying, a higher situation, in the scale.

After having thus in, a cursory, and, very imperfect manner, examined, some, of the principles, arguments, which, have, been adduced, in confirmation, of the doctrine, of equivocal, or Spontaneous generation, as applied, to the production, of intestinal, worms, we cannot avoid, acknowledging, that, so far, our reason tells us, that, they are, exceedingly feeble and, unsatis-

factory.

Although the advocates of the more rational, as well as, more generally received, maxim, of *Omne Animal, ex Ovo*, or theory of regular generation, do not differ in opinion, as regards the manner in which, Entozoa, reproduce their species, still, there appears to be a contradiction, with respect, to their origin.

It is the opinion, of one class of Physiologists, that intestinal, Entozoa are, not, natives of the human body, but, that the ova, or germs, from which, they are produced, are derived, from without; that they are accidentally taken into the stomach, together with the food, or drink, and there finding a situation, congenial, to their development, live and propagate their species. They assert, in proof of their position, that worms in every respect similar, to those which infest the human body, have been discovered, in various situations external, to

the body; for instance, it has been affirmed by Sennaeus and others, that the *Taenia Solium*, though much smaller than usual, has been found in muddy springs; that the *Pistona Hepaticum*, has been seen in fresh water; and the *Ascaris Vermicularis* among the putrescent roots of vegetables. Other Cases of a similar Character might be related, but we deem it unnecessary, since, more, modern writers on this subject, on whose credit we can rely, have satisfactorily ascertained, that the worms, which have been discovered, out of the body, differ very materially from those, which inhabit the intestines of human beings, both in structure, and habits.

Moreover, was the statements, of their having been found external, to the body, correct; we would, naturally suppose, that they would be so numerous as to frequently come under our inspection; which, we know to be not the case. A still stronger argument, in disproof

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of this opinion, is, that, were they derived from the earth, they could not subsist, for any length of time, in the intestinal Canal; between, which, two situations, there is in every respect, such entire disparity. As to the changes, in organisation, and habits, which, it is said, may be wrought in animals by change, of food, locality, and other modifying circumstances, we in a limited degree admit; but we deny that the influence, of habit is so, powerfull, (as it must be if their arguments be correct,) as to entirely deprive them of the power of resisting the influence, of agents, which, by nature, they are accustomed, to: for example; there is no fact, with which, the most of us are better acquainted, than, that, intestinal worms when submitted to the influence, of the atmosphere, immediately expire. After having knowledge, of this fact, can we reasonably suppose, that, were the earth or water, their natural place of abode, that, an

exposure to them, would, be so suddenly destruc-
 tive to their lives? As for myself, I think
 not. We therefore adopt the view which
 seems most rational, that is, that Entozoa,
 are animals peculiar to the body, being very
 dissimilar in many respects, to those, which
 have been discovered, in the water or on the earth.

The fact of intestinal Entozoa, hav-
 ing been ^{found} in the foetus in utero, as before ci-
 ted, is the strong hold, of supporters, of the
 doctrine of equivocal generation, in support
 of their opinion. This is an extraordinary
 phenomenon, we must confess, when compared
 with the order which prevails in the devel-
 opment, and continuation, of the species, among
 the higher classes of animals. - But, if
 we reflect, for a moment, and consider that
 we are noticing a class of animals, whose
 circumstances in many respects, are totally dif-
 ferent, from those of animals higher in the
 scale; we can but expect, to find, them dif-

-fering, ^{also} on many particulars, from thence, in the manner of preserving their species.

That the germs, from which these Entozoa are generated, must, by some means be conveyed, to the foetus, we cannot, for a moment, hesitate, to believe; and as there are no other channels of communication, between the mother and foetus, except the circulatory, and absorbent, systems of vessels, by which they could be conveyed; and, as we have denied, that Entozoa, are spontaneously produced, or that the ova, or germs, from which they originate, are derived from without; we arrive, at the conclusion, that they are natives of the body, and that every intestinal Entozoa, with which human beings are harassed, is produced, by a germ, the product of copulation, which is sufficiently minute, to pass through the organs of circulation, and absorption; that through these channels, the germs of Entozoa of various species, and occupying

different situations, must be transmitted, from the female parent, to her children, during foetal life, and, in this manner, is the species preserved. But, this opinion, may be thought liable to objections, on the ground, that if this was the case, we should have Entozoa, more frequently occurring in the foetus, than they actually do; but this can be easily accounted for; because, that pathological condition, spoken of by supporters of spontaneous generation (and with whom we so far agree) as being essential, to the production of Entozoa, is of so rare occurrence, as seldom to give rise to their development.

That certain pathological conditions of the system, are necessary to their development admits of no doubts; for it has been I think satisfactorily proven by experiment; for instance, Salt is an article, which seems to be essential to the health of all human beings in moist climates; without it, the body

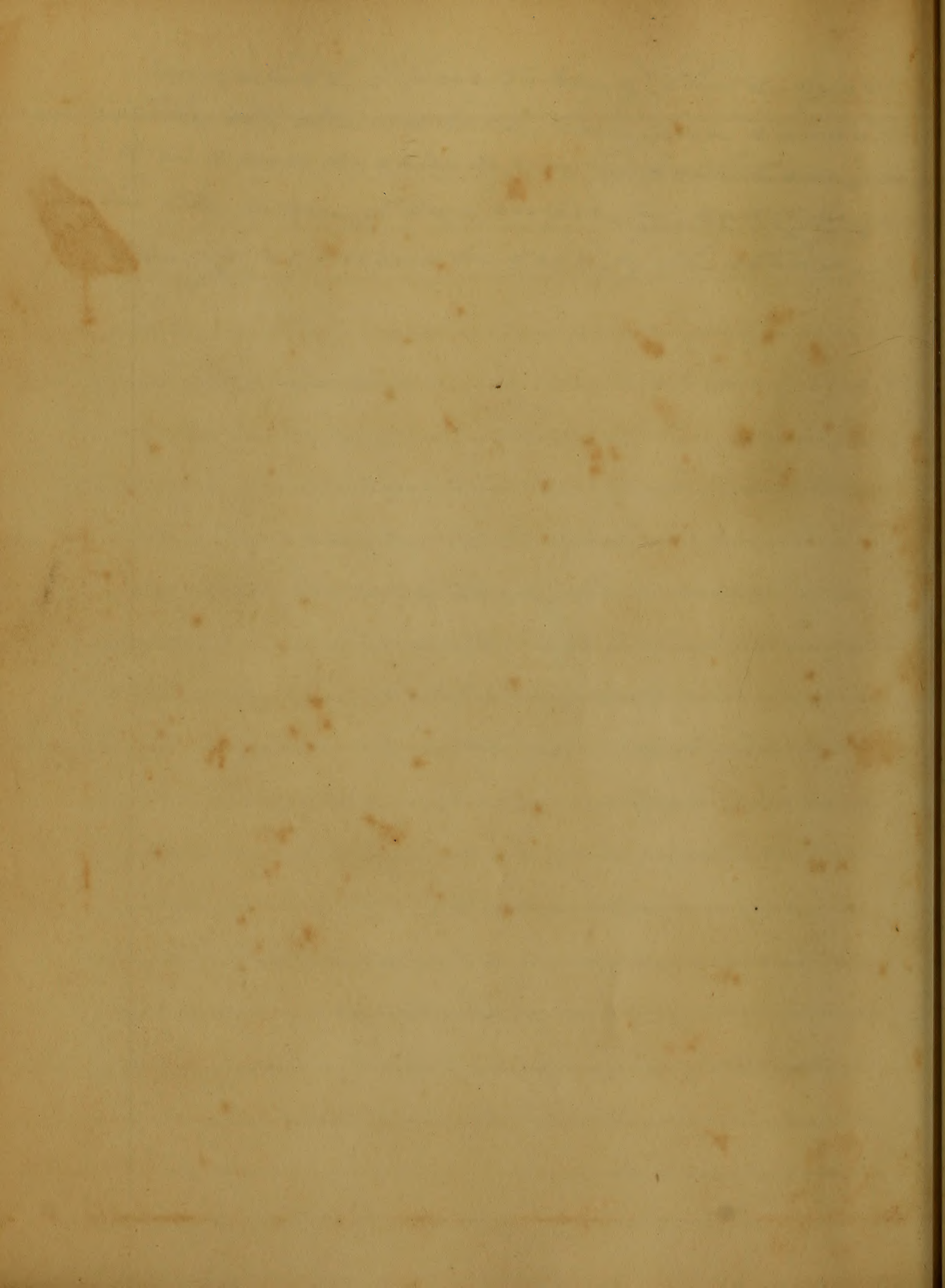
becomes infested, with, Entozoa.

In Holland, it was the practice, to deny salt, to Criminals, in consequence, of which, they became, very much, infested, with, them. A case, also is related, in, one of the, Medical Journals, in which, a lady, having great, antipathy to salt, was largely infested, with, these parasites.

This goes to prove, that, the, perfectly healthy performance, of the, functions of the body, is incompatible, with, their production. There are only certain conditions of the system, that favour the generation, of these, animals; with the essential, nature, of which, we are, entirely unacquainted. Like, the seeds of plants, which, remain imbedded, in the earth, for centuries without, undergoing change, until, brought within the sphere, of the, vivifying influence, of the sun, they remain, in the state, of forms, until, they encounter causes, capable, of producing the being;

The Cause, and, perhaps imperfect,

view, which I have taken of this subject
like all others which have been advanced
is in a considerable degree hypothetical, but
in the main, is supported by analogy, and
can by no means be said of the other



An
Inaugural Dissertation
on
Orpiperlas.

Submitted to the examination
of the
Provost, Trustees,

and
Medical Faculty

of the
University of Maryland

for
The Degree
of

Doctor of Medicine

by

Thomas A. Healey

of

Baltimore

1838.

Expositio

Expositio may be called an inflammation
of the skin, when it is associated with that
of the eye. Dr. Richard Wilmet Hall, M. D.
accompanied with several persons the body

The following pages are respectfully inscribed, as
the fruits of a medical education, conducted under his
care and directions, and as a testimony of gratitude
for the many valuable opportunities of improvement
received by his friend and pupil.

The Author

Could it not be difficult in most cases to
find out the exciting cause of this disease
When it occurs in a part from an injury we
have but one probable reason for the supervening
facts attending this inflammatory action, but
since other circumstances must operate in these
instances as we do not have the inflammation
following external injury in every case

there is in many persons an hereditary or
acquired predisposition to inflammation of
the skin from the most trivial causes and
there is doubtless in some persons an

The following paper is a copy of the

the first of a number of lectures delivered at the
and lecture and as a summary of general
for the most valuable specimens of specimens
found by the first and paper.

The paper

Erysipelas.

Erysipelas may be called an inflammation of the skin, either alone or combined with that of the subjacent cellular tissue; and is generally accompanied with vesicular eruptions, the local inflammation being generally attended with symptomatic fever.

The various forms of Erysipelas depend on the degree of the local inflammation, on the type of the accompanying fever, and on other circumstances with which the case may be complicated.

Causes. It is very difficult in most cases to find out the exciting causes of this disease.

When it occurs in a part from an injury we have at once a probable reason for the surrounding parts assuming this inflammatory action; but some other circumstances must operate in those instances as we do not have this inflammation following external injuries in every case.

There is in many persons an hereditary or acquired predisposition to inflammation of the skin from the most trivial causes; indeed, I have no doubt there is some peculiarity in the

vascular system of the integuments, and any cause which will excite the circulation locally or generally, may give rise to Erysipelas.

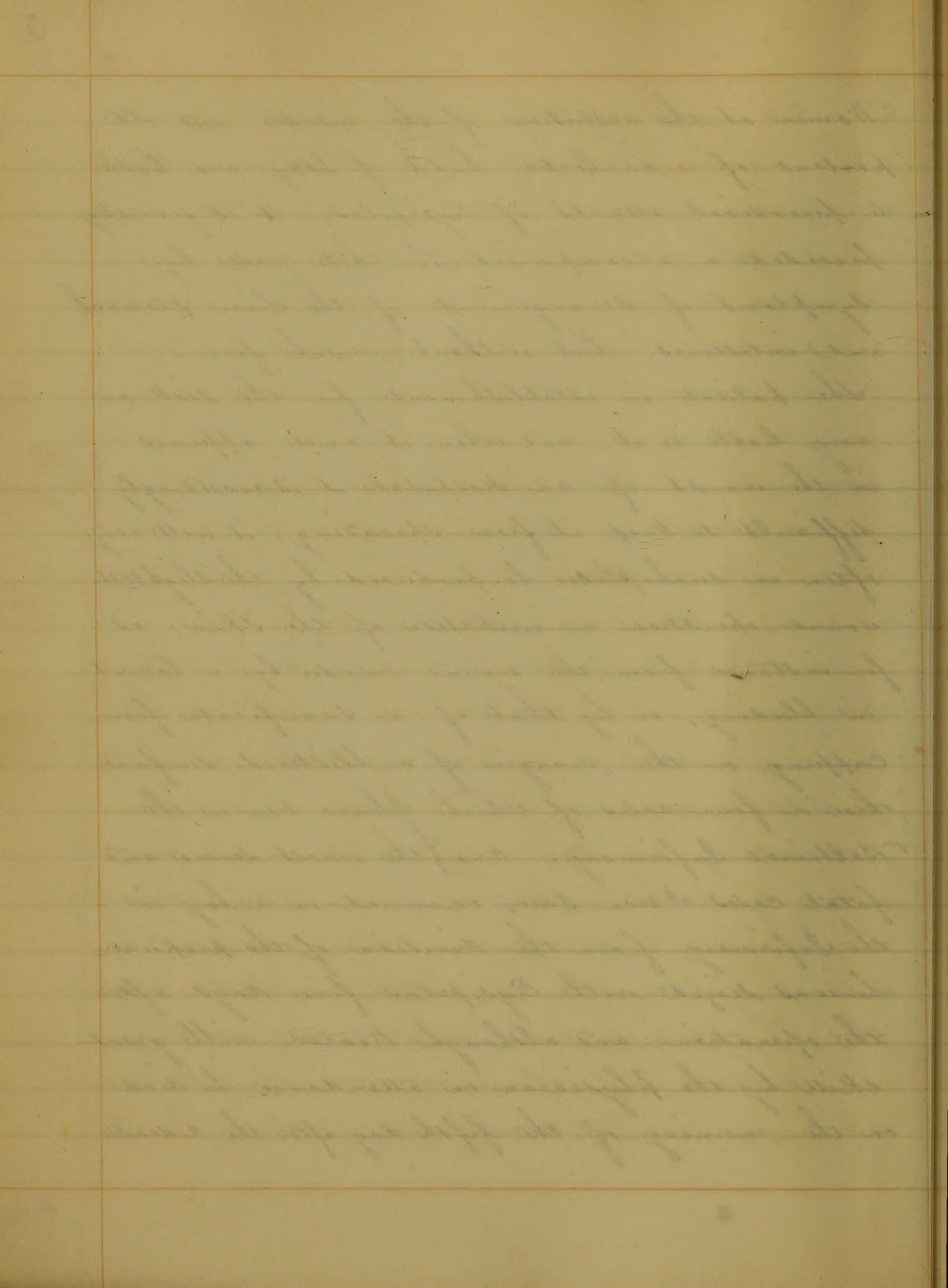
It is often produced by Gastric derangement, and from the intimate sympathy between the skin and mucous membrane of the stomach and bowels, it may become both the predisposing and exciting cause; especially, if there should happen to be a susceptibility to this disease.

Derangement of the Livers will occasionally induce an attack of this disease - Dr. Potter mentions a case of this kind of a lady who lived in a miasmatic district, and had an attack every spring and fall - she was at last cured by Mercury carried to a slight ptyalism & has not had an attack since. - The irritation of the skin produced by an attack of Erysipelas will frequently induce sympathetic disorder of the Biliary & Gastric systems.

It is said that spring and autumn are the seasons of the year in which it is most prevalent; this I suppose to be in part owing to the vicissitudes of temperature in these seasons producing irregular capillary action.

Women at the cessation of the menses and old persons of a cachectic habit of body are liable to periodical attacks of Erysipelas; it is generally preceded or accompanied in these cases by symptoms of derangement of the Liver stomach and intestines, but without much fever.

The patients in establishments for the sick are very liable to it, and when it once appears in the wards of an Hospital it is exceedingly difficult to keep it from spreading, it will very often in such places be produced by the slightest wound operation or irritation of the skin; as for instance from the wound made by a lancet in bleeding, or by that of a scarificator from cupping, or the margin of a blistered surface. three or four cases of which I have seen in the Baltimore Infirmary. One of the most severe and fatal cases I ever saw, occurred in a boy in the Infirmary from the division of the prepuce - he was seized with Erysipelas five days after the operation, and although treated with great skill by the physician in attendance, he died on the morning of the fifth day after the disease



made its appearance.

It sometimes occurs accid spontaneously on different regions of the body without any cause that can be assigned for it, there being no external wound.

It may also arise from pressure, the continued use of a bandage, laying in one position for a long time, & frequently stimulating applications to ulcers produced: several cases of which have come under my notice.

Varieties. I shall describe three forms or varieties of this disease. — The Simple, the Phlegmonoid, and the Oedematous Erysipelas.

Simple Erysipelas. This is the mildest form of the disease, the inflammation here is confined to the skin, which is hot, dry, smooth, red, and shining; the color varies from a deep scarlet to a yellowish red hue.

The swelling is very inconsiderable in this form of the disease, so much so indeed as in some cases to be scarcely perceptible. When the inflammatory action is of a higher grade, effusion takes place in the cellular tissue beneath, and when this occurs, the swelling is proportionately increased. The pain is of a pungent burning kind, very different from the throbbing sensation experienced in a phlegmon, and is greater or less according

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to the intensity of the local disorder. From the fourth or fifth day after the appearance of the disease, vesications form on the inflamed skin, and after this the pain begins sensibly to diminish. The vesicles are sometimes numerous and small, and at others large, and in a few days either break and discharge their contents, or dry, and are converted into yellowish scabs which after a time fall off; sometimes leaving the skin entire, and at others abraded; and occasionally the inflammation goes off without vesication.

In some instances it disappears suddenly from one part, and makes its appearance in another, and will occasionally travel in this way over the whole body. When it manifests this disposition it is denominated Irratic, and must then be closely watched, as it sometimes attacks the brain or some of the viscera, & is followed by symptoms indicating ^{disease} of those organs.

Phlegmonous Erysipelas. The inflammation in this form of the disease attacks the skin and cellular tissue adjoining it, and frequently terminates in suppuration and sometimes in sloughing of the parts affected.

The young and vigorous are mostly attacked with this form of the disease, it also occasionally attacks

to the end of the last year it was
found a full year after the appearance of
these, indicating from the appearance of
after the first year usually a month or
months are sometimes numerous and small and
they may be in a few days after the first appearance
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which for a few days, sometimes being
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The same is also the case with the
but not in other appearances, as they are
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it manifests this disposition to form in the
a number of days, and it is sometimes
to have a trace of the disease, for a few days
indicating of the disease.
The Government Hospital, the information is
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the appearance of a few days, sometimes in
and sometimes in the first of the first
the young and vigorous are, with occasional
the form of the disease, it is usually

persons of advanced age, but its progress is longer and the inflammatory symptoms are so violent in old persons. The extremities are the parts most frequently affected with this form. In all the cases of this kind that I have witnessed has been preceded a day or two before by symptoms of high inflammatory fever - the patient is seized with a chill which generally continued about an hour attended with nausea and vomiting, this goes off and he is attacked with pain in the head back and limbs; the skin is hot and dry, and the tongue is coated sometimes white and at others yellow, the pulse is quick tense and frequent: after these symptoms have continued from one to two days the local inflammation makes its appearance, and this is the first thing that acquaints us with the nature of the disease we have to contend with. The skin becomes slightly red and tumid, and an effusion takes place into the subcutaneous cellular membrane, this form spreads very fast, the redness of the skin becomes of a deep red tint, accompanied with a sensation of burning heat which is almost intolerable. The redness disappears on pressure but reappears again as soon as the finger is taken off the part. The disease generally goes on for five or six days, when suppuration

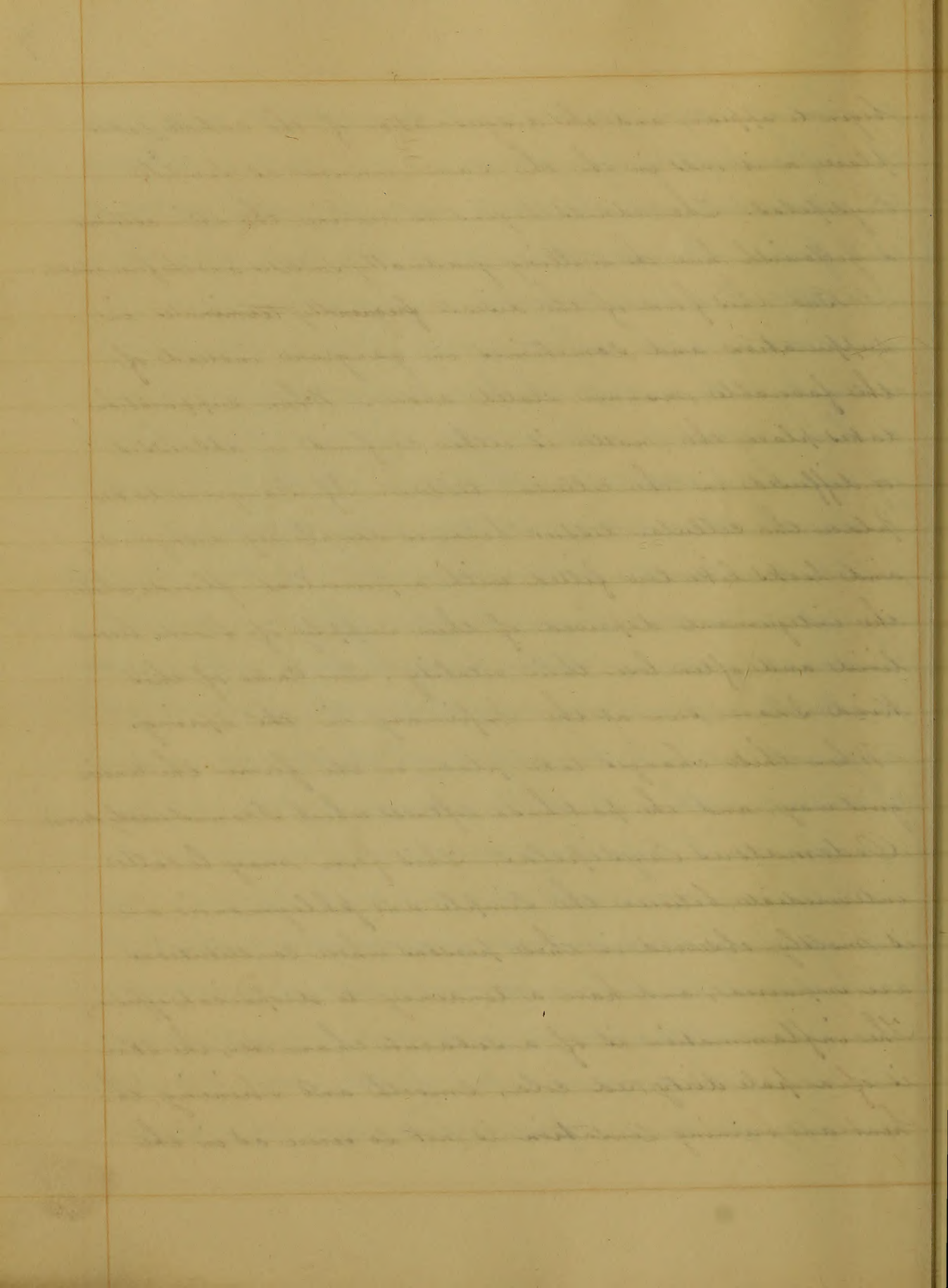
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begin to appear, and the desquamation of the cuticle takes place, as it ends in the the same manner as simple Erysipelas. The redness begins to decline, the skin assumes a yellowish hue, the swelling gradually subsides and the fever abates.

But this form of the disease frequently terminates in suppuration and sometimes in gangrene, instead of the favorable manner stated above. When suppuration takes place the matter is either confined in abscesses or diffused in the cellular tissue. If gangrene takes place the cellular tissue becomes completely necrotic, and looks like tow filled with a purulent fluid, while the integuments deprived of their supply of blood, become livid and often lose their vitality. Two cases of this kind I have seen at the Infirmary in the spring.

When these changes take place in the former the latter gives way, and the part has a softness which I cannot exactly describe.

Oedematous Erysipelas. This form may be called intermediate between the simple and phlegmonous, and is mostly observed in those persons whose constitutions are impaired, and have a tendency to dropical effusion. The inflammation is of a subacute character, the skin is of a pale dirty red color, smooth and shining, the heat and burning sensation is not so severe as in the



phlegmonous form, and on pressure it feels like the swelling produced by edema. This form is liable to end in gangrene, which may be known by the redness changing to a dark livid hue, and by the cessation of pain.

The danger from Erysipelas is much greater when it attacks the face and scalp than on any other part of the body. This arises from the brain or its membranes becoming involved in the disease. This is supposed to arise from the fact that the capillary vessels and cellular tissue are in part continuous with those inside of the walls of the Cranium. I have seen inflammation of the serotum in three instances, the brain was affected from sympathy in all those cases, and is much more dangerous than when it attacks the trunk or limbs.

Diagnosis. The rosy hue of the skin, the burning pain, uniform swelling, the tendency to spread, the abrupt and irregular border, and the tendency of the disease to suppurate, will easily point out its nature and distinguish it from phlegmon.

Treatment. The treatment of this disease is divided into general or constitutional and local. In the treatment of simple Erysipelas the bowels are to be kept soluble by light aperients, attention

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ought to be paid to be paid to the part on which it occurs, and not let it be in the depending position. Scarifying and applying warm fomentations to the part, will be found to be all that is necessary.

The Phlegmonous Oryzipelat is the most acute form of the disease both as regards the local inflammation and the fever accompanying it.

Bloodletting— In general bloodletting is indispensable, and particularly if it should happen to occur in the face or scalp— blood must be taken largely and repeatedly, until the symptoms of cerebral affection are removed, both general and local. Leeches are very useful when it attacks those parts— a cooling lotion applied to the scalp will also be of great benefit.

Active purgatives, emetics, abstinence, cooling drinks and perfect quiet, are the remedies to be used in the beginning of this form of the disease.

This is the treatment to be used to be used with the young and plethoric in the first few days, and when the local and general excitement is such as to allow its being pursued. When it occurs in weak and aged individuals, this treatment would be very injudicious. Local depletion may be used

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with great advantage in such cases with cooling applications, whilst we at the same time sustain the powers of the constitution by nourishment and tonics, and also keeping the bowels open.

The active constitutional treatment ought generally to be restricted to the first four or six days of the disease, as the system in that time begins to show signs of impaired energy - if it does not and the inflammatory symptoms continue, this treatment must still be pursued.

Scarifications with the lancet. I have seen more benefit from this than from all the other remedies combined; it is suited to nearly all the stages of this disease before suppuration or gangrene takes place. if ~~it~~ ^{either} should occur - it will do more than any other remedy to prevent either of these occurrences. I have seen it in several instances put a stop to the progress of the inflammation in one night - it gives immediate ease to the patient by relieving the congested vessels, and the distention of the part, and also by the stimulus which the knife imparts. There should be a warm bread and milk poultice applied to the part immediately after the incisions have been made,

The first of these is the fact that the
 population of the country is increasing
 rapidly and that the demand for
 land is becoming more and more
 acute. This is due to the fact that
 the land is being used for
 agriculture and for other purposes
 which require a large amount of
 land. The second of these is the
 fact that the land is being used
 for other purposes which require
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 of these is the fact that the land
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 for other purposes which require
 a large amount of land.

as it keeps up the flow of blood and imparts to it a soothing influence which is very grateful.

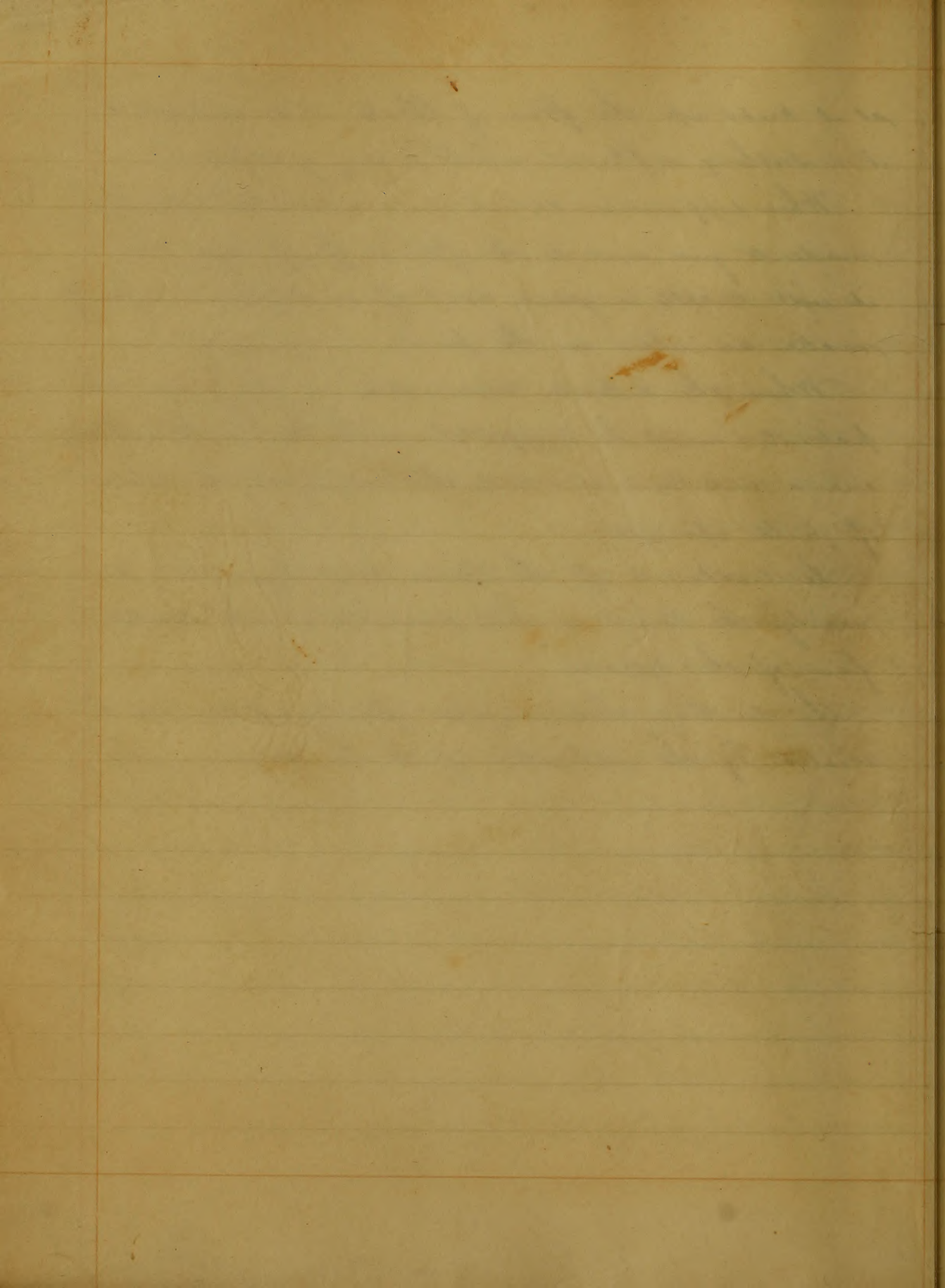
When suppuration occurs an incision should be made to give vent to the fluid, for if left there it will create a great deal of irritation and finally make an ulcer in the part.

When the disease terminates in gangrene, the patients must be supported with tonics, stimulants, and a nutritious diet, and the occasional exhibition of mild aperients.

The treatment of the Oedematous Erysipelas is nearly the same as that pursued in the simple form of the disease.

The swelling that remains after Erysipelas is to be treated by the application of the bandage.

as it takes up the form of that and is confined to
 it a certain system which is very general.
 When the system comes on a certain point it
 made to give out to the form of the life then
 it will create a great deal of vitality and
 make an union in the part.
 When the system is terminated in progress, the
 patient must be supported with some stimulus
 and a nutritious diet and the medicinal diet
 of such spirit.
 The treatment of the Debilitated system is
 nearly the same as that of the part in the
 form of the disease.
 The building the remains of the system is to
 be the object of the application of the language.



In
Inaugural Dissertation

on Phrenology

Submitted to the

Board, Professors and Trustees
of the
University of Maryland

for the degree

Doctor of Medicine

by

Plachy Warner Gilmer of Virginia

1835

Journal of the

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1858

It is now generally admitted that the central portion of the nervous system is the organ of intellect and sensibility. Injuries done to the brain and the action of Narcotics, producing their deleterious effects on the healthy action of the mind, prove this most incontrovertibly. If then the brain be the organ for the operation of the intellect, the enquiry very naturally suggested itself whether the dimensions of the head would not be a just criterion for ascertaining the extent of the mental powers. On this hypothesis were founded the Norma Verticalis of Blumenbach, the occipital angle of Deubenton, and the facial angle of Camper. These various methods recognised the brain as one organ, single and independant, through the instrumentality of which the phenomena of thought are brought into existence. But many physiologists pushing their speculations still farther now contend that the brain consists of a plurality of separate and distinct organs, equal in number to the primary faculties of the mind. In other words that each faculty of the mind has its own portion of the brain through the medium of which it performs its action. And they maintain moreover that the existence or non existence of these organs is indicated

by depressions or elevations on the cranium, and that by these developements the disposition and traits of individuals may be judged. This constitutes the Science of Phrenology, the rudiments of which were known in remote antiquity and received the sanction of the bright genius of Aristotle. But it is to the labours of Gall, assisted by his colaborer Spurzheim, whose recent death the science of medicine and particularly that part of it connected with minute dissection, has to deplore, that Craniology is indebted for its claim to be ranked as a Science. A man of observation and reflection, which he attributed to peculiar organization, his attention was at an early period arrested by the fact that the various shapes of the heads of his fellow students were invariably connected with certain moral and intellectual endowments. After the interval of many years entirely devoted to this subject, he came to the conclusion and endeavoured in a ponderous work of 6 Volumes octavo to establish the opinion that the brain consists of a congeries of organs each acting in its own sphere and scarcely associated with the rest. Are these views of Gall correct, or shall we regard them as mere chimeras of the imagination

by definition a character in the human mind
that by these developments the acquisition and
growth of intellectual life is fostered. This is the
the science of ethnology, the treatment of which
was known in remote antiquity and received the
character of the right genus of knowledge. But it is
to the labors of Hall, effected by his collection
of specimens, whose merit leads to the science of race
and particularly that part of it connected with
historic ethnology, that the highest, that ethnology is
directed for its claim to be ranked as a science
of man of observation and reflection, which is still
to be pursued in ethnology, his attention was
at an early period attracted by the fact that the
most striking of the heads of his fellow students were
unusually connected with certain moral and social
historic circumstances. After the culture of ethnology
entirely limited to this subject he came to the conclusion
that the endeavor in a particular kind of
ethnology should be directed to the question that the
same consists of a comparison of organs and each organ
in its own sphere and to each organ associated with
the rest of the human body as a part of the human
system then as more characters of the human mind.

and the monument of the misapplied talents of men calculated to be ornaments of the profession. Does the brain consist of a plurality of organs? One argument urged with considerable confidence to establish this position is, the feeling of relief we experience after long study in changing from one study to another. This relief arises it is said from the fact that a new organ is brought into action and the fatigued one allowed to repose. But let us apply this reasoning to other organs and see to what conclusion it leads. The eye it is well known after gazing at a brilliant object, such as the sun, is dazzled and fatigued, and obtains immediate relief in resting on milder colours. And it is acknowledged by all who have for a length of time heard the same monotonous note, that much delight is afforded by the melody of different tunes. In the eye then a change from one colour to another and in the ear from one sound to another afford relief. And if the argument be valid with regard to the brain to prove the existence of many organs, according to the rules of all just reasoning we may apply it to the organs of sense and prove that every man has as many eyes, ears, tongues

and the measurement of the corresponding intervals of
time calculated to the measurements of the professor.
Does the brain consist of a plurality of organs?
One experiment might suggest such a confidence
to establish the position of the faculty of reflection
experience after long study in changing from one
study to another. This kind of work is so good for
the fact that a new organ is brought into action
and the faculties are obliged to separate. But let
us apply this reasoning to other organs and see to
what conclusions it leads. The eye it is well known
after exposure to a brilliant object such as the sun
is dazzled and fatigued, and obtains immediate
relief in looking on weaker colored objects. It is so
known by us who have for a length of time
known the same immediate relief that must be
light is afforded by the change of different times.
In the eye then a change from one color to another
and in the ear from one sound to another affords
relief. Now if the experiment be made with regard to
the brain to prove the existence of many organs,
according to the rules of all just reasoning we
may apply it to the organs of sense and prove
that many more had at many times, organs

and noses, as there are different colours, sounds, tastes, and odours. ^{or} Multiplicity of appendages by no means convenient, for the small area of our faces.

If this reasoning is logical, leading as it does to the *reductio ad absurdum*, we may reject the argument of relief experienced by a transference from one employment to another, used to prove a plurality of organs in the brain, as impotent and unsubstantial. A second argument is the partial loss of power either from disease of the brain or accident. Now if this partial loss existed in different faculties it would be an argument of weight, but most frequently it is found in the same faculties. A remarkable case is upon record, of a young lady who after the illness attending her first delivery forgot her marriage and every event that had taken place since that time, even the birth of her child, while her memory was distinct as it regarded every occurrence prior to her matrimonial union. Here the partial loss of power was in the same faculty (Memory) and if it prove any thing it is this; That every idea has its organ, and that there are as many organs as there are ideas, which if true would go very far in demonstrating the infinite divisibility of matter and a number of organs far exceeding the 27 admitted by Gall

The advocates of Craniology contend that the brain being symmetrical has two organs for the same faculty, one in each hemisphere. These organs are separate and distinct, and hence not limited in their operation by each other. It will not be astonishing that things diametrically opposite and irreconcilable should occur. It will not surprise us if an organ on one side of the Cerebrum makes us believe, while its neighbour organ in an obstinate humour, on the other side makes us disbelieve at the same moment. And it proceeds from nothing but the impulse of organization and the physiological action of the various and discordant organs in the brain that we behold the melancholy spectacle of a statesman at one time full of patriotism, sacrificing every private consideration to national prosperity and at the very next minute forgetting his responsibility and bartering his country's honour and happiness for gold. Moreover according to the admission of the founders of Craniology each organ is separate, without any federal compact or union with the rest: and each being sovereign, and independant, every one of the 27 organs should be able to perform its function at the same time. And nothing would be more rational and successful than the attempt to solve the problem relating to the Square of

the Hypothenuse, so abstruse that the philosopher who first demonstrated it from excess of joy is said to have sacrificed a hecatomb, and at the same time to compose a ditty on the charms of femal loveliness. To exercise the faculties of reason; fancy and wit, and to be gay and melancholy, benevolent and malicious at the same time. But the most formidable argument that can be used against Phrenology and one which by destroying the very facts on which the advocates of craniology bids fair to demolish the fabric which ingenuity has erected, is founded on appearances presented by the morbid anatomy of the encephalow. There is scarcely an organ near the periphery of the brain which has not been impaired or obliterated without affecting the moral or intellectual character to any appreciable extent. Is not this totally incompatible with the supposition, that there are numerous organs in the brain and that for the due apposition of the faculties of the mind their integrity is absolutely necessary. Even the Cortical part of the brain has been removed and no injury done to the intellect and yet according to Gall and Spurzheim this portion of the brain is the exact locality of the organ of intelligence. This fact utterly subversive of the whole theory which these gentlemen spent their lives and

The opportunity to observe the phenomena of life
in the laboratory is from a point of view to have seen
first a description of the various forms of organisms
with an account of their habits and the conditions
of their life. The student of natural history and
the student of medicine must have a knowledge of the
various forms of life and the conditions of their life
in order to be able to understand the phenomena of life
in the laboratory and the conditions of their life in
the human body. The student of natural history and
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various forms of life and the conditions of their life
in order to be able to understand the phenomena of life
in the laboratory and the conditions of their life in
the human body.

asserted every nerve to establish has been denied. It re-
quired but little sagacity to see that if uncontroverted
this fact would demolish their favourite system, and
departing from that candour which usually charac-
terized their conduct, they have denied it both in detail
and the abstract. To prove the fact however we may refer
to many cases enumerated by Haller and in the Man-
chester transactions. An argument drawn from the phe-
nomenon of Monomania, has been urged with considera-
ble force to support the Phrenological System. Such an
instance is mentioned by Lord Erskine. This individual
believed himself the Saviour of the world and hence it is
concluded the organ of Theosophy or Religion was diseased
while the other organs were in a healthy state. It ap-
pears to me that the same argument which I used with
regard to the person whose memory was treacherous and
faulty on one subject but not on others, applies in full
vigour to this case. The belief in the absurd notion that
he was the Son of God, must have proceeded from some
sup, irremediable injury of the reasoning faculty. This
department of the mind was deranged. We find however
that he was not deficient in judgment or reason on
other subjects, on the other hand he was remarkably shrewd
and subtle, so as to baffle the efforts of the most acute

council to detect his insanity. From this it follows, ei-
ther that there is a separate organ for all our ideas, ex-
tending as they do to infinitude and that the great or-
gan of reasoning is subdivided into as many tributary
organs as there are different faculties of the mind brought
into exercise during the investigation of any subject re-
quiring a chain of reasoning. In other words - That these or-
gans are infinite as the ideas of the mind, over which they
preside, are infinite and put enumeration at defiance:
or it follows that a part of an organ may be morbid
and not affect the neighbouring part of the same struc-
ture. That while the organ of reasoning was diseased
so much in one part as to lead to chimerical and ir-
rational conclusions, a part in immediate proximity
may be perfectly exempt from disease and have its
function uninfluenced. This fact is contrary to all anal-
ogy in the rest of the system and utterly opposed to all
we know of the doctrine of sympathy. It seems to me
then that this argument is untenable. Another argu-
ment of much plausibility in favour of Craniology, is
derived from injuries done to the skull, producing cer-
tain effects on parts over which they appear to exer-
cise controul. Let us take the Cerebellum the organ of
the instinct of generation. This according to Gall and

Spurzheim is the organ which creates the distinction of sense and occasions venereal excitement. The reasons for this opinion are familiar to us all. One of them is drawn from the fact that injuries done to the Cerebellum always affect the organs of generation. But does this establish the truth of the proposition that the Cerebellum is the organ of reproduction? Extend the proposition to other parts and again will we multiply and extend the number of these organs without limits. It is well known that injuries done to the brain produce vomiting and may we not conclude from the same evidence that Gall had to prove an organ of civility, that there is also an organ for this purpose. A blow on the Cranium excites vomiting therefore it follows there is an organ for vomiting. But cannot the connection which exists between the Cerebellum and the Sexual passions be explained on different principles. Anatomical researches demonstrate that a great number of nerves take their origin and are distributed, from the immediate vicinity of the Cerebellum. These branch out over the body and anastomose freely with the ramifications of the rest of the nervous system. The nervous system it is acknowledged is necessary for the function of every organ

The question is the organ which creates the institution
of law and ecclesiastical government. The reason
for this opinion are familiar to us all. One of them
is known from the fact that injuries done to the
Kellum always affect the organ of government. But
has this established the truth of the proposition that the
Kellum is the organ of representation? Certainly the
proposition is not true and again once we have
truly and exactly the number of these organs we find
limits. It is well known that injuries done to the
Kellum produce something and may we not conclude
from the same evidence that the law is given in a
form of government, that there is also an organ for
this purpose. It then on the common excited
and therefore it follows that there is an organ for
that cannot the executive which exists between the
Kellum and the several provinces is explained in
different principles. The historical evidence shows
that a great number of organs take their
form and are distributed from the immediate
of the Kellum. These organs are not the law and
evidence may with the organization of the
of the various organs. The various organs
is sufficient for the function of any organ

If then so important a part as the Cerebellum be injured is it surprising that other parts should sympathize with it and be impaired in the due performance of their functions? It is just what a priori we would expect. We may attribute, ~~then~~, connection, ~~then~~, between the Cerebellum and the passion of venereal love to the action of the nerves which proceed from it and are indirectly united to other parts, or we may own our ignorance, a resort to which physiologists are frequently driven and which in fact constitutes no opprobrium to the profession, for it is said to be the summit of wisdom to know how little can be known. We may own our ignorance and say it results from some mysterious sympathy with which we are totally unacquainted. But admitting the truth and correctness of Craniology what would be its effect upon the morals and intellect of the world? According to the popular opinion which considers the brain as the great central organ for thought, one and entire and which by due culture can be so modified as to give birth to faculties, which otherwise would never have been awakened from their torpor. Education is the most powerful lever which can add vigour to the mind. A regular and judicious academical discipline to a congenial soil is often

If there is important a part as the Constitution is
and is a surprising that other parts should be
these parts of and be compared in the same performance
of their functions. It is just what a person can and
expect. The only other part, the connection, then, between
the Constitution and the position of ourselves have taken
action of the matter which process from it and are in
nearly united to other parts, or are they are not
some extent to which they are not
taken and which in fact constitutes an opportunity
to the profession, for it is said to be the amount of our
own to those who will be in the way. It may be
our interest and we should from some perspective
especially with which we are to be made
But admitting the truth and correctness of Government
what would be its effect upon the people and what
of the matter does not to the popular opinion which
comes and the basis of the great center upon
though we are not and which by the nations can
be as much as to give birth to families which
themselves would have been something from their
to be. Education is the most powerful force which
can be given to the nation. It is the only one
which is the only one to be given and it is the

followed almost by magical results. Where there was pre-
viously mediocrity it confers eminence, modifying, in-
vigorating, almost creating and intellect anew. Accord-
ing to this view then education is of incalculable bene-
fit. But if on the contrary the facts maintained by
Phrenologists be legitimate, if there be a plurality of or-
gans, of what efficacy is education? It sinks in com-
parative insignificance. For if a certain organ, say for in-
stance that of reasoning, be not developed, how vain and
cruel is the attempt to instill into the mind any proposi-
tion dependant upon cause and effect. If the organ by
which the mind comprehends abstract truth be want-
ing the attempt to acquire this species of knowledge is
futile. If the organ of fancy be deficient then no cultiva-
tion will ever enable us to relish and admire the sub-
lime and eloquent strains of Ancient or Modern poetry.
So too with regard to morals, the same reasoning is appli-
cable, the same effects follow. Drs. Gall and Spurzheim do
not show that there is any mode of amplifying or di-
minishing any organ of the brain. If then the organ of theft
be prominent no attention, no punishments will prevent
a series of thefts. Punishment acts on a different organ
(Pride) and leaves the organ of theft uninfluenced. On
the other hand if the organs of benevolence, Piety &c. be well

Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side. The text is mirrored across the lines and is difficult to decipher.

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developed the happy youth is in no danger of corruption
or vice, no matter if he be surrounded by every species
of depravity. What to him is the Stealing, Swearing and
vice of his companions? Is he not secure from the influence
of bad example, for has he not his organs of Benevolence
fully and prominently developed? And is not this a pan-
oply to protect him from every assailant? Thus it appears
that the doctrine of Craniology runs counter to the most
universally acknowledged system for the amelioration of
Mankind. How scrupulous should we be then in subscrib-
ing to the truth of a new hypothesis which may be replete
with serious mischief.

But while I profess my unbelief in the doctrines of Phre-
nology, it must be admitted that Gall and Spurzheim,
like the Alchemists of olden times, while in pursuit of a fact
which they cannot establish and which if they did would be
of no practical importance to the world, have casually con-
ferred much benefit to Medical Science. They were men of
genius and erudition and by their minute attention to the
brain and their elegant dissections have elucidated the anat-
omy of that organ and consequently contributed much to the
scientific treatment of Cerebral diseases

...the happiness of the world is not a matter of course, but
...the result of a long and arduous struggle, and it is not
...to be expected that it will be achieved in a day. It is
...a matter of fact that the world is not a perfect place,
...and it is not a matter of course that it will be so in the
...future. It is a matter of fact that the world is a
...struggle, and it is not a matter of course that it will
...be a perfect place in the future. It is a matter of fact
...that the world is a struggle, and it is not a matter of
...course that it will be a perfect place in the future.

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...that it will be a perfect place in the future. It is a
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...matter of course that it will be a perfect place in the
...future. It is a matter of fact that the world is a
...struggle, and it is not a matter of course that it will
...be a perfect place in the future.

To
John Mayo M.D of Virginia

Distinguished alike for his

Medical attainments

Philosophical researches

and
Chemico-Agricultural Investigations,

This Magnam Diploma

is respectfully dedicated

by his friend & Servant

P. H. Gilmer.

No

John W. ...

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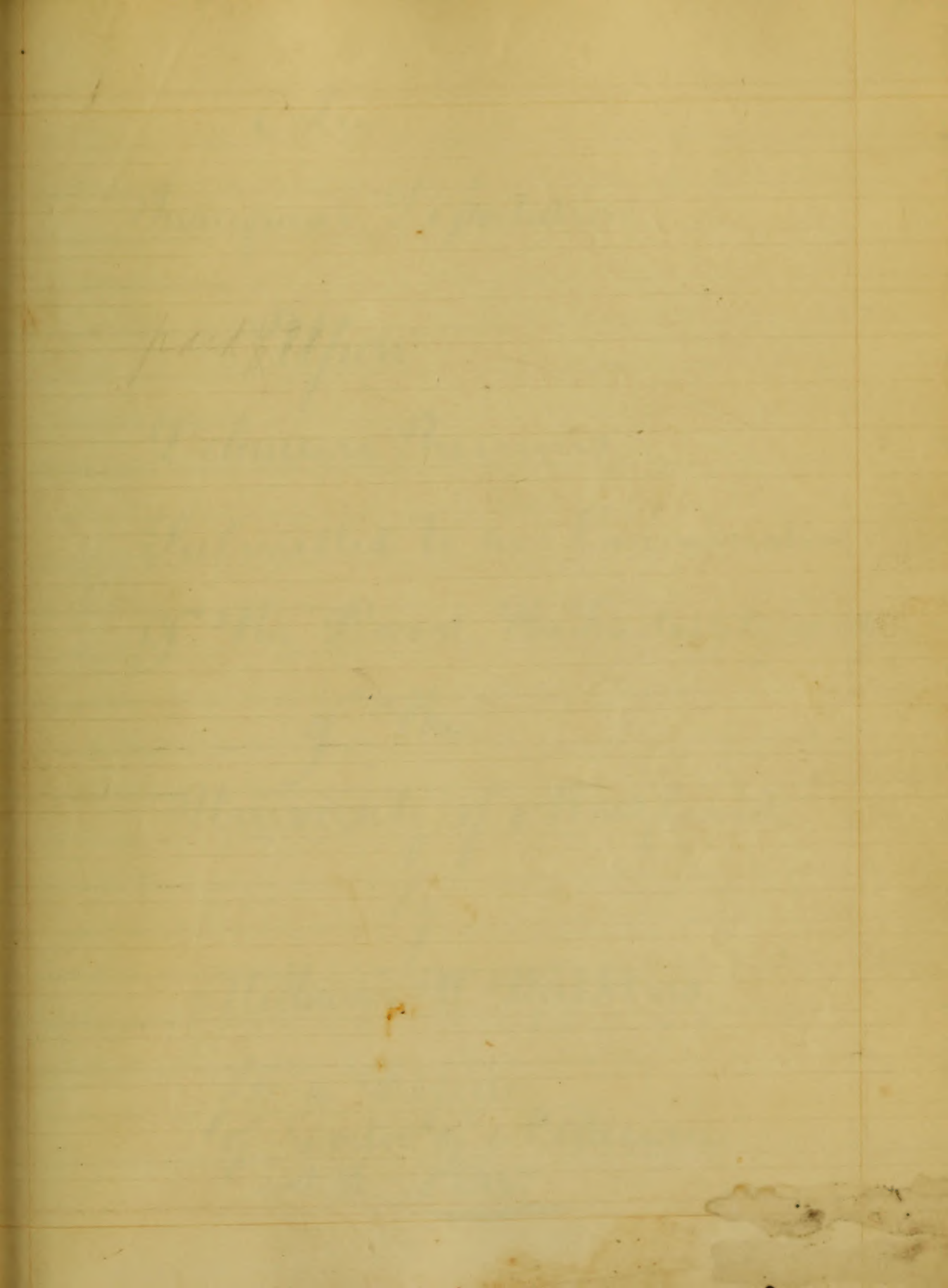
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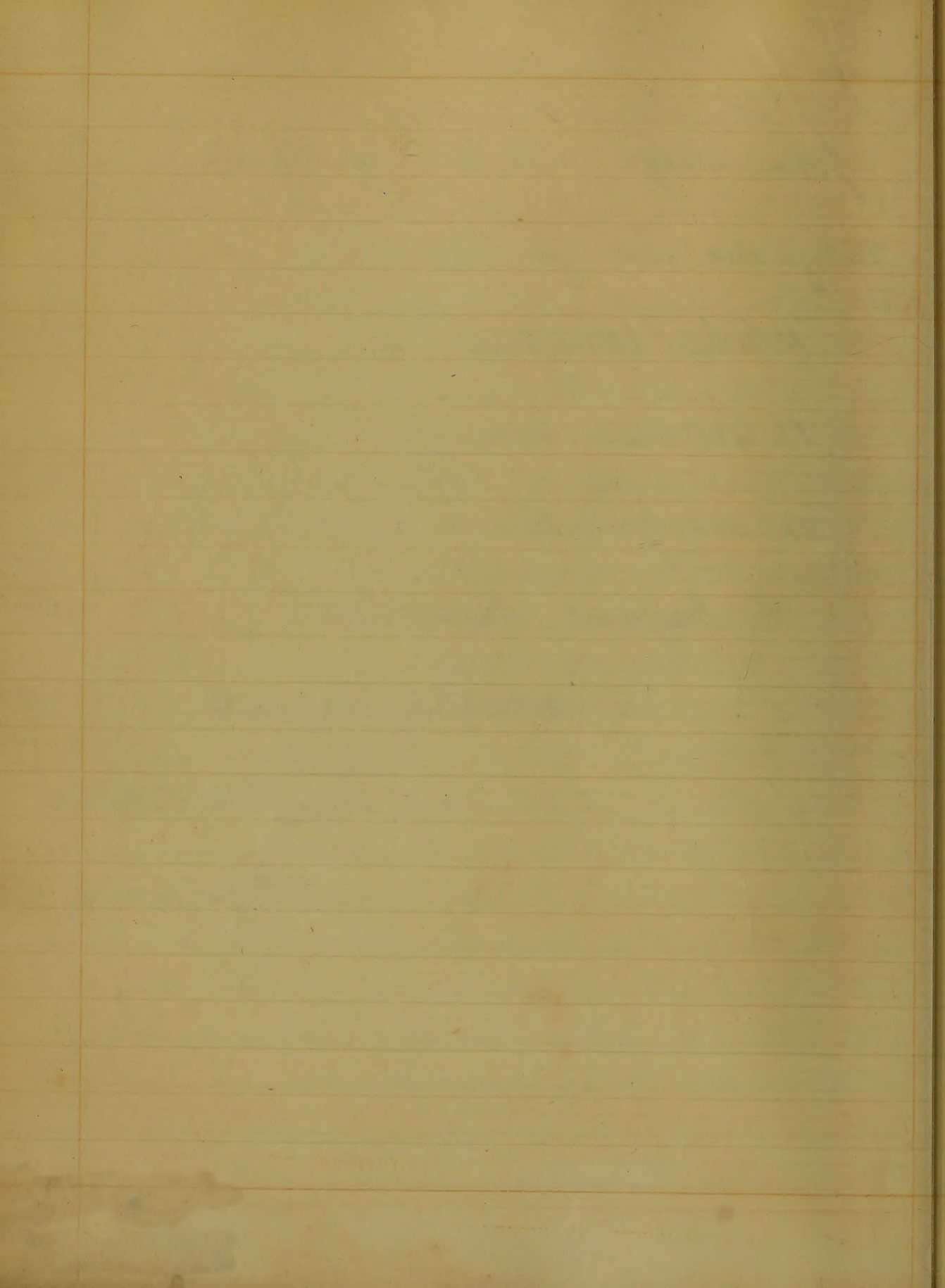
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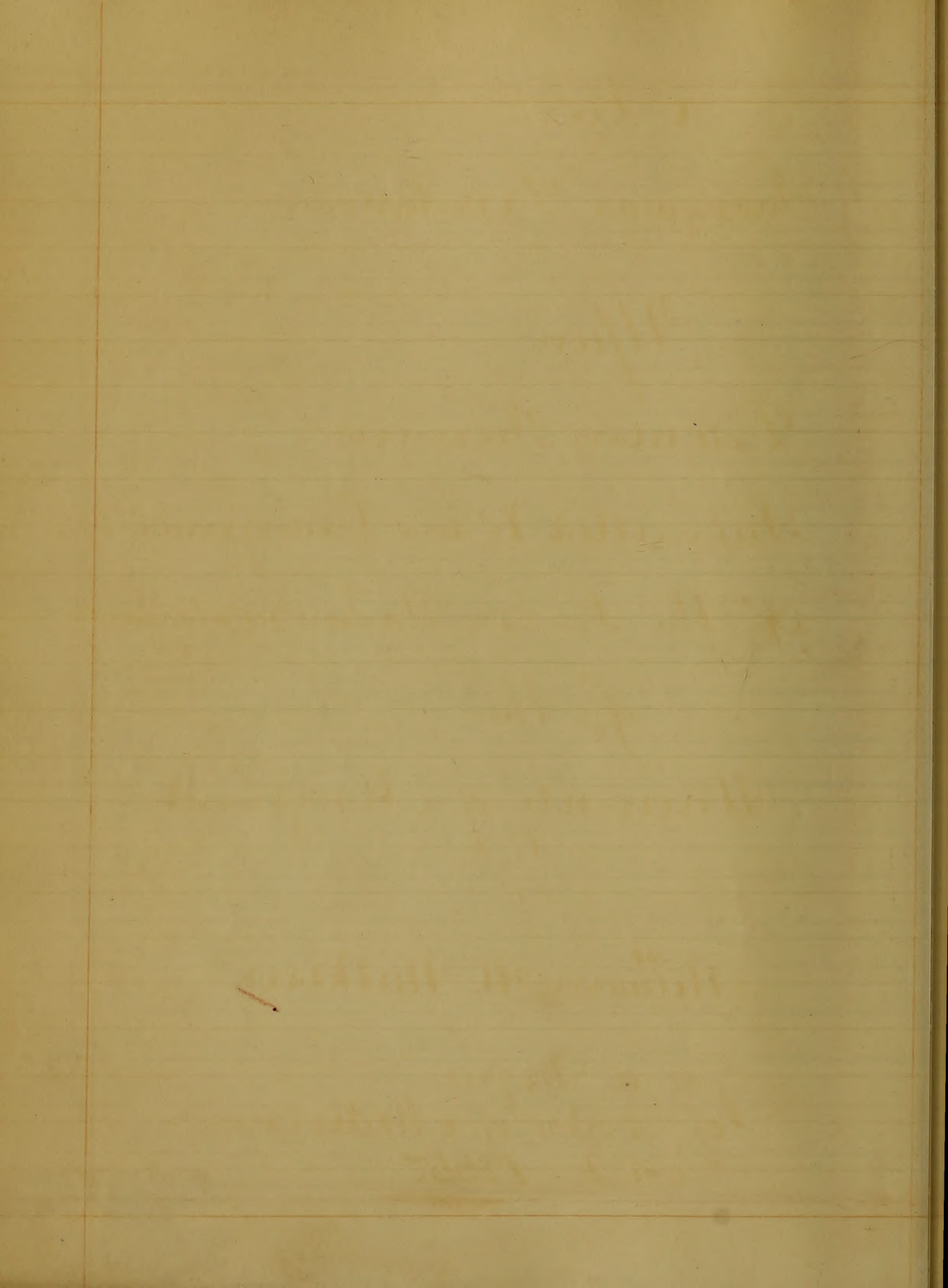
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An.
Inaugural Dissertation
Upon
Delirium Tremens
Submitted to an Examination
Of the Provost, The Trustees, & The Faculty
of The
University of Maryland.
by
William W. Watkins.

For a Degree
of Doctor of Medicine.
A. D. 1835.

John

Thompson's Dissertation

Alford

William Thomson

Submitted to an Examination

of the Doctor of the University of

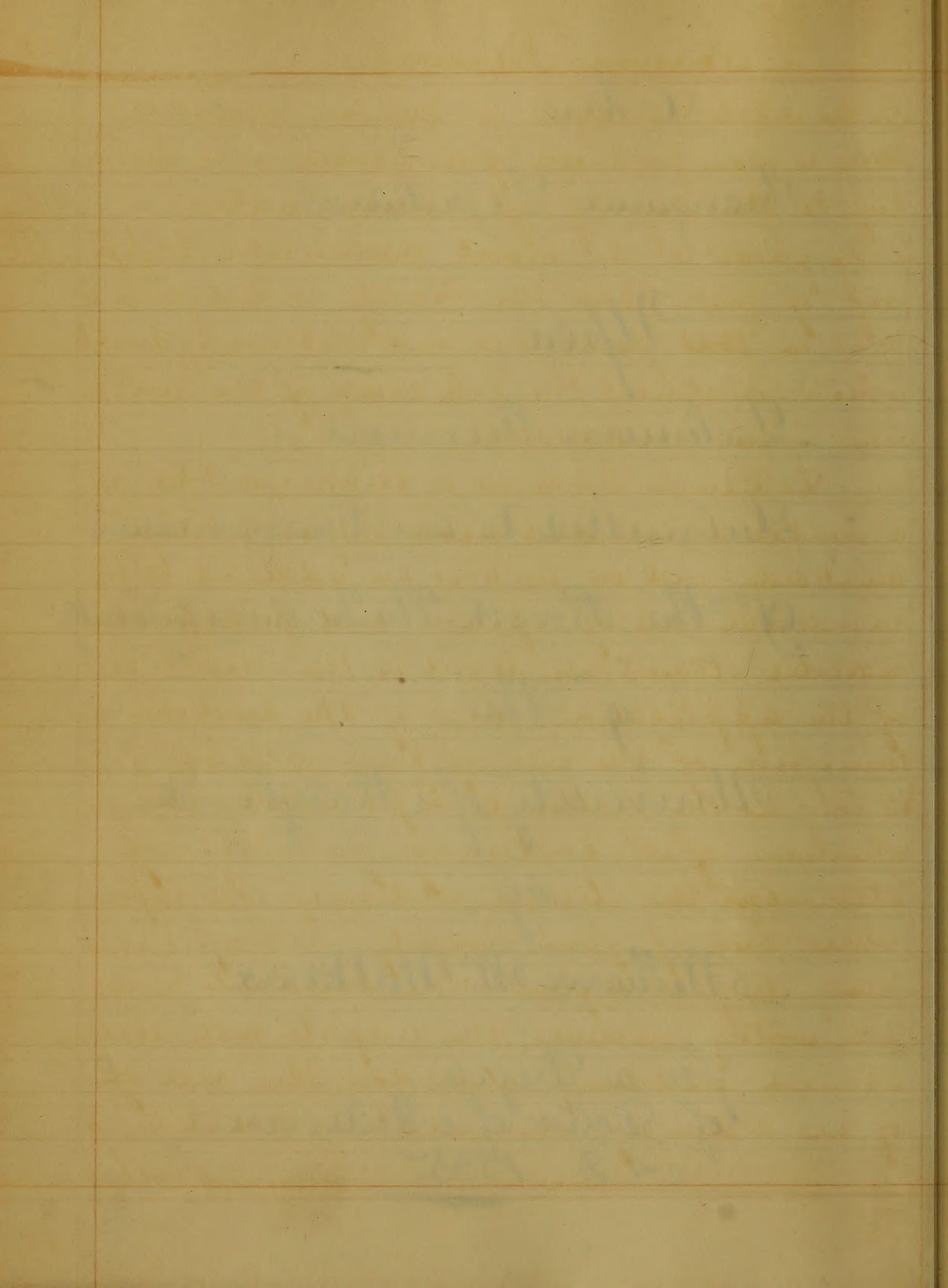
of the

University of Edinburgh

by

William Thomson

for a Degree
of Doctor of Medicine
A. B. 1835



Delirium Tremens.

1

In the whole catalogue of human maladies, there is none produced from causes more derogatory to the dignity of human nature, or more fatal to the moral and domestic happiness of man; than the beastly indulgence in that ~~is~~ ~~the~~ pernicious and insupportable draught, which, is almost the sole cause of the disease now under consideration.

Delirium Tremens, or *clania a Potu*, is a mental disease, and occurs only in habitual drunkards, and in such as are addicted to the inordinate use of opium, and perhaps other narcotic stimulents. And is the result not of the application; but of the sudden intermission of the use of these articles.

So long as the system is kept under the influence of its customary quantity of stimulus the disease seldom if ever supervenes; but if from necessity, sickness, temporary disgust, or from more laudable and praiseworthy motives, the unfortunate victim should suddenly abandon the use of his ordinary stimulating potations, or
greatly

Pellium Tremens.

In the whole catalogue of human maladies, there is none produced from causes more obscure, or less to the dignity of human nature, or more fatal to the moral and domestic happiness of man, than the deadly and insidious which is almost the sole cause of the disease now under consideration.

Pellium Tremens, or the Green Spleen, is a mental disease, and occurs only in habits of dissipation, and is such as are addicted to the excessive use of opium, and perhaps other narcotic stimulents. Great is the result of the application; but of the medicinal termination of the use of these articles. To keep an the system in health under the influence of its excessive quantity of stimulus, the disease seldom if ever occurs; but if from necessity, sickness, or any other cause, it is from more gradual and insidious means, the unfortunate victim shows suddenly, and above the use of of his ordinary stimulating factors, greatly

Delirium Tremens -

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greatly diminish its quantity. The activity of the brain becomes morbidly increased and mental disorder often speedily ensues.

It is not my object in this dissertation to unlock the box of Pandora, and exhibit to the world the exhausted train of evils consequent upon too close a relationship with the bottle. Yet I cannot, even, upon this occasion, refrain from expressing my deep abhorrence of a practice, which is of itself so prolific a source of disease, as well as of vice and immorality. But I must have done with this digression, and detail the morbid phenomena it is capable of producing in the development of a single disease.

Delirium Tremens - or Mania a Potu. is a mental disease, as I have already stated & is characterized by general inquietude, tremor, continued watchfulness, cool skin and sensorial illusions.

The disease is usually ushered in with lassitude, general indisposition, a feeling of distress in the epigastrium, anorexia, nausea and vomiting, giddiness, a sense of confusion

Delirium Tremens.

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in the head, want of sleep, anxious expression of the countenance, and tremor of the hands. After one or two days the eyes are thrown about with quick and scrutinizing glances, or often fixed, apparently upon some object that attracts the attention for a moment, and then quickly withdrawn; the countenance exhibits an expression of alarm and suspicion; the tremor of the hands increases; the patient becomes irritable, and sometimes irascible; he is extremely restless, walks continually to and fro, and is wholly unable to obtain a moment's sleep.

He now begins to manifest mental disorder, becomes loquacious, says he feels well, & is tormented with more or less continued succession of various alarming, disgusting, and ludicrous apparitions. He fancies he sees dogs, toads, snakes, and other animals in his room, or that persons have entered his room for the purpose of robbing, killing or annoying him. To avoid these and other horrid illusions he calls loudly for assistance; tries to escape

Or
Delirium tremens.

in the head, want of sleep, anxious expect-
 ation of the counterpane, and tremor of the
 hands. After an or two days the eyes are
 thrown about with quick and constant
 glances, a fever fixed, apparently upon the
 object that attracts the attention for a mo-
 ment and then quickly withdrawn; the
 counterpane exhibits an extraordinary degree
 and suspicious; the tremor of the hands
 increases; the patient becomes restless, and
 sometimes irascible; he is extremely weak,
 wills continue well to eat & drink, and will
 I would to obtain a moment's sleep.
 The man begins to manifest mental disorder,
 becomes suspicious, says he feels well, &
 is contented with more or less continued
 erecition of various alarming, disgusting
 and ludicrous apparitions. He & friends
 he has dogs, tools, snakes, and others
 in his room, or that persons have
 entered his room for the purpose of
 robbing, killing or enquiring him. He ex-
 presses and other various illusions he
 calls loudly for assistance; tries to escape

Delirium Tremens.

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Through the door or window; is greatly agitated, vociferates, threatens, and sometimes raves violently. Often calls to imaginary persons, starts with terror from the presence of frightful and disgusting apparitions, insists that he is well and confined with some sinister intentions against him. If he is flatly contradicted, he usually becomes much exasperated, and vehemently insists on the correctness of his opinions. When the disease rises to a high grade the patient ^{becomes} violently and furiously delirious, talks incessantly, and is unable to recognize his friends and acquaintances. It is said by writers upon this subject that persons labouring under Mania a Potus do not appear to be susceptible of much bodily pain. "They never seem to suffer any inconvenience from fractures, though they may at the time be subjecting them to the most constant friction and concussion; and when the disease supervenes upon a pleurisy, or other inflammatory affections with pain; the principal disease seems to disappear, to be

through the door or window, is greatly
 local, and is attended, therefore, with
 some heat, & often with a considerable
 fever, that is, with less than the
 of pleurisy, and depending upon the
 that it is well and confined to the
 the intention against the
 coats of it. It usually comes on
 accompanied, and is attended with
 the course of the disease, than the
 disease is a high grade of
 usually not purulent, but
 especially not in order to
 pleurisy and pneumonia. It is
 by nature upon this subject that
 laboratory under the name of
 often to be successful of such
 pneumonia. The former seems to
 arises from pleurisy, though they
 at the time in subjecting them to
 constant pressure and confinement, and
 to lead the disease in pneumonia, and
 in other inflammatory affections with
 the principle disease seems to depend, to

Delirium Tremens.

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to be reproduced at a subsequent period when the brain and nerves regain their ordinary tranquility."

The pulse in different cases of the disease is exceedingly variable, in some instances it is hard, full and frequent, but much oftener, soft, full, and quick without strength or tension. The bowels torpid, and there is usually a loathing of food, but the thirst for cold drinks is always considerable, the tongue humid and covered with a white fur, and the skin retains its natural temperature and moisture.

Delirium Tremens in different cases varies much in respect to its duration and degree of violence sometimes some of the minor symptoms of the incipient stage of the disease will appear for a day or two and then pass off. At other times symptoms of a more serious nature will develop themselves and continue for five or six days, with delirium and annoying apparitions at night, whilst during the day, but little mental

Delirium Tremens

to be reported at a subsequent meeting
The brain and nerves require their ordinary
"serenity".

The pulses in different cases of Delirium
is exceedingly variable in some instances it
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Delirium Tremens in different cases varies
in such respects to the duration and
degree of violence sometimes even of the
various symptoms of the insipient stage
of the disease were absent for a day
or two and then broke off. At other times
symptoms of a more serious nature were
developed. Delirium and vomiting for
five or six days, with delirium and
sweating profuse at night, which
during the day, but little mental

Lithium Iodide

hallucination can be observed. In some cases the disease continues for weeks and upwards, and assumes the character of wild and ungovernable mania.

In some rare instances this disease has been known to terminate spontaneously, on the super-
vention of diarrhea or vomiting. But these discharges if profuse are apt to bring on a low and typhoid condition of the system, particularly in the broken down constitutions of old and confirmed topers. In full and robust habits the disease has not unfrequently terminated in fatal convulsions or apoplexy.

Pathology. - As regards the pathology of this disease a successive variety of opinions have been advanced & promulgated by different authors, and apparently with equal plausibility. It is not my intention, however, to trace upon these sheets the different opinions that have been entertained and palmed upon the credulous student as regards the nature and pathology of mania a Potu. Suffice it to know that the opinions of the ancients, like the reputation of their authors, flourished for a while in brilliant but fungus luxuriance,

The disease continues for weeks and afterwards
 assumes the character of colic and may terminate
 in death. In some cases
 the same case is repeated in the same
 horses to be treated as before. In the
 instance of diarrhoea a quantity of the
 tubercles of the lungs are apt to be
 and tubercular condition of the
 lungs in the lungs being
 and consequently the
 habits the disease has
 a fatal termination a
 Pathology - In regard to the pathology of the
 a suppurative variety of pneumonia has been
 a prominent and important outgrowth, but of
 parents with some exceptions. It is
 intention however to be upon them
 the different opinions that have been
 causes and factors upon the
 as regards the nature and pathology of
 a fine is to show that the
 the the repetition of this
 a subject in which it is

Delirium Tremens.

then faded and gave place to the more substantial and correct principles, deduced from experience and observation. Yet even in the present period of enlightened medical science a diversity of opinion exists amongst the faculty as regards the morbid physiology of this disease. But the weight of experience appears pretty generally to ascribe the primary & essential focus of irritation to the sensorium commune. And some of the best pathologists on the subject - say, "that the proximate cause of the disease is wholly in dependant of inflammation or vascular turgescence in this organ" The disease seems to consist in a morbid activity of the brain, from the sudden abstraction of an habitual stimulus, by which its excitability had been long upheld or blunted, or perhaps by breaking in upon the regular and habitual performance of its functions, produced a new action upon the nervous system, incompatible with the health of the individual; and giving rise to the peculiar & characteristic symptoms of this disease. Doctor Coats considers

Delirium Tremens

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it "as consisting in a heightened activity of the sensorium", from the generation as it would appear of an inordinate degree of vital activity in the brain; and similar views of the nature of the disease have been expressed by Dr Johnson and many other eminent British Physicians. Some Physicians assert with a degree of plausibility too: that the proximate cause of the disease is located in the stomach; and to support this doctrine its votaries refer to the appearance of inflammation found in the stomach on Post-mortem examination: but that this is a fallacious mode of reasoning will readily occur to everyone who is in the habit of frequently using the dissecting Knife, for he must have frequently observed that inflammation of the mucous coat of the stomach & intestines very often supervenes during the latter period of all violent diseases, and that the signs of inflammation - such as sanguineous engorgement &c. - are frequently produced, in articulo mortis. Again the remedies they propose for the cure of the

Delirium Tremens -

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disease, is a strong presumptive evidence that the disease is not of a gastric nature - for it would be preposterous to suppose that any enlightened Physician would prescribe emetics in a case of confirmed gastritis. Indeed I think it appears sufficiently established that the proximate irritation of Delirium Tremens has its seat in the brain.

Prognosis. *Mania a Potu* in a simple and uncomplicated form is not in general a very dangerous disease, especially when the constitution of the patient is not worn out and broken down by excess, and long continued habits of intemperance. When it is complicated with violent forms of fever, or visceral inflammation it mostly proves fatal. The disease is usually dangerous when it occurs in old toper, who have previously laboured under any chronic organic disease. A fatal termination of the disease may be predicted, when the delirium becomes constant, the pulse rapid and very small; the extremities cold and covered with perspiration, the pupils

Of Delirium Tremens

Delirium Tremens is a strong paroxysmal disease
 that the disease is not of a cerebral nature
 - for it involves the propertions to suffer
 that any enlightened physician would
 prescribe in cases in a case of any
 particular class. I think it appears
 sufficiently established that the
 immediate indication of delirium tremens
 has its seat in the brain.

Propriety shows a lot in a simple and
 uncomplex form of not in general a very
 dangerous disease, especially when the
 nature of the patient is not even out and
 other things to be feared, and any
 habits of intemperance. There is a
 great deal of violent fever of four or seven
 inflammation of nearly every part. The
 disease is usually dangerous when it
 is not taken into the paroxysmal
 under any other of any disease. I
 determination of the disease may be
 when the delirium becomes violent. The
 patient is not very small; the
 case one course with profusion.

Delirium Tremens -

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small and contracted, with subscleus tendi-
nus, and an agitated motion of the muscles
of the face. Coma, with sensorious respiration,
or convulsions is also a very unfavourable sign.
A tranquil sleep indicates a favourable ter-
mination of the disease.

Treatment. If the pathology that I have given
of this disease be correct, the proper remediate
management may be easily divined. It has
been stated above that the disease consisted
in a morbid activity of the sensorium com-
mune, then it is evident that ~~the~~ to blunt
or subdue this inordinate action of the
brain forms the most prominent & essential
indications of cure, and when it is recol-
lected that this unnatural cerebral ex-
citement is caused, not by the applica-
tion, but by the sudden abstraction ~~of the~~
of an accustomed stimulus we may safely
infer, that the best way to cure it, is to
supply a stimulus calculated to blunt and
exhaust the morbid excitability of the brain,
and for this purpose, opium presents claims
to the practitioner above all other remedies.

Delirium Tremens

small one contracted with about the same
 means, but an agitated motion of the muscles
 of the face, lower, with tremulous motions
 or convulsions is also a very important sign
 of the disease, which is attended by a
 vomiting of the bile.

Treatment of the disease. It is
 of this disease to correct the profuse
 necessary and may be easily done. It is
 low state of the disease consists
 in a marked attack of the disease, and
 more than it is evident that the
 in which this is one of the
 given from the great quantity of
 treatment of case, but when it is
 noted that this is one of the
 treatment is correct, and by the
 time, that in the second situation
 of an ordinary case, we may
 refer that the first case is
 supplied a moderate quantity of
 to treat the moderate quantity of the
 case for this purpose, which present
 to the physician when he is

Delirium Tremens.

11

of the Materia Medica. Opium should be given in this disease with a view to its soporific effect on the system, and for this purpose an enormous quantity is sometimes taken before the desired effect is produced. Dr Eberle recommends two grains of this narcotic to be given every hour (after free purgation) until sleep is produced. Although our principal reliance must be placed on opium in this disease, nevertheless there are other powerful remedies which should never be overlooked. The bowels should always be attended to, and when found in a constipated and loaded state they should be relieved by a purgative, previous to the administration of opium; and when we recollect that persons addicted to the long continued and intemperate use of ardent spirits generally have their bowels in a torpid condition, the necessity of paying attention to this subject will be readily perceived. Indeed the needless administration of opium, previous to paying proper attention to the state of

Delirium Tremens.

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The bowels, has in some instances caused dangerous determinations to the head, and produced coma instead of healthy sleep.

Bloodletting appears to be pretty generally condemned by the profession in this affection, yet cases of the disease may occur in which this remedy may be safely & efficaciously employed - for instance - a case of Delirium Tremens should occur in a robust plethoric constitution, after a single night's debauch, with symptoms of congestion of the brain, and in a person whose constitution is not yet broken down by repeated drunkenness, bloodletting would certainly be an appropriate and useful remedy. Cupping the temples and forehead, and blistering the back of the neck, has been recommended, when much vascular turgescence of the head exists, with furious delirium.

Emetics have been highly praised, by different authors, as a valuable remedy in this disease, and doubtless they may be proper when used as an auxiliary or preparatory measure to the exhibition of

① *Distinction between*

The former, has no real matter for consideration, dangerous determination to the best, and produced even instead of a really step. Distinguishing appears to be partly generally considered by the professor in this of - feature, not even of the disease may occur in which this sense of matter be left a step - occurred in fact - for instance a case of delirium tremens where it occurs as a usual feature, with symptoms of confusion of the brain, and in a person whose condition is not yet broken down by repeated attacks, the distinguishing would not only be an appropriate and useful remedy. In the simple and for heat, and during the heat of the fever, has been recommended, unless much violent or turbulence of the heat exists with furious delirium. Therefore there has high fever, & of - great extent, as a valuable remedy in this disease, and doubtless they may be proper when used as an auxiliary or prophylactic measure to the treatment of

Delirium Tremens.

13

opium, in patients possessing sufficient constitutional vigor to withstand their operations. Cold and tepid affusions also, have been advised in this disease. Dr Armstrong recommends two or three gallons of tepid water strongly impregnated with salt to be dashed over the whole body, and then immediately drying and rubbing the body with warm flannel; and having the patient put to bed, administering forty or fifty drops of laudanum in a little warm wine. The same author, also, speaks of the good effects of cold affusions in patients possessing much apparent vigor of constitution. He always recommends stimulants to be given immediately after words. Wine and other stimulants have been recommended in this disease, and no doubt when judiciously administered, have been productive of beneficial effects.

I forbear saying more on this disease until experience and observation, shall confirm or alter the views already set forth, which have been drawn from the different authors that I have read upon this subject.

Delirium Tremens

appears in patients suffering with
 delirium as a result of the
 fact that the patients are
 advised in this disease. The
 symptoms are two or three
 weeks before the patient
 is attacked over the
 immediate cause and
 body with some
 the patient but to
 state in the shape of
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An inaugural Dissertation

On the Pathology of Fever

Submitted to the inspection

Of the

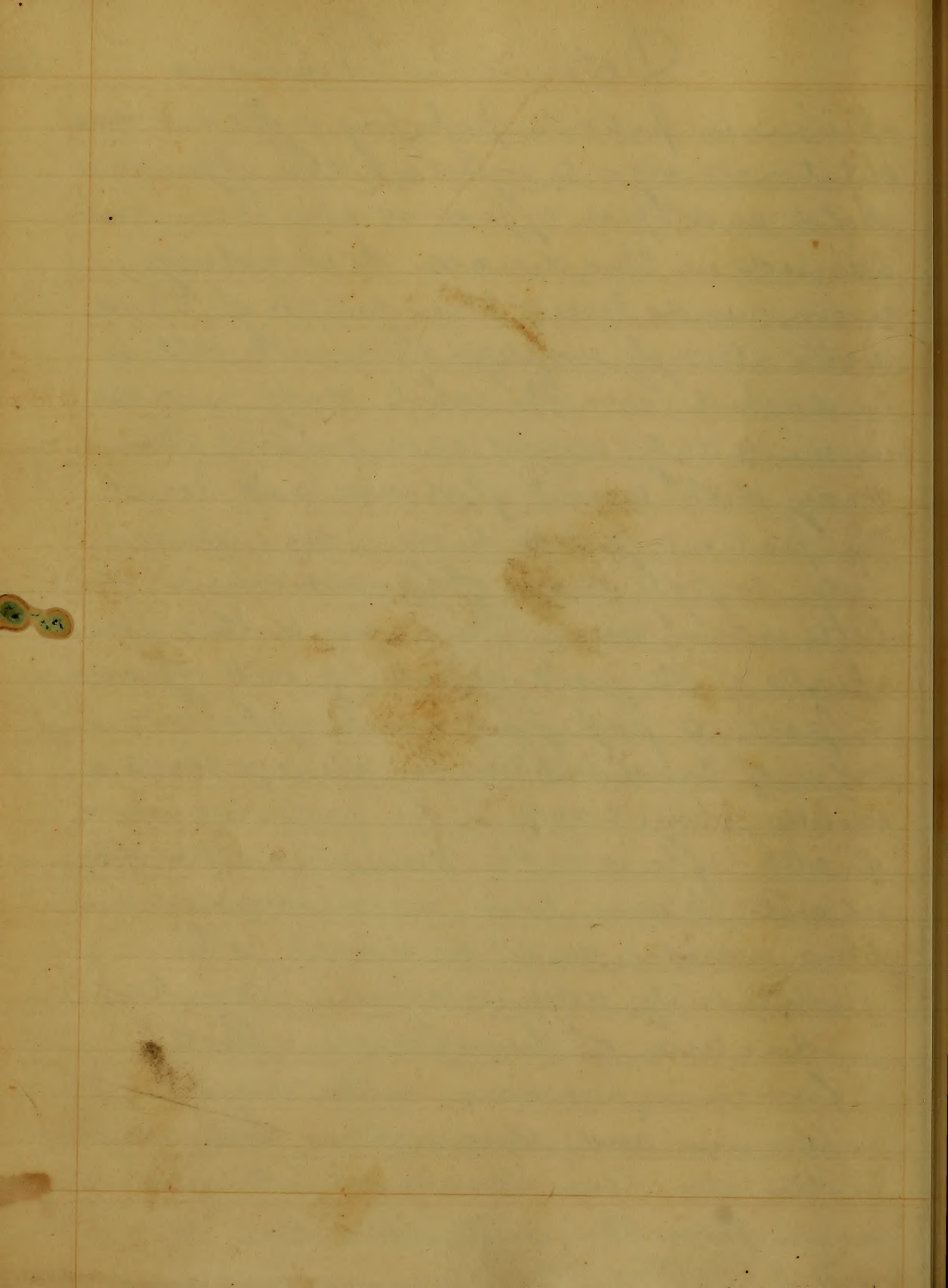
Provat. Augustus and Medical Faculty

Of the University of Maryland

For the degree of *Ph.D. in Medicine*

By R. M. M. M. M.

of Washington



An Inaugural Dissertation
On the Pathology of Fever

Submitted to the inspection

Of the

Provost, Trustees and Medical Faculty

Of the University of Maryland

For the degree of D^r in Medicine

By R I Doughty

Of Washington

March 1835

The University of Cambridge

In the Faculty of Divinity

presented to the University

of the

University of Cambridge

of the University of Cambridge

the degree of Doctor in Divinity

has been conferred

upon the following

In compliance with the usual forms, I have attempted, in my feeble and imperfect way, to give a very brief dissertation on the Pathology of Sexes.

It cannot I presume, be expected, that a Candidate, just preparing himself, for entering upon his professional Career, who has never had, much either of observation or experience to guide him in his researches, and who's views of Medical Science, have been taken almost exclusively, from the lips and writings of others, should give to the consideration of a subject, that investigation, which might lead to the discovery of any new truth, or settle upon a more permanent basis, any one position of doctrines already established.

Indeed it appears to me, that every thing necessary in writing an article of this nature, is soon accomplished by a simple statement of facts, and a close adherence to the sentiments and opinions of those, whom we have always been taught to consider, as our surest guides and most undeviating instructors.

The subject which I have selected for discussion, is as I am well aware, one of great magnitude and importance, and lest I should be accused of arrogance and presumption, in assuming to myself, a responsibility of so high an order, I beg leave to state,

The first part of the book is devoted to a general history of the world, from the beginning of time to the present day. It is written in a simple and plain style, and is intended for the use of the young and the ignorant. The author has endeavored to make it as interesting and useful as possible, and has given a full and accurate account of the most important events and persons of the world. The second part of the book is devoted to a history of the British Empire, from the reign of King Henry II to the present day. It is written in a more detailed and elegant style, and is intended for the use of the educated and the curious. The author has endeavored to make it as interesting and useful as possible, and has given a full and accurate account of the most important events and persons of the British Empire.

that after having attentively considered every topic, which presented itself to my notice within the pages of Medicine, I found none concerning which, I knew less, than that of the Pathology of Fever; accordingly I determined to take Pathology for my Theme, so that, by unremitting study, and constant meditation, I might convert, what was once a barren and unfruitful field, into a fair and fertile soil, and set to running, in the invisible channels of the mind, another stream from the copious and inexhaustible fountain of Knowledge.

If it shall be found, in the course of my dissertation that I have in any manner, called in question, the sentiments and opinions, of the Author, to whom I am principally indebted for my knowledge of the Subject, I hope it will not be imputed to me, as an arrogant assumption, of a prerogative which my years and abilities give me no title to command or of a vain and foolish desire, of making an untimely display, either of critical sagacity or ill-placed acclamation. If on still further examination, it be ascertained, that I have taken upon myself, the arduous responsibility of thinking for myself, rejecting the entire theories of some, and adopting, with exceptions the theories of others, I trust, that, it will not be considered, in any other light, than as ^{the result of} a firm conviction of my ~~own~~ ^{thought to be} ~~opinion~~ of what ~~is~~ ^{is} the real state of the Case, and as a manifestation of the love, which I would

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always cherish, for the Cause of Science and Truth.

Having said this much, by way of introduction, I now dismiss the subject, leaving it to the candour and generosity of my Professors, ~~who I am confident, will feel~~ ~~disposed~~ to make every allowance, for all the imperfections which the nature of the subject, would of consequence elicit, from so young and inexperienced a Writer.

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Pathology of Fever

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4.

In the long line of human maladies, there is no disease, which presents itself to the consideration of the Medical enquirer, of more importance, than Fever. And when we consider the vast accumulation of experience and observations, and the countless theories, which this subject, has elicited from the most eminent Pathologists, of every age, its paramount interest, will be apparent. Among the ancient Romans, the most enlightened people of their day, the custom was very prevalent, whenever an Epidemic Fever appeared, to supplicate the Gods, with fear and trembling, that they would avert from them, an evil, which to their imagination was more terrible even than death; and Hippocrates himself, in view of the importance, which he together with the rest of his contemporaries, entertained concerning the nature of this Malady, when speaking of diseases, as they rushed out of the box of Pandora, calls them, ^{all} indiscriminately by another name, than that of Fever.

« Post ignem aethera domo

Subductum Macies et nova febrium

Terris incubuit chaos »

If we are to look the authority of Van Swieten, upon this subject, that, "excepting those, who perish by violent deaths, and such as are extinguished, by more old age, almost all the rest of Man-kind die either of fevers, or of diseases

Complicated with Fever) then are we compelled to admit without further hesitation, that fever is not only paramount in its importance to every other disease, but is also, the only one, to which we need direct our attention, with the hope, either of advantage to ourselves, or of benefit to our fellow-creatures.

Although fever is a disease, of such vital importance, and although the attention, and investigation, of so many experienced and enlightened minds have been directed to the subject, yet is there no malady in the whole compass of medicine, concerning the nature of which, less is known, than that of the subject under consideration. "The human mind," says Dr. Ferrius "has been engaged with it, for near three-thousand years. Theories have risen and sunk again, in a continued and rapid series of succession, each has had its hour, to strut upon the stage, and its notorius to yield it justice, but the stream of time has hitherto overturned all these insubstantial, though often highly wrought fabrics." There is nothing, in my opinion more conclusive than this, of the obscurity of the subject.

The question which would naturally present itself in this place, is, what is our knowledge, in the present stage of science, concerning the nature of fever, or as we know more concerning this subject, than what was originally known? To this question Dr. Ferrius shall reply, he says there has probably, never been a theory or doctrine, promulgated

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which did not clear away some old rubbish, or bring to
fuller view, some of the relations of the phenomena, it pre-
sumed to elucidate. The dreams of speculation have vanished,
but the facts and correct principles, which were neces-
sarily mingled with them remain as so much valuable
treasure sored out of the wrecks of former systems."

To conclude in proportion as man-kind prog-
ress in knowledge and refinement, and consequently in prop-
tion as the field of observation becomes more extensive
and universal, just in that proportion, will the succeeding
labours of all future enquirers be crowned with success,
and if at the present day the Pathology of Fever, is still in
its infancy, yet is there a foundation laid, upon which gen-
erations yet to come, may rear a glorious superstructure and
realize in their splendid fabrics, what only existed before
in the vague and undefined imaginings of their precep-
tors.

Like many other things, which are at once obvious to the
senses and concerning the existence of which almost every
one can decide, fever does not admit of a strictly correct
and unobjectionable definition, since there is not a sin-
gle symptom which is invariably present, and which can
be regarded as absolutely present, essential to its existence.
With this view therefore of the great difficulty which
exists in giving a strictly unexceptionable scientific

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definition of fever, we should shall woe for the present
not all attempts at an inquisition of this kind, and enter
more immediately upon the principal points, which it shall
be our province to treat of.

Fever has been divided by Pathologists
into two kinds, according to their different modes of de-
velopment, viz. Idiopathic or general fever, and sympto-
matic, or fever resulting from some primary local affe-
ction.

Concerning the right meaning of these terms, Dr. Clarke it
appears to me, entertains very confused ideas, or else has
expressed himself in a very indefinite and unsatisfactory
manner. Thus in defining what is understood, by the
term Idiopathic, he says, "Those who admit the existence
of such fevers, suppose, that the remote febrile cause
produces a detestable impression on the sensitive extremities
of the part upon which it acts, which deranging function
after function, according to the connection of the organic
sympathies finally results in a state of general disease,
characterised by the ordinary phenomena of fever." This is
the Doctor's definition of Idiopathic fever, now let us
hear how he defines Symptomatic fever. "Many eminent
Pathologists," continues Dr. C. "maintain that no such
fevers can exist, but that all febrile excitement is
purely symptomatic, and of course essentially and wholly

2772

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1738.

dependent on a preestablished local irritation. According to these views, the direct influence of the remote Cause of fever is limited to the production of the primary local inflammation or irritations, the subsequent pyrexial phenomena being the result solely of this primary local affection, in other words the secondary and sympathetic excitement of the preestablished focus of irritation."

Now where I would ask, exists the distinction, between Idiosyncratic and Sympathetic fever, in these refinements, which Dr. Eberle has attempted to give us of these terms. What difference is there between, the morbid Cause, in the first inst: making a detritious impression on the sentient exteriority, of the part with which it comes in contact, and then by sympathy of the other organs with the one which has received the morbidic impression those organs themselves becoming affected, so as in the end to give rise to febrile phenomena, — and the morbidic Cause, in the second inst: establishing a local irritation, from whence by sympathy, all the febrile phenomena successively emanate. I must indeed confess my own inability to discover here the slightest shade of difference, whatever — it is palpable, brass as the open day light, that Dr. Eberle, in drawing this distinction, has merely employed different words to mean precisely the same thing.

4/17/72

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1759.

"He's not the man, that can divide,

A hair 'twixt South and South-west side."

Dr Eberle following up his mathematical definition of Idiopathic and Symptomatic fever, professes his belief in both notions, that is, he firmly believes, there are instances, in which fever takes its immediate rise, from some local irritation caused by the morbid impregnation which is made upon the nerves which communicate with that part, and that there are instances in which fever is propagated by sympathy from a reflected irritation of one of the sentient extremities, — in fact it is a settled conviction of his mind that there are two distinct kinds of fever produced by two very distinct modes of action of the remote Cause, that this remote Cause acts precisely alike in both cases, and that Idiopathic and Symptomatic fever are without the least shadow of a doubt nothing more than one, and the same thing. To prove the truth, of what I have just stated, I will only cite one instance more, in addition to the two quotations which I have given above. Page 16 — third paragraph of Dr Eberle's introductory remarks concerning the Pathology of Fever, he says, "It must in a case be admitted, that local irritation or local morbid action, invariably occurs as the initial morbid condition, whence the series of consequentia consecutiva arranged actions in the evolution of fever, have their origin."

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This admission is predicated in part, on the demonstrable position, that the local morbid excitement is not infrequently located, in a greater or less extent of the lining membranes of the blood-vessels themselves, &c. &c."

In this place the doctor is maintaining the Idiopathic nature of fever — yet what is farther from the expressed meaning of that term, than the word Local — in any admission, in the latter part of the quotation, proves that he confounds, Idiopathic with Symptomatic fever and all the arguments he has advanced in the whole course of his remarks, on the Pathology of Fever go to show that he advocates exclusively the Symptomatic nature of fever. ~~The best of all is, however, that the Doctor appears not to know it.~~

From what I have said, it will be seen that Dr. Clark, from what cause is not very apparent, has failed in giving a correct definition of what is understood by the term Idiopathic, and though he has explained in a manner somewhat more satisfactory, what is understood by the word Symptomatic, yet even on this point; I do not agree with him altogether as will be shown hereafter.

My Professor I hope, will not take me by the ears, for being so familiar in my expressions, concerning the remarks of a gentleman of such high reputation as Dr. Clark.

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11

If in any manner, I could have possibly avoided ^{myself} what
I have said, I would have done so, but so perplexed and
bothered was I by the indefinite and analogous meanings
which he attached, to the words Idiopathic and Symptomatic
that I was forced to speak out, and thus give vent to the con-
flict of my feelings. If however it shall be found, that
I am in the wrong in thus arraigning, the expressions of Dr
Eberle, and if it be true, ^{that} what he says, is in coincidence, with
the general acceptation of those terms, then do I most willingly
and with feelings of sincere regret, ask the gentlemen present
but that is all, for if the ideas, which Dr Eberle has expressed
concerning the meanings, of Idiopathic and Symptomatic fever
be the ideas entertained, by all who advocate these two doctrines
of fever, then I will say, that the distinction made between
them is a very foolish and absurd one, and exists nowhere
save in the names which they have given to them; if this be
the distinction, which is understood, and generally accepted, then
is it a stigma upon the name of Science, and should be expun-
ged immediately and forever from the pages of Medicine. But I
congratulate myself that such is not the case, that an entirely
different sense of the meanings, which are attached to these terms
prevails, and that there is no more resemblance between the
mode of action of the morbid cause, in Idiopathic fever and
the cause which gives rise to Symptomatic fever, than there
is between a cause which preserves the morbid character

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481 17

essentially in itself and a cause, which merely acts mechan-
ically.

Before giving my views of what I understand by the terms
Idiopathic and Symptomatic, I will merely remark without go-
ing at any length into the subject, that I think the doctrine
entertained by Braufois and his disciples, viz; that fever is
always symptomatic, and in every case dependant upon inflam-
-ation of the mucus membrane of the alimentary Canal, is not
only absurd and irrational in the extreme, but has also received
a very sound crushing at the hands of Dr Eberle. I will remark
again concerning the doctrine, entertained by Dr S. Smith, viz;
that all fevers are Idiopathic, and ^{that} fevers arising from local
inflammation, are not fevers, but inflammations; if it is not as
irrational as Braufois's Theory, is still far enough out of
the way, to be entitled to the epithet of Nonsense. Lastly
I will remark once more, that if Dr Eberle's Theory of fever is
not coincident with one or both, or neither of these, I would
not hesitate to say, that he knows not what it is himself.

The views which I shall now take of Idiopa-
thic and Symptomatic Fever, if they should not happen to be
those which are generally understood, as the real significations
of these terms, are nevertheless such as I consider to be the
most rational, and which I shall maintain, untill better
informed.

Idiopathic Fever, I would define to be a fever develop'd

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and sustained by certain morbid causes, (which causes are them-
selves essentially poisonous and entirely differing from mere
mechanical causes) these causes make a deleterious impression primar-
ily and essentially upon the Nervous System, and then by the power-
ful influence, which the Nervous System exerts over the other
parts of the body, by its diseased and unhealthy conduction the
other parts become involved also, that is, it imparts a dele-
terious impression to the parts with which it comes in contact
in the same manner, that the morbid Cause itself in the
first inst. affected the Nervous System.

From this definition, it will be seen at a single
glance, that Idiopathic Fever is widely distinct in the
modus operandi of its Cause and in the Cause itself from
Symptomatic Fever, the Cause in the one case, is a true morbid
Cause, a specific poison acting directly upon the Nervous System
and developing the disease essentially in that system itself
and though it is true, the Blood Vessels, Stomach, Liver and
many other organs seem to be most prominently deranged in
many instances, yet are these affections no more than conseque-
nces of the deleterious impression, which is made upon these
organs by the morbid influence as it proceeds along the course
of the Nerves, ~~to develop the phenomena of over the whole~~
body to develop the phenomena of fever. In no instance
where there is a morbid agent producing fever, can local
inflammation, wherever it may reside, act in place of that morbid

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lie agent, it still being present, for I hold it as incontrovertible, that inflammation, as just mentioned above, is in such cases, always the consequence of the diseased Nervous System and near a cause of Fever. I can always easily conceive however, that after the morbid cause has been removed from the Nervous System, the inflammation which may have supervened during the development of the fever, may still act as a cause in keeping up the excitement, and in preventing the abatement of the febrile phenomena. It will be easy ~~now~~ to perceive, the views which I ~~now~~ entertain concerning the nature of the various Intermittents, Remittents, Yellow Fever, Typhus Fever all the Contagions, and indeed every other description of fever which owes its origin to causes, which possess an essential morbid nature, they are all Dacipathic, the disease resides primarily and essentially in the Nervous System, and in no case whatever are either of these fevers produced by local inflammation, but on the contrary are always independent of it.

It is hardly necessary for me, I presume to enter into here into an argument, to prove that the views, which I have taken, concerning the nature of Dacipathic Fever, ^{are correct,} or to maintain by any array of facts, the position which I have adopted, that local inflammation in Dacipathic Fever is always the consequence and near the cause of the disease; if indeed I were even willing, the short time allotted me for

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187 15.

the performance of the task would be much too short
to enable me to do it justice. In conclusion however of this
subject, I will remark, that it is much easier, and in a very
less more natural for the morbid cause to act directly through
the medium of the nervous system in producing fear, than
by producing inflammation or irritation in some particular
organ or structure, and thence by irradiation, that irritation
or inflammation to produce the disease. The difference be-
tween these two modes of operation, is, that the one is direct
and the other indirect, and why, I would ask should
nature go out of a straight path to find a crooked one
this surely, is contrary to our every day knowledge of
her. To have morbid causes, to act by sympathy or first
to produce local inflammation or irritation and thence
that inflammation or irritation to produce fear is indeed
to overlook the very nature of the cause, and to have
it to act as a mere mechanical cause when in truth
it is something more, it is essentially and to all intents
and purposes a poison. I say to have a fear ^{to be} thus de-
veloped, is a fever arising from inflammation alone, and
not from the morbid cause, which would be absurd
in the extreme. I hope ~~this~~, I have given a satisfactory
explanation of one of the many reasons, which I hope
why I maintain, that all fevers arising, from morbid
causes are Idiosyncratic. After all that has been said

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189 16.

Concerning the nature of Idiopathic Fever, it will not be difficult to determine what are the sentiments which I entertain concerning the nature of symptomatic fever. The causes which operate in producing these two very distinct varieties of fever act generally and locally generally in Idiopathic and locally in symptomatic fever, now as I have shown, that those causes only, which are morbid in their nature, are ~~alone~~^{alone} capable of giving rise to general fevers, the causes which produce local inflammation only, must be of a very different nature. What then would be the natural inquiry are these causes? the answer is plain and obvious, they are nothing more or less, than simple mechanical agents, capable of exerting no other influence, in producing fever, than their power of acting mechanically.

Symptomatic fever, I would define to be, a fever arising from local irritation or inflammation produced either internally or externally by the action of some mechanical cause. I admit therefore, in common with Dr. Clarke, and all others, who advocate, the doctrine of symptomatic fever, that it does arise immediately from some local derangement, the point in which we differ is, that, while Clarke maintains, that, morbid causes do give rise to this form of fever, I maintain, that, they do not, but on the contrary, mechanical agents, only do operate

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in producing it.

What then is the difference of which we have all this while been speaking, between Idiopathic and Symptomatic Lesions. In the first inst: the fever is general, because the cause is a morbidic Cause and acts generally, in the second inst: it has a local origin, because the agent which produces it acts mechanically and of course locally.

The indications of treatment pointed out in these two cases are obvious. In the first, attention should be directed primarily to the existing morbidic agent, and afterward to the local arrangements, in the second, the local arrangement, which gives origin to the fever, is only to be treated, upon the cure of which the termination of the fever depends. The treatment of Idiopathic Lesions, is the peculiar province of the Medical Practitioner, the treatment of Symptomatic Lesions, belongs almost exclusively to the Surgeon.

Being now defined, what I understand, by the terms Idiopathic and Symptomatic fever, and specified the causes, which operate in producing them, and as this part of the subject of Pathology was the one which I had principally in view when I first engaged in writing this dissertation, and likewise as the thread of my discourse has insensibly spun itself out, to a length much longer than what I originally intended, I hope, if I take the liberty of cutting it short here, and of saying nothing more upon the subject, it will not be

considered as a sham action, but that my will to perform, will
be taken for the deed, and that the sample which I have
given will be considered quite sufficient, without ~~any more~~
to ~~the~~ ^{the} necessity of ^{my} further exposing my ignorance or of wasting
more paper, by my unceasing and futile remarks — —

Finis
~~~~~~~~~

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An

Inaugural Dissertation

Submitted to the Examination of the

Board, Professors & Trustees

of the

University of Maryland

for the degree

of

Doctor of Medicine

by

A. Minor of Virginia

=

1835

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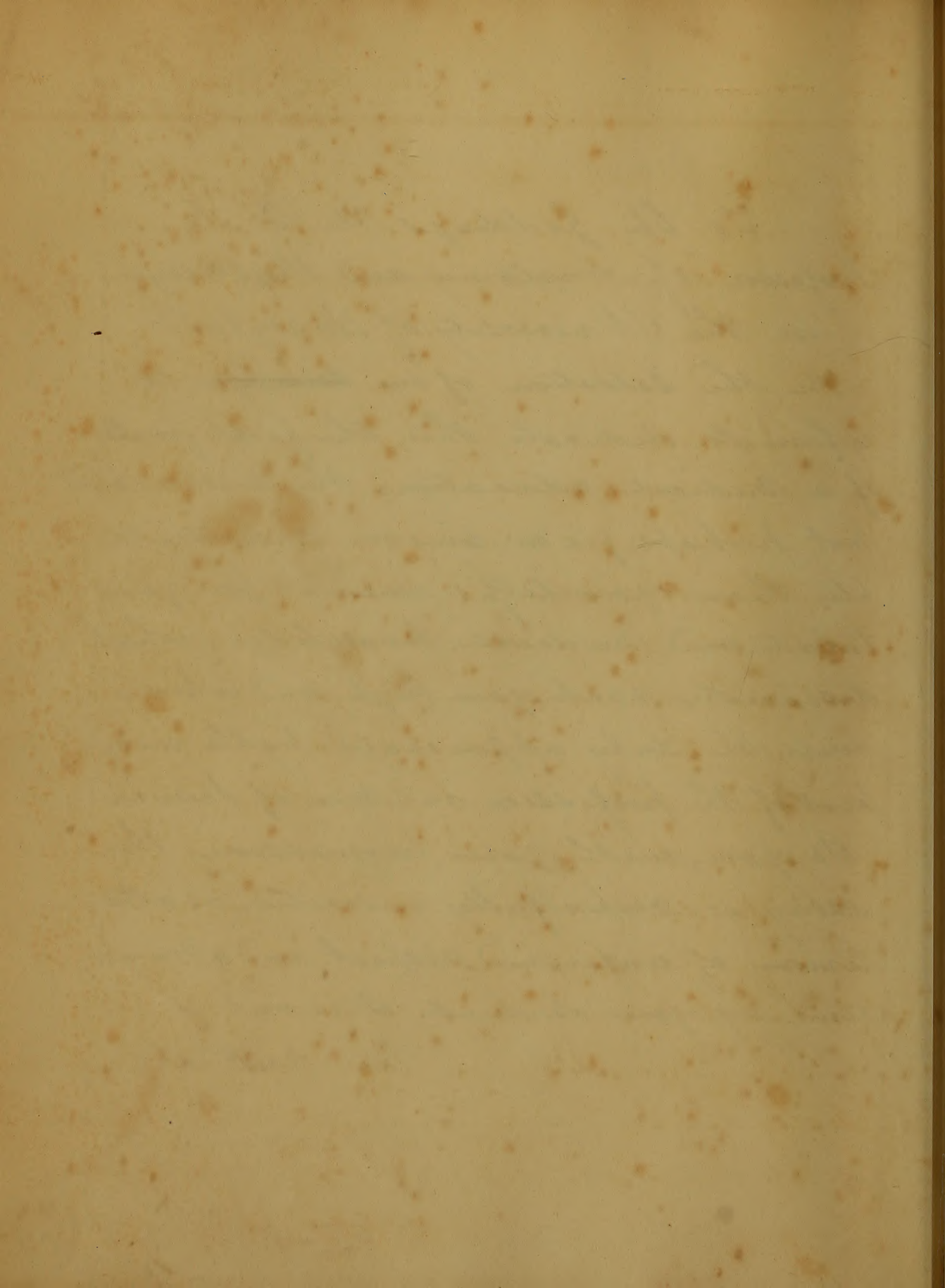
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To Eli Geddings M.D.  
Professor of Anatomy and Physiology  
in the University of Maryland.  
In the selection of one ~~to whom~~ to  
whom to dedicate this, the first fruit  
of a Medical education, the Author could  
not, perhaps, fix on any one more suita-  
ble than yourself; eminent for your  
talents and Medical knowledge, which  
deserv'dly rank you high and which  
will be duly appreciated by the mem-  
bers of the profession and men of Science.

To you, with your permission, this  
essay is respectfully inscribed, as a tes-  
timony of unfeigned respect and admira-  
tion by your obedient servant

The Author





1.

Science can boast of no discovery of more importance, or which has produced a more beneficial revolution in medicine than that of the illustrious Harvey.

The circulation of the blood is so generally known at the present day, the proofs on which it rests are so obvious and familiar to us, that we are struck with astonishment that it should have so long escaped observation. Mankind, however, from the beginning of the world, were accustomed to observe the fall of an apple, but it required the sublime genius of a Newton to deduce from that simple <sup>fact</sup> the theory of universal gravitation; and notwithstanding the many approaches which physiologists made to the discovery of the circulation, it was not until so late as the seventeenth century, that this important fact was ascertained and promulgated.

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2.

At an early age Galen ascertained the use of the valves at the two orifices of the ventricles, that the arteries contained blood, and that they were filled by the action of the heart: but his discoveries rested here

After the time of Galen, it was not until the sixteenth century that a single ray of light was thrown upon the secret of the circulation. At this ~~early~~ period Servetus made considerable advances in the sciences, and was the first to indicate the passage of the blood through the lungs, but did not live to confirm or extend his discovery: this was done by succeeding Anatomists.

The general circulation, was, however, not even suspected. Men's minds were still enslaved by errors, which having prevailed so many centuries, had acquired the sanction which time





and authority bestow on opinions however absurd.

When the illustrious Harvey had the courage to break the fetters which authority had imposed upon reason, and to enter into an examination of opinions which had been long consecrated as infallible truths, the result of his investigation was the discovery of the circulation of the blood, a discovery which he not only made but perfected.

Perfect as was the discovery of Harvey, so far at least as respects the route of the circulation, he failed in ascertaining the forces by which it was effected. The heart is admitted by all to be the principal agent in the circulation, but there are also other agents concerned, upon which physiologists cannot so readily agree.

The blood of the left auricle is thrown





into the left ventricle by the contraction of its muscular fibres: this is very evident and satisfactory. The blood of the left ventricle is thrown into the arteries by the contraction of its muscular fibres and produces that pulsation which is familiar to every one. Harvey & many succeeding physiologists supposed that the impulse received by the blood from the left ventricle was sufficient to move this fluid not only through the large arteries, but also through the capillaries, and even through the veins into the right auricle, so that the contraction of the left ventricle is, according to them, the cause of the circulation in its long course from the left ventricle to the right auricle. But whatever may be the power of the heart, it has been "incontestably proved" says Bichat "that when the blood has arrived in the general capillary system, it is

...the left ventricle of the heart...  
...the muscular fibers...  
...the blood of the...  
...the ventricle is thrown into the aorta...  
...the contraction of the muscular fibers...  
...and produces that pulsation which is...  
...familiar to every one. The only...  
...many times as long as the...  
...and that the muscular fibers...  
...blood from the left ventricle...  
...is sent to some of the...  
...the large arteries, but also through the...  
...arteries and veins, though the...  
...into the right ventricle, so that the...  
...the right of the left ventricle...  
...is sent to them, the...  
...later in its course...  
...ventricle to the right...  
...arteries may be...  
...it has been...  
...that when the...  
...the...  
...the...



absolutely beyond the influence of the heart; still less has the heart any influence in the motion of the blood through the venous system". The phenomenon of blushing, of inflammation, of haemorrhage, and want of pulsation in this system, shew that the action of these vessels is independent of that of the heart.

Whether or not the motion of the blood through the arterias is influenced by any action of these vessels is a point by no means settled. It was the opinion of Bichat that the heart was the only power that puts the blood of the arterias in motion & that these vessels are entirely passive. But it is the opinion of distinguished anatomists, with whom I accord, that the blood is not circulated by the impulse received from the heart alone, but that its progress is assisted and maintained by a contractile power in





the arteries

Some anatomists, not being able to discover nerves going to the middle coat of the arteries, denied its muscularity: and from being unable to excite their irritability by mechanical or chemical stimuli, believed that no inherent contractile power resided in them, that their action depended upon elasticity, and not upon their muscularity. That this is erroneous is proved by the fact that the arteries after death are always found empty and in a relaxed state, which should not be the case if their contraction depended entirely upon their elasticity; for if it did, they should when empty, always be in a state of contraction.

That the arteries possess a local and independent action is evident in certain diseases: thus we see an increased determination of blood to the head in apoplexy: in paralysis the pulsation is stronger in the healthy

The article

above mentioned, not being all the  
business done during the year  
of the article, several hundred  
copies were printed in the  
month of March, and a number  
of them were distributed in  
the month of April, and out of  
the amount of the fact that  
there are many of the fact that  
of a more extensive nature, which  
not be the case of the contract  
of the nature of the contract  
it is a state of contract  
that the contract is a contract  
the contract is a contract  
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of the nature of the contract



than in the paralytic limb. When also a limb is torn off by any sudden force, the artery is frequently so deadened that no bleeding ensues. Now if the blood was circulated by the heart alone this could not happen, but - the patient would bleed to death.

It would therefore seem probable, that the arteries possessed the power of contractility to a certain extent, and that the blood sent to the capillaries by the contraction of the left ventricle, is assisted in its passage by the action of these vessels. Arrived at the capillaries all evidence of the influence of the heart upon the motion of the blood appears lost, and it seems to be propelled by the action of these vessels alone into the veins.

After the blood has arrived in the veins, much difference of opinion exists, as to the power by which it is sent to the heart. The following are those generally believed to be concerned in the production of this effect. *VIZ:*





1<sup>st</sup> The action of the capillaries.

2<sup>nd</sup> muscular action.

3<sup>rd</sup> Respiration and atmospheric pressure.

4<sup>th</sup> Dilatation of the right auricle.

The capillary system, by its insensible contractility, pours continually into the veins a certain quantity of blood. This fluid, added to that already there, communicates a general motion to it; if the veins were as strong as the arteries, and did not dilate when the blood entered them, they would transmit the surplus to the heart, but as the veins are very dilatatable, the impulse received from the capillaries would only distend these vessels: indeed the impulse communicated to the blood exceeds so little the resistance, that the slightest obstacle deranges its motion, hence the necessity of other powers to assist it.

One of the most important of these is muscular action. In contracting the muscles press upon the veins and the blood is pushed towards the

1st The action of the capillaries

2nd Muscular action

3rd Respiration and other functions

4th The relation of the right ventricle

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two three vessels, indeed the impulses are

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distances, that the slightest obstacle

is sufficient, however the necessity of other

means to assist it.

The of the most important of these is the

action of the contracting the muscular fibres

the veins and the blood is pushed forward



heart, its course in a retrograde direction being prevented by valves with which all the veins are furnished. As there are superficial veins over which muscular action can have little influence, and as these anastomose very freely with the deep seated ones, it might be supposed that the blood would be forced from the deep-seated ~~ones~~ veins into the superficial ones, and accordingly we find, that very often in persons engaged in laborious occupations the frequent pressure of the muscles on the deep seated veins, force the blood into the superficial ones, and produce a varicose state of the vessels. This is ~~prevented~~ remedied by external pressure, by bandages &c. but nature has not been negligent in providing means to guard against so unpleasant an occurrence.

The chest is a complete cavity, divided into three separate chambers, two of which are occupied by the lungs,





and the third by the heart. The only communication with these, is either through the trachea into the lungs, or through the veins into the heart. When the ribs are elevated, as in the effort for inspiration, the whole cavity of the chest is enlarged, and the air remaining in it is rarefied. The passage through the arteria is prevented by valves. It is evident that equilibrium can be restored only in two ways: 1<sup>st</sup> by the air rushing through the wind-pipe into the lungs, or 2<sup>nd</sup> by the blood flowing through the veins into the heart. As the air is constantly passing on the superficial veins, as soon as the air in the lungs is rarefied the atmospheric pressure on the veins will force the blood towards the heart. It cannot be pressed into the deep-seated veins on account of the pressure of the muscles, nor can it retrograde in consequence of its valves, for when pressure is removed from any one part the blood will flow towards that part, as is illustrated in the





familiar instance of cupping.

Thus then the air in the lungs, which would be resorbed when the ribs are elevated, has its equilibrium restored: 1<sup>st</sup>. by the air rushing through the trachea into the lungs; 2<sup>nd</sup>. by the flow of the blood through the veins into the heart: That this latter takes place is confirmed by Mr Cooper, who observed, in performing the operation of tying up the carotid artery, that the jugular vein was distended at every expiration and spread itself over the artery, while it was rapidly emptied during inspiration.

That muscular action and atmospheric pressure are both important moving powers in the circulation of the blood through the veins is further proved, if further proof be necessary, by the fact that in the brain when neither of these forces can act, that organ being completely enclosed in a bony case, another provision is necessary, and this is found in the





influence of gravitation. It is well known to every one, that if a person be suspended with his head downwards, the blood will not flow through the veins into the heart; but that the person will die of accumulation of blood in the brain, the blood sent into it by the arteris not being returned by the veins, except when influenced by the action of gravitation.

So great, however is the influence which respiration exercises, that while inspiration assists, expiration almost counter balances the effects of gravitation. It has been observed that the rise and fall of the brain, caused by the filling and emptying of its vessels, is synchronous with respiration, not with the action of the heart. The brain rising during expiration & falling during inspiration.

Dilatation of the heart. The cavities of the heart are not entirely passive during dilatation. "If you attempt," says





Richardson, "to check the diastole of the heart; this organ resists the hand which compresses it; and its cavities appear endowed with a power which the Galen termed pulsive; in virtue of which they dilate to receive the blood, and not because they receive it."

In vain some physiologists have contended that the heart is dilated and does not dilate itself, and that this dilatation is absolutely passive; the dilatation of the heart is a true effort, an active movement which manifests itself even in a heart torn from a living animal, although it does not contain any blood.

We are not prepared to show by what property or in what manner the right auricle expands to receive, or rather invite, the flow of blood into its cavity, but that it does expand, and that with some force is an established fact. It is true that we know not the power by which this is

Richardson's "The History of the  
West India Company" is a  
comprehensive and interesting  
work, with a large volume of  
documents, letters, and reports.  
It is a valuable source of  
information on the early  
history of the West Indies  
and the Caribbean. The  
author's style is clear and  
concise, and the work is  
well organized and easy to  
read. It is a must-read for  
anyone interested in the  
history of the Americas.



effected - nor of any property of muscles by which they expand - but it is equally true that we are not acquainted with the courses of the fibres of that muscle: ~~it~~ it may be possible that there is some arrangement, by which the effect we speak of may be produced on their contracting; the contraction of the ventricles we believe also assists the expansion of the auricle: but above all it is seen to expand.

Such then are the forces by which the blood is circulated. The action of the right auricle forces the blood into the right ventricle, the contraction of this latter sac propels the blood into the capillary vessels of the lungs, where, aided by the action of these vessels, the contraction of the chest, and the dilatation of the left auricle, the blood flows into the left auricle: its contraction throws the blood into the left ventricle, and the contraction of this latter organ

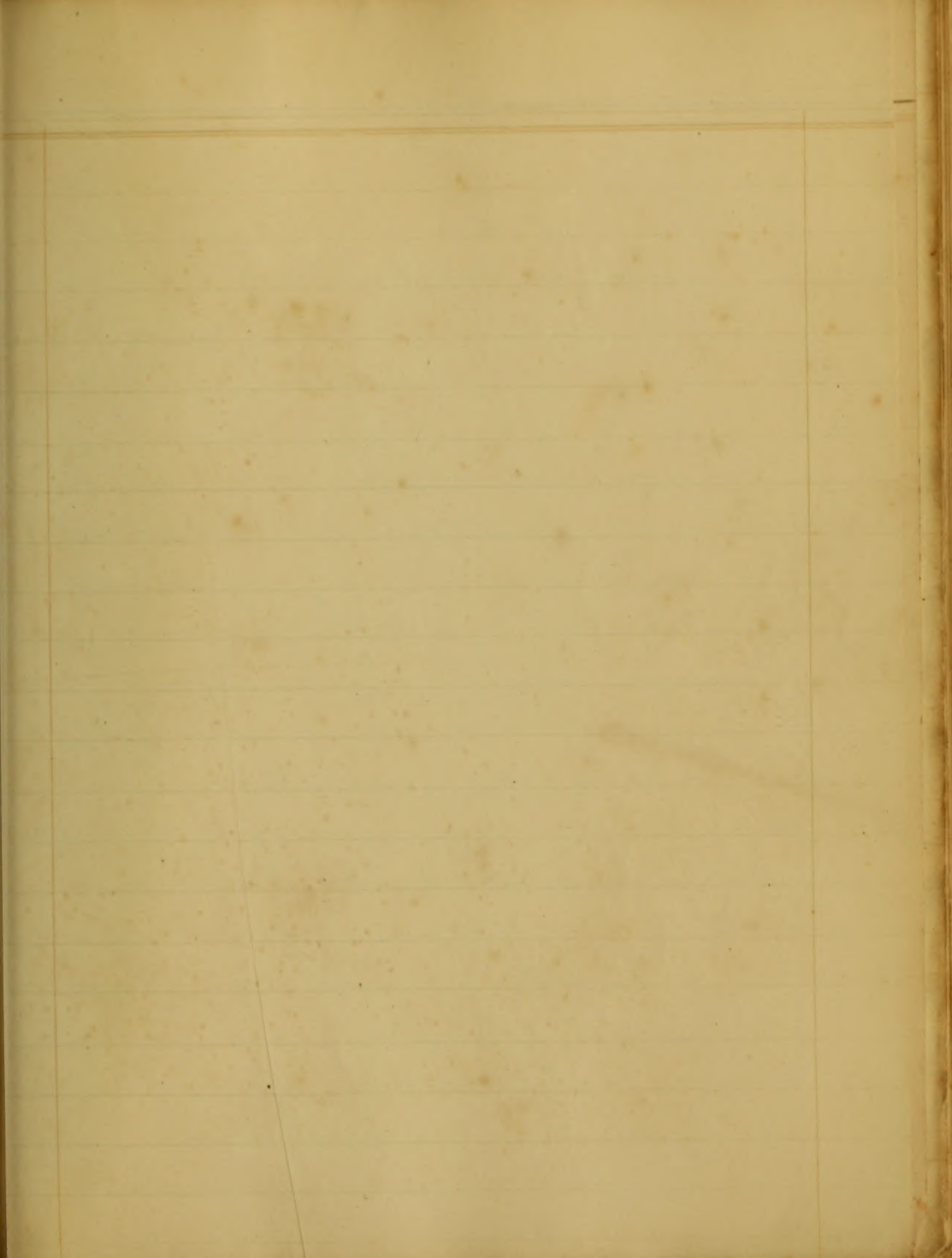
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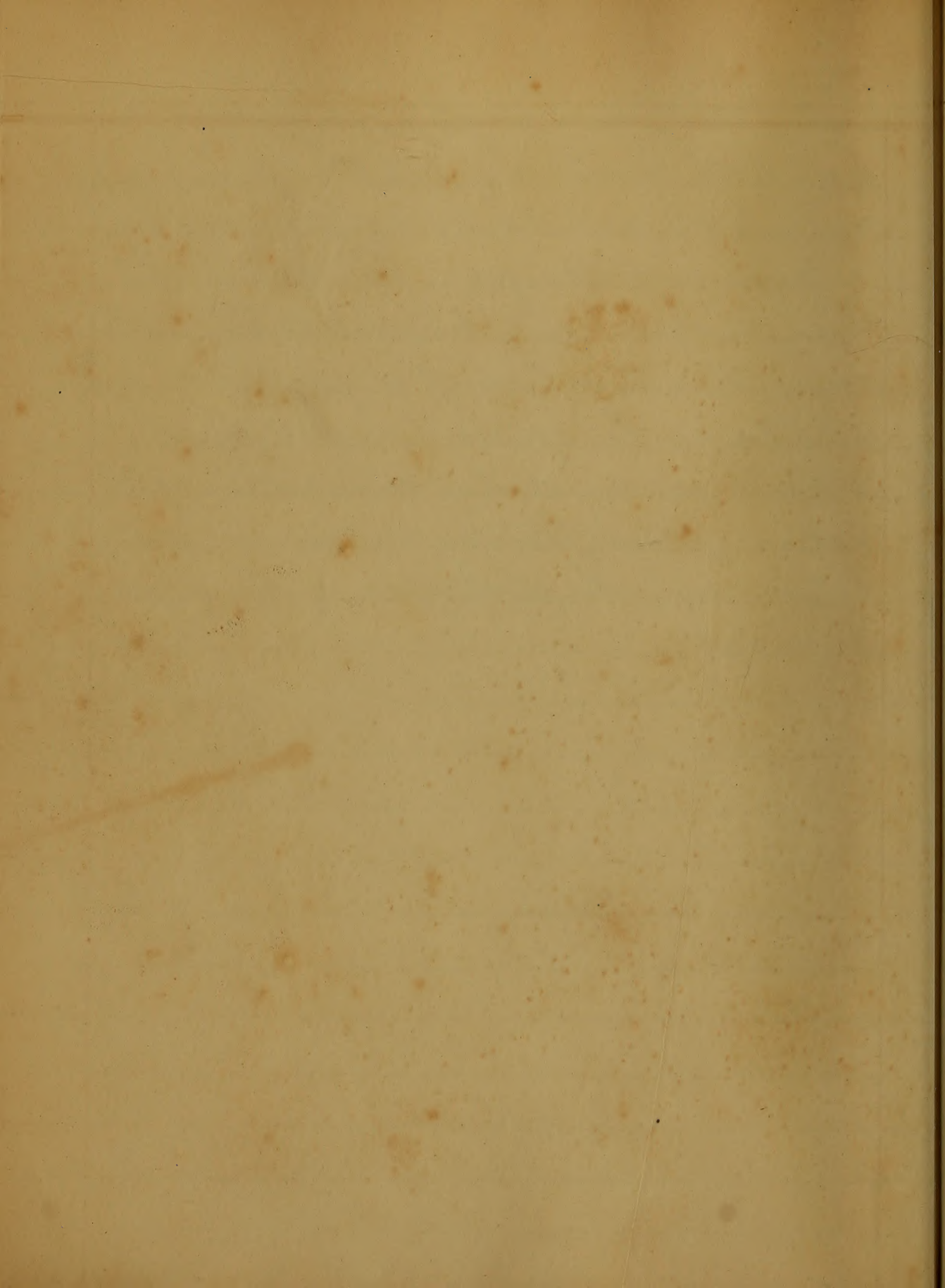


propels the blood through the large arteries into the capillaries. here it receives a new impulse from the action of these vessels, and it passes <sup>into</sup> through the veins through which it is urged to the right auricle by the combined effects of the vis a tergo, muscular contraction respiration, atmospheric pressure, gravitation and the dilatation of the right auricle .

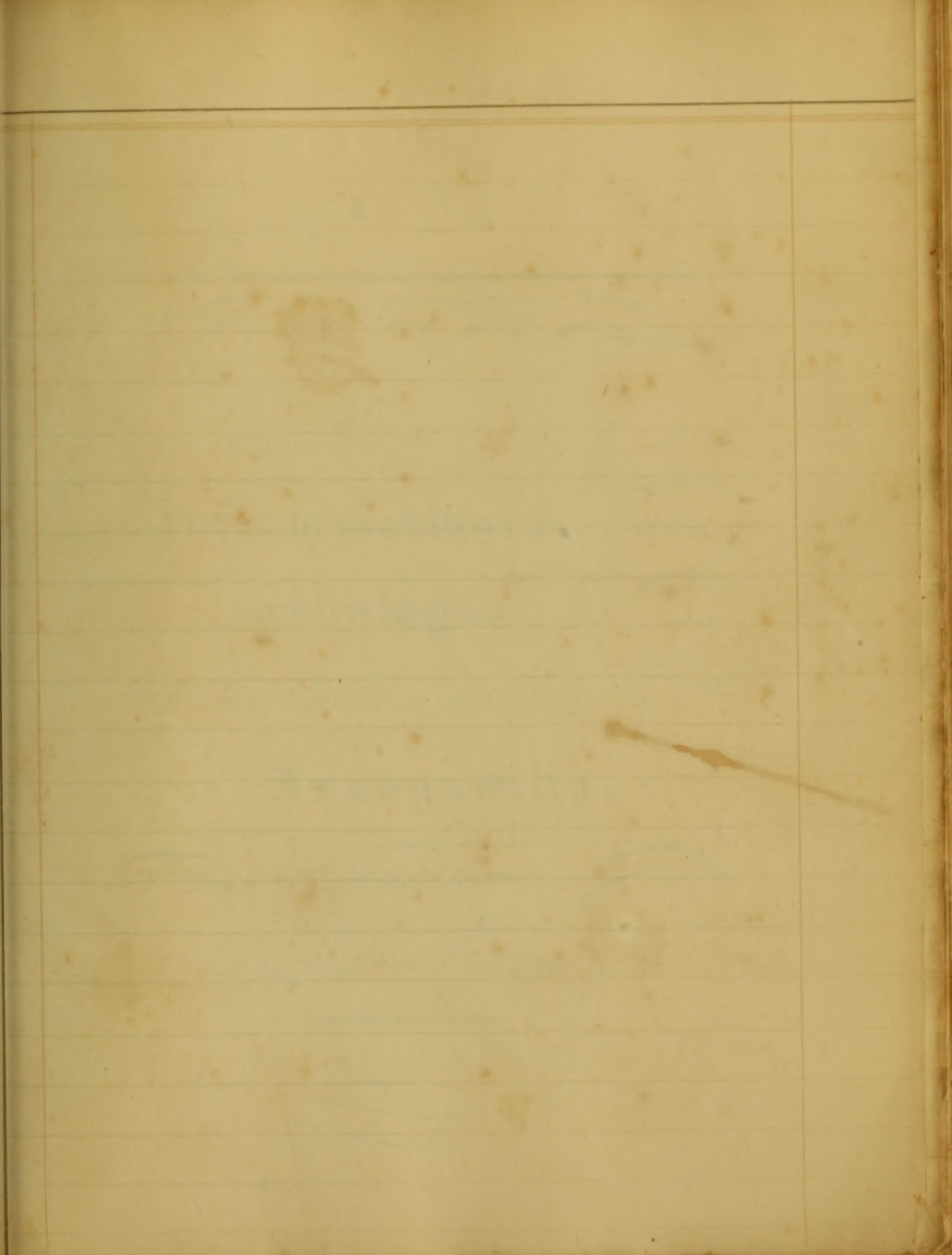
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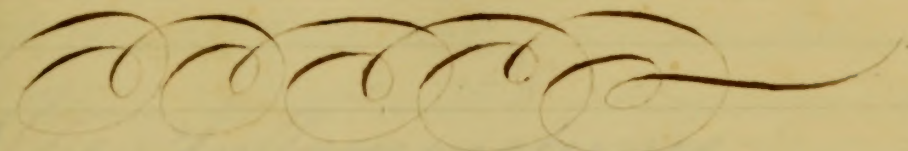






13

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De  
Inflammationis  
Pathologia,

*Dissertatio Medica*

Inauguralis;

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Auctore

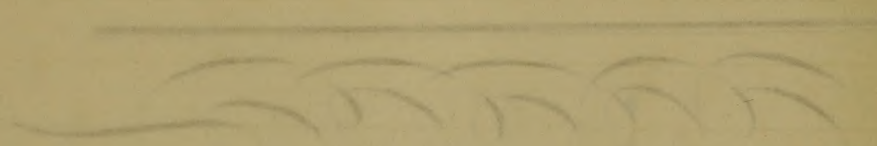
*Guilielmo Jones.*

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1835.

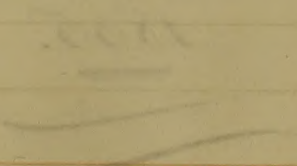
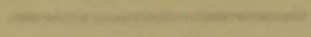
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innotationis  
pathologia  
Gustavus. Adolfus  
Emanuelis

Victore  
Friedrich. J. J. J.





De Inflammationis  
Pathologia,  
Dissertatio Medica Inauguralis.

---

Omni bus ferè casibus chirurgi-  
cis intervenit inflammatio quaedam, si-  
ve causa sit, sive symptoma, sive com-  
plicatio, sive etiam sanandi modus.

Prius autem videtur, aliquid  
breviter dicendum de constitutione di-  
versâ diversarum corporis partium,  
quam de hac se tractare incipiamus.

Cuique humani corporis partè  
est substantia sua, e cellulis quibus-  
dam, vel nervis, vel etiam venis con-  
texta, quarum unaquæque, suâ

quasi

The University of  
the State of New York  
Department of the State

---

In witness whereof, I have hereunto set my hand and the seal of the Department of the State, at Albany, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.



Quasi veste est circumdata. Salis  
plane, plerumque, carnere est arterias et  
venas, et fibras quasdam, tanquam ca-  
pillas, maximâ copiâ abundantes. Sa-  
lis est substantia cutis, musculorum.

Tenae capillariae, ubicunque mag-  
na invenitur earum copia, praeter mu-  
nus nutriendi, alio funguntur munere,  
cujus exemplum videre possumus in  
membranis serosis, in quibus, fit, ut  
plurimum, exhalatio quaedam.

De numeribus cuique corporis  
parti propriis, e memoriâ non amittendum  
est; nam quo major sit numerus vena-  
rum, eò gravior ac frequentior est in-  
flammatiô.

Quod ad vitæ functiones perti-  
net, constat alios alio modo partes existere;  
atque ita constitutio cellularis toto ordo  
distat a mucosâ, id quod plane oritur  
a diversâ cuiusque partis naturâ quam  
antè notavimus. Quae cum ita sint,  
facillimum est intellectu, quid sit in-

flammatiô





*Inflammatio.*

Partem aliquam inflammari dicimus, si quando sit rubra, dolore affecta, collida, ac tensa; quae symptomata saepissime quidem, at non semper, comitantur inflammationem.

Ut huius morbi natura magis accuratè percipi possit, necesse est de eo breviter disseramus, quomodo in singulis, de quibus supra diximus, systematis, comparere solet, sive in gradu simplici, sive in maxime complicato.

Haud ignotum est, inflammationem, si cutem afficiat, per omnes gradus posse progredi. Rubor cutis ex levi irritatione, quum pars aliqua sit propior ad ianem, est initium inflammationis; etiam tum pars ea acutius sentire videtur. Antè hanc mutationem, alia symptomata nunquam comparere solent.

Si conferimus omnia exempla inflammationis, in quibus vires quae





vitam sustinent magis strenuae semper  
 gradunt, illatio plane sequi videbitur,  
 harum virium accessione imprimis  
 esse causam huius morbi. Sensus qui  
 ita augetur, efficit ut affluat sanguis  
 ad partem inflammata, et inde effusa-  
 tur in vascula aliena; id quod compa-  
 ret in membranis serosis.

Ea est effusio sanguinis, quae  
 inflammationem gravissimam comi-  
 tari semper videtur, ut non amplius  
 vascula rubra cernere possimus, sed  
 tantum maculas, alias alia magnitu-  
 dine, ut in pulmone siquanda Peripneu-  
 monia afficitur.

Si magis augetur inflamma-  
 tio, calor ferè sentiri coepit in parte  
 inflammata, qui tamen intensior vero  
 ut plurimum videtur; namque indicio  
 est thermometer, quod temperaturam  
 naturalem superat non amplius duobus,  
 vel ad summum tribus gradibus.

Calor autem plus minus senti-





5  
tur, non solum in inflammationibus,  
verum etiam quocumque vires ad vitam  
necessariae, ullâ aliâ de causâ auferantur.  
Sed de hoc symptomate in praesentiâ  
differere non est in animo.

In inflammatione maximè  
auctâ, ad alia symptomata accedit quo-  
que febris quaedam, quae semper comi-  
tatur excitationes maiores, et quae an-  
tecedit interdum, interdum sequitur  
accessionem inflammationis. Haec  
febris tamen distat omnino a febribus  
idiopathicis.

Tumor aliquis etiam saepissimè  
comitatur inflammationem, cuius mag-  
nitude pendet a quantitate sanguinis  
qui affluit ad partem affectam.

Quae sunt res praecipuae, ob  
quas mutatur natura inflammationis,  
imprimis, morbus cum quo coniuncta  
sit, deinde pars corporis quam afficiat.

Saepe coniungitur inflammatio  
cum affectibus aliis tam gravibus ut

morbum

The first section in the manuscript  
 is devoted to the general principles  
 of the subject, and is written in  
 a clear and concise manner.  
 The second section is devoted to  
 the history of the subject, and  
 is written in a more detailed  
 and interesting manner.  
 The third section is devoted to  
 the practical application of the  
 principles, and is written in a  
 clear and concise manner.  
 The fourth section is devoted to  
 the conclusions of the author, and  
 is written in a clear and concise  
 manner.



morbum primitivum celent; atque ita  
 conjungi saepe videtur cum adynamia,  
 sed necesse est haud raro in Peripneu-  
 monia putrida, et in febris puerperis,  
 in quibus quoque nonnunquam compa-  
 ret putredo, et in phlegmona quam sae-  
 pe sequitur mortificatio.

Saepe etiam complicari solet cum  
 inflammatione termina intestinalia, id  
 quod plane videre est in omnibus noso-  
 comis. In termina vero imprimis  
 oportet ut distinguatur id quod propri-  
 um est hepatis ab eo quod pertinet ad  
 ventriculum.

Aliae partes corporis plus mi-  
 nus afficiuntur ex parte inflammata;  
 ita in peripneumonia, frequens cordis  
 pulsatio concitat febrim, ventriculus ob  
 sympathiam perturbatur, parum uri-  
 nae redditur, et cutis arida devenit.

Sub initium inflammatio-  
 num graviorum, constat inspicienti, or-  
 gana omnia fieri languidiora solito.

The first part of the paper is devoted to a  
 general survey of the state of the  
 country at that time. It is a  
 very interesting and valuable  
 work, and one which every  
 student of the history of the  
 country should read. It is  
 a very good example of the  
 style of writing which was  
 common in the eighteenth  
 century. The language is  
 clear and concise, and the  
 facts are well stated. It is  
 a very good introduction to  
 the study of the history of  
 the country.



7

Differendum nunc videtur de modis  
diversis quibus partes diversae corporis  
afficiuntur inflammatione. Ubicum-  
que inveniuntur vascula multa, ut in  
systemate cellulari, mucosâ, atque serosâ,  
ibi quoque saepius invenitur inflam-  
matio. Ossa, e contrario, cartilagineae,  
ac tendines, vix et ne vix quidem huius  
affectui sunt opportuna.

Constat ergo cuiusque partis con-  
stitutionem mutare symptomata de  
quibus antè tractatum est; ita, alius  
est dolor ex inflammatione in cute,  
atque alius in constitutione cellulari.

Rubor etiam et calor multum dif-  
ferunt in diversis systematis, nam  
cutis ex levi tantum irritatione sube-  
fici solet, membranae serosae vero  
nunquam nisi post longum tempus  
rubescunt.

In systematis quibusdam, satis  
manifestum est quae sit causa ruboris,  
in aliis autem, in quibus venae nullae

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cernuntur, talis causa.

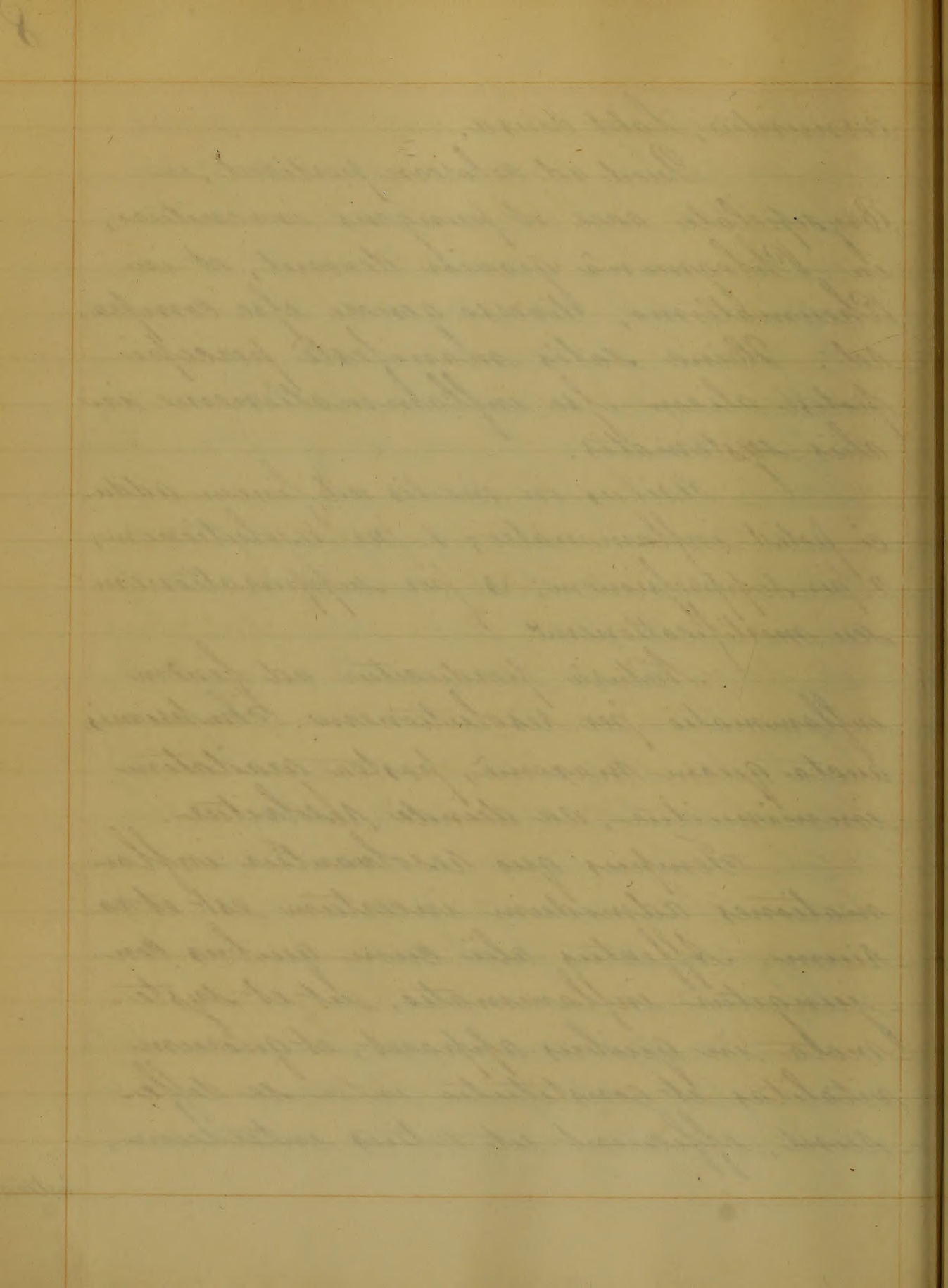
Quod ad calorem pertinet, in  
Erysipelate acer et pungens invenitur,  
in Phlegmonâ gravior devenit, et in  
Rheumatismo, Diverso genere esse compara-  
ret. Hinc satis manifestè percipi  
potest aliam esse inflammationem in  
aliis systematis.

Tribus in modis ad finem addu-  
ci potest inflammatio; 1. per resolutionem;  
2. per suppressionem; 3. per suppurationem  
seu mortificationem.

Naturâ perducitur ad finem  
inflammatio per resolutionem. Imprimis,  
aucta quom maximè, postea gradatim  
immittitur, ac deinde resolvitur.

Tempus quo resolvantur inflam-  
mationes admodum incertum est et va-  
rium. Affectus alii cum quibus con-  
jungitur inflammatio, et et syste-  
mata in quibus apparet, et quorum  
vitalitas et constitutio inter se diffe-  
runt, efficiunt ut citius interdum,

interdum





interdum tardius resolvatur.

Quo magis strenua sit vis vitalis, eo citius resolvetur inflammatio; id quod videri solet in cute, in musculis, atque in aliis systematis similibus.

Si autem vis vitalis sit languidior, et fere impercepta, ut in ossibus et cartilagine, non nisi admodum tarde conflarent symptomata. In aliis partibus chronica fieret, at hic tantum acuta est.

Aliae autem sunt causae ob quas citior aut tardior fit resolutio; quae causae sunt modus tractandi, temperatura, ac temperamentum.

Affectum huncce, si quando ad finem perducitur per resolutionem, comitantur fieri secretiones magis copiosae.

De hac re tamen hic disserere non est in animo; hoc tantum dicemus, quod augetur aliquando sudor, aliquando plus muci expectoratur.

Exeretic haec semper est fausta; quomodo tamen referat morbi, haud

facile

11

1848

Dear Mother

I have just received your kind letter of the 10th and was glad to hear from you. I am well and hope these few lines will find you the same. I have not much news to write at present. I am still in the same place and doing the same work. I have not seen any of the old friends here. I have not seen any of the old friends here. I have not seen any of the old friends here.



facile discerni potest.

Notandum est autem, non omnes inflammationes hoc modo finire; inflammatio enim videtur submissa systemati affecto.

Facillime dignoscitur inflammatio constitutionis mucosae, per excretionem; in aliis vero haud ita potest dignosci.

Hic morbus reprimitur aliquando in progressu, id quod oritur saepe ex affectu ipsos, alias arte adjuvante efficitur, velut quum fraxusta sanatur discutiendo. Non semper potest statim supprimi inflammatio; neque si fieri posset, expediretur saepe ut fieret. In Erysipelate, constat inflammationem suppressam diverti posse in partem aliquam internam magis vitalem. Periculosum quoque est, sub initium interpellere febrim intermittentem, suppressere variolas, vel etiam catarrhum simplicem.

In





In iis morbis tamen, in quibus ex-  
pertum est inflammationem fore le-  
thalem si sit dedita ad vim medica-  
tricem naturae, conare debemus in  
aliam partem transferre excitationem,  
ut in peripneumoniâ per vesicationem.

Sponte sua occurrunt inflam-  
mationes nonnullae; aliae quoque haud  
alienius partis propriae esse videntur,  
verum ex aliâ parte transferuntur in  
aliam, ut in Rheumatismo acuto. Hoc  
quoque oritur ex differentiâ systematum,  
atque ita in cute saepe cernimus hanc  
mutationem, at nunquam in ossibus.

Finitur etiam haud raro hic  
affectus per alios morbos, ut per suppu-  
rationem et inflammationem chroni-  
cam. Si quando non fit resolutio, eve-  
nit fore Suppuratio; hoc tamen praevi-  
dere non possumus, quoniam progressus  
morbi semper est idem; et praeterea  
systemata praecipua sunt ad hunc finem,  
alia magis, ut cellularia, serosa, atque





mucosa, alia minus, ut tendines atque ossa.

Quae sunt causae quae maxime afficiunt suppurationem, complicationis diversae, ac naturae systematis morborum.

Systemata quaedam, ut ante dictum est, praecipua sunt ad suppurationem, atque in his inflammatio citius ad finem progreditur; quaedam, e contrario, vix et sic vix quidem suppurare solent.

Modus etiam suppurandi alius est in aliis systematis; in mucoso nihil est nisi secretio aucta glandularum membranae suppositarum; in seroso, contra, nihil est nisi exhalatio major solito, flocculis quibusdam aliquando permixta, sine ullâ quae percipi possit erosione ceterâ.

In systemate pulmonari seu cellulari, difficillimum est inspicienti cognoscere quemodo fiat suppuratio. Pus fere semper quasi stillat in pulmonem.

In





In cute, puri ut plurimum colligitur in parvos abscessus; in constitutione cellulari saccus haud parvus plerumque formatur, et constitutio serosa nunquam habet abscessus. Quae cum ita sint, satis constat suppurationem non esse minus naturae corporis, quale est nutritio, namque haec, ubicunque fiat, fit eodem modo.

Natura puris quoque mirum in modum variatur, quonquam fore omnia ejus genera confundere solemus cum eo quod manat e systemate cellulari. Aliquando limpidum est et serosum, aliquando flocculis miscetur, aliquando est facta membrana, denique est ubi videtur simile pulmenti.

Symptomata quoque, quae ex puri nascuntur, sunt diversa inter se. In constitutione cellulari comitatur gravitate quadam ac tensione; in systemate mucoso irritatio fore sentitur, quae incitat aegrum ad cau-

12  
The first part of the manuscript  
is written in a very good hand  
and contains a very good account  
of the history of the country  
from the first settlement to the  
present time. The second part  
contains a very good account  
of the present state of the  
country and the progress of  
the various branches of  
commerce and industry.

The third part contains a  
very good account of the  
present state of the country  
and the progress of the  
various branches of  
commerce and industry.  
The fourth part contains a  
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very good account of the  
present state of the country  
and the progress of the  
various branches of  
commerce and industry.



sam eius amovendam.

In partibus quibusdam tamen  
pus manere potest sine magno dolore, vel  
uti in Thorace post pleuritidem.

Quidam auctores dixere inflam-  
mationem ad finem adduci posse per  
indurationem; hoc vero non nisi pressa-  
ro fieri solet; atque ergo loquendum  
videtur de alio morbo qui saepius com-  
parat sub finem inflammationis acu-  
tae. ea est inflammatio chronica quae  
saepissimè evenit, idque maxime in parti-  
bus interioris, post resolutionem aut suppara-  
tionem.

In hoc morbo partes inflamma-  
tae videntur ubique similes, symptoma-  
ta praecipua vero, dolor atque calor mul-  
tum immitti solent. Ut hunc inflam-  
mationis finem planius intelligamus, ex-  
empla nonnulla proferre haud absurdum  
videtur. Inflammatio peritonei ali-  
quando ad finem perducitur hoc modo -  
symptomata inflammationis immittu-

untur





ventur, verum abdomen obstruitur, et pressum  
 dolorem sentit, vomitus saepe fit, tensio et dolor  
 gravis sentitur. Hoc saepe videre est in peri-  
 pneumoniâ, in quâ, inflammatio per omnia  
 symptomata progressa, ad finem immineat  
 coepit, dolor lateris tamen manet, et ne aeger  
 moveat, prohibet. Hic morbus fore est prae-  
 cursor hydrophis vel phthisis pulmonalis.

In systemate mucoso inflammatio  
 chronica est admodum notabilis. Rheuma-  
 tismus acutus saepe quoque fit chronicus.  
 Finis inflammationis chronicae quoque ali-  
 us est in aliis systematis; in systematis se-  
 rosis adducit ad hydroperem, in membranis  
 mucosis, ad dysenteriam. Denique, inflam-  
 matio nonnunquam finitur per gangraenam,  
 quae quoque diversa est in diversis systematis.  
 Raro quidem invenitur gangraena in carti-  
 lagine, in nervis, aut in ossibus; alia vero  
 systemata, ut cutis, constitutio cellularis,  
 membranae serosae atque mucosae, multo  
 in eam procliviora sunt.

Duae sunt causae quae possunt

conducere



conducere ad hunc finem; imprimis, natura singularis morbi, deinde excessus inflammationis.

Inflammatio quae conjungitur cum adynamia saepe finitur per gangraenam; hoc autem pendet a natura generali seu particulari complicationis. Si adynamia sit particularis, gangraena ut plurimum consequitur, non autem comparat in peripneumonia putrida; sed ubicunque inflammatio conjungitur cum affectu aliquo locali, pars inflammata saepe fit putrida, ut in anthrace. Gravitas hujusce complicationis ad modum fere est varia. Est ubi mortificatio consequitur subito; aliquando autem haec putrefactio non omnino apparet.

Interdum quoque, cum vis vitalis magis aeque strenua est, fit gangraena. Hoc tamen multo magis est timendum in rupe quam in urbe. Praeterea dignoscendum est accurate inter putrefactionem et gangraenam, in quam medicamenta anti-septica nihil valent.

FINIS.



*Proximate Cause*  
Inaugural Essay, Maryland  
On various theories,  
that have been advanced on the subject of the  
Proximate Cause  
of  
Conception.

Submitted, to the examination of the  
Provost, Trustees and Professors of the University  
of Maryland,  
for the degree of Doctor of Medicine,  
by W<sup>m</sup> Haver. Longaker,  
of Maryland.

1825.

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1852

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Dedicated to the  
Professors of the University of Maryland.

Gentlemen,

I entreat your acceptance of this little and imperfect Tract as a small, but grateful tribute of the respect, and esteem, for the many obligations so generously conferred to me by each of you; which, I have only to regret, that it has not been in my power, to present you with, something more worthy of your notice, than this hasty, and illiterate production. But, tis a consolation to me, to reflect, that your Candour to excuse, is not less eminent, than your abilities to judge.

The youthful minds, the cause of inexperience, (are well known to each one of you) will be, I think sufficient apology to cause you to extend your indulgence to its numerous imperfections.

The Author

Continued to the  
Report of the University of Maryland

Continued

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## Preface

1.

When I reflect on the obscurity of the subject on which I am now about to enter; the critic world, to whose inspection it is to be subjected, and my incapability of doing it justice; almost induces me to recede from the task, and abandoning the pursuit. But being stimulated by the anxiety of future prospects, and in conformity to the laws of the Institution which makes it indispensably necessary that I should become an author, I attempt it, tho' not without being conscious of the error of judgment to which I, (like every other person) am liable.

The present or perishing subject, has, in all ages been discussed by men of eminence in the Profession; both those of the ancient days, and those of the present time, each maintaining their opinions with eagerness, and intelligence. The many Hypothesis, the various dissections, demonstrations, and experiments; which have been advanced by Philosophers, particularly those of an ancient day (the subject of whose Hypothesis will be the immediate object of this paper) yet, all these, have left us like a blind man searching for a feather, on a windy day. Clouds of ignorance still intercept our view, which causes us to stray from the pleasing paths of truth, by the art of reasoning, into the mazes of subtle ingenuity.

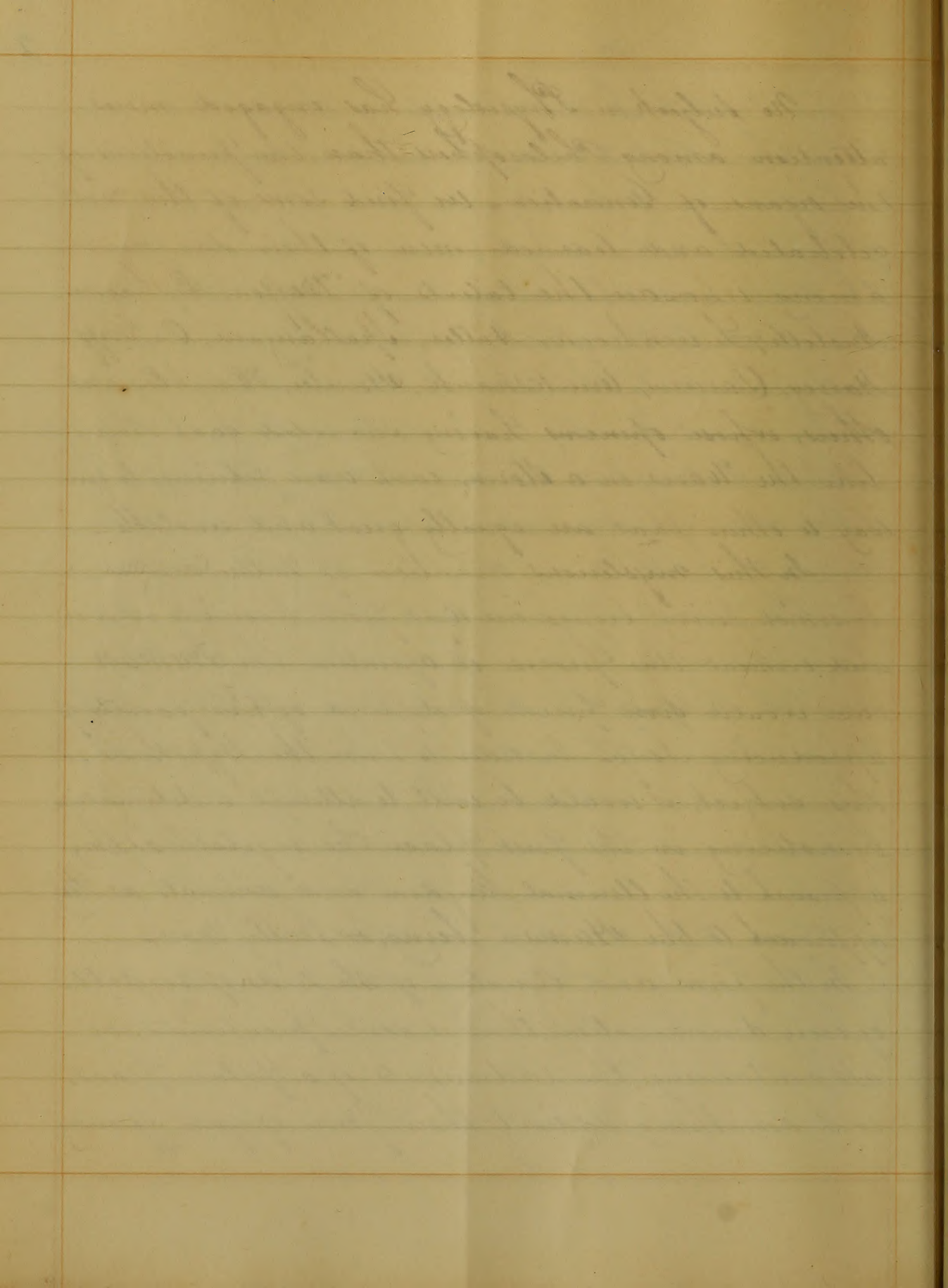
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No subject in Physiology has engaged more attention among Philosophers than the functions of the organs of Generation. We find some of the most celebrated and learned men of their Age, among whom are the talents of Boisson, Bichon, Aristotele, Linnæus, Haller, Spallanzani, C. Gray, Harvey, Darwin, Lemke, Hank, Hunter, Haughton and others, whose opinions having succeeded each other like the Waves in a Storm, each was retiring, to give way to others that are equally great and unstable.

In this mysterious operation of Nature's Conception, by which living beings are kept from perishing, and without this process in operation the HUMAN race would soon perish if deprived of this faculty of reproducing itself. In order to trace the Hypothesis on this subject, it would be well to attempt a delineation by noticing in the first place the vegetable as they approach to the Animal Kingdom and animals as they approach to the Human being, or Scordly Man.

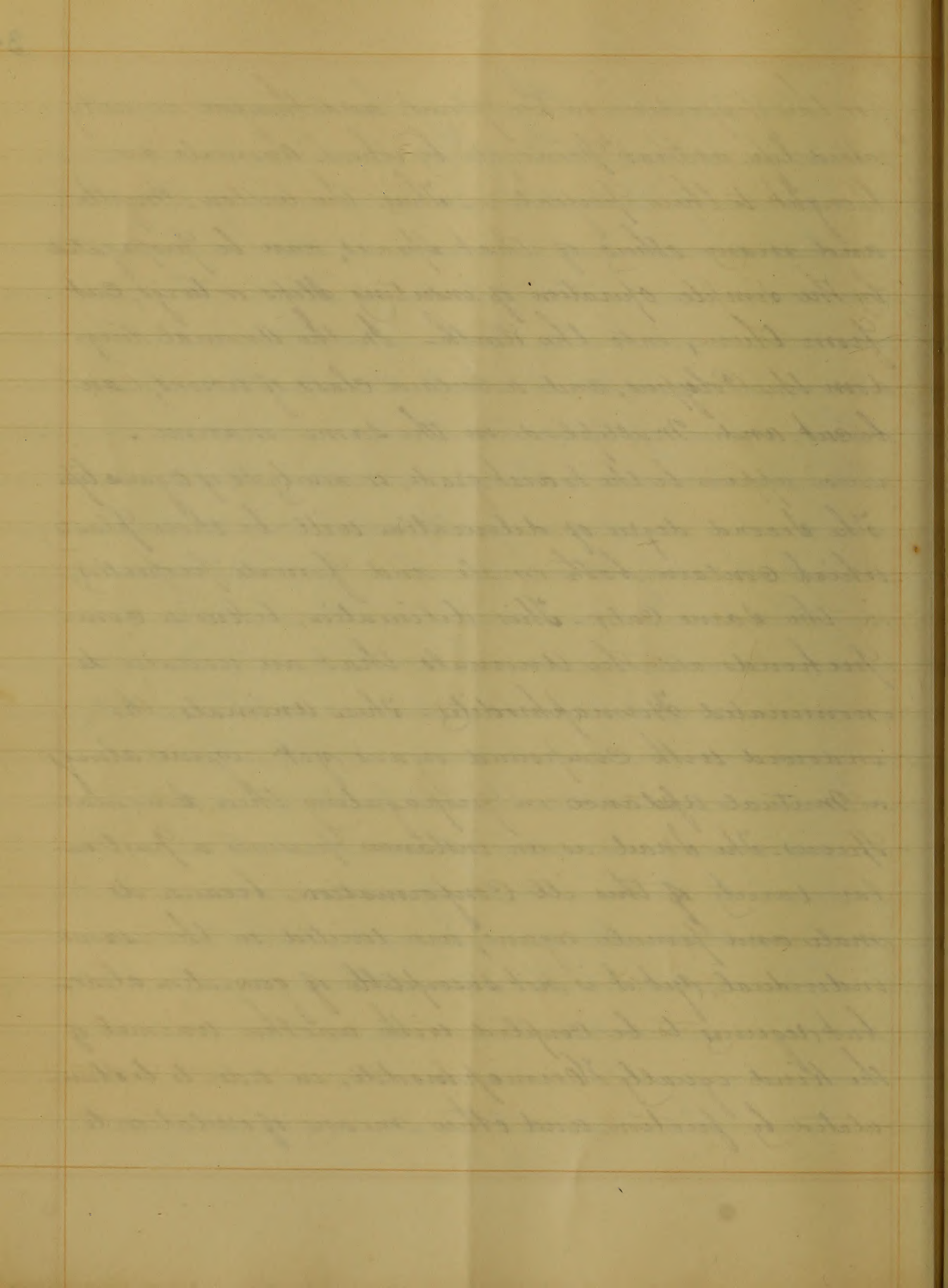
In the form and structure of the seeds of vegetables of every denomination, there is some peculiarity, tho' all containing the rudiments of a future plant, with something added to their form of equal efficacy





for the generation of the plant, and thus far as justly called life, as that principle by which animals are brought to their perfection. Thus, the willow, Myrtle and many others of that species, can be propagated by the simple operation of inserting slips or twigs, cut from them, into the Earth. In the Animal Kingdom the Polypus, and a certain class of worms, can be cut and multiplied in the same manner.

It now appears to be the lowest grade, or nearly so, of organic life. The second degree of delineation will be those plants which contain both male and female properties, in the same Calyx. This delineation, likewise comprehends all the animals that are usually denominated Hermaphrodites. These animals, tho' endowed with compound organs, yet, require always a mutual assistance in propagating their singular species. The snail, as an instance presents a particular variety of this ill conformation, because its male and female organs, are united in the same individual, yet it is not susceptible of generation alone, but requires to be coupled with another animal of the kind equally Hermaphroditic, in order to be stimulated by friction, and other means of irritation, to





the act for its own reproduction: the third division  
 - includes the plants whose generative organs  
 make the nearest approach to those of the Human  
 species - And comprising this class, are the trees and  
 plants that present the cream of one sex in the  
 same tree or plant - the Mulberry tree, come under this  
 head - It includes of the Animal Kingdom many  
 amphibious Animals; likewise most of the Fishes -  
 The Semen Masculinum is placed in direct contact  
 with the Farina and ova of the female of the Amphibious  
 Animals, such as the Frog and toad when experiencing  
 the venereal impulse, resort to the stagnant pools for enjoy-  
 ment - In copulation the male mounts on the back of  
 the female, and embraces her vehemently for several days -  
 while connected in this manner they both emit fluids  
 the union of which, results the new animal - The Phre-  
 nomenon of Fishes are much the same; they leave  
 the cold and boisterous Ocean, for water, that is quiet  
 and warm - The pair emit their fluids, here on the same  
 spot - The fourth and last division includes Man, quadr-  
 upeds and birds. In the males of this class, there is an  
 organ or apparatus for injecting their semen into the fe-  
 male organs of generation, which are equally adapted for

The first of these is the fact that the  
 number of cases of the disease has  
 been steadily increasing since the  
 year 1850. This increase has been  
 observed in all parts of the world,  
 and is particularly marked in the  
 tropical and subtropical regions.  
 The disease is caused by a  
 specific micro-organism, which  
 is present in the blood and  
 other secretions of the patient.  
 It is transmitted from one  
 person to another by direct  
 contact, or by means of  
 contaminated articles of  
 clothing or food. The disease  
 is characterized by a  
 high fever, which is  
 accompanied by a  
 profuse sweating,  
 and a general  
 debility. The  
 duration of the  
 disease is  
 usually  
 about  
 two  
 weeks.



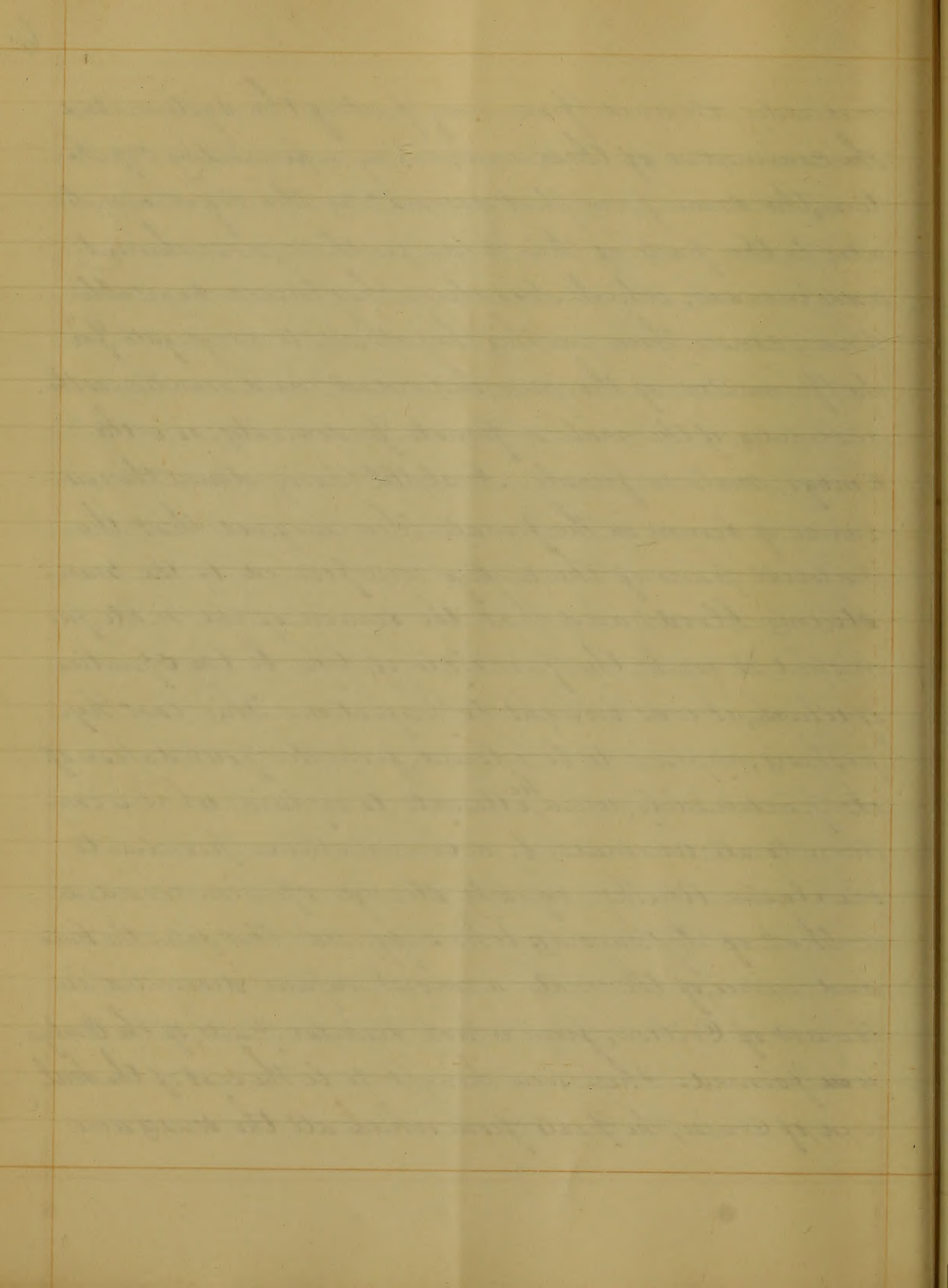
receiving it. But the manner in which it is disposed of, afterwards, and the relation which its agency to that of the Uterus, Ova and its appendages, in forming the Foetus, is the mystery, and yet the subject of many enquiries.

The Hypotheses are many, and singular upon this subject. The first of which I will notice, is that of the celebrated Hippocrates, who maintained that each of the two sexes, possessed two kinds of seed, formed both of superfluous nutriment and of fluids constituted of materials, proceeding from all parts of the body, and especially from the most essential, the NERVES. Of these two seed, the stronger beget Males, and the weaker females. In the act of generation, these seed become mixed in the Uterus, and by the influence of the <sup>heat of the</sup> organ, they form the new individual, by a kind of Animal Crystallization, male or female, according to the Predominance of the stronger or weaker seed. This Opinion has also been maintained by Buffon, tho' with some slight modification; according to him, there exists in nature two kinds of matter, the living and the dead, the former perpetually changing during life, and consisting of an infinite number of small inorganic molecules. He conceived, that the seed of both sexes, are formed of these

*[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]*



molecules, obtained from every part of the system. And the combination of these seeds, during a fecundating copulation, the same force that assimilates the organic molecules to the parts of their body, for their nourishment and increase; which Needham has termed vegetable force; causes them in this hypothesis, to congregate for the formation of the new individual; and according as the molecules of the male or female predominate, so is the embryo, male or female. Aristotle's theory denies the existence of semen in the female. He imagined that the material parts of the embryo were formed by the menstrual blood, and that the semen of the male, furnished it with the principle of life, by the operation of which, it was brought to perfection. This last hypothesis, appears to be absurd, from the foundation of it; particularly, when <sup>he</sup> attempts to explain, what is common to all animals, by a circumstance peculiar to one class. Another equally strange opinion recorded is, that of Pythagoras; who supposed, that from the brain and nerves of the male, a moist vapour descended in the act of Coition, from which similar parts, of the Embryo were formed. These were thought to be the seat of the soul, and of course, the parts from which all the senses were





derived. All the grosser parts, he supposed were composed of the blood and Humours contained in the uterus. And he also imagined, that the embryo was formed in forty days, but that seven, nine, or ten months were required for the perfection of the foetus, according to the laws of Nature. He further said that the same laws which guided the formation of the foetus, influenced the conduct of the man. Galen imagined that the embryo was formed by the substance of the Male semen, and that of the Humours supplied by the female, served the mere purpose of nourishing it - We now consider the Hypothesis of Fabricius, and afterwards advocated by Bonnet, Spallanzani, Staller, and Hunter. Fabricius made a number of experiments on the spawn of Frogs, and some other animals of a similar species - By these, he supposed that he had shown the foetus to exist in the female. And having seen in the Ovaria the spawn Capable of impregnation out of the body; and in contemplating the Phenomena of extra Uterine foetuses, very rationally concluded, that the semen is transmitted to those organs - And they supposed the most probable route through which it could pass, was through the Uterus and Fallopian tubes. This theory was for some time dis-





cured by the discovery of Leeuwenhoek - The animalcules, which he discovered in the male Semen, made a deep impression on the minds of the Physiologists - they supposed them to be the Human race in miniature - But the great difficulty of accounting for the generation of Hybrid Animals, together with the discovery of similar Animalcules, in most of the excretions of the Human body sunk it into obscurity - The theory of Vallor resumed its former attraction, and was for many years taught in most of the Schools of Europe -

To this Opinion succeeded that which was first taught publicly by Dr. Johnson, in his System of Midwifery in the year 1769 and several years afterwards, strenuously admitted by other writers. The Opinions of these men are that the Semen does not pass thro' the Fallopian tubes in going to the Ovaria; but that it is absorbed from the vagina; carried into the Circulation, and by the exhalent Arteries deposited in the Ovaria -

The sympathetic theory was first advanced by Dr. Haughton of London and followed by writings of a much later day - Dr. H. says, The semen first stimulates Vagina, os uteri, Cavity of the Uterus or all of them - By sympathy the Ovarian vessels enlarge, pro-





-ject, and burst. By sympathy the tubes incline to the Ovaria, and having embraced them, convey the rudiments of the Foetus to the Uterus. By sympathy the necessary Preparations are made for the Formation and growth of the Foetus. And by sympathy the breasts furnish milk for its support after birth. Fallacious as some of the remarks of Haughton's are, do not when taken alone disprove the fact for which we contend. The marks of Conception, which he conceives to have taken place in consequence of impregnations made on the Vagina are not infallible - After viewing these many ~~and~~ Hypotheses we will pass on and attempt a few remarks in relation to this Subject, which appear to be tolerably well substantiated and conclusive viz. That the Semen is absorbed and carried into the general Circulation, and ultimately deposited on the Ovaria, and that is to be infer'd from its indisputable agency in the Ovaria - Secondly, from the improbability of its passing by any other route - And that Conception takes place in the Ovaria is abundantly proved by the cases on record of Foetuses being found in them - M<sup>r</sup> Maurice in the Philosophical transactions gives a case which bears a sufficient analogy -

The first part of the paper is devoted to a general  
discussion of the subject. The author then proceeds  
to a detailed examination of the various aspects  
of the problem. In the course of this discussion  
he refers to the work of other writers on the  
subject, and also to his own observations.  
The paper concludes with a summary of the  
main results and a few remarks on the  
importance of the subject.



We discovered a Foetus about as large as a man's thumb perfectly disconnected from all the surrounding parts, the right Ovarium was enlarged, its investing membrane ruptured, and every appearance as if the Foetus had just escaped from its substance. We have also seen a Case cited by Dr. Fern, where a dead body of a woman, who supposed to have been three months gone with Child, in which Ovarium the skeleton of a Foetus was lodged. These two Cases are but few, but few of the many facts that have caused a pretty general belief, that this (Conception) or the process of it, commences in the Ovaria and its appendages. And that the actual presence of the Male semen is indispensibly necessary, we infer from Analogy. In the Frog this Phenomenon is strikingly apparent, and that the deposit made by these animals of the Female sex, must be made in the presence of the Male; in default of which would cause the fluid to grow putrid like dead Animal Matter. But if this fecundity operation be made in the presence of the Male Animal, millions of new beings soon make their appearance. In this species there is no vagina to receive the semen, nor any Penis to inject it. Tho' it may be said that man

The following is a list of the names of the  
 persons who have been appointed to the  
 various positions in the office of the  
 Secretary of the Board of Education  
 for the year 1880-81. The names are  
 given in the order in which they were  
 appointed. The names of the persons  
 who have been appointed to the  
 positions of Secretary and Treasurer  
 are given in italics. The names of  
 the persons who have been appointed  
 to the positions of Clerk and  
 Librarian are given in plain type.



is not a Fish, nor a Frog, and that analogy is fallacious. In reply to this, we would merely observe that the same Muscular Power, that gives agility to these little Animals, gives graceful movements to the beautiful Bird, and enables each to enjoy themselves in their different, but natural exercises. Each nerve gives them sensibility; the same blood is necessary to keep this vessels in motion, which requires the same Air to Oxygenate it. The Bile, Urine, and Seces all bear their share part in their economy. Much has been said in relation to the Corpora lutea of the Female. Heister embraced an Opinion, which was maintained by Haughton, that the presence of the Corpora lutea furnished "incontestable proof" of a previous impregnation. This belief, in conjunction, with the fact of the division of the Fallopian tube, prevented impregnation in Haughton's experiment; and which led him to the strange conclusion that the semen penetrated no farther than the uterus; where the process of sympathy takes place; whose general Hypothesis we have already stated. Blumenbach, and Buffon's observations, prove certainly, that the Corpora lutea have been formed, when no semen had been applied to the Vagina, to cause the local impression to which





They attributed such wonderful Powers, and to which they at-  
 tached so important a Chain of Consequences - Dr. Blundell  
 cites a striking case in Opposition to this Theory with deci-  
 sive, and argumentative Proof - Sir Bernard Home has satis-  
 factorily shown that Corpora lutea exists in the female,  
 independent of impregnation - This last Position is  
 confirmed by writers of the present day - In short, we  
 do at once infer that Corpora lutea are no Conclusive  
 marks of Conception - Among the many strange Hy-  
 potheses on this subject, we infer the actual neces-  
 sity of the Actual Contact between the Sperm and  
 Ovaria, and that Absorption with Circulation is requi-  
 site in producing the new and living being -  
 This conclusion appears to me evidently from the sit-  
 uation of the Uterus and its appendages - As this Uter-  
 us is situated between the Bladder and rectum, and  
 of course liable to many changes of position. When  
 the rectum is distended, the Body and Fundus Uteri,  
 will be pressed towards the Perineum, and O. Uterina  
 turned towards the Symphysis Pubis - But in Women who  
 have born many Children, the O. Uterina projects out-  
 ward almost, to the Labia externa - By these impediments  
 the Uterus is prevented from coming into direct apposition





with the orifice of the Uterus. To this illustration might be added many equally conclusive. De Graaf and Harvey dissected a vast number of Animals with the express view, of ascertaining the existence of Semen immediately after Coition, without the slightest Perception of Semen existing in the Uterus or its appendages. Saunier, dissected for the same purpose, which also terminated in the same results, except in one instance; and thus he was not positive. Keyser relates a striking case illustrative to this view, when he says, that he was called to a woman in labour whose Vagina he found impregnated. In addition to this he discovered in the same woman an Anomalous membrane that completely obstructed the Canal <sup>of the</sup> Vagina. Superfoetation appears to settle this point sufficiently well. Among the Cases Cited is one of Smellie; he says, that a woman 5 days after delivery of a full grown Child, miscarried a Foetus that appeared to be 4 or 5 months old. There was no putrefaction, altho' it was still born. It had no hair, nor any other marks that indicated a more advanced age. But the question remains, whether or not that the Foetus might or not <sup>have</sup> been conceived at the same time, altho' they differed in size? Though in Opposition to this might we not ask, whether there was not discoverable marks





of age in Foetus and well as in Children - whether  
 their extremities grow not more proportionate to their heads  
 in the Foetus than the full grown Child; and that of  
 hairs shooting from the heads of those that have gone  
 their full period of time - we would suppose from  
 these marks we would be able to distinguish the real  
 thriving <sup>independently of life</sup> Child from the young, tho' full grown one.

In relation to the Hypothesis advanced that the  
 semen being carried to the Ovaria through the me-  
 dium of the Fallopian tubes, and returned to the  
 Uterus; appears to me fallacious, as it would be im-  
 parting to them a Power truly singular, and Hypo-  
 thetical - As we deem it superfluous to quote more the-  
 ories on this much (and will be) Speculative Subject,  
 we will say a few words in relation to the man-  
 ner in which the semen is taken up by the Circulation,  
 and carried to the Ovaries, after undergoing a change  
 peculiar to its purpose - When we notice the deli-  
 cate Membrane which lines the Vagina, seems well  
 calculated to favor the Process of Absorption & Circu-  
 lation - In its Structure it bears a resemblance some-  
 what to that of Eye lids, and Nails - which we have  
 learned from the ready absorption of seminal.





small pores, acting upon those membranes, thereby  
 producing the disease to which the virus is adapted.  
 But we might ask how the whole system becomes  
 affected by this virus. Is it not? or would we not  
 conclude that it was produced by the general Circu-  
 lation? there has been much said in relation to the  
 condition of this organ at or previous to the point of Coi-  
 tium. Bell says, that there is a slight degree of inflam-  
 mation existing for the purpose of facilitating absorption.  
 This view has been sustained by other writers, and  
 some too of the present day. This position, we do con-  
 fess, appears to be somewhat strange or singular, as  
 in the time of health, there should <sup>be</sup> disease both existing  
 in the same being at the same time. We do infer  
 that it is a stimulating, or natural excitement existing  
 in the seminal Organ at the time of Coition. The Semen  
 when ejected from the Uterus soon liquifies, and by  
 these means is readily presented to the patulous mouths  
 of all the vessels that are spread throughout the vagina.  
 The qualities of the semen is a mild, bland fluid;  
 in a word such a substance as we would suppose  
 well calculated to pass through the system, with-  
 out occasioning much inconvenience. The sickness

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above matter. I have the honor to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
 Your obedient servant,  
 J. M. [Name]



at the stomach, and vomiting are such as we should expect. These symptoms are much the same as are usually occasioned by the injection of <sup>substantia</sup> extraneous into the veins - the active digestive power of the Lymphatics, has been frequently urged as an objection to this hypothesis. But the smell of Copraiva, Garlic & in the breath; the soft Serpentine in the Urine, and the smell of urine in the breath of patients who have been afflicted with long continued stranguary which frequently occur, and which are sufficiently conclusive in support to the digestive power of absorption - Spallanzani's experiments on <sup>the digestion of the</sup> Prog of urine, that after extreme dilatation, it still retains its power. But the great, and important part of the process, by which the Semen acts when it has reached its place of destination, is yet a point of much speculation - We have cited many Hypothesis, it is true; and with but little satisfaction or advantage; but if we do not profit by the knowledge of these authors, we may acknowledge, or at least be convinced, that little has been said hitherto on this subject for general information.





An Original Dissertation on  
Unirivision.

Submitted to the examination of the  
Excellt. Trustees & Medical Faculty  
of the  
University of Maryland.

for the Degree of  
Doctor of Medicine.

by

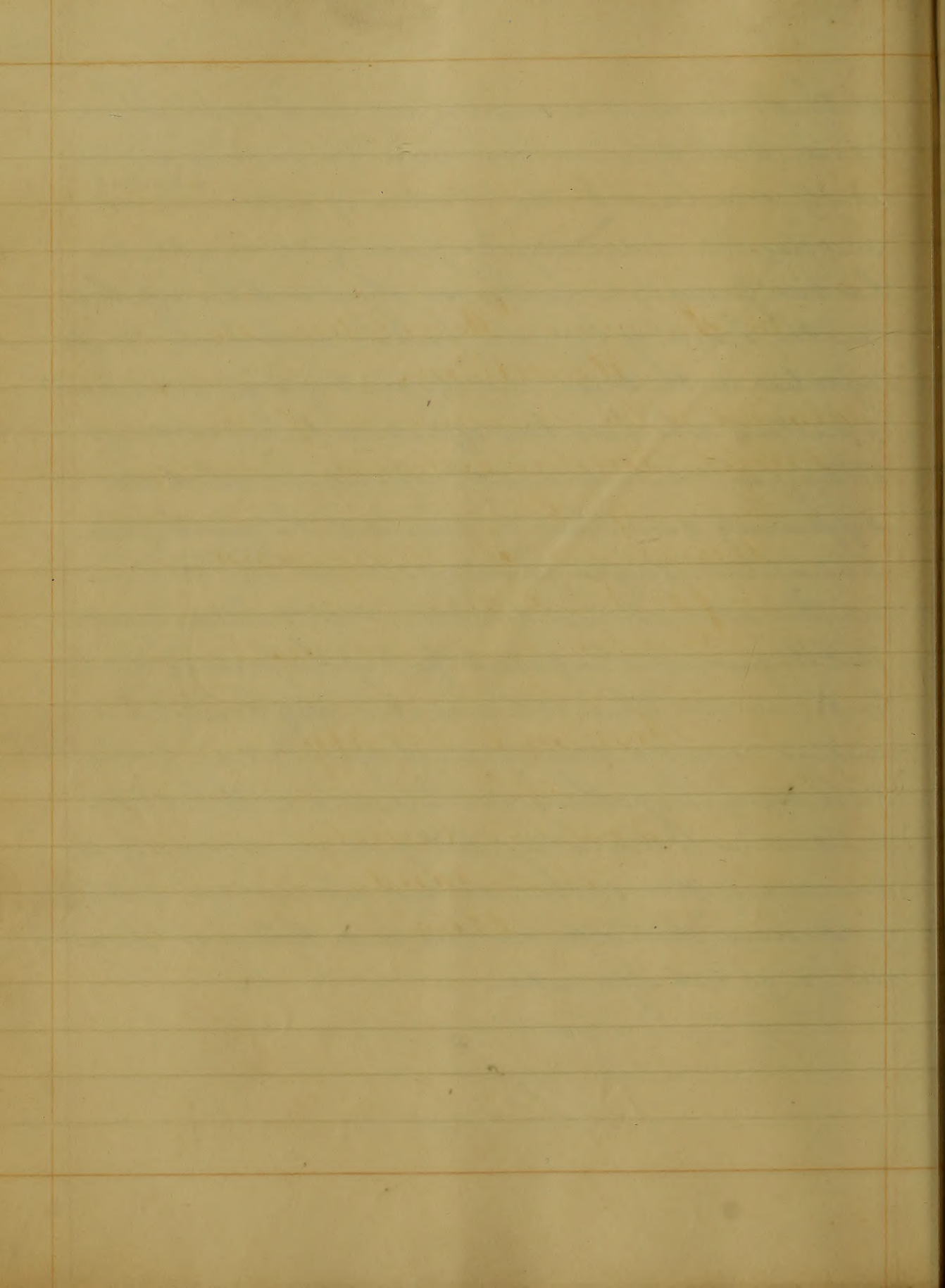
Joseph C. Cockey

of

Fredrick County

Maryland.

1835.





An Inaugural Dissertation on  
Aneurism.

Submitted to the Examination of the  
Provost, Trustees, & Medical Faculty  
of the

University of Maryland;  
for the Degree of  
Doctor of Medicine.

by  
Joseph C. Cockey,  
of  
Frederick County.

Maryland.

1835

The University of Maryland  
Baltimore

Submitted to the examination of the  
Faculty of the Medical Department

of the  
University of Maryland  
for the degree of  
Doctor of Medicine

by  
Joseph C. Beckey

of  
Frederick County  
Maryland  
1832



When we contemplate the present condition of the different branches of medical science, and compare them with each other, we shall find that none of them have made greater progress towards perfection, or present a more noble & attractive character, than the Department of Surgery. Its practice, confined at first to the mere empiric was, as may be supposed, for the most part unsuccessful; but guided at the present day, by many, and successive improvements and discoveries in Physiology, and Pathology, it has become a science of the noblest order, an art which daily dispenses its blessings to thousands of the afflicted and distressed. Its results are the most pleasing and satisfactory, in their nature, for what can give more happiness and satisfaction to a benevolent mind, than to rescue our fellow beings from the agonies of disease, - to prolong the period of existence - and frequently to save them from immediate destruction.

In no disease is the triumph of surgical science more strongly manifested than in that of ANEURISM, a subject which I have selected for my inaugural dissertation. I am well aware that nothing new can be offered, I shall therefore content myself by describing its nature, treatment, & varieties as laid down by the most approved authors. —





An Aneurism may be defined a tumour which is generally pulsating, formed of arterial blood. It will be seen in this definition that I do not include morbid dilatations of the heart, to which this term has also been applied, but shall here confine it to the diseased condition of the arteries only. — From the different states in which the coats of the vessels have been found to be affected. Thus when all the coats of an artery are dilated, it has generally been called True Aneurism, although this term has been applied to cases where the two internal coats alone are affected. By False Aneurism is meant that state in which one or two inner coats are dilated, or where all the coats are enlarged. It must be evident that these divisions can be of little practical utility, inasmuch as the condition of the parts is constantly changing; thus when the external coat is destroyed, very little time will elapse before the others participate in the morbid affection. —

A more natural and useful division would appear to be into Spontaneous & Traumatic. — By the first is meant, Aneurism from disease located in the artery, By the second, those cases which are produced by accidents, such as cuts, blows, over-exertions in lifting &c. operating on an artery previously healthy. As in those accidents all the

The discussion may be divided into two parts - first a  
generally speaking, the study of anatomy is dead. It will be  
true in this opinion that I do not understand any of  
dilatation of the heart, to which this term has also  
been applied, but it is not confined to the disease  
condition of the arteries only - from the appearance  
in which the coats of the vessels have been found to be  
affected. Thus when the coats of an artery are dilated  
it has generally been called true aneurysm, although  
this term has been applied to some when the true is  
not coats alone are affected. Dr John Brown is  
of opinion that it is a dilatation of the vessel and not an  
aneurysm, or when all the coats are enlarged. It must  
be evident that these opinions are of little use  
and utility, inasmuch as the dilatation of the coats  
is constantly changing; thus when the interior  
coat is dilated, very little time will elapse before  
the other parts part in the same affection.  
It must not be a useful division made  
appear to be into *spontaneous & traumatic*  
The first is meant, however, from which doctor  
in the artery, Dr Brown, those cases which are  
produced by accident, such as cuts, blows, &c.  
occur in lifting &c. exerting an artery  
pressure of the body. As in these accidents all the



arterial tumours are divided or ruptured, the tumour can only be formed by the blood effused into the surrounding parts, and these parts themselves, which from the pressure, are irritated, and augment considerably in volume. The terms *Circumscribed* & *Diffused* relate only to the form of the swelling and extent of the extravasation. *Varicose aneurism* comes under the head of false or *Traumatic*, as it is caused generally by a puncture of the *Lancet* in venesection, thereby establishing a communication between the artery and vein. It is generally diagnosed by the same phenomena which attend aneurism seated in any other part of the body. Other divisions have been adopted by some surgeons, but the divisions we have made into those sanguineous tumours which are the result of disease in the artery (*Spontaneous*) and those caused by division or rupture of the coats by accidents (*Traumatic*) is the only one of any great practical importance.

*Symptoms of Spontaneous Aneurism.*

The patient at first very generally experiences an uneasy sensation in the artery, and on examination, a small tumour may be detected. If the circulation is accelerated from any cause the uneasy sensations are increased; in some cases however, the tumour may exist for sometime without the knowledge of the





4

patient. When we examine a tumour of this kind attentively, we discover that it pulsates, is soft, circumscribed, and the parts covering <sup>it</sup> are not attended in colour or painful. We observe moreover that it is dilated by every contraction of the heart, and that its motion is simultaneous with that of the arteries in every part of the body. Pressure on the cardiac side arrests, & diminishes its volume; if on the contrary we apply pressure on the side farthest from the heart it acquires an augmentation of volume. On raising the finger from the tumour after pressing on it, a whizzing sound, or what has been called the aneurismal thrill, is produced. - The volume and increase of the tumour depends upon the force and energy of the heart's contractions. It is therefore liable to be greatly increased by mental emotions, which should be carefully avoided, as well as by physical exertion. Sometimes aneurisms remain stationary for a considerable time, but at others owing to the operations of the above named causes, they augment greatly, with aggravation of all the symptoms, and owing to certain changes taking place in the sac itself, as well as from pressure on important parts, new morbid phenomena now make their appearance. The pulsation is diminished or entirely





annihilated, the swelling is more firm and unyielding even from pressure on it, or on the artery above, occasional very slight decrease of its magnitude. If we carefully examine the artery above the aneurism, it is found enlarged, but beyond, the pulse is very weak and feeble; the limb is colder than natural, showing evidently that the circulation is impaired. The deficient heat in the limb is likewise owing to pressure on the nerves of the part affected, and occasionally very painful sensation are experienced. When the aneurism is very large the functions of the vessels and nerves are still more deeply deranged; there is great coldness, a varicose condition of the veins, and from the pressure on the great Sympathetic trunks, the limb becomes œdematous, and sometimes loses its vitality altogether. Sometimes if its progress is not arrested, it goes on increasing, the parts from pressure are rapidly absorbed, and in this manner cartilage, bone, muscle and cellular tissue are successively removed, until finally by some exertion of the patient, the tumour bursts, and torrents of blood gush out, overwhelming the sufferer and causing him to expire almost instantaneously.

**Diagnosis.** - Aneurism may generally be distinguished by its peculiar thrill, which may be compared





to the sensation produced by drawing a fine file over the finger nail, more nearly than to any thing I can refer it to; also by compression, as employed in the manner already mentioned; the difficulty of diagnosis also depends in a great measure upon the location of the aneurism. If it be seated in any of the great cavities, it may exist for sometime without the patient being aware of it, or it may produce many very anomalous and inexplicable symptoms. It has happened, that the patient has been treated for some other disease in consequence of its anomalous symptoms being thus situated, and the patient has fallen dead suddenly. An aneurism when seated in the Thoracic aorta, occasions great dyspnea, livid countenance, sometimes tumultuous & violent action of the heart; when in the Brain it causes Coma, convulsions and other derangements of the nervous system, and when seated in the Abdomen the functions of the viscera contained in that cavity are greatly deranged. In these cases much assistance will be derived from the use of the Stethoscope. It is only by a very careful examination of all the circumstances of the case that we can determine its presence. In the abdomen however from the softness of its walls a pulsating tumour may be detected by the hand, applied over that region.





In aneurism seated on the extremities the diagnosis is attended with little trouble, but even here unless we are well acquainted with the relative anatomy of the region in which it is situated, we should be very liable to confound it with tumours of a different character, such as abscess, enlarged glands, encysted tumours of various kinds. Tumours situated over large arteries generally have a pulsating motion communicated to them by the artery beneath; in this case we should endeavor to elevate the tumour from the artery, or turn it to one side, when the pulsation disappears. The state of the artery above and below the tumour should be examined, pressure should also be made at these points. It has been remarked that in aneurism the swelling or enlargement of the tumour takes place in every direction when the heart contracts. The tumour is not usually elevated, which is the case when it is owing to other causes. - If the tumour is on the neck and is observed to follow the motions of the Larynx & trachea, we conclude that it is not aneurism, at least of the contracted, when the tumour is seated in the sheath of an artery, it is very difficult to distinguish its nature. An abscess & aneurism have been known to exist together; in the latter cases it is almost impossible to determine, and if, after carefully





examining into the history of the case, and attentively considering all the circumstances and we cannot decide, it has been advised to wait until the progress of the symptoms reveals more of its nature. Some surgeons have advised in these difficult cases to puncture the tumour, and if it is an aneurism then to operate.

Causes of Spontaneous Aneurism.— On examining aneurisms arising from disease originally seated in the artery, we shall find the coats of the vessel exhibiting very different appearances in different subjects. The internal or serous membrane seems to lose its vitality and is covered by osseous scales, sometimes it is ulcerated or ruptured, similar degenerations and consequent impairment of function take place in the other coats, by which the cohesive force is diminished, they yield to the stimulus of the blood and dilatation or aneurism is thus effected. It was the opinion of Scarpa that in all cases of spontaneous aneurism there was rupture and dilatation of the internal and middle coats; this however has been found not to take place in all instances, but it does generally occur, and always when the aneurism is of much magnitude.

It is worthy of remark that common inflammation does not occasion these changes in a





healthy artery, the experiments of Jones, Hunter and others have proved that the artery may be deprived of its external coats even to such an extent as to allow the blood to be seen through it, and yet aneurism be not produced. In other cases when, from the application of ligatures the internal and middle coats were cut through, yet dilatation of the external was not occasioned; but in both cases the adhesive inflammation took place, the coagulable lymph was effused and became organized & a thickening of the parts in the immediate vicinity was the consequence. In those experiments the canal of the artery was often found diminished. It appears from these experiments & their results, that we cannot attribute dilatation to acute inflammation, at least where it is only of ordinary intensity. Should this occur, ulceration of the coats may ensue and occasion the opening of the artery, and consequent escape of blood. Some have attributed these changes in the artery to chronic inflammation and it is not improbable that some of them are really occasioned by it, but in the majority of cases it is owing to a vitiated nutrition in the arterial and to perversion of secretion. This seems to be confirmed by the fact that in





cases of spontaneous aneurism we may observe a cachectic condition of the system, together with frequent and great derangement of the digestive organs. —

The situations of certain arteries would seem to predispose them to aneurisms; thus the arch of the aorta is subjected to the violent impulses of the blood, coming from the left ventricle, and we often find them occurring at the flexures or curves of the arteries, where a similar impediment exists to the passage of the blood. The arteries are more frequently found diseased in old persons than young, and it is not uncommon to find the serous membrane, particularly of the aorta, lined with osseous scales & exhibiting other degenerations, indeed this part of the aorta for the reasons above stated, is more frequently the seat of spontaneous aneurismal tumours than any other in the whole body. The artery when thus diseased and its elasticity thus impaired, yields readily to the increased impetus of the blood, caused by straining, lifting, running or indeed any violent muscular exertion & therefore giving rise to its more frequent occurrence in men than women. —

Prognosis. — This must vary according to circumstances, if the disease is seated in any of the large cavities of the body, it is much <sup>more</sup> dangerous, as it





frequently interests organs essential to life and is farther removed from the hand of the surgeon, therefore, only indirect means can be resorted to; such however is the improvement of our science that many internal aneurisms have been successfully treated by ligature, among which may be mentioned the internal, external and Common Iliaes. Even the abdominal aorta has been secured in a ligation although the result of the operation was unfavorable.

If seated on the extremities it is much more favorable because it is more easily approached. In all cases however it is well to examine into the constitution of the patient thoroughly before operating, and particularly the state of the other arteries, as there may be a similar or diseased or dilated condition of them all, in which case an operation would be of little utility.

Treatment.— The treatment of aneurism of the heart or aorta is necessarily solely medical. As the distention of the diseased artery is dependant on the impulse of the circulating fluid, we should endeavor to moderate the force and violence of the heart's action; this is effected by venesection, repeated according to the plethoric condition of the individual, gentle purgatives, perfect rest, and in particular, avoidance of all mental emotions; the patient keeping himself as quiet and undisturbed as possible, and only taking as much exercise as is necessary for the maintenance of his general health.





Vesalio, who rigidly pursued this course, abstracted blood very copiously and restricted his patients to a quantity of food merely sufficient for the bare subsistence of the individual. Although we should be extremely cautious in the diet &c of the patient, and liberate to the taking of blood in sufficient quantity, we should nevertheless not fall into the opposite extreme & deplete too copiously. It has been satisfactorily established by Dr Marshall Hall, and confirmed by daily experience, that after copious depletions by bleeding & purgatives, their often ensues violent and tumultuous action of the arterial system, and it is easy to conceive the bad effects this might produce. In cases of aneurism the tumour would yield to the distending influence of the blood, and all the symptoms would be greatly aggravated. In some cases we may succeed by the method here laid down, but more frequently it fails, and the disease progressing with frightful rapidity, the patient is finally destroyed by hemorrhage. When we do succeed in effecting a cure by medical treatment, or when the disease is cured by the efforts of nature, the change which takes place in the parts, would seem to be this. The blood being impeded in its progress, coagulates in that part which is most remote from the natural canal or channel of the artery, after a short period, another layer is added, and so on, until the walls of the tumour from their thickness resist the impulse of





The blood, and the coagulation of this fluid still continuing, the calibre of the artery is closed up. After a time, the red particles of the blood are absorbed and the fibrin remains; subsequently the artery is found to be hard and fibrous, allowing no blood to permeate it. Although the trunk of the artery is no longer pervious, we shall find that the vitality of the limb is still preserved by the anastomosing branches, by which a collateral circulation is kept up. As the disease progresses these vessels are observed to enlarge and this in proportion to the difficulty of transmission through the main trunk.

It is occasionally observed that the orifice of the artery communicating with the sac is very much thickened by chronic inflammation, so as to obstruct the progress of the blood, or it may happen that this effect may be produced by the tumour meeting in its progress with some very hard or resistant organ, which opposes its dilatation. It has happened sometimes that this inflammation terminated in gangrene, the parts sloughed, the blood coagulated & extended some distance in the canal of the vessel, thus completely plugging it up, adhesive inflammation took place and finally a permanent closure of the artery was effected.

When the effects of nature and the medical treatment (above alluded to) are not sufficient to arrest the disease, we must resort to surgical aid; if the aneurism is at all accessible to the hand of the surgeon. Many means have

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been resorted to by surgeons, such as bandages, compresses &c to diminish the quantity of blood in the sac and thus promote coagulation. Although these sometimes succeed, they more frequently fail, and we must look to the operation as the only certain remedy.

The operations performed by the ancients was to lay open the sac, remove the coagula, and tie the extremities of the vessel above and below the tumour; the cavity of the tumour was then filled with lint. It was easy to conceive that pernicious consequences would result from this operation, as the ligature was applied to a diseased portion of the artery, and great inflammation and sloughing of the parts would ensue, attended by secondary hemorrhage. The operation as it is performed at the present day by the best surgeons is that of Hunter; to this distinguished man we are indebted for this great improvement, which was founded on an accurate acquaintance with physiology & pathology. His method consists in applying the ligature to a healthy portion of the artery, above the tumour and using a single ligature. By this means the blood is prevented from entering the sac, and that which is in it, is coagulated, and subsequently absorbed. The internal and middle coats are divided by the ligature and coagulable lymph is the issue out which becomes organized, and the two sides of the





vessel thus adhering, the canal of the artery is completely and forever obliterated. The coagulum ordinarily extends as high as the first anastomosing branch, which gradually becomes enlarged, and thus the circulation is completely restored. Shortly after tying an artery for aneurism, the limb below is colder than natural, but when the anastomosing branches become sufficiently dilated to convey the blood to the trunk below the tumour, the heat is greater than natural, this however gradually disappears.

The advantages of Hunter's method are very apparent, we do not have the same danger from ulceration of the artery, the intense inflammation and sloughing are avoided, and the pain and difficulties are trifling when compared to the old plan.

Before operating (as we said before) we should always carefully observe the system of the patient and ascertain particularly the condition of the arteries; should they generally be diseased nothing but the rapid progress of the tumour should induce us to operate. — It is not advisable to operate when the tumour is first discovered or rather in its state of incipency, as then the anastomosing branches are not sufficiently enlarged, we should however endeavour to operate before the tumour becomes large, because sloughing and secondary hemorrhage very often follows in such cases, and moreover from

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pressure, the collateral branches may be obliterated. In cutting for the artery we should always endeavor to secure it where its anastomosing relations are least complicated. We should first cut through the integuments and superficial fascia, or cellular tissue, then cautiously divide the parts 'till we arrive at the sheath in which the artery is contained; the sheath is then to be pinched up with the forceps and a small transverse incision made in it, and then if necessary, we may raise it on a dissector and divide it upwards or downwards; we should always be cautious in separating the sheath from the artery, that we denude it but to a slight extent, merely sufficient to pass the needle without embarrassment, as the nutrition of the vessel would be greatly impaired (from injury of the nasa ad scrossa) and ulceration and hemorrhage would be the consequence. After the ligature is applied, one thread is to be cut off, the other left hanging out of the wound, we must then nicely close the wound, and endeavor to promote adhesion by the first intention.

Traumatic aneurism.— In this species the walls of the tumour are not formed by the coats of the artery, but always of the sheath of the vessel, or the parts exterior to it. It is caused by injuries or accidents as cuts, blows &c. operating on a healthy artery, or causing division or

...the artery in which always contains a mass of white  
...containing white or least translucent particles  
...through the capillary and superficial  
...then cautiously divide the part till the  
...of the duct in which the artery is contained  
...to be finished up with the forceps and  
...small transverse incision made in it and this of  
...may occur it is a white and white  
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artery.

Operative Treatment. In this species the walls  
of the tumour are not formed by the coat of the artery, but  
always of the coats of the vessel, or the hard exterior.  
It is covered by epineurium or is covered by the  
so operating on a healthy artery or covering the vessel or



rupture of its coats, when a wound of small extent is made in a healthy artery, it may be entirely cured by the efforts of nature, but when an artery is divided in a considerable portion of its circumference, or is of much magnitude, the hemorrhage is often violent and obstinate, and though commanded for a time, may frequently recur, or the blood being obstructed in its exit from the wound, a pulsating tumour may be formed. In all cases of division of the arterial coats it is owing in the first to effused and coagulated blood in the wound acting as a barrier to the passage of the fluid, and ultimately to the pouring out and organization of the coagulable lymph, that hemorrhage is prevented, restoration of the part affected, or aneurism produced; for in cases where the latter is occasioned coagulable lymph is poured out around the wound in the artery, some blood is also effused between the artery and its sheath, this latter becomes gradually distended, and owing to the irritation it occasions in the surrounding parts, fibrin is deposited both on the artery and inner surface of the sheath. As the tumour increases the walls become thinner in consequence of absorption, and the same changes ensue as in spontaneous aneurism, the tumour is pulsating and the same peculiar thrill may be observed as in the other species.

*[Faint, illegible handwriting on lined paper]*



Treatment. - This varies according to the stage and size of the aneurism. When it is of short standing, and seems to be rapidly enlarging, it will be most advisable to lay open the tumour, find the orifice in the vessel and tie it above and below the place where it was wounded. - When it is of considerable size and has slowly increased, it will be better to tie the artery above the tumour; as too much inflammation, and perhaps sloughing would be the consequence.

There is a species of aneurism called Varicose, which is produced by puncture of the lancet, generally at the bend of the arm, the vein in this region lies directly over the artery, being merely separated from it by the brachial aponeurosis. If the operator should plunge his instrument too deep, he may cut through the vein, the fasciae of the arm and the artery, the parts being in close contact: the blood is forced from the artery into the vein, and may gush from the latter vessel with considerable force. The hemorrhage may be arrested by compression, and the sides of the vein unite by the first intention, but the communication between the artery and vein still exists, and a pulsating tumour is formed. As the coats of the vein are very distensible, this vessel becomes much dilated, the tumour in the vein



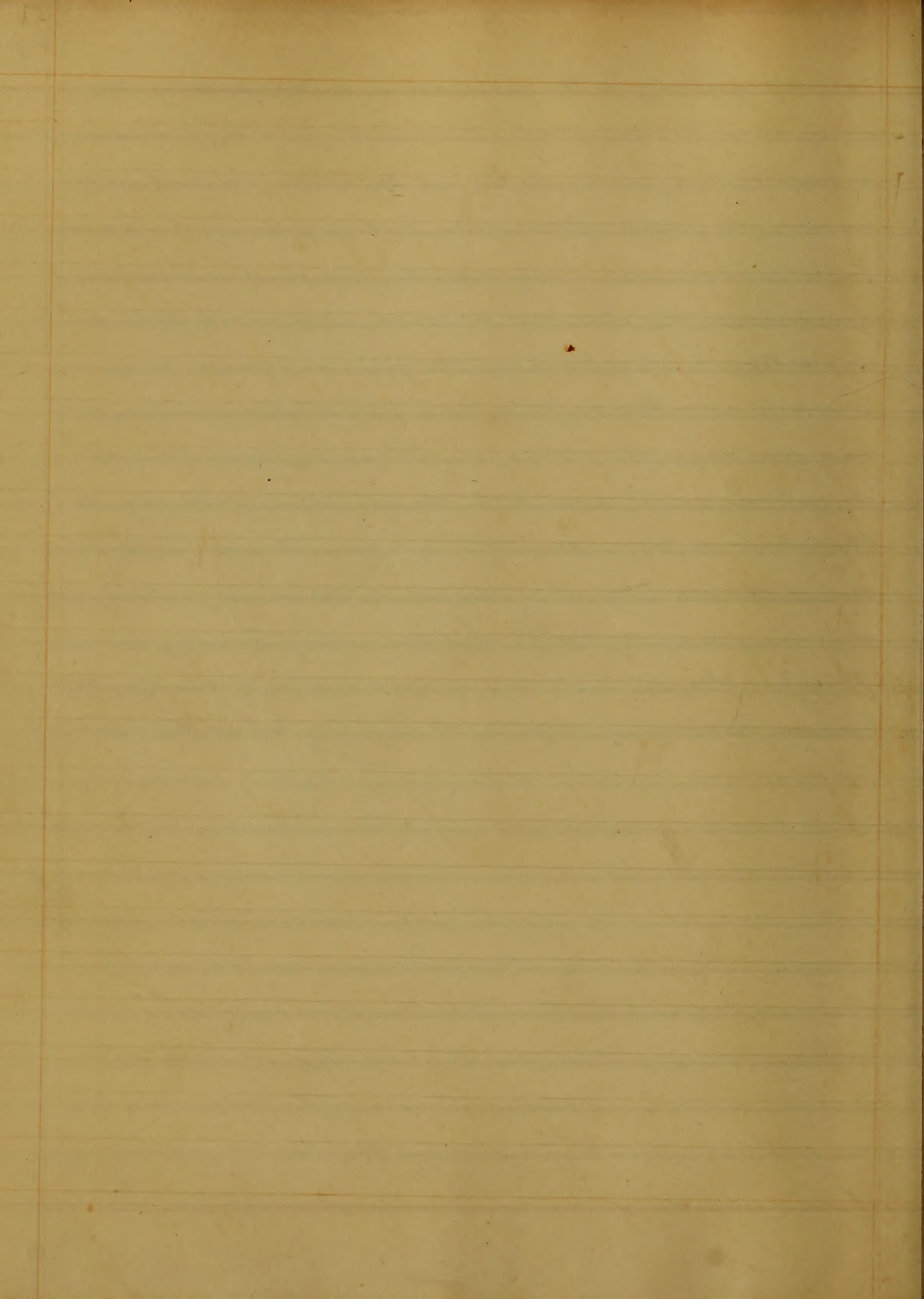


extending generally to the first valve, on compressing the  
 artery above the tumour, it diminishes, and the pulsation  
 is arrested, but when we let go the artery, it instantly  
 resumes its former appearance, and on placing the hand  
 on the tumour, we recognize the peculiar aneurismal  
 thrill. When the operator discovers that he has opened  
 the artery, he should close the vein and make firm  
 pressure over the orifice, by a graduated compress  
 and bandage, this alone sometimes succeeds; should  
 it not we must resort to the operation of tying the  
 Brachial artery above the tumour. A very interesting  
 case of this variety of aneurism I had an opportunity of  
 observing recently, at the Baltimore Infirmary, in which  
 Professor Smith with his usual dexterity operated; the  
 tumour becoming obliterated in a very short period.











An  
Inaugural Dissertation  
On Cholera Infantum,  
Submitted to the Examinations,  
Of the Honorable Provesto,  
Trustees, and Medical Faculty,  
Of the University of Maryland,  
For the degree,  
of Doctor of Medicine,  
By Edward. H. Henry,  
of Upperville, Virginia,  
— 1835 —

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and includes phrases such as "The University of", "of the", "and", "of the", "of the", "of the", "of the", "of the", "of the", "of the".



76

Professor Nathan. R. Smith.

Sir.

Permit me most respectfully to inscribe to you, the following essay, not merely because you are the professor of Surgery, in the University of Maryland, but in consideration of the very high estimate, I place upon your talents, and qualifications, in the performance of the important and arduous duties, of that chair, As well as for the great care and solicitude, entertained by you, for the progress and advancement, of those gentlemen who have had the honor of becoming your private pupils, during the present Session. As one of them—permit me on the present occasion to tender you my most sincere and grateful acknowledgments—

E. H. H....

1861

Dear Mother

I received your kind letter of the 10th and was glad to hear from you. I am well and hope these few lines will find you the same. I have not much news to write at present. I am still in the same place and doing the same work. I have not seen any of the old friends here. I have not time to write you more than a few lines. I must close for this time. Write soon. I am your affectionate son

Wm. M. M.



To

Charles E. Snow, M.D.

Sir, —

Allow me most sincerely and affectionately to dedicate to yourself also, the following dissertation. — As a slight token only, of the sincere regard I entertain for you, not only on account of your numerous virtues, ~~and professional qualifications~~, but in consequence of the veneration, I have for your talents, and acquirements, in the science of Medicine, in its multifarious and complicated branches, or departments. — That a gale of prosperity may attend you through life, and that your usefulness, may be continued to your fellow beings, for a long series of years, and that you may be prosperous and happy, is the most sincere and ardent desire of your affectionate friend —

The Author. —

London, 18th June 1841.

Dear Sir,

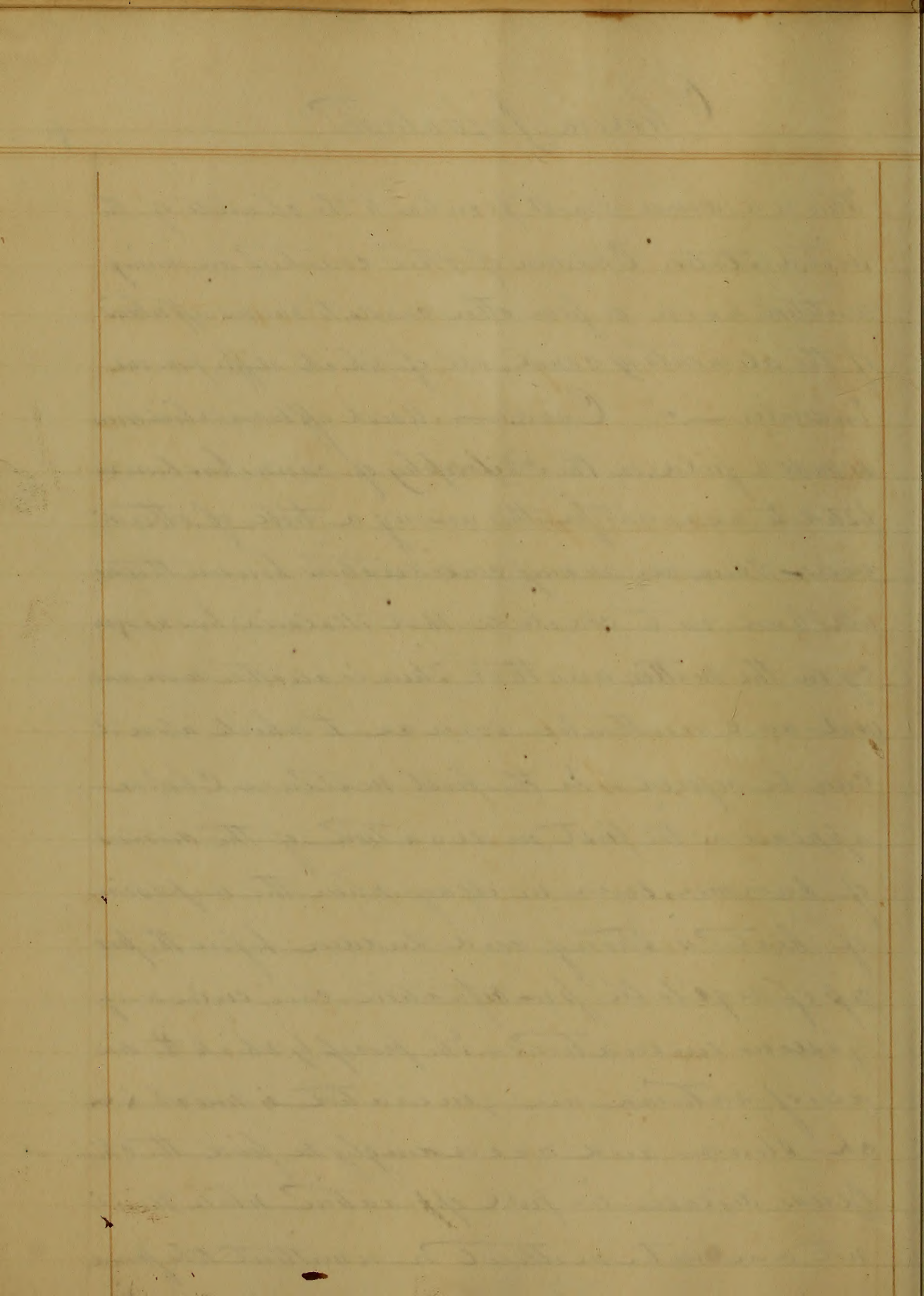
I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the proposed alterations in the regulations for the examination of candidates for the office of Justice of the Peace. I have had the same under consideration, and I have the pleasure to inform you that I have no objection to the alterations proposed, provided that the same be approved by the Board of Commissioners for the Management of the Police. I have the honor to be, Sir, your obedient servant.

Wm. Walker



# Cholera Infantum

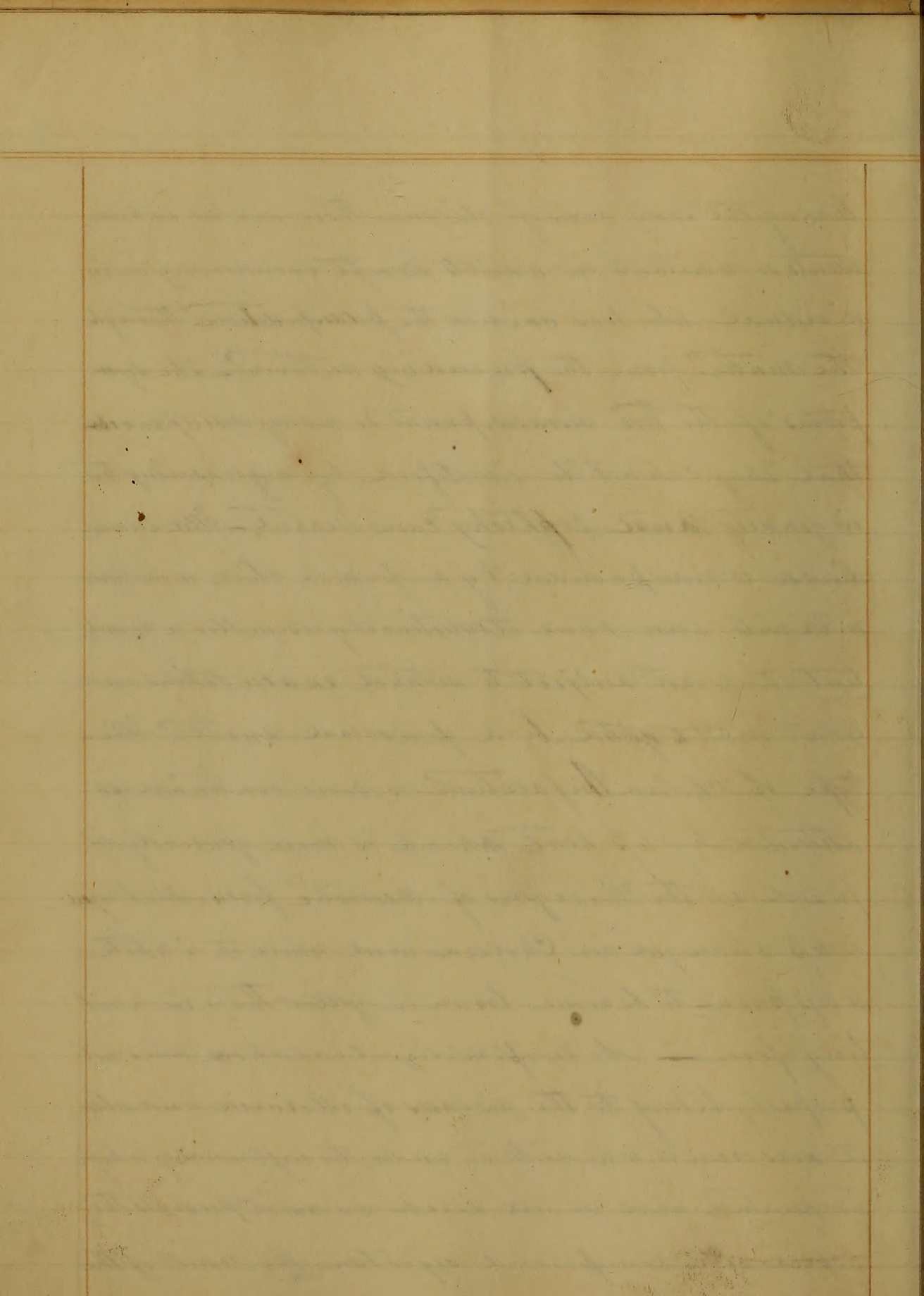
This is a disease almost peculiar to the climate of the United States, Children of other countries are during acclimation liable to some other causes, to various affections of the alimentary canal, all of which differ from one another. — Causes — Miasm effluvia which covers as wide a field, in the Philosophy of causes has been enlisted to account for this among a tribe of other diseases. There are many considerations however that would lead us to conclude that miasmata has no agency in the matter; and that there is another more natural and authentic source to which alone it can be referred. — In the first instance Cholera appears as the first indication of the diseases of summer, even in May when the impression of heat is strong and sudden before the process of vegetable putrefaction can evolve any gaseous emanations. — The process by which the diseases of autumn are generated is much slower and accordingly we find the cholera disease in full operation while there is not an intermission or remission to be found





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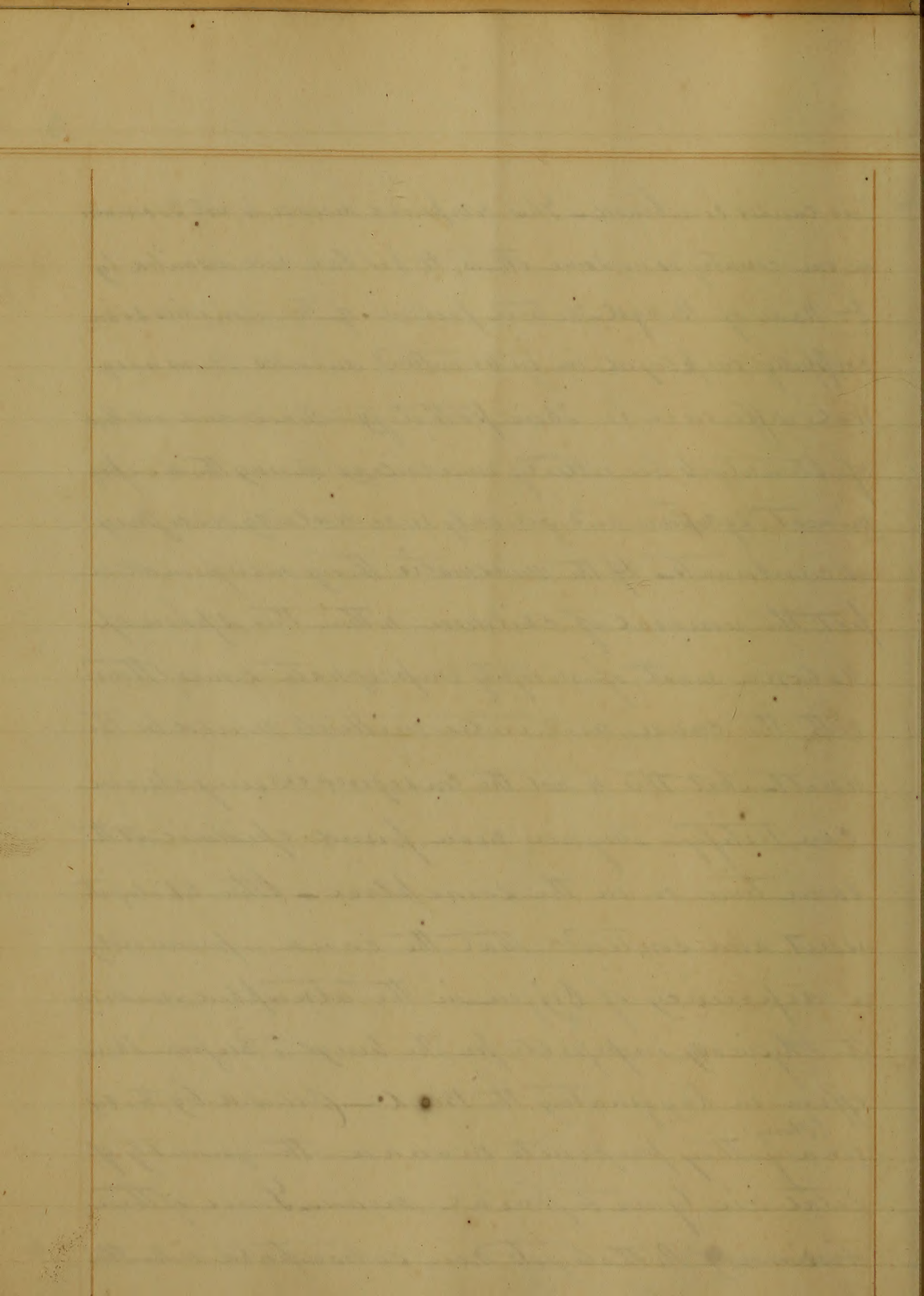
Among the early cases of Cholera there are no inter-  
mittents or remittents in adults except occasionally an in-  
dividual who has carried the predisposition through  
the winter from the preceding autumn. The sym-  
ptoms of the two diseases present so many discrepancies  
that they cannot be identified by any reasoning that  
ingenuity and sophistry can invent. The summer  
disease is more preceded by a formal chill and more  
intermittent even when it indistinctly resembles a remit-  
tent it is not subject to distinct exacerbations and  
is not mitigated by a periodical meal. The  
type of Cholera *Infantum* is more continued is  
attended by less heat which is more generally dif-  
fused in the Paroxysms of Miasmatic fevers. The tongue  
is less changed in Cholera and while it is white  
is less prone to become brown or yellow than in a mit-  
ting fever. A. Symptomatic diarrhoea does not  
properly belong to the diseases of Malaria and when  
it does occur it is in autumn under the influence of a high  
temperature and in all such cases it presents the  
aspect of a compound affection, the result of the





3.

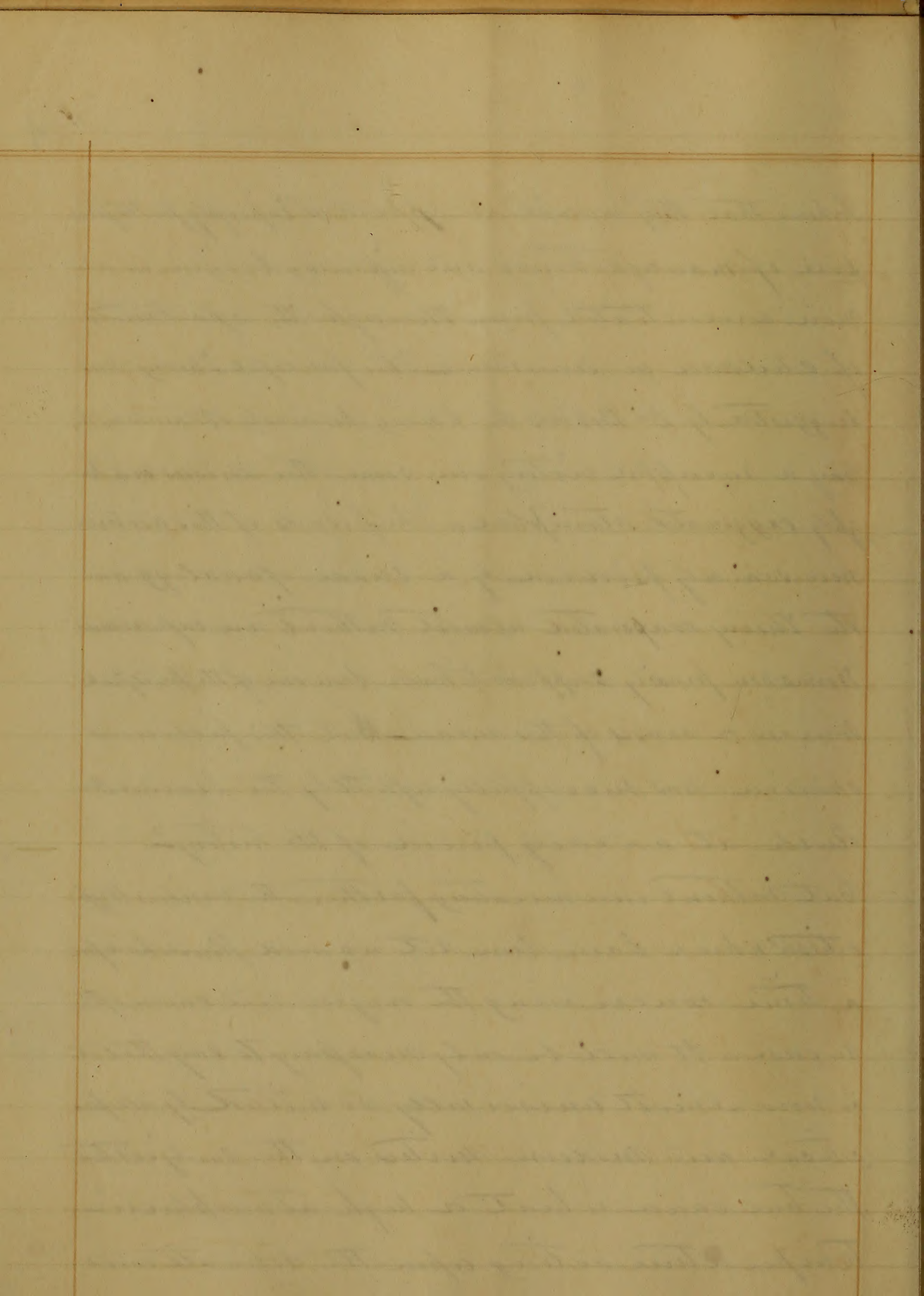
Two causes combined - This compound disease is not so common in our country as in some others, it has been well described by Dr. Wade of Bengal - The total failure of the remedies so successfully employed in intermittent diseases shows a very real difference in their pathology - Tonics and all kinds of Stimulents are utterly unavailing during the morbid intermittent symptoms and are only incidentally necessary as corroborants - If the miasmatic theory were founded in fact the removal of children within the sphere of Malaria must of necessity impregnate some of them with the cause and intermittents would be the result - That this is not the consequence every observer can testify - They are never found epidemic at the same time or in the same place - Other Eclogists assert and contend that the cause is produced by a deficiency of Oxygen in the atmosphere rendering it Physically impossible for the lungs to perform their office in Oxygenating the Blood - (Believed by them is) <sup>(Theory)</sup> they propose to increase the quantity of vital air by artificial means - Some of these Arbitrary Pathologists have so transported with this





41.

Scheme that they invented an apparatus expressly for the purpose of manufacturing and diffusing Oxygen in a more concentrated form through the apartments of children in summer. This fanciful Theory was suggested by Dr Beddoes he having previously obtained in this way a successful victory over some other disease in a highly oxygenated atmosphere. The friends of this doctrine were scarcely favoured by a shade of analogy and the Theory evaporated almost without an experiment. Worms were formerly supposed to have been one of the putrid sources or causes of this disease. But this fallacious opinion was successfully refuted by the learned Dr Rush at an early period of his history. But without enumerating farther the various Hypotheses which have been set up and flourish'd for a time concerning the origin and cause of this disease. It will be only necessary to say that it is now almost universally admitted by all practical and Modern Writers on the Subject that the true cause is heat or high atmospheric temperature acting upon the delicate and





Sensitive nervous systems of children - If we refer to the character of our climate it will show why Cholera is so much more easily defined in this than in the countries - It is not only more variable than anywhere but the vicissitudes are more frequent and the changes of temperature greater and more sudden - The disparity between winter and summer shows a contrast to which there is no parallel in any other country - The low temperature of winter accumulates the excitability and renders the diseases of Spring and summer more positive and inflammatory in the middle States, than they are in any equal area in either continent - In addition to this we have no gradual opening Spring but a sudden influx of heat in the latter seasonal months which constitutes a sudden transition to summer - In whatever part of the sensitive system the matter of heat makes its first and greatest impression it disturbs the healthful economy - of many of the most important functions of the body and through them indirectly circulates the whole system -

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6

It exerts a ready influence upon the brain is true  
through the lungs or by its action on the capillary  
system or both and in many cases the uro-  
rium commune is one of the principal seats of disease  
and its implication very often the cause of death  
The Stomach the great sentinel; the receptacle of  
all the materials to be manufactured for the suste-  
nce and growth of the body, is equally sensible  
to the cause and reflect, disease to almost  
every other department - The intestines -  
are deeply involved in the morbid process -  
and almost all autopsic examinations discov-  
er the ravages of inflammation and explain  
one of the most remarkable symptoms, the  
excessive heat over the surface of the abd-  
omen while other parts, especially the low-  
er extremities are far below the natural  
temperature - They are intimately associated  
with the liver and the whole portal circle  
becomes involved - Besides those predominant  
effects which may alone evolve the dyspepsia,

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The infantile stomach abounds with a morbid acid which further <sup>disarranges</sup> its functions and more are the predisposition.

Symptoms-

Cholera Infantum makes its appearance in various ways - In some instances it comes on as a simple diarrhoea though the stomach is also very apt to be affected, and in its more violent forms there are vomitings and purgings attended by no inconsiderable spasmodic uneasiness constituting the cholera morbus of more advanced life. In its ordinary form the fever which soon supervenes is of an irregular remittent character, the exacerbations being highest in the evening the pulse is usually small, quick, and feeble, or irritated and corded but rarely full, strong, or voluminous. <sup>There are</sup> Determinations to the brain at least this organ seems early to be affected sympathetically as is manifested by a tendency to

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Stupor or delirium or some times even frenzy - The eyes  
 also denote this cerebral affection - They are either fixed  
 or languid in expression - and when the patient sleeps  
 are half closed - Thirst is intense and for a time usually  
 unquenchable, cold water is clamorously de-  
 manded but if swallowed is instantly rejected -  
 an unequal disturbance of temperature  
 exists - The head and region of the stomach  
 and bowels being hot while the extremities are  
 cold - The appearance of the evacuations  
 from the bowels are various - The natural  
 feces are mostly retained though occasionally  
 small lumps may be found involved in the  
 other discharges, these are sometimes thin  
 and watery and at other times more thick  
 and tenacious consisting chiefly of stercoraceous  
 occasionally tinged with blood - The colour may  
 be green, yellow, white, or brown, and may  
 be inodorous, or exceedingly offensive - consist  
 only however the smell is that of rancid paper  
 - The putridity of the alimentary canal





Is sometimes so great that the ingesta rapidly  
 pass off unaltered as in tetanus. The skin on the  
 forehead is tight as if bound to the bone, the eyes are  
 sunk, the cheeks fall in, the nose is sharp, and  
 the lips are shrivelled. The abdomen becomes tense  
 from flatulence, the feet still more frequently are  
 cadaverous, apthae appear, the mind as well as the  
 senses which hitherto may not have been impai-  
 red are now obtuse or so entirely lost that  
 the child lies unmoved by ordinary excitem-  
 ent and will even allow flies to light on the face  
 without being disturbed. There is one symptom  
 which is mentioned by a very distinguished Mi-  
 strer on this subject which when it occurs is pro-  
 gnostic of an immediate and fatal termination.  
 It is a chrysothine eruption upon the thorax of an  
 immensity of watery vesicles of a very minute  
 size. The best idea to be conveyed of them is to  
 imagine an immense number of vesicles of  
 apparently produced by flitting an equal number  
 of very minute drops of boiling water upon

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The surface of the skin, and each particle produces its vesicle - another very characteristic symptom which frequently attends the last stage of this disease much more common than the one just stated but not less fatal is the thrusting of the fingers into the back part of the mouth as if desirous of removing something from the throat - There is also another which is the escape of a live worm or worms in the chronic stage of this disease if the worm come away dead there is nothing in the circumstance but if alive it is <sup>said to be</sup> a deadly fatal symptom

### Treatment

In the commencement of this disease there is manifestly a very disordered condition of the digestive canal and the evacuation of the stomach and bowels is of primary importance and to this object our attention should be early and mainly directed - We should commence the treat





Treatment with mild and gentle purgatives which  
 are decidedly preferable to emetics which were for-  
 merly much used - And of these the *Alum Ricini*  
 would seem to be indicated, in cases of the mildest kind,  
 while there is little or no fever, to allay morbid ir-  
 ritability and suppress the immoderate and exces-  
 sive discharges. The *Sinet. opii* may be occasionally  
 added to the oil - In cases of great irritability of  
 the stomach when it is impossible to get there or  
 indeed any other articles to remain, it will become  
 necessary and of the highest <sup>importance</sup> to tranquilize and al-  
 lay this excitement, and for this purpose there  
 is no remedy better and more certain than an  
 injection of warm salt and water which may be  
 repeated and continued from time to time until its be-  
 neficial effects are realized - If the injection op-  
 erates and brings fecal and bilious discharges  
 the stomach will instantly be quieted and  
 relieved - It also produces a very salutary in-  
 fluence by its revulsive and counter-irritating ef-  
 fects produced upon the rectum - An effect

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James  
James

James

James  
James

William A. Mathias

4/11

Edw. J. Howard

Francis  
Francis

Edw. J. Howard

Howard

Mathias  
Mathias  
Howard

James  
James

William A. Mathias

James James @ Headington.

James James

James

444  
444

Edward Edward

William A. Mathias  
Francis

William A. Mathias

Edward



My dear Mr Charles

Baltimore, Feb 2 1843.

~~My dear Mr~~

The receipt of yours of January 3<sup>d</sup> brought me the

news truly painful and distressing in its nature, and at a  
time too when I was least able to begeth such

unwelcome news, and to an individual who I have been

laboring under for some 15 or 20 years, Mr Kelly has

assumed a character which I fear will put an end

to my own talents and <sup>truly</sup> furnish my career here &

ensuing the poor old frame to subsist - & the

painful and truly distressing and excruciating pain

attending the case on which I am now laboring

under, It will be doubt be a death blow to the

annals economy - I am ever with kindest regards

Yours affectionately  
John G. Wood



Which is not produced by the ordinary laxative injection such as castor oil and water, not being possessed of the Stimulant property of the Salt, upon which the virtues of the Salt and water depend. - The great desideratum in Cholera the factum, is to tranquilize the stomach - If the disease has been provoked by any irritating matter in the stomach itself it should be removed by encouraging the vomiting by copious draughts of tepid water, or even cold water may be given when from disgust the patient is unwilling to use the warm drinks - but in no case should we administer an emetic - For so long as nature continues her efforts to dislodge the offending substance it can not be required as she will certainly succeed if she be aided by warm drinks, and it can never be otherwise than injurious after it has cast off the irritating materials, strong coffee has been highly recommended both to very young children and also to those of a more advanced age, it is to be given without sugar or milk - In the commencing cut of this disease the temporizing remedies such

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as the alkalis, absents or external irritating ap-  
 plications, are of no utility— If the stomach has not  
 been tranquilized by the injection or strong coffee we  
 could commence the treatment with small doses of cal-  
 omel upon the continued use of which, our principal  
 reliance of cure must be placed— This specific if we  
 may so term it in this disease should be given in  
 the most minute doses possible from  $\frac{1}{8}$  to  $\frac{1}{4}$  or  $\frac{1}{2}$  gr—  
 given repeatedly during the day— Opium should never  
 be combined with the calomel in the early or inflame-  
 natory stage— for abundant experience has clear-  
 ly shown that it is best to give the calomel alone  
 The following is a very appropriate formula for admin-  
 istering this remedy— ℞ Calomel, ꝑp̄. gr. iij, Sacchar  
 -B. i M. div. in per. xii. — one of these powders may be  
 thrown dry in the child's mouth every hour, until a purg-  
 ative effect is induced— which may be known by  
 the stools being more copious, less frequent and of a  
 dark green colour with a tenacious slime of the sa-  
 me ~~color~~ colour— when this change is per-  
 ceived the powder may be given much less—





frequently - After the bowels have been properly evacuated by the calomel and the child is in much pain or very much exhausted an injection of Laudanum must be given at night - These remedies are to be strenuously persisted in and continued pretty much after this manner until their desired effects are manifested - To allay the fever and gastric distress should they supervene we should resort to Blood letting, and the application of leeches to the abdomen over the region of the Stomach - If there is much cerebral irritation leeches may be advantageously applied to the head or temples - Should the stomach continue highly irritable and the legs and feet become cold much benefit may be derived from blistering them or by having them rubbed with Mustard and warm vinegar or cayenne pepper and warm spirits till the skin is excited and action is restored to the extremities - Having at length by our remedial means succeeded in restoring and reestablishing the healthy secretions -

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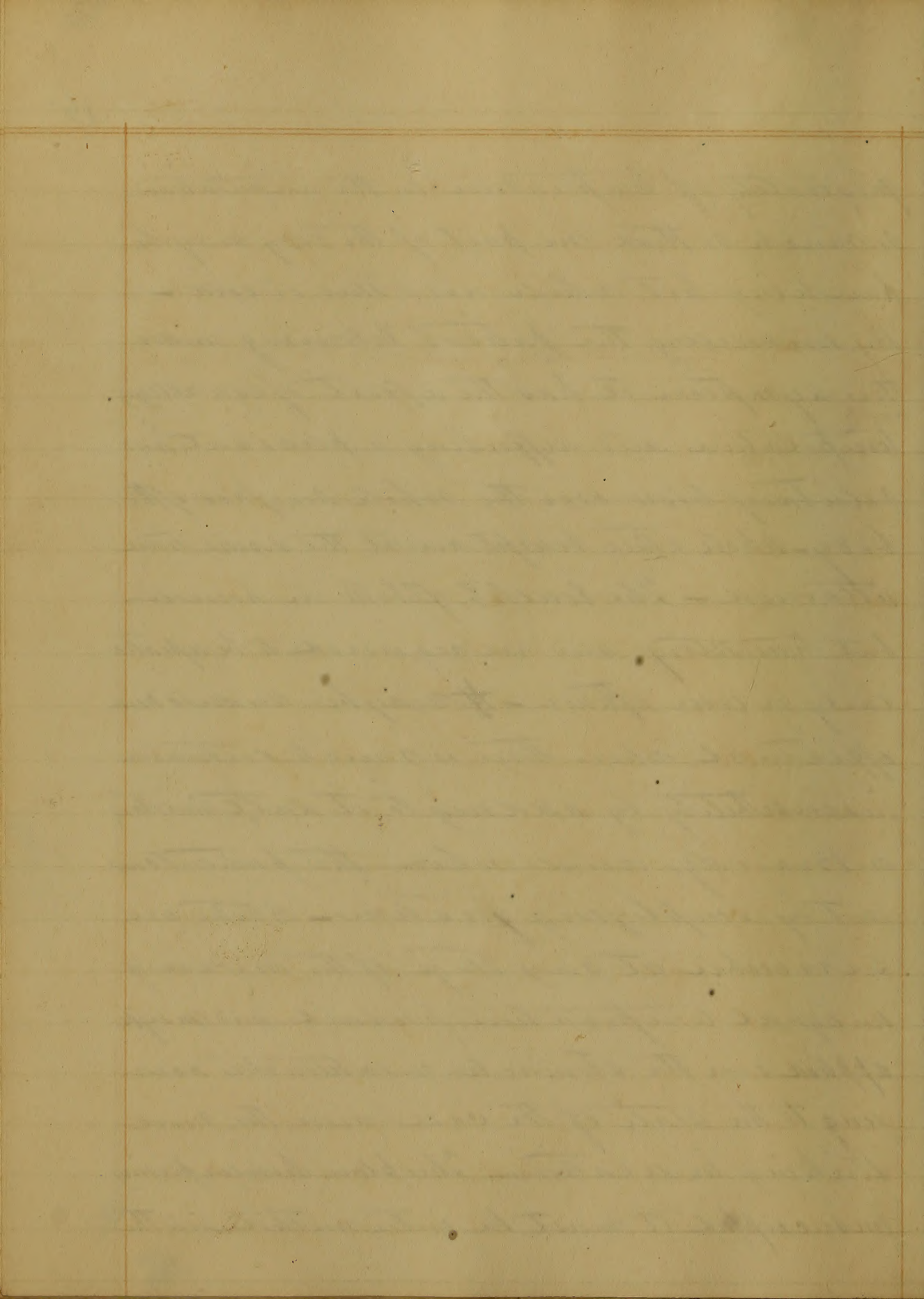


of the liver, stomach, and intestines, and thoroughly evacuated these organs, we should lay aside our purgatives and be content simply to keep the bowels in a soluble state unless there should be accumulations of bilious and other solid matters and evidences of a return of hepatic torpor and congestion when we should again resort to the mercury as our shut anchor and other mild aperients - But if the irritation continues to be excessive and productive of very painful discharges we may with much advantage administer anodyne injections frequently during the day after having previously applied leeches to the stomach. In addition to these means we should be attentive to the remedies calculated to produce a direct respiration upon the skin - For this purpose the occasional use of the warm bath is highly important - Every case of Cholera Infantum is distinguished more or less by great



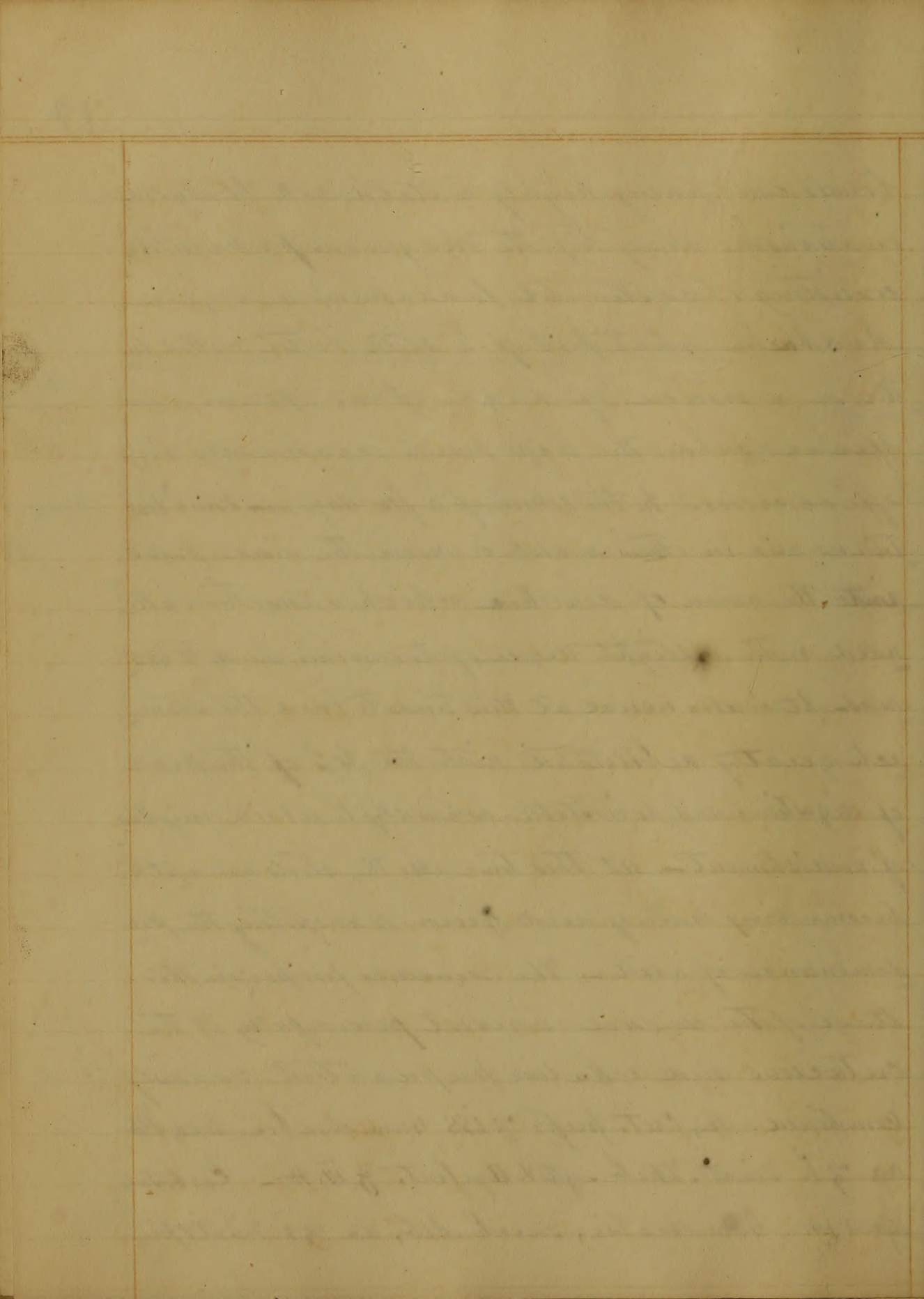


inequality of temperature in the circulation  
 so much so that one part of the body may be  
 packing hot while another is cold -  
 By immersing the patient labouring under  
 this symptom it has the effect of equalizing  
 temperature and diffusing a pleasant and  
 salutary glow over the whole surface of the  
 body - while other benefits are at the same time  
 attained - The benefits of the bath are however  
 but transitory and are required to be repeated  
 daily or even oftener - ~~It~~ may be undecid more  
 effectual when there is much cutaneous  
 insensibility by adding to it salt, Mustard,  
 or Brandy, and when the patient comes  
 out by employing frictions - Blisters are  
 serviceable at any stage of the disease if  
 unequal temperature prevail and may be  
 applied over the stomach or extremities acco-  
 rding to the state of the case and the more  
 striking indications - This plan however proving  
 unsuccessful it must be intermitted and the



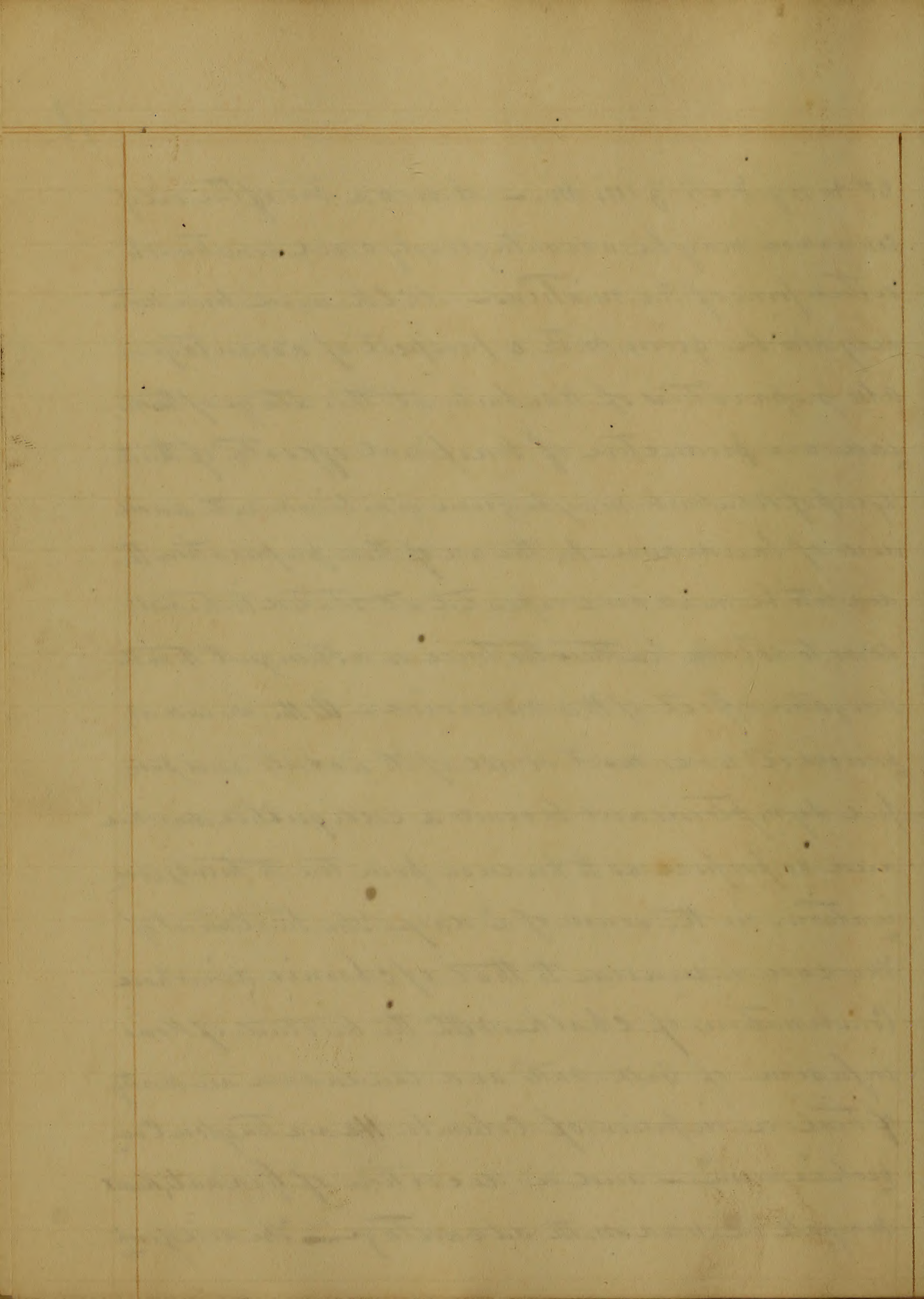


bowels continuing highly irritated with bloody ex-  
 cretions we may try the oleaginous preparation,  
 consisting of castor oil laudanum and Gum  
 Arabic or what perhaps is still better melted bu-  
 tter or a union of sugar of lead opium and  
 Spicacantha, the lead here is occasionally very  
 efficacious - In the course of a few days in some in-  
 stances and in others a week or more the disease passes  
 into the nature of diarrhoea which is sometimes at-  
 tended with a slight degree of tormina and tenes-  
 mus. It is also usual at this time to find the stom-  
 ach greatly debilitated with the loss of the power  
 of digestion and so irritable as hardly to retain anything  
 of nourishment - At this time also the stools are apt to  
 become very watery and green manifesting the pre-  
 dominance of acid - The remedies proper in this  
 stage of the disease consist principally of the  
 cretaceous and alkaline preparations, variously  
 combined. R. Creta. ppt. ℥i. ss Gum Arabic, Sacch Alb  
 aa. ʒi. Tinct. Theb. q̄ss & Ag. font, ʒ. iii. ℥ - Carb. Sod  
 gr. x. Gum Arabic, Sacch Alb, aa ʒi Tinct Opii

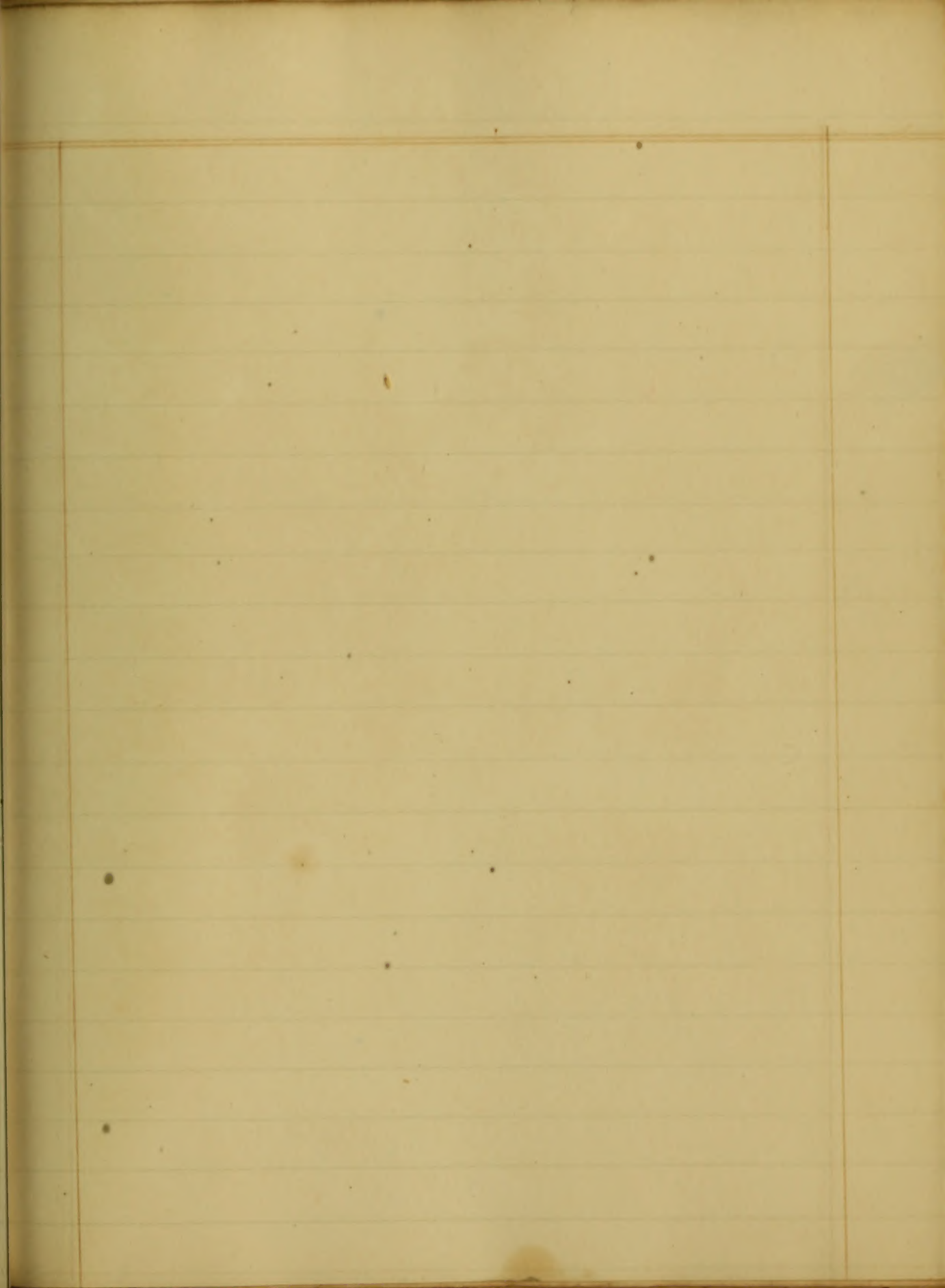


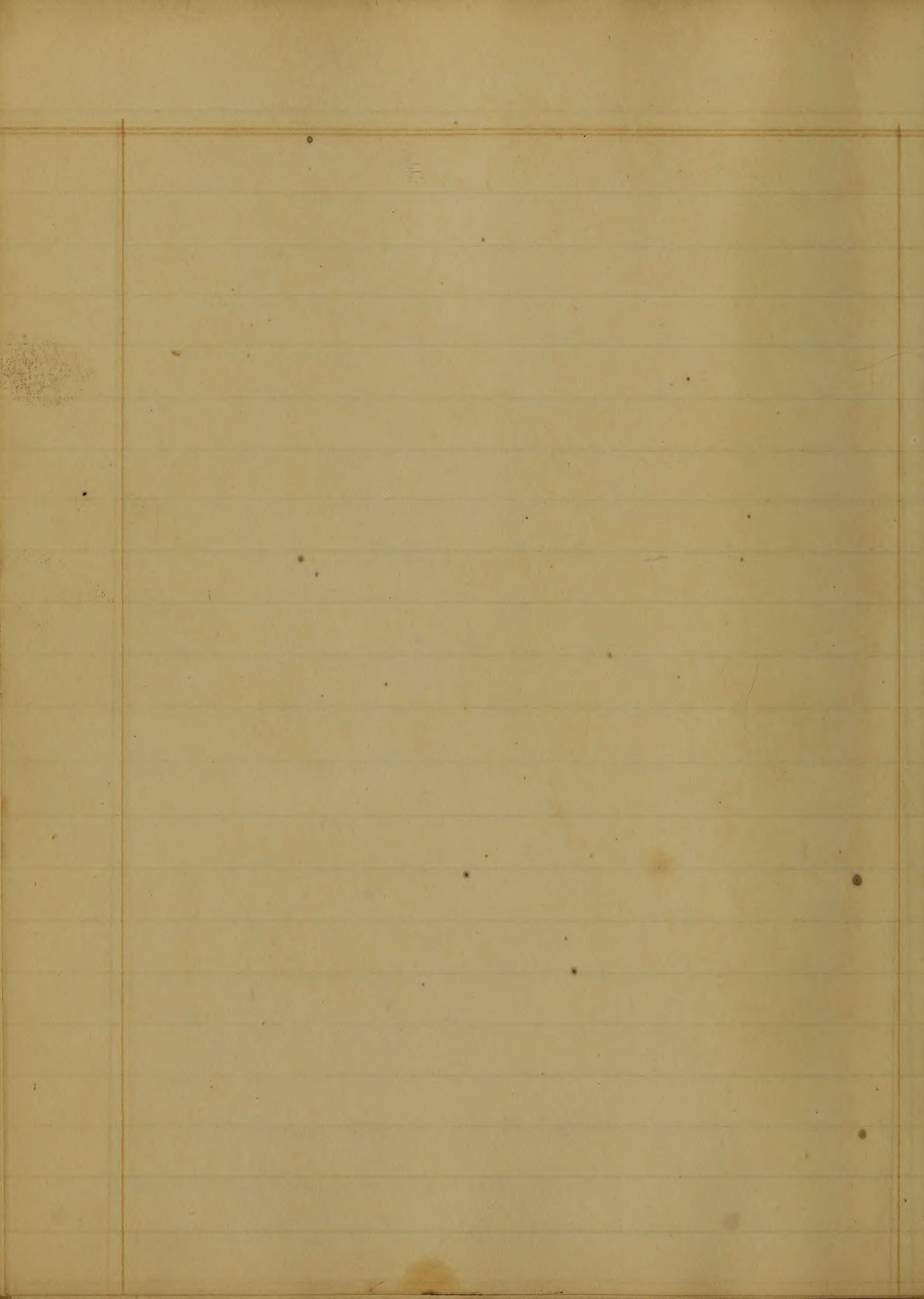


℞. ʒ. iij. ʒ. iij. ℞. - A drop or two of the oil of  
 cinnamon may be advantageously added sometimes to  
 either form of the mixtures - Milk and lime water  
 may also be given with a prospect of advantage -  
 also preparations of Rhubarb at this stage of the dis-  
 ease are productive of beneficial effects, of this the  
 Symp of Rhubarb may be given combined with small  
 doses of laudanum - In the use of these preparations the  
 dose is to be small and repeated at stated intervals  
 so as to retain rather the tonic or astringent than the  
 purgative effect of this medicine - As the disease ad-  
 vances it loses most or all of its acute and pain-  
 ful symptoms and becomes a colliquative diarrhoea  
 and so profuse as to produce from ten to twenty con-  
 vulsions in the course of a day - The treatment of  
 this case is similar to that of chronic diarrhoea  
 Combination of chalk with the tincture of Kino  
 infusion of Gall nuts and laudanum are worthy  
 of trial or infusion of Columbo - ~~Hamamelis~~ Cam-  
 pechianum - and a decoction of Granatidis  
 may all be used with advantage - The dose of each

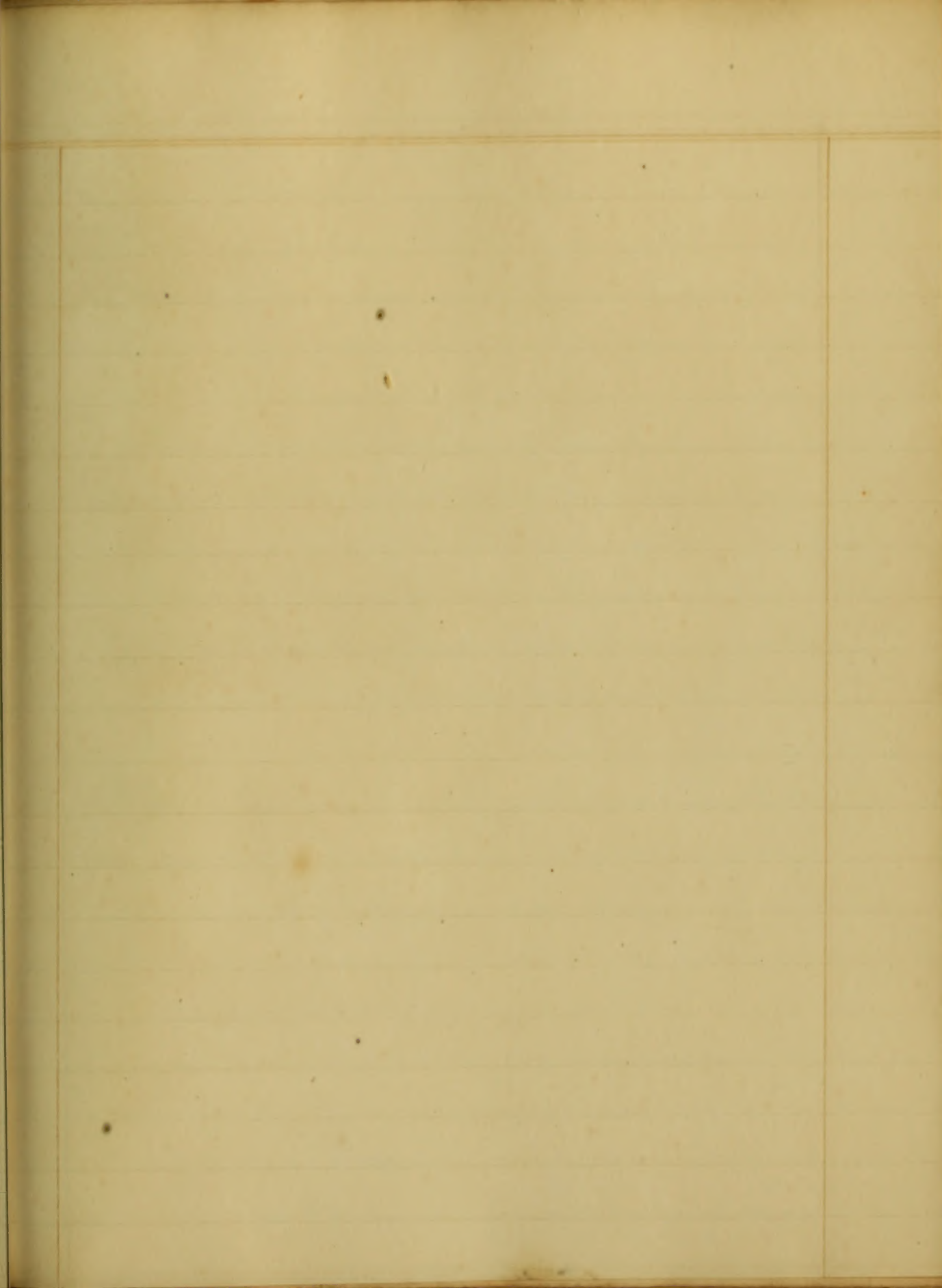


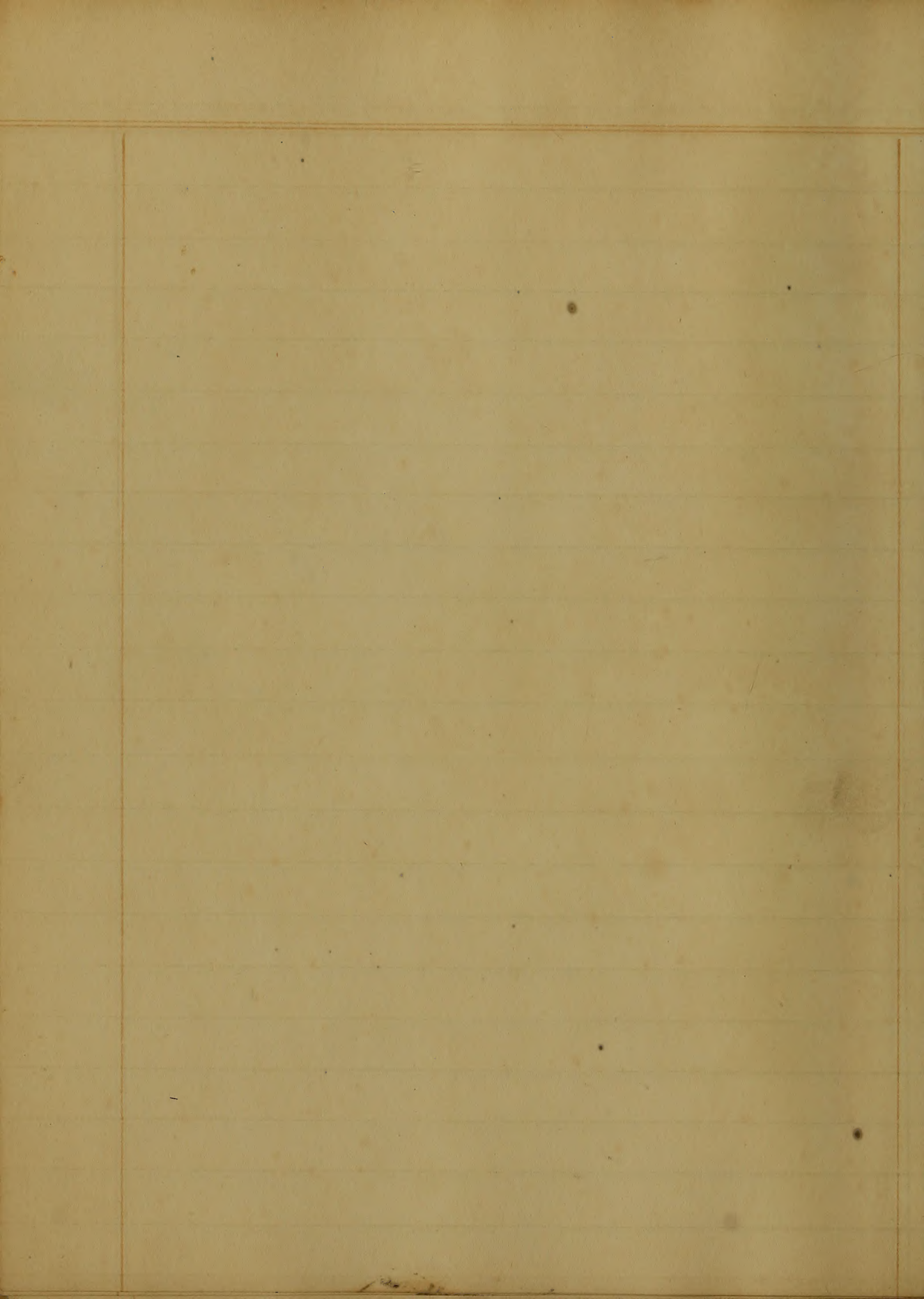






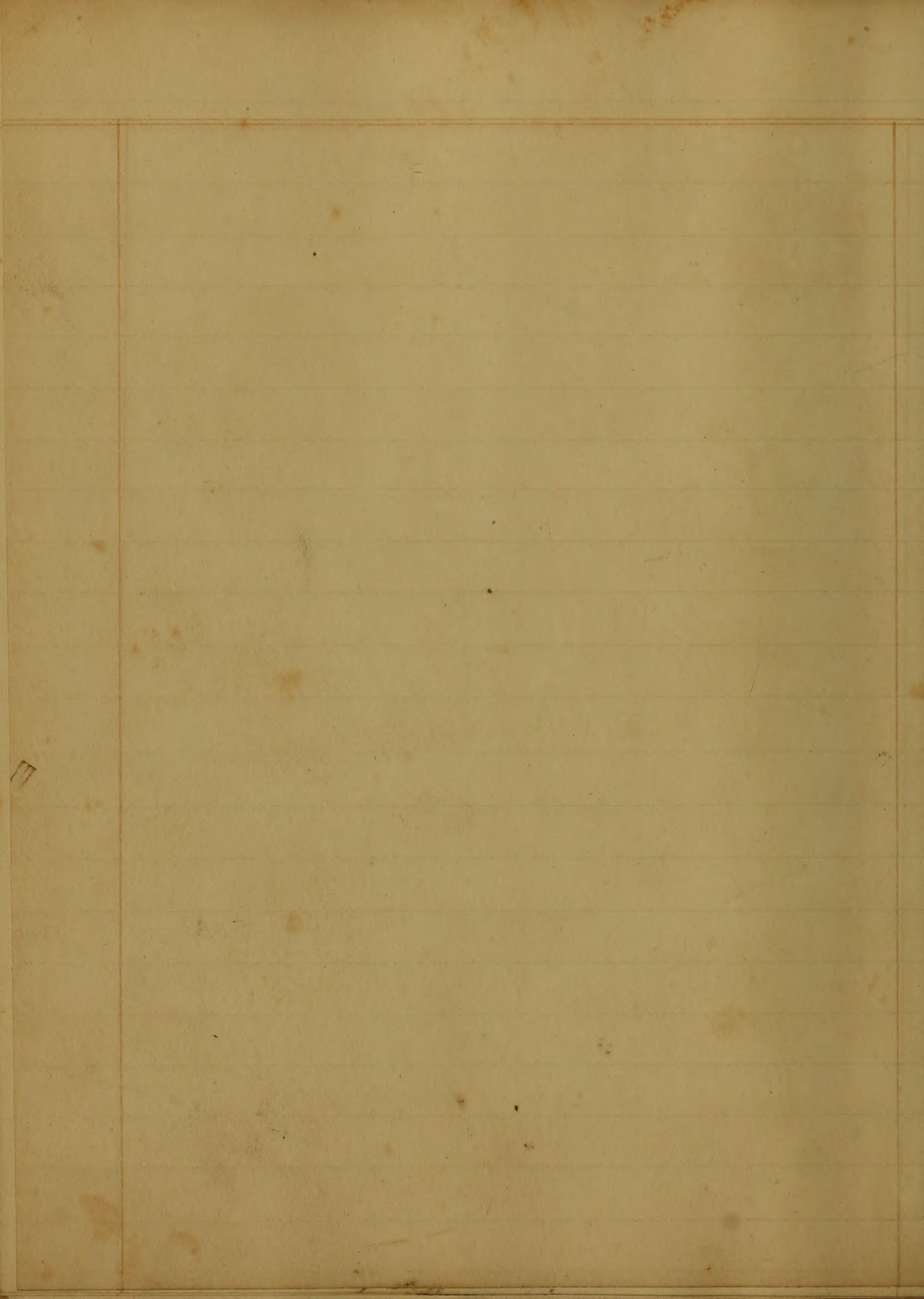








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The Provost Trustees Dean &  
Medical Faculty

of The University of Maryland  
This Inaugural Dissertation  
is respectfully submitted for Examination

By William H. Calver

1835

of Maryland





# In Cathartics and their Modus Operandi

Previous to entering into, a description, or before attempting to write, a thesis upon this or any other subject, whether pertaining to, or unconcerned with medicine, it is always necessary for the purpose of avoiding confusion, in expressing our ideas, that an accurate definition should be given of the subject, the class of remedial agents, or the any thing, upon which we purpose to write. Adopting then this method, as the only one with which we are acquainted, that will enable us to escape in description that confusion which we shake so studiously avoid.

It becomes necessary that we should define this class of Remedies. in doing which we shall give the general acceptation of the word, Cathartic; Among Authors; reserving to ourselves the privilege of making a few remarks upon what we conceive to be its improprieties.

Cathartics are defined to be those substances, which when taken internally, increase the number of alvine evacuations. This the usual definition, yet this definition we can readily conceive; when





we consider, 1<sup>st</sup> That those Substances, or at least a part of them, will when applied to the skin, exert similar effects, 2<sup>nd</sup> That walking barefooted upon a cold floor, will in many instances, be attended with like results; This surely is, not a Substance, nor is it applied internally & 3<sup>rd</sup> and finally, if we admit that which is included incontestable; that some of the depressing Passions among which may be class that of fear, which we doubt whether sound Philosophy will permit us to recognize as a Substance, has had this effect.

It follows therefore, if these Remarks be true, & we conceive them to be unobjectionable, or if they are liable to objections, we cannot fathom their source; That the definition which we have given, though that, which is usually found in books, & <sup>which</sup> though recognized and adopted by the highest Authority with whom we are though with diffidence (Compelled to differ) must be incorrect, or to say the least entirely too incomprehensible. These Remarks will suffice, what we have to





say upon the mere definition, of the word {Ca-  
 =sthetic} further & more important Observations,  
 should this subject seem to desire them, are left  
 to be made, by some one other than a Tyro in  
 his profession: one better qualified to instruct,  
 more Competent to decide, upon the correctness  
 or incorrectness, of these Remarks: (or if we may  
 dignify them so far, as to style them Arguments)  
 which we have advanced

The Anatomy of the parts, upon which those  
 agents operate their, effects when taken either in-  
 ternally, or externally, for it is upon the same  
 parts, that their external effects, are produced,  
 whether administered in either way, (in the ac-  
 =complishments, of their remedial agency, we will  
 meet with no Consideration here.

We have only to Remark, in respects, to the Anatomy  
 of the Canal; That the whole extent of its intern-  
 =al surface, is lined with a delicate mucous,  
 or bilious, membrane. from which, there are con-  
 =stantly taking place, secretions, of various kinds,  
 some, merely for the purpose of lubricating &





protecting, the delicate internal membrane, as  
I have already alluded to, from the irritating contacts,  
of Substances, which would otherwise exert upon  
it, a detestable influence, others among which,  
the gastric juice, stands most conspicuous; but  
as it has little to do with the operation of these  
Remedies, & is little affected by their operation, we  
will pass it over without further notice.

Spurred into this tube from the neighbouring veins,  
we find several important Secretions, & as they  
are increased, or modified by the action, of the  
Remedial agents, of which I am about to  
speak, it will not be an act of Supererogation,  
to give them a passing notice: The most important  
of these, are the bile & pancreatic juices, but were  
we to admit the assertion of Dr. Hamilton, who has  
written so ably upon this subject, (Purgatives) viz that  
the fluids secreted in the Spleen, pass into the duo-  
denum, through what passage, or in what manner, he has not  
thought proper to explain, we might class this <sup>also</sup> as  
he does, among the Secretions, which perform important  
offices, in the process of digestion; and also among





Those secretions, whose viscosity, or acrimony, may be obviated, or lessened, by the action of the Class of Remedies, at present under consideration.

Exterior to this tunic, we find that which has been denominated nervous, or cellular, the only office of which, appears to be that, of a connecting medium, between the Mucous, & Muscular, Coats. It is this tunic, which enables the Stomach, & intestines to perform their Peristaltic, & Vermicular motions, It is this tunic which when irritated, by the effects, of a Cathartic, coming in contact, with the mucous membrane, & propagating its influence, by contiguous sympathy, to the Muscular tunic, already alluded to, & thus Calling into action, the chief agents, in evacuating their Contents.

~~We~~ will now glance cursorily, over the mode in which this class, of Remedial agents, without which, few of the diseases agreeable to the present improved mode of practice, & consistent with the principles of sound pathology, & daily observation, at least a few only of those, at all Venues with febrile reaction, can be as Effectually, as Speedily, or as Certain





by cured. nor would we deem it proper, to recommend the withholding of these Remedies, in the greater part of the diseases which the Physician is called upon to treat, for the fear of increasing what in Reality, is not real, but apparent debility, - but to recommend their administration, to an extent regulated by the judgment of the practitioner, as the means best calculated to lessen disease - & meet existing indications.

The Ancient Writers, whose principle aim appears to have been to simplify, - or rather to generalize, & as they supposed simplify, - but in Reality to render still more difficult to themselves, than contemporaries, & successors, the study, & acquirement of <sup>the</sup> knowledge of a science, the most difficult of all others, - to obtain a thorough & correct knowledge of, & respecting which they knew little, when compared with their erroneous doctrines, which they entertained & disseminated, to the prejudice of that science, of which they were such ardent but ill-directed votaries.

They fore the purpose, of rendering more intelligible, to those who wished to become buried in their mystical lore, this class of Remedies, as well as that of

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7  
Emetics, Comprehended them both under one gen-  
eral head, & thus Medicines, so dissimilar in their  
action & Effects, were blended together, & served no  
other purpose than that of retarding the acquirement  
of a Knowledge of a Subject, which it was intended  
to facilitate. It is except that of perplexing the  
devoted Student, & puzzling his notions & Preceptors, -  
Modern Physicians, & Writers, viewing these agents  
(the Constituents of that Grand class, of our Prede-  
cessors) critically, considering their dissimilarity of  
action, their dissimilar effects & the difference of  
parts, upon which these effects, are produced, have  
attended this mode of Arrangement, & classed them  
as they legitimately belong. - This was the necessary  
Result of increased intelligence.

Cathartics act locally upon the intestinal Canal,  
but their influence is extended to the neighboring organs,  
& even to the whole System. As remedial agents, their  
principle effects, are those of depletion, removal  
of some evacuations of vitable matter lodged in the Al-  
imentary tube.

This Class of Remedies, or these Cathartics I have -





been divided by Authors, into Laxatives, Purgatives & drastics, some have arranged Enemata, also under this head as a distinct division.==

These divisions, are however entirely arbitrary, but may perhaps be of practicable advantage, by directing our attention, more particularly, to the most appropriate articles, of which this class is comprised, for administration, in particular Cases. True it is, that some of these Cathartics, denominated Laxatives, such as Mannes, Sulphur, &c. Can scarcely be made to operate as a Purgative, or Drastic in any dose, But it is also equally true, that some of them such as Cassia, Magnesia, &c will in large doses, & under particular Circumstances, produce a Purgative, & even Drastic Operation, & effects. Again we find several of these, classed among the Purgatives, which when administered in well regulated doses, produce a mild Laxative, effects.

To render more clear however, the Names & uses of these Medicinal agents, we will adopt the Arrangement already alluded to, viz. to divide them into Laxatives, Purgatives, & Drastics, each of which we





Shall give a separate, a cursory, but we hope  
an explicit Consideration.

1<sup>st</sup> Laxatives, These may be defined, Such Cathar-  
tics, as gently irritate the lining membrane of  
the Alimentary Canal, when brought in Contact  
with its Surface. This irritation is propagated, by  
means of Contiguous Sympathy, to the Muscular  
Coat, which is called into action, the peristaltic-  
motions of the intestines are increased, & this together  
with the slight exhalations produced by the first  
impression of the Medicines, Effects the expulsion  
of the feces.

2<sup>d</sup> Purgatives, These are but Laxatives, increas-  
ed with increased power of action, They for the  
most part produce their Effects in a shorter period  
than the Class already considered, the exhalations  
they occasion together with the increased mucous  
secretion, attending their operation, is greater in  
quantity, & more rapid in its Elimination than in  
the operation of Laxatives, by this increased secretion  
& exhalation, the Contents of the tube are attenuated.  
The Muscular Coat is irritated, in a stronger degree





& its contractions are correspondingly increased:-  
 It is thus that we account, for their more rapid  
 operation & the greater fluidity of the discharges,  
 than in a case where <sup>the</sup> a Laxative, had been ad-  
 ministered.

3<sup>d</sup> & lastly we have to define Drastics. These =  
 bear the same relation to Purgatives, as this latter  
 class does to Laxatives. They operate when given  
 in large or suitable doses, & without the combina-  
 tion of a Corrigent in an irritating & violent  
 manner, hence they are seldom given uncombined  
 with other & less irritating Remedies, except for the  
 purpose of obtaining their Revulsive effects.  
 It is to this class that the divisions, of the Ancients,  
 into Hydragogues, Choleagogues, Phelegmagogues, Panto-  
 -agogues, &c for the most part appertained. These were  
 merely intended to designate the parts upon which  
 these Remedies = (or those which they classed under those  
 separate heads,) were supposed peculiarly Calcula-  
 -ted to act, & also to denote the Character of the dis-  
 -charges, which they produced:

of the  
 Differences reported by particular Cathartics, for particu-





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ular parts of this tube, upon which to operate their effects. Of the Cause of this preference, we conceive ourselves entirely unacquainted; for the difference as to consistence produced by these agents, we think that we can satisfactorily account by assigning the more or less irritating effects of these Remedies, & consequently the more or less Secretion, & exhalation produced, which by its attenuating effects, cause this diversity of appearance = but why an article should when taken seek out one part of the tube in preference to another, on which to produce its effects is not explicit. Dr. Paris has indeed attempted to explain the Reason of their manifesting a peculiar disposition or tendency, to act upon particular parts, by the Hypothesis of its depending on the more or less Solubility of these different Articles, for instance he supposes that because Camphor, is more Soluble than Aloes it must affect the intestines, higher up. This it is probable might explain the difficulty were these Medicines taken by the Mouth, but why it should when injected into the Veins still display that preference, still seek out the lower part of the intestines, & there produce its





effects, requires me think some more plausible & comprehensive theory than the one just alluded to, which was advanced by Dr. Parris. & adopted in part, if not wholly, by Dr. Euse for the want of one better Calculated to explain the phenomenon.

As another argument Calculated to disprove this doctrine of more or less Solubility we may ask. Why it is that some of the articles of this class will when applied to the external surface of the skin soak through or enter the Capillary veins by imbibition, get into the mass of circulating fluids, pass to the heart upon which it acts as it were by preference, & upon <sup>which</sup> it would produce its effects were it taken per mouth, without having suffered any ~~suffered any~~ material modification, save that of detention, & without affecting the parts in which it must necessarily come in contact in its denious & circuitous course before it comes in contact with that part. organ. tissue upon <sup>which</sup> it appears destined to produce its effects?

An Electric affinity it is, which appears to be exerted by these substances in seeking out that particular part or medium if we may so call it upon which it is des-

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destined to act. By this term (Election affinity) alone  
we are enabled to explain the cause of these effects  
being produced. - But what is this Election Affinity?  
What is its nature? in what does it consist?

These are questions much easier to propound than an-  
-swer. We conceive it to be when thus applied merely  
a conventional term, calculated as well as another  
to express (or convey an idea) of the phenomenon with-  
-out an accompanying idea of the reason of its oc-  
-currence. it serves also another purpose equally im-  
-portant viz - that of shielding our ignorance -  
Upon this subject -





An original Submission

By the

Author

of the

Book entitled and entitled

of the

of the

of the

of the

of the





An Inaugural Dissertation

on

Dysentery,

Submitted to the examination

of the

Provost, Trustees and Medical Faculty

of the University of Maryland,

For the degree of

Doctor of Medicine.

By R. Harris Archer

of Maryland—

1835

Mr. Mansfield

Submitted to the

of the

Provincial Association and Medical Society

of the University of Maryland

after the report of

Doctor of Medicine

John P. Howard

of Maryland

1833



To R. H. Archer M. D.  
of Maryland

Sir

I have dedicated this Inaugural Essay  
to you from motives of gratitude, as well as duty for the fa-  
vours and protection which you have so liberally bestowed  
on me; and although I am conscious it can add nothing  
to your fame or usefulness, it will discover to you the  
high sense which I entertain of both, and the obligations  
which I owe to you for your paternal care and instruc-  
tion through every period of my life—

Accept, Sir, my most fervent wishes for your health, for  
a continuance of that life which has been so eminently useful  
to others, and for your future happiness—

Your sincerely affectionate son and Pupil

R. Harris Archer—





1  
Inaugural Dissertation &c.

Dysentery consists in an inflammation of the mucous  
intestines confined to the  
membrane of the colon and rectum chiefly, characterized  
by frequent mucous and bloody stools, tormina, tenesmus and  
retention of the natural feces.

This form of disease commences sometimes with con-  
stipation, and at other times with laxity of the bowels, continuing  
in some instances two or three days without being accom-  
panied with any painful symptoms. Sometimes the dis-  
ease comes on suddenly, with griping mucous and bloody  
stools and tenesmus, and this is most apt to be the case





but it arises from causes that act immediately on the mucous  
 membrane of the intestines. The disease sometimes commences  
 with lassitude, slight rigors, disorder of the stomach and other symp-  
 toms of fever. There is generally more or less fever attending  
 the disease, sometimes of an inflammatory type, often however it  
 is of a low typhoid grade. Little or no feces are discharged, and  
 when they are, it is in a compact and hardened form; the stools  
 consist chiefly of mucus, in many instances however there is a  
 considerable discharge of blood, and in some cases the dis-  
 charge consists almost entirely of blood.

As the disease advances the symptoms enumerated increase in  
 violence. In protracted and unobtruded cases great prostra-  
 tion occurs; the pulse becomes small and frequent, the abd-  
 men tender, the tongue is covered with a dark fur, the countenance  
 pale and cadaverous, the extremities cold, hiccup and finally death.





Cause- obstructed perspiration from cold is a frequent cause of dysentery- Dr. Keble remarks "a cold and moist autumn succeeding a warm and dry summer is peculiarly favourable to the production of dysentery"- Miasmata have frequently an agency in the production of this disease- The same author remarks "Dysentery seems very often the production of the united influence of Koino miasmata and atmospheric vicissitudes."

Unwholesome and indigestible articles of food, and unripe fruit are also causes of dysentery, and all articles which irritate the alimentary canal-

The disease is said sometimes to be contagious, and Dr. Cullen<sup>say 175</sup> it is probable that a specific contagion is to be considered as always the remote cause of dysentery". His sentiments however on this subject are different from my own. I do not think <sup>we have sufficient proof to warrant us in the opinion that</sup> the disease can ever be propagated by a specific contagion.





4

Post mortem appearances. The examination of persons who have died of dysentery has clearly shown that the seat of the disease exists in the alimentary canal. The mucous membrane of the large intestines and particularly of colon and rectum exhibits signs of inflammation - In some instances more or less inflammation exists throughout the whole intestinal canal. In some violent cases marks of ulceration appear in the large intestines.

Diagnosis. The only disease with which dysentery may be confounded is diarrhoea. From this however by a little observation it may be easily distinguished. Diarrhoea chiefly consists of evacuation of feculent matter, for the stools form when watery contain dissolved feces. In dysentery the stools are retained and the evacuation consists in a small portion of mucus or mucus and blood attended with





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great pain and tenesmus. Dysentery is also attended with more firm  
than diarrhoea.

**Prognosis.** The prognosis is formed from the intensity of the  
symptoms, the colour and smell of the stools, and strength of the  
patient. Colligative and fetid stools are indication of great  
danger. The appearance of bile and the natural feces indicates  
a favourable change, more particularly when attended with a  
diminution of the tenesmus and tenderness of the abdomen, and  
general moisture of the skin.

**Treatment.** The treatment will vary according to the state of  
the system and nature of the disease as modified by causes  
increasing it. Bleeding, if there be an inflammatory diathesis  
or excess of action present, may be necessary. This however  
should be resorted to with great care, in dysentery as it oc-  
curs ordinarily in temperate latitudes, it is seldom necessary





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Purgatives under judicious management are peculiarly advantageous in this disease. It is of the greatest importance that the bowels should be well evacuated through the whole course of the disease; the secretions of the alimentary canal are of an acid and highly irritating character, and, if permitted to remain there, cannot fail to increase the violence of the disease. Cathartics which simply evacuate the contents of the bowels without any drastic effects are to be preferred. Sulphate of Magnesia may be used with advantage for this purpose, it should be given in small and repeated doses till the bowels are evacuated.—

Castor oil is perhaps to be preferred to the former purgative. When symptoms of hepatic derangement exist as is often the case, six or eight grains of Calomel should be given follow-

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in the course of three or four hours by half an ounce of castor  
oil to which twenty drops of laudanum may be advantageously  
added when there is much irritability of the bowels.

The addition of laudanum will assist the operation of  
laxatives by preventing that violent griping and spasmodic  
contraction which the mildest purgatives sometimes  
produce. Rhubarb from its astringent quality and its con-  
sequent tendency to leave the bowels in a castive state, should not  
be used. In chronic dysentery from its tonic effects it may be  
used with advantage.

Diaphoretics are very important medicines in this com-  
plaint. Such is the intimate connection between the intestinal  
canal and the skin or external surface of the body, that an  
increase of excitement in the one is attended with a diminu-  
tion of action in the other; hence in dysentery the skin is in a dry

constituted state and dependent of nature the surface  
the nature the interest part. All the best of the  
any person may be obtained by a grant and uniform  
the other papers necessary should be recorded of course  
perhaps the best single person or person for the purpose  
This book was a well written treatise on the subject  
the following books recommended by Dr Chapman

The Duke's ...  
History: ...

The Duke's ...  
of the ...  
...  
the action of the ...  
...  
After the ...



be evacuated by further laxatives it may be given in combination with astringents as already mentioned.

In the chronic form of dysentery opium is a medicine of great importance.

Calomel given with a view to its constitutional effects is a valuable remedy in dysentery. I have myself seen two cases cured by calomel given in frequent doses till ptyalism was produced. The symptoms rapidly vanished as soon as the constitutional influence was manifest. Calomel is more particularly useful in dysentery of hot climates, where the disease assumes a highly inflammatory grade and passes rapidly through its course - Arsenic in general a mercurial action should be produced as soon as possible.

Blisters to the abdomen are sometimes of great advantage.





cases attended with much pain and soreness.

Emollient applications may also be used with benefit.

Emmata are highly useful in the treatment of dysentery, they should be of an emollient and soothing nature, such as infusion of flaxseed, barley water, sweet oil and laudanum &c.

Some physicians recommend injection of cold water into the rectum.

~~Emollient~~ and mucilaginous drinks should be freely allowed through the whole course of the disease.

All irritating and indigestible articles of food should be avoided.

When acute dysentery runs into a chronic state, we are to be governed in the treatment by the state of system.

In general the tonic and stimulating plan is the proper





when this fails a salvation should be resorted to. —

I now close this short and imperfect essay, accept  
gentlemen, Professors in the University of Maryland, collec-  
tively and individually the best wishes of a friend. —











The 25th

To the Honble Secy of the Treasury  
at the Dept of the Treasury  
Washington

Dear Sir

I have the honor to acknowledge  
the receipt of your letter of the  
21st inst. in relation to the  
proposed purchase of the  
land in the District of Columbia  
for the purpose of building  
a new building for the  
Department of the Treasury  
and in reply to inform you  
that the same has been  
referred to the Board of  
Public Works for their  
consideration and report.





An essay on

The Typhoid Fever.

Which prevailed in the Baltimore City & County  
Alms House - Dec. & Jan. 1855 & 6.

For the Degree of Doctor of Medicine  
in the University of Maryland.

By  
John A. Saylor  
Maryland





To.

Dr. Allen J. Dowie

Robert G. Catell. &

James L. Catell.

This Essay is inscribed  
As a slight but sincere token of regards

By

W.P.

5.

But there is a...

that is...

...

...

...

...

x



It is not with the hope of introducing any thing in relation to one variety of a Clap of Disease long interesting to the Profession - that the following observations are made

To expect to add ~~anything~~ to the existing amount of information on "Fetide diseases" which since Medicine has been degraded with the name of "Science" has been a subject of uterine investigations by minds imbued with philosophic acumen - is the least of my Anticipation

Indeed in the laboured investigations of those who have stood high - deservedly high - for their professional acquirements the young adventurer would find but little to cheer him on his ~~essay~~ - Their logical deductions and medical facts have been alike illusory - the one a tissue of error the other what an eminent individual terms the most dangerous of all things - "false facts"

The period in Medicine so confidently and enthusiastically predicted by Dr Rush had not yet arrived - If the "flower blooms on the Banks of the Ohio or Monongahely" that is to cure "Epilepsy & Phthisis Pulmonalis" it "casts its fragrance to the sweetest air" and "old age and Casualties are not yet the only outlets for Human life"

All the erudition that has been brought to bear upon this the most important of ~~Human~~ Maladies - it must be acknowledged has fallen far short of reducing it to a demonstration - Upon no subject within the range of Human investigation, can we observe that variety of opinion - that diversity of Hypothesis - which the History of the Theoretical views of FEVER presents -

Theories upon Theories have arisen - swayed for a time the minds of Men - sunk again and given place to others





Which in this turn have "Slept the sleep that knows no waking" So innumerate men the most prominent of the Theorists - which now by Common Consent Consigned to the "Lomb. of all the Capulets" would be irrelevant to the present object. Suffice it to say - that after the lapse of Centuries - we find the Prof<sup>s</sup> divided in relation to the proximate Cause of Fever. - While the one confidently appealing to post. Mortem appearances boldly assert that it is always dependent upon local Inflammation - in other words the mere sequela. of a primary local affection - The other with no less confidence affirm that it is a specific or Idiopathic disease - of which Inflammation may be the consequence - but not necessarily an antecedent link in the Chain of Morbid phenomena

The obstinacy - the uncompromising spirit - which had characterized the controversy growing out of this diversity of opinion is little creditable to those whose only object should be the "search after Truth" It is only for the profession a better spirit prevails - and its members begin to learn that something may be gathered in Medicine from things which at first may have seemed absurd - Chemical - Perhaps in nothing could the old Maxim of Horace - "Eo. utilissimus in Medicis" be observed with more advantage than in the management of Disease

After all that has been said by - ~~Modern~~ Theorists - By Cullen, Brown, Darwin - Rich. & Broussais - What is Fever? Like Life we know it only by its results The revelation of its essence is beyond the Ken of Human wisdom. It is only by observing its Phenomena -





That the series of events - the assemblage of symptoms which go to form it in all its various modifications and protean shapes. that a proper diagnosis can be formed and of consequence, a judicious system of management adopted -

There can be very little doubt but that Fever may or may not be complicated with a local affection while it must be admitted that some parts of the Organism from the extensive range of sympathies they enjoy are always predisposed to participate in, and take an diseased Action. It is no less true - that Fever may exit and even go on to a fatal termination, without the Prudence of the Doctor - being able to detect any morbid change of sufficient importance to account for that termination. The hypothesis of the eminent Physiologists & Pathologists therefore that would make every irritation wherever excited reflected upon the mucous membranes is not borne out by facts -

The Fever of which I intend speaking particularly was Epidemic in the Baltimore City & County Almshouse, in Dec. & Jan. 1835 & 6. In its course and general phenomena I am not aware that it presented any new or important modifications - which have not been accurately described by Authors who have written on the subject. Its initial stage differed in no degree from the ~~Intermittent~~ <sup>Intermittent</sup> which usually usher in the ~~Seasons~~ <sup>Seasons</sup> of our Climate - Cold alternating with flushes of Heat. Pain in the Head and Back - an uncomfortable sense of heaviness, more most commonly its Characteristics in the first stages of attack -











The winter months were quite ripe in the Hospitals soon after its appearance however its influence could be traced in every variety of shade from its simplest to its most intense grade of violence.

From what has been said it will be perceived that the disease of which I am speaking naturally resolves itself into two varieties. Each so participating in the general characteristics as to render their identity evident while a sufficient diversity was presented to afford distinct subjects for consideration.

The first of these varieties corresponds more nearly to the disease so ably described by Dr Southwood Smith in his Treatise on Fever. "as Synochus Gravior with Cerebral affection" The latter to the "Erythema Typhus" of Dr Armstrong. "Pure nervous Fever" of the older writers - "Ataxic Fever" Boissieu

If a diversity of opinion has obtained among Physicians in relation to the pathology of Fevers - their Etiology is certainly enveloped in no less obscurity. In those Fevers ordinarily met with - we are content with believing that they owe their origin to a peculiar condition of the atmosphere - denominated Miasm. When we have said this - we have arrived at the "re plus ultra" of our information. What that Miasm is we know not and in all probability never shall know.

Opinions directly at variance have long been maintained with regard to the causation of Typhoid Fevers, the point so warmly contested, and yet sub-judice is - Is it contagious? So certain is Dr Eberle of the truth of the affirmatives of the interrogatory - that he





introduces its contagious nature into his definition of the disease. So thought Dr Armstrong at one time - But it seems that subsequent observation and a more intimate acquaintance with its various phenomena, has induced him to renounce opinions once advocated and to believe with Dr J. Mason Good and many others - that Typhoid like other varieties of Fever may be produced by the vitiated condition of the atmosphere.

It must be granted after all, that arguments not devoid of plausibility have been urged on either side. The weight of evidence seems to be decidedly with Dr Good whose opinions have been stated above,

We must suppose that all Fevers - all diseases indeed were originally produced by some cause altogether apart from the agency of Contagion. And since Cases are met with in all Miasmatic districts - where Fevers of every Type merge into Typhus - without having been within the sphere of Contagion - we are compelled to conclude that Typhoid Fevers - like Cholera Maligna is referable to some unappreciable condition of the Medium that surrounds us,

Professor Dampier in speaking of the agency of the Atmosphere in producing the Multipartite Fevers referred to its agency very aptly compares it to a "Complex Lock the union of a certain set of numbers of which is necessary for the production of any given effect." In the generation of any one class of disease this union may or may not take place in a series of years,





It is probable however, that the Atmosphere is not alone concerned in the production of this disease - Some Predisponent Cause. Apart from its agency must also for its full development -

In nearly all the Cases in which Typhoid Fevers have prevailed Epidemically other Causes have been superadded to the Atmospheric Condition - want of suitable diet - ventilation &c - The Epidemics which have broken out in Armies - as in the French Army during the Russian Campaign was owing in no inconsiderable degree to some one of these Causes,

Such being the uncertainty of the Etiology of Typhoid disease - it would be manifestly difficult, to assign any ineluctable Cause for the late Epidemic in the Baltimore Almshouse - The first well marked case of the disease was brought in from the City in the state of Collapse - Shortly after sporadic Cases sprang up in all the various Hospitals in the House, To the superficial observer, the fact above stated would be proof as strong as "Holy writ" that the disease was capable of propagating itself by a Contagion Specific and peculiar - Such an Opinion however, is not borne out by a majority of intelligent observers, and does not rest upon a basis sufficiently fortified by Argument, to secure its general adoption -

It is to be regretted that sufficient data to enable us to arrive at just Conclusions in disease are so often wanting - We have indeed, an abundance of "facts" upon nearly every topic of our investigations But they are facts that have been so Ascertained as





to suit precisely some Opinion previously made up or to tally with some long Cherished Hypothesis - Look at the History of the Disease under Consideration - Consult those Authors who have professedly made it an object of study and you will perceive that the Proximate Cause is so adjusted as to Coincide precisely with previous received Notions -

It is "passing strange" that the Knife of the Anatomist should invariably exhibit under the eye of Clutterbuck a morbid Condition of the Brain Constant - Invariable -

It is no less singular that the same Knife in the hands of Broussais should have demonstrated the pathological Condition to have been - Not in the Brain - But in the Mucous Membranes, Why is it that we have Assertions made with so much boldness in relation to the "Local habitation" of this disease. When the "Argumentum Quis" the Scalpel of the Anatomist is appealed to in either Case? from whose decision there can be no appeal -

Perhaps it is but too evident that the desire to build up new Theories is paramount to every other consideration. Theories founded upon a few isolated facts - Hence applied to a whole Class of diseases as fixed and invariable -

That the proximate Cause as maintained by Broussais is sometimes present; no one who has had an opportunity of witnessing Post-Mortem appearances can pretend to doubt; and it is no less certain that the Condition asserted by Dr. Clutterbuck to exist invariably is true in many very many Cases. But there are other Cases in which both the one and the other are





a case, when examinations after death exhibit neither Cerebral lesion or Gastro-Intestinal inflammation

It is therefore I think entirely consistent with the varied post mortem appearances to conclude, that Typhoid Fever may or may not be complicated with local affection - that when there is a local affection it may be located in any part of the organism, which from causes continually in operation was most predisposed to take on diseased action -

To illustrate the pathology and treatment of the disease as it existed in the Almshouse a few cases taken from many similar are as subjoined

I - D - Aged 24. was admitted into the Almshouse Oct. 13. Labouring under Syphilitic Rheumatism which had been greatly aggravated by one of a most nefarious set of empirics into whose hands he had unfortunately fallen, Under the usual mode of treatment he recovered and was on the eve of being reported from the Hospital. When the fever began to prevail in the House, - The first premonitions of the disease were experienced on the 8th of December - When first visited the "Cerebral affection" was manifest -

Fever of Synochal grade - Pulse frequent - Tense Tongue - dry - papilla projecting - Skin dry - Face flushed - eyes suffused - and patient complaining of "great misery in the head" - 12.3. Blood was taken from the arm - Cups applied Sig. male - and a brisk Cathartic of Calomel and Jalap administered

It is unnecessary to detail the symptoms as they were presented from day to day - a general outline of the case - will convey a sufficient idea of the





the condition of the Patient and the means employed to relieve him -

After the first or second day of the attack the prominent symptoms of Inflammatory fever were laid aside. and the ~~Potass~~ assumed - that low - irritated - Typhoid type - Characteristics of the Epidemic

Cups applied over Epigastrium. And a Blister to the Back of the neck with a view of relieving the Condition of the Brain which seemed the principal sufferer -

He was put on the use of small doses of Calomel + Ipecac. repeated at frequent intervals during the day his face and hands sponged with Cold water occasionally - and Cold Acidulated drinks used ad libitum - Bowels opened with *Op. Reini.* or mild enemata - Several days elapsed with any Amendment in the now perilous Condition of the Patient -

Wine and Carbonate of Ammonia was ordered by the attending Physician which was given during a part of the day. When observing an exacerbation of all the unfavourable symptoms its use was discontinued and the Calomel resumed as before - and continued until its Constitutional effects were manifested

The Tongue then became moist and began to clean about the edges - *Sp.* soft and covered with a gentle perspiration - Cal. discontinued - Patient's bowels kept soluble by Castor oil + enemata - and rigid Diabetic rules enforced - The Patient Convalesced rapidly and was reported entirely well -

The above case is interesting since it shows conclusively that the practice of brooding





powerfull stimulants cannot always be resorted to with impunity. An interesting question also arises in relation to the probable agency of Mercury in bringing about the happy termination of the disease. When various means are employed at the same time, to effect the same object it is obviously difficult to assign to each the precise agency exerted.

From the view of its pathology. Revulsion and depletion general and local were evidently indicated, But shall we assign a subordinate part to the Calomel and give to the Revulsion. and the Palliative means employed the credit of the Cure? or the contrary?

With regard to the salutary influence of Mercury in Febrile diseases, we find the profession by no means unanimous. There are those indeed who positively affirm that this agent from its sedent properties is highly deleterious. It is asserted by a distinguished member of the profession - "That Mercury by exerting its own peculiar diseased action is Capable of breaking in upon the Morbid Continuation. that may be existing in the system" Now if this be true. As there can be but little doubt it is. the inference would be clear, that since in the case just cited. The Constitutional influence of the agent was induced. and that "Constitutional influence" was followed by an immediate Amelioration in the Condition of the Patient - that the result ought to be attributed mainly to its agency.

Revulsion - General and local bloodletting. when any determinations can be detected - the free use of cold palatable drinks. occasional Spunging are all essential means in combating the disease But from the





result of this and many similar Cases I am compelled to infer that ~~to~~ <sup>from</sup> the early and judicious administration of Mercury we may articulate more than from any one of the Curative means in our power. - Indeed I may here state a fact in Confirmation of the utility of this agent in the disease. that out of the number of Cases treated, not one terminated fatally in whom Phylism was induced -

I - B - Aet. 39. of Intemperate Habits was received into the Hospital Dec. 15<sup>th</sup>. The early symptoms presented nothing peculiar. Slight and transient pain in the head - uncomfortable in whatever position he assumed Pulse small - frequent - and irritable - Tongue dry and presenting a dirty white appearance - Saline Cath. was administered which operated well - To combat the sinking of the vital powers, which could be distinguished at every visit - The patient was put on the use of Cal. Carb. Ammonia & Camp - Wine was freely administered - But without arresting in any degree the downward tendency of the disease, On the 8<sup>th</sup> day he was largely Mistaken - Dry Cups over Epigastrium to no purpose - the transient hallucinations became low muttering delirium And Singultus with Sub. sultus tendinum, Closed the scene on the 9<sup>th</sup> day -

Autopsy 6 hours after death -

The Stomach and Alimentary Canal exhibited no lesion to which the result could be attributed

The Liver - the usual appearance of hard drinkers

The only thing remarkable in the Cavities of the





abdomen was the Condition of the Spleen,

This Viscus was enormously enlarged and had undergone a species of Remolishment. Appearing indeed to have been entirely disorganized. Presenting nothing but a dark-unctuous fluid retained by the peritoneal Coat of the organ. Lungs - perfectly healthy

Brain - presented nothing morbid.

The above I conceive a pure case of Idiopathic Fever. the Post. Mortem was Conducted By Drs R G. & J L. Cabell. - Both accustomed to morbid appearances - and prepared to detect traces of disease if any existed, None however was detected to show any the fatal termination of the Case could be attributed. The Spleen, as we have stated in the Post. Mortem - was extensively diseased

But the Knowledge of the Physiology of that viscus and the uses to which it is inured in the Economy is so limited, that we cannot say with any degree of certainty how far its pathological condition was concerned in causing death,

The Experiments of Magendie indeed would go to prove that the Spleen can be removed from the living Animal without causing any departure from the ordinary health of the Animal

The Analogy however is not strict since in the one case it is cleanly excised by the hand of the operator and in the other it is destroyed by diseased degeneration. What was the proximate Cause of death cannot be ascertained. When it is said to be febrile irritation and a wearing out of the system under that irritation - so far it is true But when





we push our enquiry further than that. we get into the  
 vague-undefined region of Syphilis in relation to a  
 disease- the invariable pathological condition of which  
 as I have before remarked- the most acute Mercurians  
 have failed in detecting- The case is interesting  
 since it shows that Fever and inflammation although  
 usually the concomitants of each other are not  
 indissolubly united- That the one may exist without  
 the supercession of the other-

Upon the practice in this case I shall  
 say nothing- It was pursued by a very intelligent  
 young Physician - Dr. Robert G. Cabell, - is sanctioned  
 by high authority, and has been attended with  
 happy results. In truth the result of our cases  
 in this variety of Syphoid Fever, would not justify  
 any conclusion in relation to the employment of  
 Stimuli. In some Cases the patient recovered in  
 others they did not- and it was manifestly impossible  
 to assign them precise agency to them-

From the general Consideration of Stimulants  
 however I am induced to believe that there are  
 comparatively few Cases in which they can be admin-  
 -istered with advantage or even with safety-  
 particularly those termed "diffusible" Although  
 I believe a few are rarely to be met with, which run  
 its course without inflammatory Complication some where  
 yet such Cases do occur- and in such perhaps  
 Stimulants are highly useful remedial agents - When  
 their use is directed by a wise Caution-

But when Phlogosis does exist - whether it be





in the "mucous membrane". the Brain is elsewhere  
 I cannot conceive how stimulants can do right else  
 than augment the very condition. that the Physicians  
 wish to obviate, We are told the patient is sinking  
 and must have something to sustain life-- Will  
 stimulants infuse new life into the tissues? Will  
 they impart that vigour necessary to support an Anti-  
 phlogistic treatment? They Cannot. On the contrary  
 they hurry on the Circulation. produce irregular dis-  
 terminations - and since there is already a centre  
 of fluxion set up in the system - upon the old  
 axiom - "ubi irritatio ibi fluxus" they cannot fail  
 to be highly pernicious -

In order to form a more  
 correct idea of the pathology of that variety of the  
 disease in illustration of which the first case was cited  
 the ~~symptoms of a case~~ "Post mortem" of a case the  
 symptoms of which were very many Analogous is  
 subjoined -

Patient died on the 13<sup>th</sup> day of the disease  
 Autopsy 4 hours after death,

Stomach healthy - Mucous follicles in the oesophagus  
 and ileum slightly enlarged - ~~giving rise in some~~  
~~degrees to the appearance called by~~ ~~the~~ ~~name~~ ~~of~~  
~~"straggled intestines"~~ Large intestines healthy - Contents  
 of Thorax healthy - Upon making open the  
 Cranium the Brain was found much congested  
 The ventricles contained bloody serum - and there  
 was indeed more than usual evidence of great  
 inflammatory action in that organ.

The Brain then in this variety of Typhoid Fever





being the seat of inflammatory action the Treatment  
 prescribed in the Case referred to, was clearly indicated  
 by its Pathology. By this the Practitioner must in all  
 Cases be governed - Without this the Beautifull fabric  
 of Medicine - rared as it has been by the Labour and  
 Wisdom of Aps, degenerates into An insignificant  
 Empiricism -

The Number of Cases treated was something <sup>like</sup>  
 35 or 40. And the Average loss about 4/6. To those  
 acquainted with the Kind of Patients <sup>usually</sup> met with in  
 the Hospitals of An Almshouse in the vicinity of  
 a large and Populous City, the Average loss will  
 not be a matter of surpris —





An Inaugural Dissertation  
on  
Spinal Irritation,  
Submitted to the examination  
of the  
Provost, Professors, and Trustees  
of the  
University of Maryland,  
for the  
Degree of Doctor of Medicine  
by  
Montrose Pallen.

1835.

Examined & approved.

E. Hedding





## Spinal Irritation.

Perhaps there is no statement of the disease, as it is in its early  
stages, and in which it is much less to be expected, than  
the class of diseases which has been called disease. But that we  
have been able to learn from previous knowledge, is that they are  
dependent on some derangement of the nervous functions, and  
that their cure requires the administration of cordials, tonic  
and sedatives, in some instances.

The lessons of modern Physiology and of Pathology, which is only  
the former in a medical state, have already done something  
for the subject, yet we still have in some cases, more with our  
modern state of medicine, succeeded in connection with  
preparation, which perhaps would puzzle the author to solve,  
but which even at best are useful purposes, that of effecting  
allowing all important organs into the domain of the  
art. Nevertheless we are not to despair of arriving at the  
conclusion which will be of immense practical utility, that  
the steady light of philosophical induction before, from the  
position of medicine already begun to feel that he is not  
groping his way in the dark.

It was not until the middle of the last century that the  
of the subject was directed by St. Denis, to Paris, which  
he communicated the Ombres. Twenty years afterwards  
disease was more accurately described by P. Kitzing, who gave  
it the name of brain disease, known by the name of  
disease, generally known as that of brain disease, which was  
named in the last century.





# Spinal Irritation.

Perhaps there is no department of Medicine, in which so little has been done, and in which so much can be effected, as in the class of diseases which has been called nervous. All that we have been able to learn from former Nosologists, is that they are dependent on some derangement of the nervous functions, and that their cure requires the administration of cordials, tonics, antispasmodics; "et omnia id genus..."

The labours of modern Physiology, and of Pathology, which is only the former in a morbid state, have certainly done something for the subject; yet we still hear the terms "nervous centre" and "common centre of relation," enounced in connection with propositions, which perhaps would puzzle the author to solve, but which serve at least one useful purpose, that of effectually silencing all impertinent enquiries into the Arcana of his art. Nevertheless, we are not to despair of arriving at conclusions which will be of immense practical utility. With the steady light of philosophical induction before him, the practitioner of medicine already begins to feel that he is not groping his way in the dark.

It was not until the middle of the last century that the attention of the profession was directed by M. Andie, to that painful <sup>affection</sup> which he denominated Tic Douloureux. Twenty years afterwards, the disease was more accurately described by Dr. Fothergill, who gave it the name of Faciei Morbus Nervorum Excrucians. The name which it generally bears is that of neuralgia, which was conferred on it by Chaussier.





For a long time this disease was located in the three great divisions of the fifth, and in the facial portion of the seventh pair of nerves. But modern investigations have established beyond all doubt that all the nerves whether cerebral, spinal, or ganglionic, are liable to its attacks. It has also been established that it may originate in any of the nervous centres and be distributed to their ultimate ramifications, or conversely, arising from those distributions be reflected back to the centres. If the disease originate in either of these modes it will of course present a simple form; but it sometimes involves many nerves of the same, or of a different class, and then it will present a complicated form. It is not our intention to enter into the details of the different varieties of this disease; it is sufficient for our present purpose only to notice those in which irritation of the spinal axis is concerned either primarily or secondarily.

In such cases "the pain is seated in the superior part of the chest, about the clavicle or scapula, or it runs down the arm sometimes even to the fingers, or passing forward, either the superficial integuments or the Mammaræ in females, one or both suffer extremely by exquisite soreness, or intense daily pains".\* Or there may be pains in the intercostal region, or in the integuments of the chest - 'In the parietes of the abdomen - In the lumbar muscles, and in those of the hips - In such cases if an exploration of the spinal column be made there will be found very generally much tenderness on pressure.† This is also observed in some cases, when the irritation commences in the ganglia or branches of the Sympathetic nerve.

\* Chapman on the Douleur. A.S.M.S. August 1834.

† Seale on Neuralgia.





The irritation in such cases being propagated to the spinal axis by means of the free anastomoses which exist between the two systems. Nevertheless we are enabled to form a correct diagnosis by observing the accompanying symptoms. They are such as denote a deprivation of the organs deriving their nerves from this source. "The heart and great blood vessels violently palpitate, or are seized with true neuralgic pain, the lungs suffer as in Spasmodic Asthma, or the attack being more comprehensive, we have Angina Pectoris - The stomach and bowels are assailed by cramps or colics, or Gastrodynia" or the kidneys, Urinary bladder &c may be affected. As regards the pathology of this disease there is considerable obscurity - Pacy, Vaidy and others state that it is caused by undue vascularity and phlogosis of the nervous tissues. Armstrong referred it to a similar condition of the brain - We do not pledge ourselves for the correctness of this view - We are aware of a certain train of phenomena, and to them we look for our indications of cure - If the Symptomatology of disease will point out the organs effected, we should not trouble ourselves too much with visionary and hypothetical speculations, but we should seek out the best means of relieving them of their morbid action - In the variety of Neuralgia now under consideration the exquisite tenderness of the spinal column most clearly indicates that there is considerable irritation in the important organs thence seated - The other morbid manifestations show that the irritation has radiated to the ultimate ramifications of the nerves. Or, conversely this order may prevail - With the knowledge of this fact, the Therapeutist can proceed with some





confidence in the administration of his remedies. He has in view two objects - first, to remove the irritation which is seated some-where in the cerebro-spinal system, but most generally in the spinal axis itself, - and second, to break in upon the morbid concatenation caused by the irregular action of the nervous system. To meet the first indication, he has to resort to the class of revellents, and he uses them as near as possible to the part which exhibits the irritation. Of these, the local abstraction of blood by means of cups or leeches ranks very high - In addition to the revulsive effect, there is also a depletive one, and if there be an exalted vascular action in the nervous sheath, this is very desirable - Moxa applied to the spine is highly spoken of - Tartar Emetic ointment, or Croton oil applied to the same place so as to produce pustulation - and other revulsives would perhaps be found to succeed as well. ~~as others~~ - All that is wanted is the revellent effect and the means are of no consequence - To accomplish the second indication the Therapeutist would select some article that would direct the nervous afflux from the affected part, and by creating a new impression break up the morbid chain which has been existing - The whole class of tonics has been used for this purpose - But the most effectual is the Carbonate of Iron - This substance, if administered in sufficiently large doses, and persevered in for some time will rarely fail to satisfy the most sanguine expectations - We do not think it necessary to mention the various articles used - We are satisfied that the treatment we have mentioned, if at the same time we pay attention to the state of the bowels,





will be found to be the most successful - We may however state that Galvanism applied by means of Mansford's plates has lately been used with some advantage - and it is of course worthy of a trial -

The disease which illustrates spinal irritation in a more striking light is that which has received the appellation of Hysteria - A <sup>very</sup> ~~common~~ <sup>important</sup> ~~disease~~ of the greatest importance - So far from arising, as its name would indicate, from the Uterus (УТЕРУС), there are many instances of Hysteria in which that organ is not at all concerned - We would prefer to call the disease Cerebral Neuro-spasm, as proposed by Brachet,\* but for the fact that there are numerous cases in which we have no spasm - The term Neuropathy which has been proposed, is also objectionable, since it is too vague; it can be applied ~~to~~ as well to any form of nervous irritation as to the one under consideration - We must therefore for want of a proper word, and in conformity with custom, continue to use the term Hysteria -

It is needless to describe the symptoms of this disease - They are so various as to have procured for it the name of Protean disease. So variable is it, that it assimilates every form - As regards the proximate cause of this singular malady there has been much diversity of opinion - Many, nay almost all from the days of Hippocrates to modern times consider it to be seated somewhere in the Uterus - But in what it consists very few agree - The ovaries, the Fallopian tubes, the lining membrane, the muscular structure &c have all been charged with being

\* Recherches sur la nature et le siége de l'Hysterie &c Paris 1832.





the cause of the disorder - Yet Pathological Anatomy by no means sustains the charge - Hysteria may exist for a long time and there will not be found any change in the genital organs of woman - The disease has prolonged itself for a considerable space of time and only ended with the life of the patient, and yet the most patient investigations could not discover any change in those organs - It is true that in other cases, changes have been noticed, but it is our intention to show that they are by no means constant. The same remarks apply to all the other viscera, to the stomach, to the spleen, to the liver &c. In fact the whole phenomena of the affection plainly evince that no one of the viscera is exclusively the seat of it - Nor is the disease in all the organs at the same time, because if it were, there would be functional derangement of them all, which is not the case - There would be organic lesion in them all which likewise is not the case - If again one organ were the exclusive seat of the disease we should find that organ constantly affected - whereas we know that no one is more liable to be affected than another - In truth one is <sup>at</sup> after the apparent seat of the disease and then another, and the symptoms arising are so characteristic of a real lesion seated therein, that often the Physician has <sup>his</sup> attention directed to them as the primary. If then the organ affected be not the seat of disease, some of its tissues must be - The lesion must be in the cellular membrane or in the vessels carrying the circulating fluids, or in the nerves.





The question is then which is the tissue affected - If it were the cellular tissue the malady would be more simple, since it would be more displayed in the parts where this tissue is most diffusely distributed - But the contrary prevails, the organs which seem to be mostly affected are almost deprived of this tissue - such as the Uterus - the Ovaries - the Liver - the Spleen - and the Gastro-Pulmonary mucous membrane - whilst the parts mostly liberally supplied with cellular membrane can be diseased for a long time without causing Hysteria - The disease cannot exist in the lymphatic system, for the temperament in which these vessels predominate, rarely suffer from Hysteria - The same remark applies to the sanguine - nervous temperament - Nor is the acute inflammation, which is attendant on affections of this system, ever the cause of Hysteria - The disease cannot be in the blood, because if it were, the same effects which it produces to day, would be produced tomorrow, and continually until the morbid matter had been eliminated from the system - Hysteria however recurs in paroxysms, which have sometimes very long continuance and sometimes very long intervals, and it therefore cannot depend on the mass of circulating fluid - Being seated then in not one of these tissues or systems, it must be fixed in the nervous system - And if we look to it we can explain the symptoms which accompany Hysteria - They are in fact phenomena which are dependent more or less directly on nervous influence; such are the spasms, convulsive contractions,





globus hystericus, strangulation, suffocation &c. - Whatever may be the organ diseased, the nerves which are distributed to it receive a modification - which they reflect on other organs either through their own anastomoses, or through the Cerebro-spinal axis -

The question that next presents itself, is to determine in which nervous system the irritation is seated - Pathological Anatomy renders us no assistance here, but Physiology will. If we examine minutely the functions executed under the presidency of the Cerebro-Spinal axis we shall discover that all the phenomena of Hysteria are dependent on the influence of this nervous system - They are those we have enumerated, sensations of pain, of the ball in the Oesophagus (globus hystericus), strangulation &c. - These all indicate to us that the malady is located in this system - But the most important pathological fact that we have to remember is that the irritation is often located in the Medulla Spinalis than in any other part of the system - and we have then as we have in Neuralgia tenderness on pressure - Our indications of cure are the same as in that disease - If other symptoms should arise, owing to the extensive sympathy which exists throughout the whole animal economy, we must treat them upon the great general principles of Medical Science - Our object in this paper is merely to glance at certain phenomena generally found in the disease, and which certainly deserve some attention - We will give a few cases extracted from the Note Book of our Preceptor in Richmond, Virginia, and which go to show the efficacy of the plan we have laid down -





I. Sarah Haulstock (coloured) had been for a long time labouring under suppressed menstruation, with incontinence of Urine - She seemed to suffer no inconvenience from the want of the Menstrual flux, save that at the regular menstrual period she was attacked with rheumatism - Pains of the joints & of course of the limbs, with swelling - so as to disable her from walking - Six ounces of blood were taken from the region of the spine, by cups. After which a blister was applied immediately over the spinous processes of the Vertebrae - In two days afterwards the Catamenia appeared - and here rheumatism disappeared - In this case no examination of the spine was made, and we therefore cannot state, whether tenderness did or did not exist -

II. Mrs Byer was attacked on the 17<sup>th</sup> of September 1832 with violent pain in her right side - she was then near her menstrual period - As there had not been for several days any alvine evacuations, she was directed to take a dose of castor oil, which did not produce any effect, other cathartics were resorted to, - drastics were used freely, - together with Venesection - For thirteen days there was <sup>no</sup> faecal discharge - the pain in the side remaining the same - At this period examination of the spine was made, and it was found exquisitely sensible to the touch. A small quantity of blood was abstracted by cupping, after which tartar emetic ointment was rubbed on every three or four hours - In about 30 hours pustulation had commenced, at which time copious discharges from the bowels occurred - the pain in the side at the same time disappearing - The Catamenia came on in a day or two afterwards.





III. Miss P— had been for several years afflicted with a diarrhoea, occurring at the menstrual period; the discharges at these periods appeared to be vicarious, consisting of blood, and resembling in some respects dysentery - This state of things sometimes continued for two or three weeks, and on several occasions prevailed continuously, for two or three months. This was accompanied with harassing cough - Her disease had been treated uniformly as one of the bowels without any permanent benefit, and latterly so constant had her cough become, that her friends feared the existence of consumption - The menstrual flux recurred regularly, but with extreme pain, constituting severe paroxysms - Examination showed the region about the lumbar Vertebrae, as well as the upper dorsal to be tender - Tartar Emetic was rubbed over the affected parts, the bowels kept open by laxatives, the Acetate of Morphia being given at bed time in composing doses - This treatment was commenced a day or two after the conclusion of the catamenia; the next menstrual period recurred without pain; there was no return of the diarrhoea, nor has there been any since - In this case expectants were used also, but this was done in reference to dyspeptic symptoms which arose - The expectant used was Staughton's bitters - The latter principle acting as a tonic -

IV. Rebecca Twisdale. (old) In this case the catamenia was too exuberant - constituting (if there be such a disease) Menorrhagia - the disease lasting from two to three weeks, and leaving scarcely an interval between the regular periods of menstruation - The discharge was considerably darker than usual, resembling





gumous blood - A blister was applied to that portion of the spine which was tender to the touch, kept open for about ten days, by saivn ointment - At the next menstrual period, the flux became of proper quantity, and consistence -

V. ellis R - Aetat: 16. This was a case of Amenorrhoea - The abdomen was so swollen as to present the appearance of a woman considerably advanced in pregnancy - There was obstinate constipation - The lumbar Vertebrae were found tender - Tartar Emetic ointment applied - R/

Chlo: Pulv: {  
Myrr: Pulv: { aa ʒj  
Sapon: Coct: cum aqua Q. S.

ʒt. pul: No 12 - quantum capiat duas quaque nocte, hora decumbendi - In about four weeks the catamenia came on, and have continued since without any interruption -

VI. Mrs. Phippen - Came on with dysury - frightful spasms - On the occurrence of the first paroxysm, bleeding was performed freely - Assafoetida and sulphuric Aether exhibited - Spasms still continued with unabated violence - Bladder emptied by means of the catheter - Rubefacients applied to the spine and spasms ceased - they recurred again on the next evening - Tartar emetic and Cantharidin applied to the spine, the spasms ceased as did the dysury and they have not since returned -

VII. Miss Lucy Ann M - This case is one of Neuralgia. There was constant twitching about the eyes and inability to





to keep the eyelids in a state of rest - Great pain about the stomach. -  
The irritation was so constant, as seriously to affect the eyes,  
producing inflammation of the conjunctiva - The young lady  
had never menstruated -

Rf Carbonat: Ferri ℥ij  
Serp: Vigin: Rad: ℥iv  
Vin: Alb: Oj

Heat Mistura cyas sumatur cyathus mane quotidie.

The part of the spine which was tender to the touch, was directed  
to be rubbed with tartar emetic ointment - In about  
four weeks all these disagreeable symptoms disappeared, and  
her menses came on -

It may be argued that in some of the cases the other  
remedies cured the disease - But if there be such things,  
as predicates and conclusions, we are warranted in  
believing the treatment truly effectual - We are not contending  
for specificism, far from it. All that we mean to say  
is, that the same symptom whenever it occurs is to be  
met by the same remedy - and ceteris paribus that it  
always will occur in Hysteria - If the treatment be not  
alone effectual, why have all the means hitherto resorted to,  
failed to cure hysteria? Why venesection? Why Antispasmodics?  
It is true they may relieve a paroxysm, but that is not  
curing a disease. Our remedies must be addressed  
to the primary source of the irritation -  
"Sublata causa, tollitur effectus"





13.

An objection which may be urged against this treatment we have spoken of, is that neither a blister, nor tartar emetic ointment are sufficiently rapid in their operation, to relieve an hysterical paroxysm - which although not dangerous is certainly ~~not~~ very distressing - This however can be obviated - We can resort in such cases to the Oleum Terebinthinae, and to Sinapisms. These create a revellent effect very soon and rarely fail to alleviate the sufferings - We then can use more permanent revulsives, such as we have described -

It is worthy of remark that in most cases of Hysteria there is no pain felt in the back; on the contrary surprise is generally expressed when the request is made that the spine may be examined - You are assured that there is no pain, no soreness whatever - Yet sometimes when pressure is made the pain is so exquisitely manifested that the patient cries aloud -

Spinal irritation exists in other diseases besides those we have mentioned - Not as a constant attendant but as an occasional complication - We have seen it in some forms of Dyspepsia - in Chronic Bronchitis - in the sequelae of Pleurisy - In all these cases we think it deserves some attention - The following case will illustrate that far a much better manner than any reasoning can do.

Benjamin Hobson (tailor) aetat: 26. plethoric habit, was attacked with Pleuritis - He was bled freely, and the usual remedies administered for the relief of the disease - The disease





terminated in resolution - but left a state of system resembling, somewhat, mania a potu - There was great restlessness, aggravated by hacking cough - Hydrocyanic Acid was administered freely at this stage of the disease without the patients experiencing relief - There was discovered to be considerable tenderness over the lower cervical and upper dorsal vertebrae - Tactae Emeticæ and Cantharides were applied, and the patient recovered rapidly -

In making these remarks we would be distinctly understood to say that we do not aver that in all cases where Spinal Irritation exists, it is the cause of <sup>the</sup> disease - This irritation may be an effect - But if it is it still requires from the enlightened practitioner some consideration - We should not overlook it because it clashes with our preconceived pathological opinions - If we have reason to suppose that there is nothing in it, yet as it has received the attention of many medical men, some of whom are of some eminence, we should at all events submit it to a fair trial; and if we can assure ourselves that we have arrived at some means by which the sufferings of our patients can be mitigated, we shall be highly rewarded in the consciousness of having done humanity some service -





An  
Inaugural Dissertation  
on

Vaccination

submitted to an Examination

of the Provost, the Trustees & the Faculty  
of the

University of Maryland.

BY  
Frederick Buller.

For a Degree

of Doctor of Medicine,  
A. D. 1835.

University of Cambridge

Faculty of Divinity

in the Department of Theology

of the University of Cambridge

of the

University of Cambridge

Faculty of Divinity

in the Department of Theology

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It is well known, that natural small pox is one of the most dangerous, loathsome, contagious and mortal diseases, to which human Nature is subject. Although the first authentic account of its ravages are cotemporary with the era of Mahomet, yet there are sufficient historical intimations, that instead of originating, as many have supposed, with the period of Mahomet, it had been transmitted from generation, to generation. All countries have groaned under the prevalent infliction of this dreadful scourge of mankind. No inhabitant of any nation, for many centuries, could expect to pass through life without receiving natural small pox. From one fifth to one tenth of all that were afflicted with the disease fell victims to it. The pain in violent cases, was excruciating and the pustules loathsome beyond any other disease. The lovely female under its scourge became revoltingly disfigured. The whole cuticle came off the face like a mask, and they who escaped with life, had their features so scarred as to be no longer recognised by their friends. It was one of the drains of life, through which perhaps, as great a number as by any other single disease made their exit into eternity; It was, beside, one of the most violent, and specifically contagious diseases known among men. Scarcely one in a hundred brought in the sphere of its contagion, escaped it. Amongst all the words that inspired terror in the waking

the waking







thoughts, or in dreams, no one except death was enveloped with more association of horror, than the name of this disease. Whole nations of people peculiarly exposed to its more malignant ravages, have been swept from the face of the earth by it. In the onward progress of the human mind about two centuries since, inoculation was introduced, by which this disease was divested of its greatest terrors. The inoculated disease was comparatively mild, under the controul of medicine, and seldom carried off more than one in a hundred of its subjects, But even under this form, it occasionally assumed its native formidable character, inflicting death in its usual horrible and loathsome form. Beside in obtaining the ascendancy, to be substituted for natural Small pox, it had to encounter the most fierce, and strenuous opposition, from Bigotry, prejudice, and ignorance, The practice of inoculation gradually struggled through the war of ignorance and prejudice, and was introduced into all civilized countries. Mankind had become satisfied with this comparative mitigation; not thinking of a still lighter tribute to mortality. The lovely and fair still shuddered, lest theirs might be the countenance to bear the impression of deformity; and still willing to hold out their arm to the infecting puncture, rather than risk the danger of the natural disease. In the year 1798 a still further mitigation of the disease was published to the world by the immortal



of the disease was published to the world by the  
National Society in the year 1780 still further  
costing hundreds of dollars than with the danger of the  
country, and still willing to risk out their own  
might be the consequence to bear the expense of  
it. The society and for all the abundance, but they  
contemplated, not thinking of a still lighter fabric to that  
which had become satisfied with this comparison  
and was introduced into all civilized countries  
and actually struggled through the mass of ignorance and  
superstition, and ignorance, the practice of inoculation  
was first, but the discovery of vaccination brought  
it forth for natural small pox, it had to encounter  
some form. Besides in obtaining the vaccination, to be  
character, inflicting death in its worst periods and that  
in form, it was really a matter of nature, for which  
than one in a hundred got infected, but even under  
the control of vaccination, and within control of some  
the inoculation disease was comparatively mild, under  
which, by which the disease was directed to its quietest  
point about the century since, inoculation was taken  
to the earth. In the present progress of the human  
and independent country, have been taken from the face  
cases. That nature of people, however, appears to be  
with more a receding of nature, than the name of the  
disease or in distant, in one great death and carriage



Jenner, a name that should be venerated by mankind; It had been long observed before this discovery was made known, that certain persons connected with dairies in Great Britain were not susceptible of Small Pox, either Natural, or by inoculation. And also that these persons were previously affected with a singular kind of pustular soreness caught from milking cows, whose udders, exhibited the same pustular appearance. These facts were remarked as Coincidences, yet no general inference had been drawn from them until Dr. Jenner, investigating the disease of the Kine on the Spot, came to the conclusion, that this disease of the Cow, might be communicated and would secure the person who had received it from the action of Small Pox. He published a number of works shewing his faith in it as evidenced by his having communicated, the disease to his own child, upon whom inoculation was afterwards tried without effect, for Small Pox. The new discovery was tried upon hundreds and thousands with the same result. For this important and philanthropic discovery, the British government awarded Jenner Ten Thousand pounds Sterling. How inconceivably high and exalted, must have been his sensations, to have believed himself the instrument through, which the lives of Thousands would be spared. Dr. Jenners Narrative brought to light the following facts that in England, where large dairies are kept, an eruptive disease of a peculiar kind had been known to exist among the Cows



... a name that should be mentioned; the fact  
... any other paper the doctor may not know, but  
... forms connected with duty in Great Britain were  
... of small Port either National or by circulation  
... that these papers were frequently affected with  
... of particular cases caught from the  
... where many exhibited the same features of  
... was named as considerably yet in general  
... has been drawn from the works of Jenner,  
... the cause of the disease on the subject of the  
... that the disease of the cow might be commu-  
... and would seem the form it has been  
... of small Port. The published a num-  
... which might be as well as by his  
... the disease has a similar  
... as if it were without effect  
... the disease may not be as  
... with the same result. For this important  
... the British government cannot  
... than in any other  
... in the  
... which the  
... would be  
... fact that in  
... an epidemic disease of  
... to explain the



and which was called cow pox, the disorder was located in the udder of the animal. it was communicated to the milker, by contact, and especially if the udder was abraded or thin and this person milking other cows was, by this means communicated to numbers of these animals. In the person thus affected, it was not a local disease, as in the cows but a general indisposition accompanied with fever, running a regular course, not terminating fatally. The person who has labored under this disease is ever after secure against the infection of small pox by contagion or inoculation. These circumstances it would seem had been known for a great length of time in certain districts. The true pox as it generally appears in time, makes its appearance in the spring, in irregular pustules, on the teats or udder of the animal. They are at first of a pale blue or livid color, and contain a watery acrid fluid, the surrounding parts are swelled and inflamed, the pustules, unless timely remedies are applied, are apt to degenerate into deep ulcers, which keep up a discharge of sanious fluid, which becomes thicker, and concretes into cicatrices. The disorder never proves fatal to the cows. Both these animals, and an infected person, may suffer under this repeatedly, but the succeeding attacks are milder. The Horse, from a swelling to which he is subject in the hoof, secretes a grease, this was applied to the udder of a cow, and the genuine vaccine pustule was produced in the cow, which was again communicated to the human







9  
subject, and proved to be the genuine disease. The three chief points of caution in the inoculation, of this disease, are the very considerably difficulty, of distinguishing genuine, from spurious matter, when the matter is genuine and is kept in a careless manner, it will become subject to spontaneous decomposition, and lose its power of communicating the disease, the virus of this disease is more easy to lose its power, than the variolous matter, long keeping will also injure its virtues, or if the pustule from which the matter is taken has been in progress of disease for so long a time, that all its fluids, have become thickened, you may infer that it has lost its communicating properties, The best time for taking the matter for inoculation, is about the 7th or 8th day; before the appearance of the aureola, when it ought to be limpid and transparent, The most certain method is to pass it from arm to arm; but this is not always convenient; and hence is taken upon points, or pieces of Quill, or between glasses, it must of course be softened for use, this is done by a little water, which does not destroy its efficacy, the scab too, which falls off about the end of three weeks - more or less - is capable of communicating the affection, if dissolved in Water; and this is the most common method of application in some countries. Inoculation may be performed, every season of the year, the summer season is preferred by some physicians The patient may sit in a cool room, or under the shade of a tree, it is a rare occurrence if more than 8 or 10 pustules appear,







11  
Every person is liable to be chilly from the effects of the disease; in  
summer less preparation as it is termed is required than in winter, as  
from the cold & irregular temperature he is liable to have more er-  
uptions. Formerly cathartics were given before inoculation some gave  
emetics, under all modes of preparation a Milk & Bread diet is  
proper, another plan was to give cathartics every 3 days, and a plan  
was pursued which was found to cause the Small Pox inoculation  
to be much milder this was  $\frac{1}{6}$ th gr. Tartar Emetic and 1 or 2 gr. of Cal-  
omel given every night for a week before vaccinating. Mercury  
however produces the same effect, if there is no antimony with  
it. Small doses produce the desired effect, <sup>it is</sup> not necessary to  
make the mouth sore. Inoculation is performed by dipping  
the edge of the lancet in the limpid matter of the pustule  
of the arm, infected with the genuine disease, as soon as the  
pustule has secreted matter, two days before, and two days  
after the eighth day from the inoculation. The cuticle of the in-  
oculated arm is to be scarified with this lancet, until the  
true skin is reached. If a dry crust is used it may be held over  
the steam of boiling water until softened and inserted in the  
punctured arm, an infected piece of thread is sometimes used  
by being placed in the incision, which is of a longitudinal form  
and bound down by adhesive strips. The first indication of the  
success of the operation is a small point of inflammation at the  
spot where the puncture has been made at the end of the sec-  
ond day and on the third day, this is still more apparent,  
on the 4th it generally assumes the form of a small pimple;







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Every person is liable to be chilly from the effects of the disease; in summer less preparation as it is termed is required than in winter, as from the cold & irregular temperature he is liable to have more eruptions. Formerly cathartics were given before inoculation some gave emetics, under all modes of preparation a Milk & Bread diet is proper, another plan was to give cathartics every 3 days, and a plan was pursued which was found to cause the Small Pox inoculation to be much milder this was  $\frac{1}{6}$ th gr. Tartar Emetic and 1 or 2 gr. of Calomel given every night for a week before vaccinating. Mercury however produces the same effect, if there is no antimony with it. Small doses produce the desired effect, <sup>it is</sup> not necessary to make the mouth sore. Inoculation is performed by dipping the edge of the lancet in the limpid matter of the pustule of the arm, infected with the genuine disease, as soon as the pustule has secreted matter, two days before, and two days after the eighth day from the inoculation. The cuticle of the inoculated arm is to be scarified with this lancet, until the true skin is reached. If a dry crust is used it may be held over the steam of boiling water until softened and inserted in the punctured arm, an infected piece of thread is sometimes used by being placed in the incision, which is of a longitudinal form and bound down by adhesive strips. The first indication of the success of the operation is a small point of inflammation at the host where the puncture has been made at the end of the second day and on the third day, this is still more apparent, on the 4th it generally assumes the form of a small pimple,



Every patient is liable to be seized by the effects of the disease in  
the summer or autumn or it is common to require them in winter or  
from the cold & irregular temperature. It is liable to have more or  
less, formerly called the acute form, but now called the acute  
intermittent, under all kinds of preparation a full attack but it  
is not until the first day of the intermission every 3 days, and after  
the intermission which now forms to cause the intermission to be  
the same with the first day of the intermission and 1 or 2 of the  
intermission every night for a week before resuming. Otherwise  
the intermission produces the same effect of there is an intermission with  
the intermission produces the same effect, but necessary to  
make the intermission. Intermission is performed by dipping  
the edge of the lancet in the temperate water of the intermission  
the same, infected with the genuine disease, as soon as the  
intermission has been taken, within two days before, and the day  
of the eighth day from the intermission, the intermission of the in-  
termission can be to be satisfied with the lancet, until the  
intermission is needed. If a day or two more it may be better  
the intermission of the intermission, until the intermission is in the  
intermission of the intermission, the intermission of the intermission  
by being placed in the intermission, which is of a temperate form  
and should be in the intermission steps. The first intermission of the  
intermission of the intermission is a small part of the intermission of the  
intermission of the intermission has been made at the end of the  
intermission of the intermission of the intermission is still more apparent  
in the intermission of the intermission of the intermission of the intermission

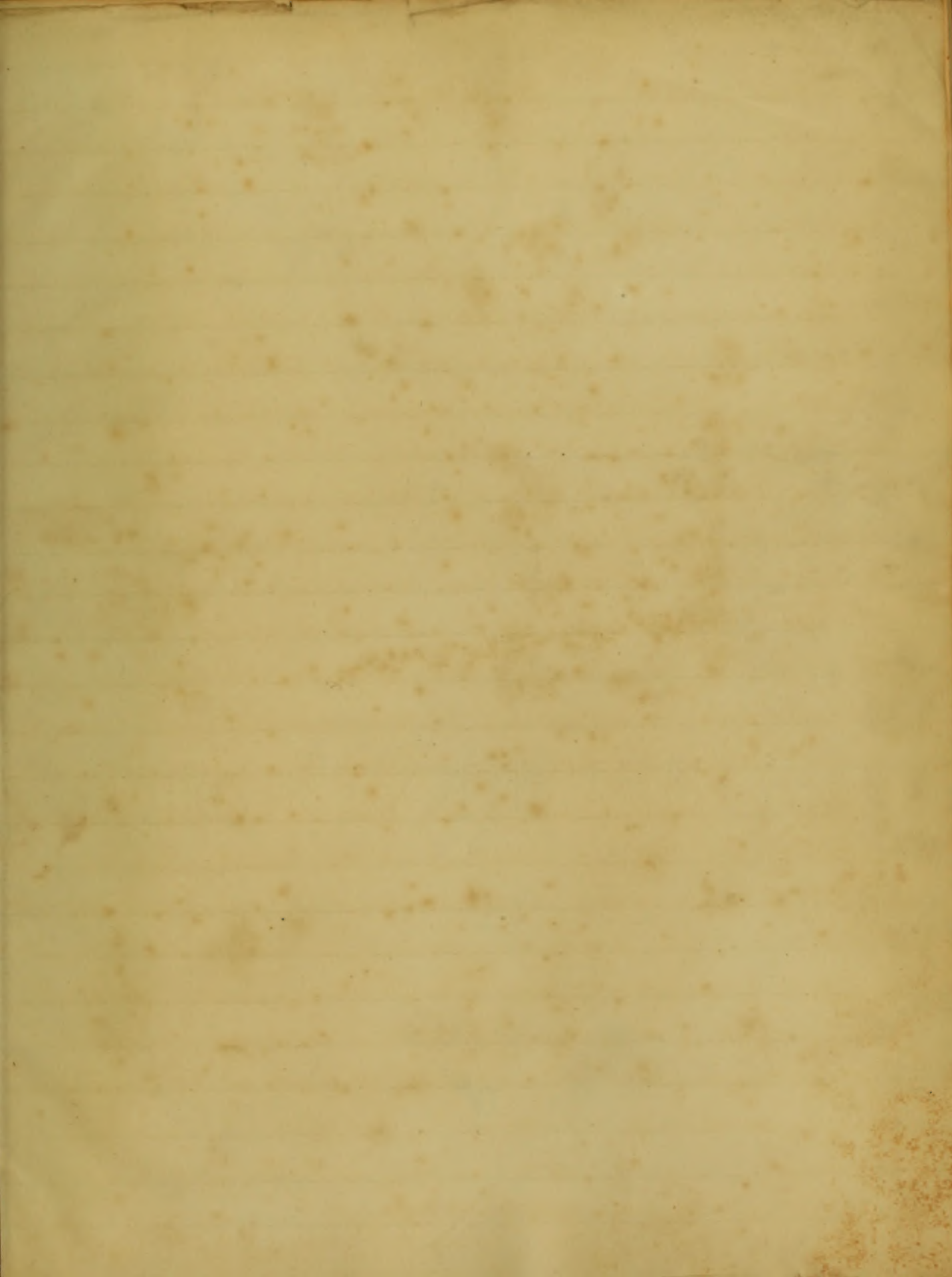


with a very narrow and inflamed base, This small tumor now gradually enlarges and on the fifth day assumes a regular circumscribed form, with a flattened surface with a slight depression in its centre, somewhat darker than the rest of its surface an appearance which it maintains through all its subsequent course. at this time also the vaccine pock changes from a pimple to a vesicle containing a limpid fluid. from the fifth to the Ninth day it enlarges in circumference but not in elevation so that it has a flatter appearance, at about the ninth day the pustule has arrived at maturity. Constitutional symptoms will now appear, and some of the glands of the axilla becoming painful and swollen, and a state of Languor and drowsiness, with slight chills and flushes of heat occur, Frequently no constitutional symptoms supervene, About the eighth day the circle that surrounded the pustule in its early progress begins to increase and by the tenth or eleventh day it forms a broad areola around the pock. By the eleventh day, the centre of the pustule puts on a darker hue, and this gradually extends towards the circumference, about the fourteenth day the surface of the pustule is changed into a brown scab This scab becomes still darker, and approximates a dark mahogany color. In the course of a few more days the scab separates at the circumference, yet continuing to be firmly attached at the centre it however spontaneously falls off generally during the 3<sup>d</sup> or 4<sup>th</sup> week from the time of vaccination, leaving a slight depression in the Cuticle —



with a very narrow and irregular base, the most common  
and usually irregular and with a slight depression or  
concave form, with a flattened surface with a slight dip  
towards the center, and the sides are the result of its  
appearance which it maintains through all its subsequent  
growth. At this time also the larvae first change from a pupa  
to a larva containing a liquid fluid, from the fifth to the  
tenth day it undergoes a circumflexion but not in a  
circle it has a flat appearance, at about the ninth day  
the pupa has arrived at maturity, and the larva  
will now appear and some of the parts of the  
larva are beautiful and hollow, and a state of  
larva with slight shells and flukes of the  
larva is constitutive of the pupa, about the  
tenth day it is surrounded by the pupa in its  
larva in case and by the tenth or eleventh day it forms  
a dark area around the pupa, by the eleventh day the  
center of the pupa has a darker hue, and the  
larva towards the circumference, about the  
thirteenth day the pupa is changed into a  
larva which becomes still darker and  
opaque color. In the course of four or five days  
the pupa of the circumference, and containing a  
larva at the center it becomes transparent, and  
off generally during the 18th day from the  
center being a slight depression in the





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