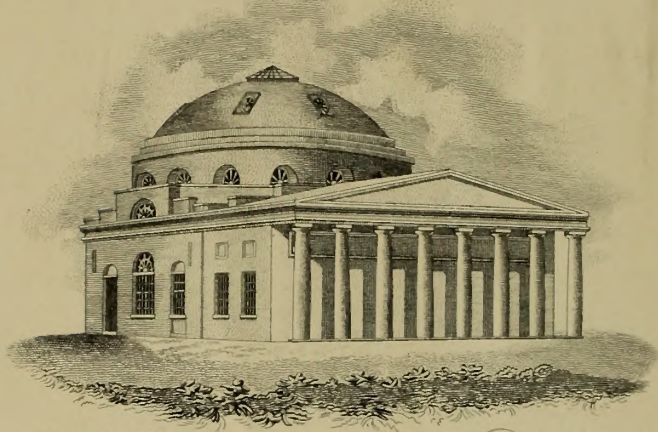
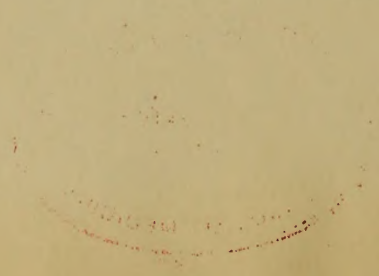


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Early Doctor of Medicine and Doctor of Physic Dissertations with Corrected Tables of Contents

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; María 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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Fox, John L.	Principles of the Practice of Medicine
Dodd, George	Epilepsy
Carpenter, James A.N.	Parasitic Fever
Wicks, Joseph A.	Method of Medical Investigation
Figg, John W.	Scabies
Archer, Henry	Neuritis
Navy, Benjamin	Relative Powers of Quinine
Gougherty, Thomas	Idiosyncrasy
Peter, Elias C.	Pharyngeal Polyps
Carroll, William Owen	Acute Arterial Stenosis

Journal of the American Medical Association

Published Weekly, except on Sundays, and during the months of December and January, bi-weekly

The Journal is published weekly, except on Sundays, and during the months of December and January, bi-weekly. It is published for the American Medical Association, 535 North Dearborn Street, Chicago, Ill. The subscription price for the year 1934 is \$12.00 in advance. Single copies are 25 cents. The Journal is published for the American Medical Association, 535 North Dearborn Street, Chicago, Ill. The subscription price for the year 1934 is \$12.00 in advance. Single copies are 25 cents.

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(CORRECTED TABLE OF CONTENTS)

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Haig, William	Necrosis
de Butts, John	Diagnosis and Treatment of Pneumonia
Shipley, Nimrod O.	Peculiarities of Woman
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Price, Elias C.	Phthisis Pulmonalis
Lumsden, William Oates	Acute Articular Rheumatism

1912

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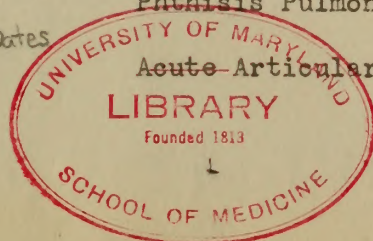
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de Butts, John	Diagnosis and Treatment of Pneumonia	20p.
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Gibson, John C.	Delerium Tremens	12p.
Mudd, Geo. ^{George} D.	Conditions Requisite to the Production of Malaria and its Morbid Operation on the Human Economy	38p.
Rich, Arthur T. J.	Asthma	28p.
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Free, John L.	Principles of the Practice of Medicine	21p.
Bond, Benson	Epilepsy	33p.
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Austin, Henry	Scarlatina	23p.
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Daugherty, Thomas	Rheumatism	31p.
Price, Elias C.	Phthisis Pulmonalis	28p.
Lumsdon, Wm. ^{e William Cates} O.	Acute Articular Rheumatism	17p.



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UNIVERSITY OF TORONTO

1889

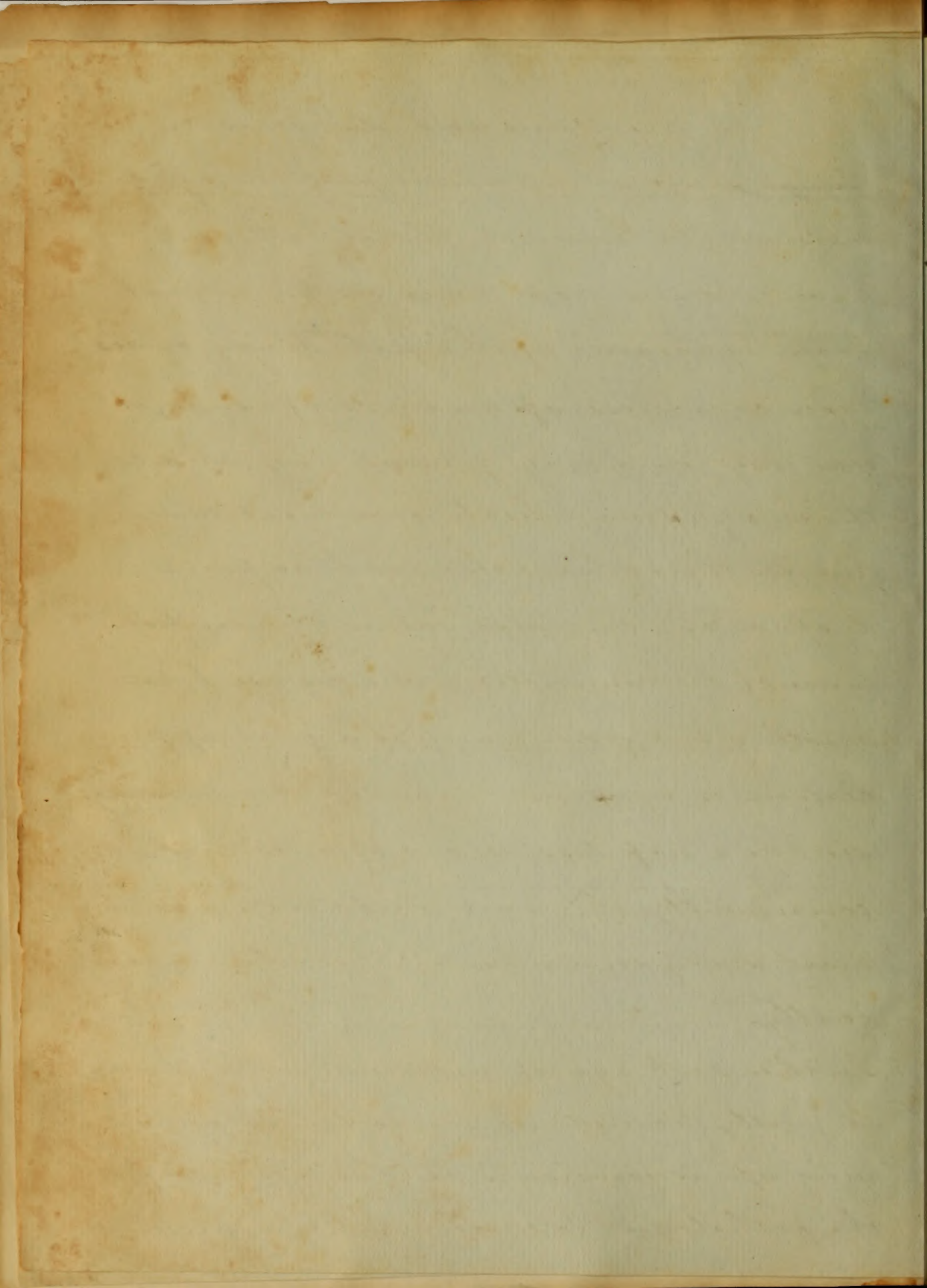
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An
Inaugural Dissertation
On
Symptoms and Diagnosis
Respectfully Submitted
For the examination of the
Provost, Regents and Faculty of Physic
of the
University of Maryland
For the
Degree of Doctor of Medicine
By
William D. Lyles
Anne Arundel Co
Maryland

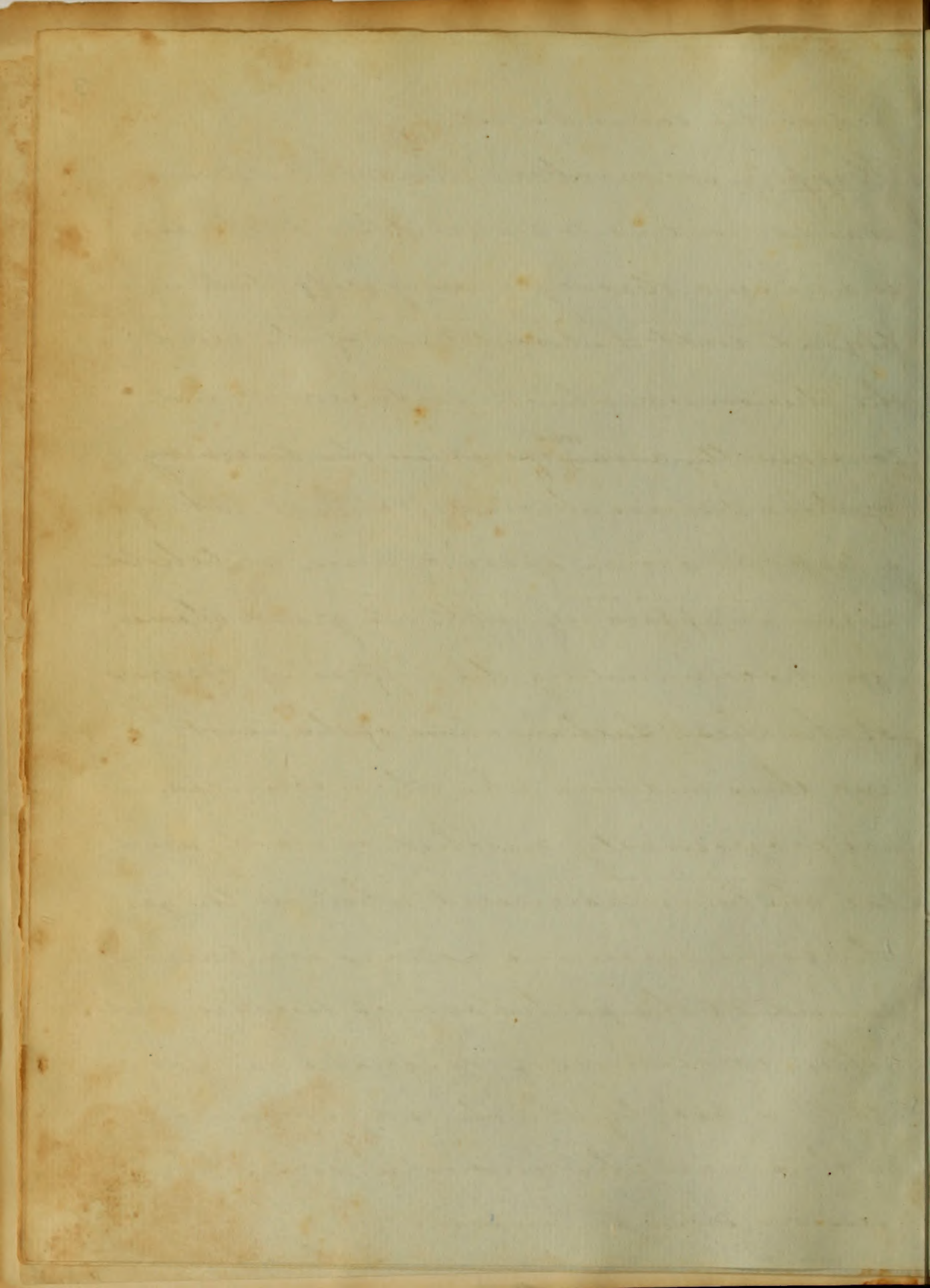


day, how they every originated; ^{the} humorists
 who conceived all diseases, ^{to reside,} in the fluids of
 the body, and with this view of the pathol-
 ogy of all diseases, prescribed remedies,
 which doubtless, were often contra indicated
 and deleterious, there were those again, who
 maintained the opposite of this, that all
 diseases were seated in the solids, and they
 too had their particular nostrums, which
 were supposed to eliminate diseases from
 this part of the system.

Long after indeed, when better notions were
 entertained of the seat of diseases, and
 pathology more fully understood, as well
 as symptoms, ~~being~~ ^{were} more attended to, we
 hear physicians eminent for their skill,
 declaring, that there was no means of dis-
 criminating one disease from another,
 situated in the same cavity, pneumonia
 and pleurisy for instance so different
 in their seat and gravity, were regar-

ded, as the same disease.

Happily for mankind, the mind of man was not content to rest in this darkness, and we see a Harvey arising, establishing beyond doubt the circulation of the blood the phenomena which produced it, and consequently a way ^{was} opened for the discovery of those diseases which affected it, taking a leap over a wide space of time, we behold Laennec appearing, with his grand scheme for discriminating the different diseases of the chest; Latham those of the heart, and thus medicine, like other sciences, has progressively marched onward, until the time has arrived, when no longer the same erroneous notions are entertained of the pathology of diseases, and when correctness of diagnosis, has got to be a test, by which, to discriminate, a physician who understands his profession from an empiric.

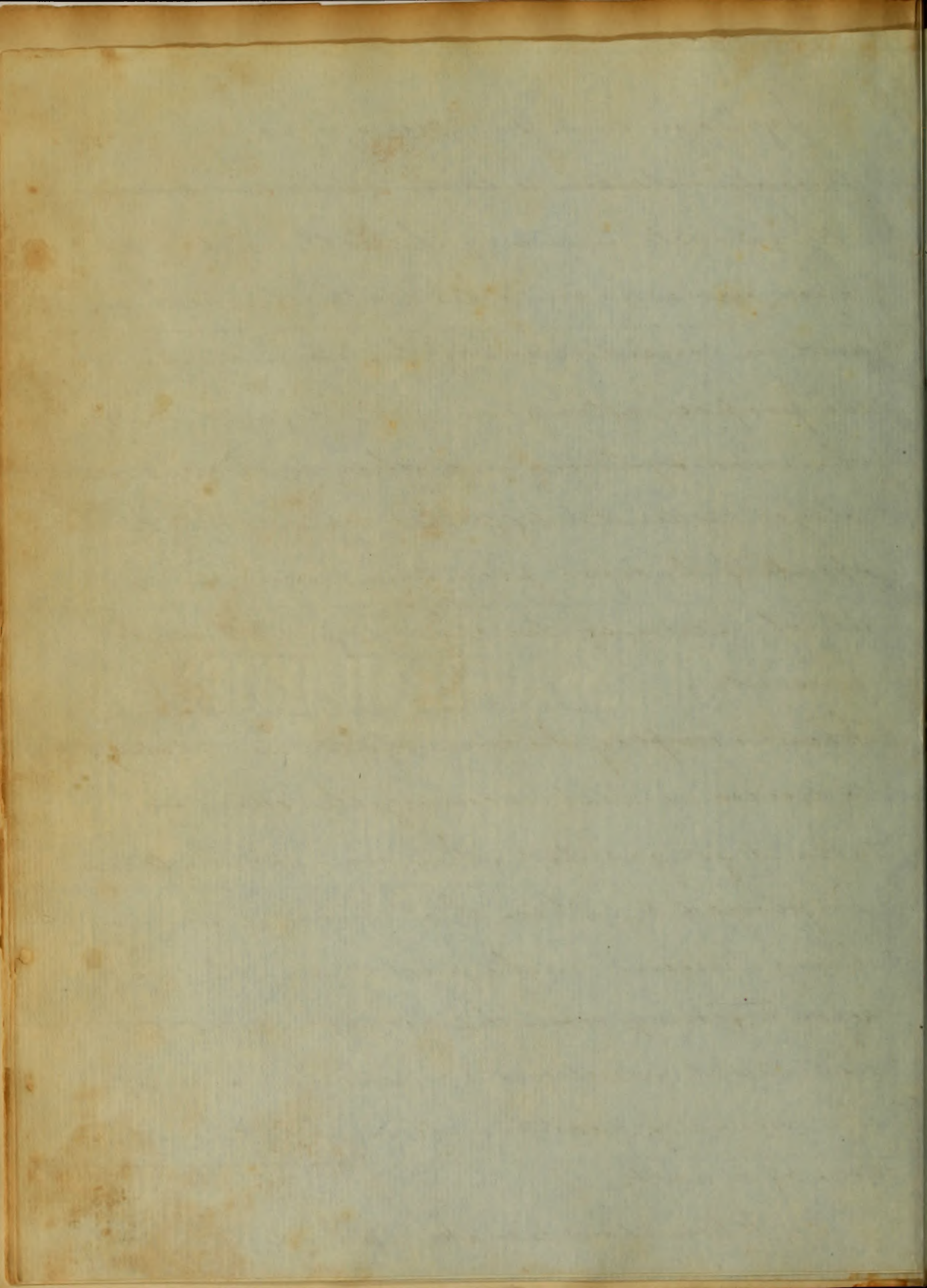


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Symptoms and Diagnosis, hold an intimate relation to each other, our facility for determining the latter depends upon our acquaintance with the former, and in consideration of this connection we propose, after giving the definition of the word ^{the} symptom, and other symptoms employed to denote different conditions, to speak of the most prominent ^{ones}, which some of the organs of the body present.

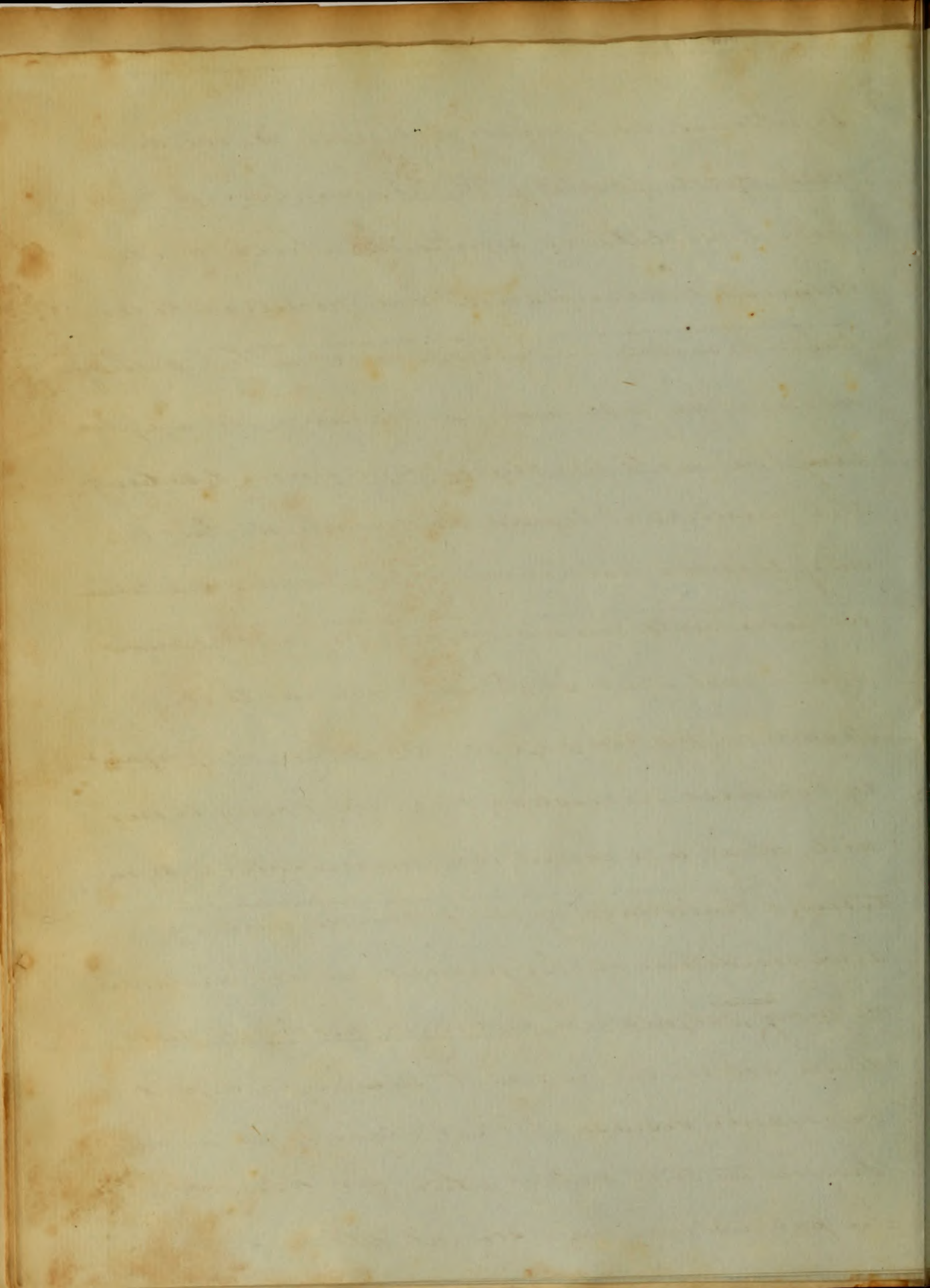
When we employ the term ^{the} symptom as relating to disease we wish to convey the idea, or take it for granted, when we hear the term employed by others, that there is something present in the part, to which we refer, differing from the performance of its natural functions, something out of the course of health, interrupting the functions of a part.

When about to make up our diagnosis from



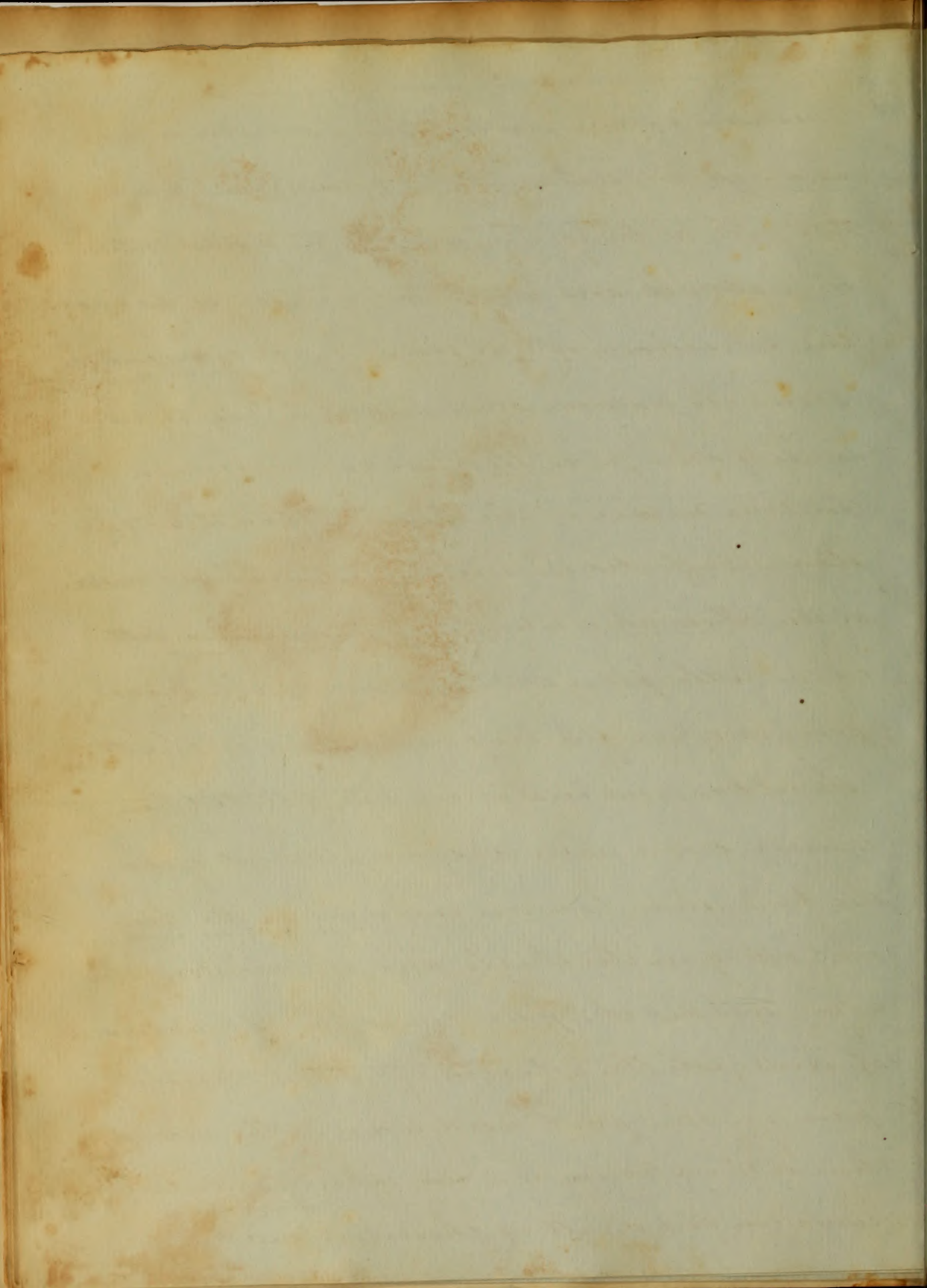
symptoms, as to what a disease it, we do it with more facility. by remembering that there are certain symptoms, which under similar circumstances, are peculiar to certain diseases, and these are called pathognomic. we may hear for instance on applying the ear to the chest crepitations, denoting the presence of liquid in the chest, but it only becomes pathognomic of pneumonia when we take into consideration the rust coloured sputa, and other symptoms peculiar to it.

Again in making up our diagnosis, it frequently becomes necessary that we bring to our aid, what are called commemorative symptoms, a knowledge of the previous history, and condition of the patient, as for instance we may ^{have} palpitation, and other marks of disordered action of the heart, seemingly dependent on organic disease of that organ, and we only discover its true nature when we learn that the patient has had several attacks of them.



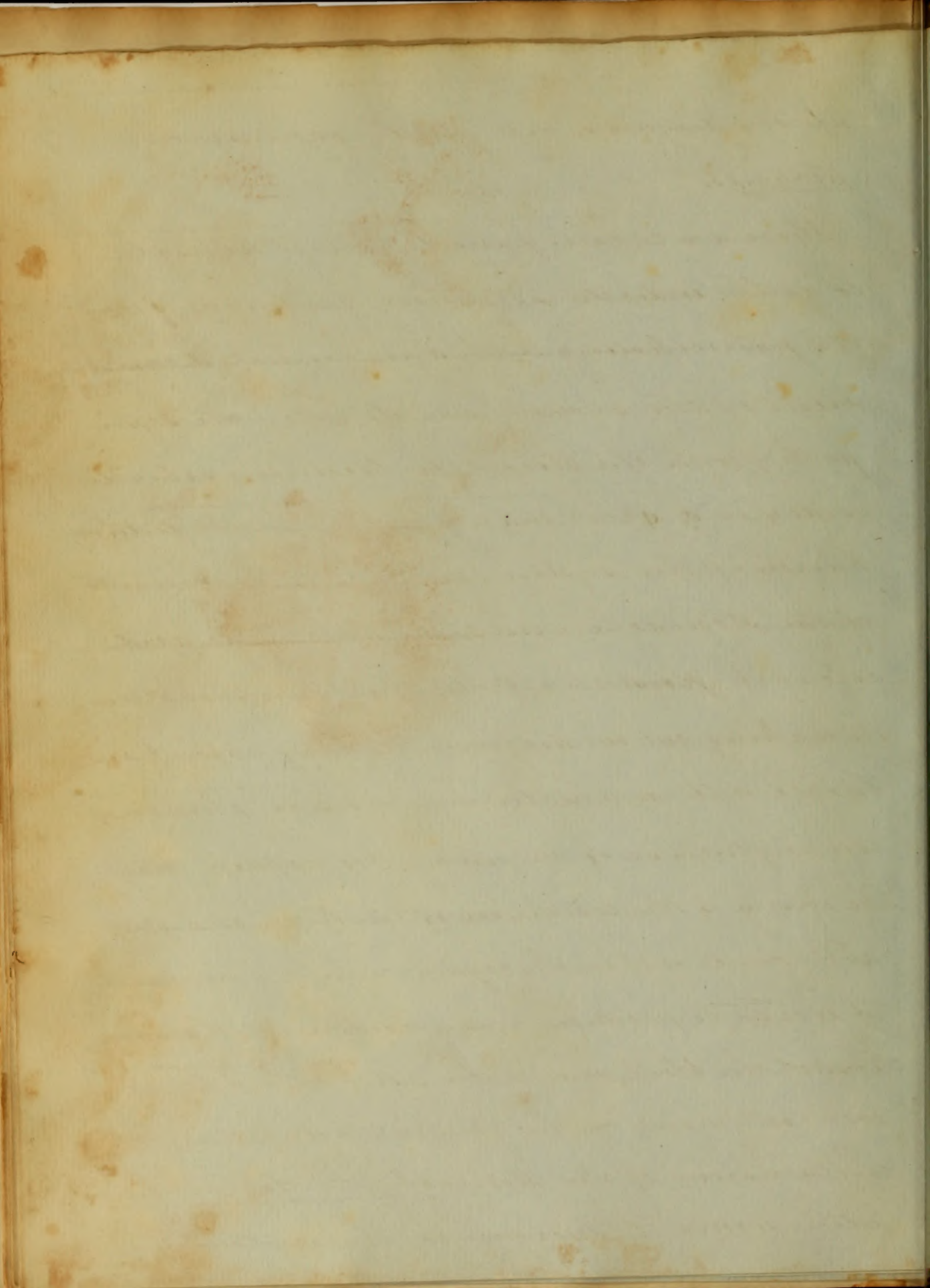
6

mation of the joints. There are also direct and indirect symptoms, the patient may refer to a part as being the seat of his disease, when in reality it does not differ except, so far as the sensations of the patient are concerned from its natural state, and it is only by reference to other parts, that we can ascertain the true nature of the disease, a familiar instance is afforded in injuries of the ulnar nerve at the elbow, when a tingling sensation is felt in the little finger, in diseases of the liver pain is often felt in one or other of the shoulders, and instances are related in which severe pain was complained of in the knee, when there was aneurism of the femoral artery in the thigh, and the moment the artery was tied the pain ceased in the knee, and of indigestible articles of food causing pain in the foot and ankle. The meaning then of these terms, and ~~see~~ taking into consideration one, or all of them, in making



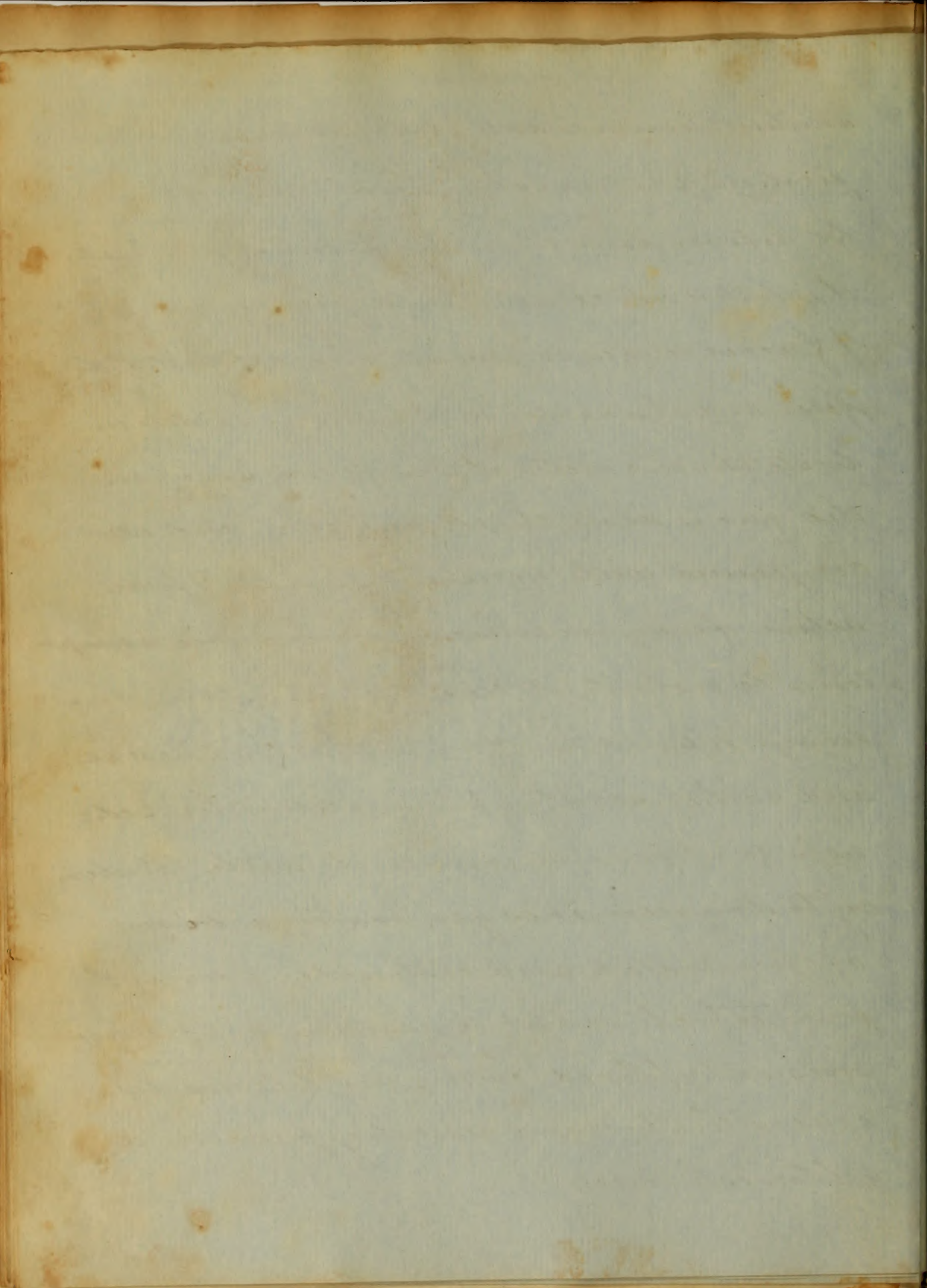
up our diagnosis, will greatly facilitate our progress. 7

There are certain parts to which we refer to gather indications of disease. The tongue from its participating with any general derangement of the system, and its intimate sympathy with the stomach, becomes a valuable index, in a great many of the general disturbances of the system, and all derangements of the stomach, and the appearance and colour it presents affords valuable information in making out our diagnosis. We may have it enlarged with indentations on its side, showing the influence of mercury. Its redness may be owing to the condition of the blood, or a great abundance of it in the organ, in the former case it would be produced by an undue arterialization of the blood, and in the latter either by an over excitement of the general circulation, or inflammation of the stomach, the former condition would be determined by ascertaining



whether there was any obstruction to the res- & piration, the two latter from each other by reference to other symptoms, to which the latter affection would point.

A furred tongue is generally characteristic of fever, and the nature of the fur, is said to indicate the character of the fever, as when the fur is white, thick, uniform, and accompanied with moisture, it is an open active fever, in which though the symptoms be violent, it has no malignant tendency. When the fur is short, adhesive and rather scanty, permitting the redness to appear through it, with tendency to dryness, it is generally a sign of prostrated, and obstinate form of fever, which is apt to assume a low nervous, or typhoid form. In bilious disorders the tongue usually presents a yellowish hue.



The pulse. The evidences which the pulse presents, are regarded by the professional and unprofessional (and that correctly) as being very important. So great indeed is the importance attached to it, that the physician, who neglects in every case to examine it, is regarded ignorant of his profession. It demands the attention of the physician also, because of the fallacy attending it and the wrong inferences which are likely to be drawn, unless caution is exercised in its investigation.

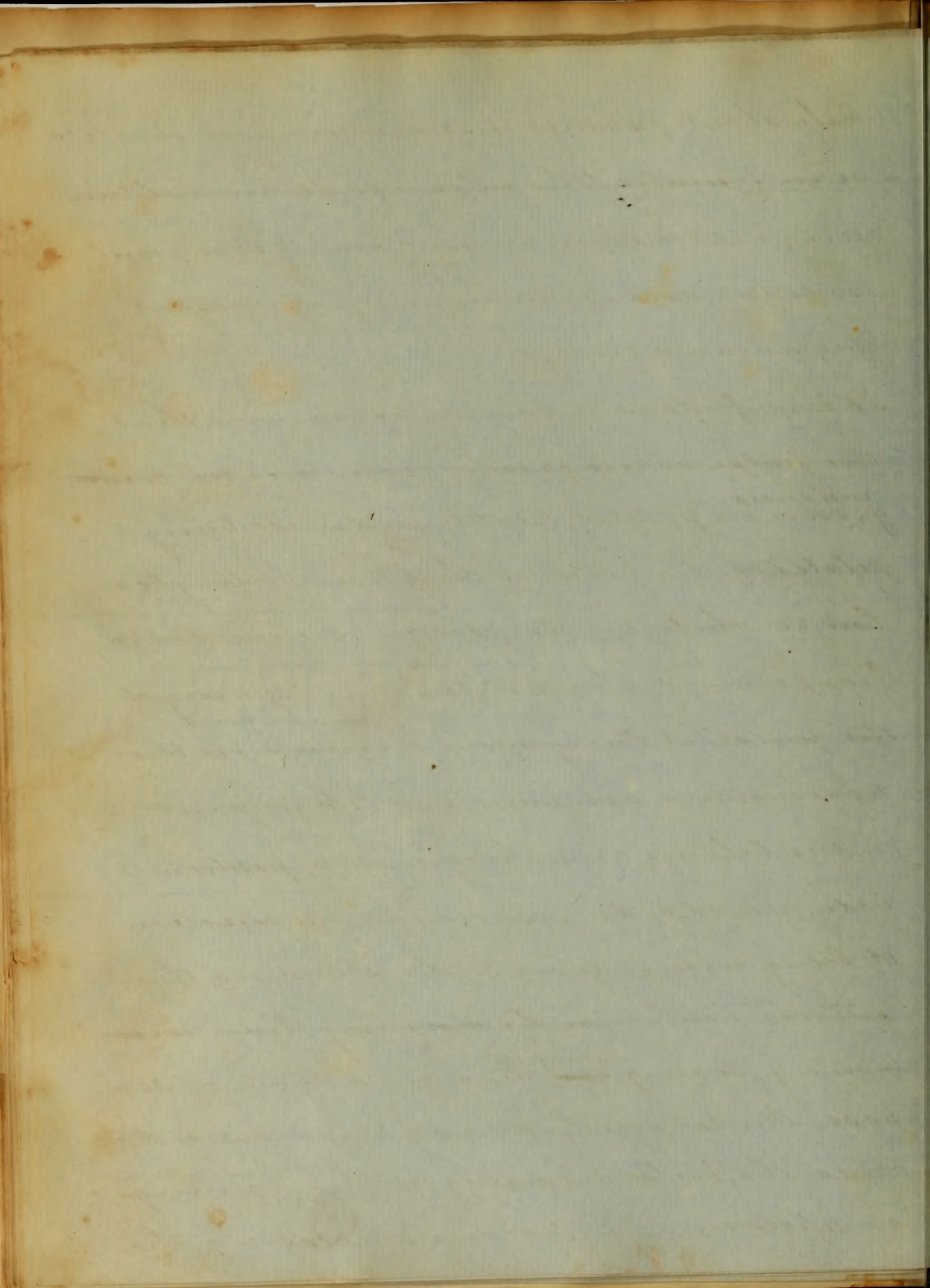
To appreciate the symptoms, which the pulse presents in disease, it is necessary to understand its natural condition, during health. The pulse, is the blood making its way through the arteries, corresponding to the systole of the heart, and caused by the contraction of the left ventricle of that organ and of the artery itself. As a general rule this contraction occurs in a healthy adult

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male about 70 times in a minute, and about = 80
= 80 in females. The pulse is faster in children
being in children of two or four years from
100 to 125, and decreasing in frequency, as
they advance in age.

It is important to remember however, that
the pulse varies greatly from this in man-
y instances, even in perfect health, instances being
related of the pulse of children, beating be-
low 60 while in old persons it exceeded 80.

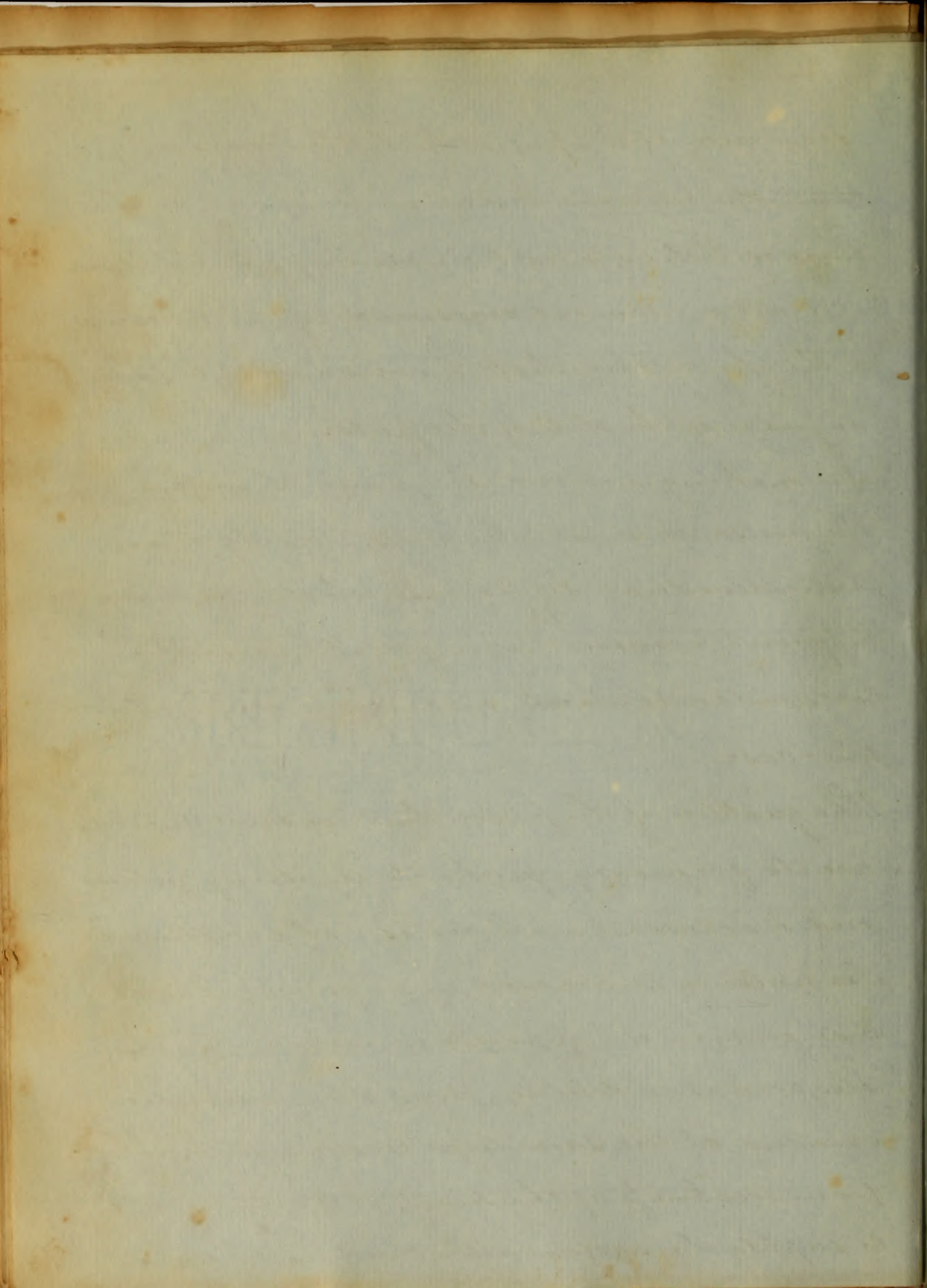
Temperment also modifies the frequency of
the pulse, it being more frequent in the
nervous and sanguine, and less frequent
in the bilious and phlegmatic, position of
body, period of day, exercise, mental emotion,
it being more frequent in the standing than
sitting posture, in the morning than eve-
= ning, during ~~rest~~ ^{exercise}, than in a state of re-
= pose, Mental emotions, may increase or de-
crease the pulse according as they ^{be} exciting
or depressing, the former increasing, the



frequency of the pulse. the latter decreasing it, hence the rule, inculcated as long ago, as the time of Celsus, to wait on visiting a patient until, all excitement, occasioned by the presence of the physician shall have subsided, before we judge of the state of the pulse.

In making out our diagnosis, therefore from the pulse we must take into consideration the individual differences, which exists in different persons, during health, and the circumstances, which modify ^{it} in any particular case.

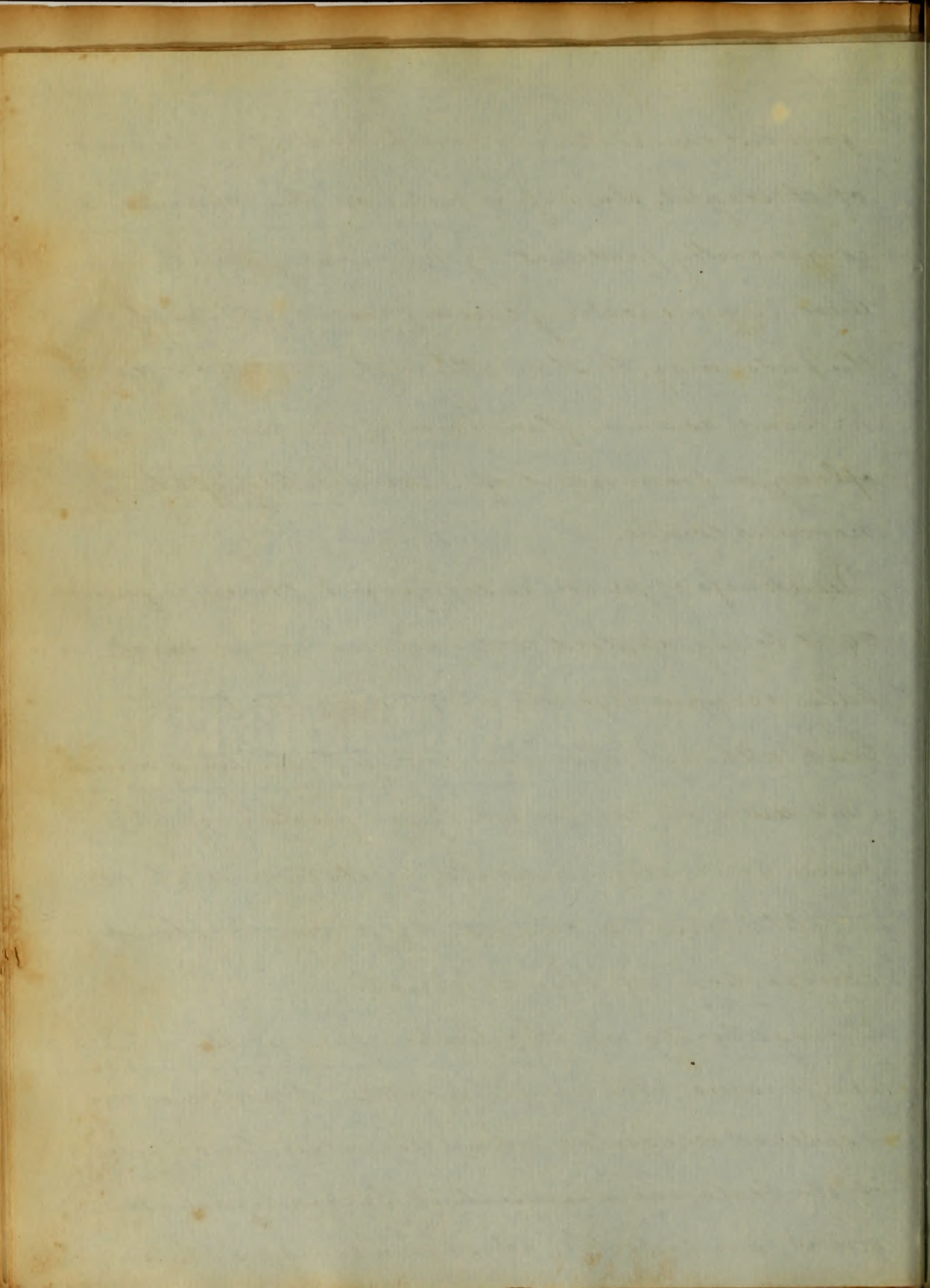
The qualities of the pulse that we most regard, are its frequency, quickness, regularity, fulness and hardness. In all diseases of excitement the pulse is increased in frequency, and it may occur in the opposite condition of ^{the} system also, or that of debility, from some irritation existing at the same time in the system, or from weakness of the heart, it being unable to supply the system with blood, is diverse to



frequent contractions to compensate for its want of strength, slowness of pulse on the other hand is generally produced by depressing causes, when there is no exciting cause present, (although) the pulse may be slow, although irritation be present, as in inflammation of the brain or apoplexy, or from want of sensibility of the nervous centre.

Quickness of pulse is different from frequency, it being applied to those cases, in which the pulse occupies less time, than usual for its beat, although the number of beats in a minute are not increased, This quality of the pulse generally indicates irritation with debility, and is caused by a quick short contraction of the ventricle.

Irregularity of the pulse, frequently exists in persons, who are in health. A pulse is considered irregular, when the number or force of its beats are unequal, it being more frequent, and feble, at some times than

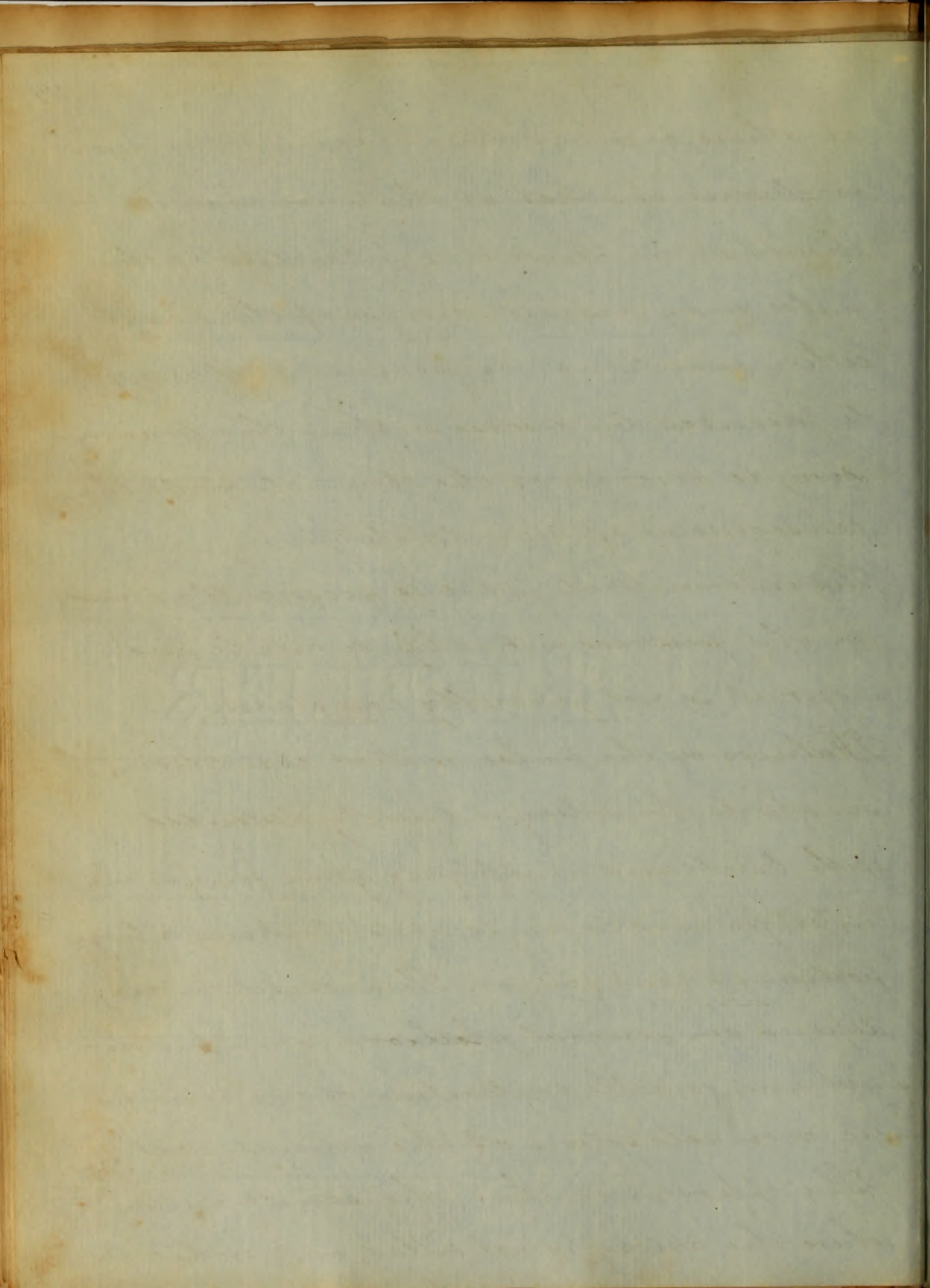


at others, or when there is an intermission or absence of a beat at the time that it should occur. These irregularities of the pulse, may indicate, disease of the heart either functional or nervous, or it may be produced by disease within the brain, simple disorder of the stomach, or be the consequence of mere debility.

The intermittent pulse is frequently found in old persons, but unless disease be present it is not generally constant.

Fulness of the pulse, is that condition, in which the artery is equally distended with blood, and on applying your finger the impression is conveyed of its striking a large portion of your finger. This condition may depend on general plethora, on a prolonged and forcible contraction of the ventricle, or on relaxation of the arterial coat.

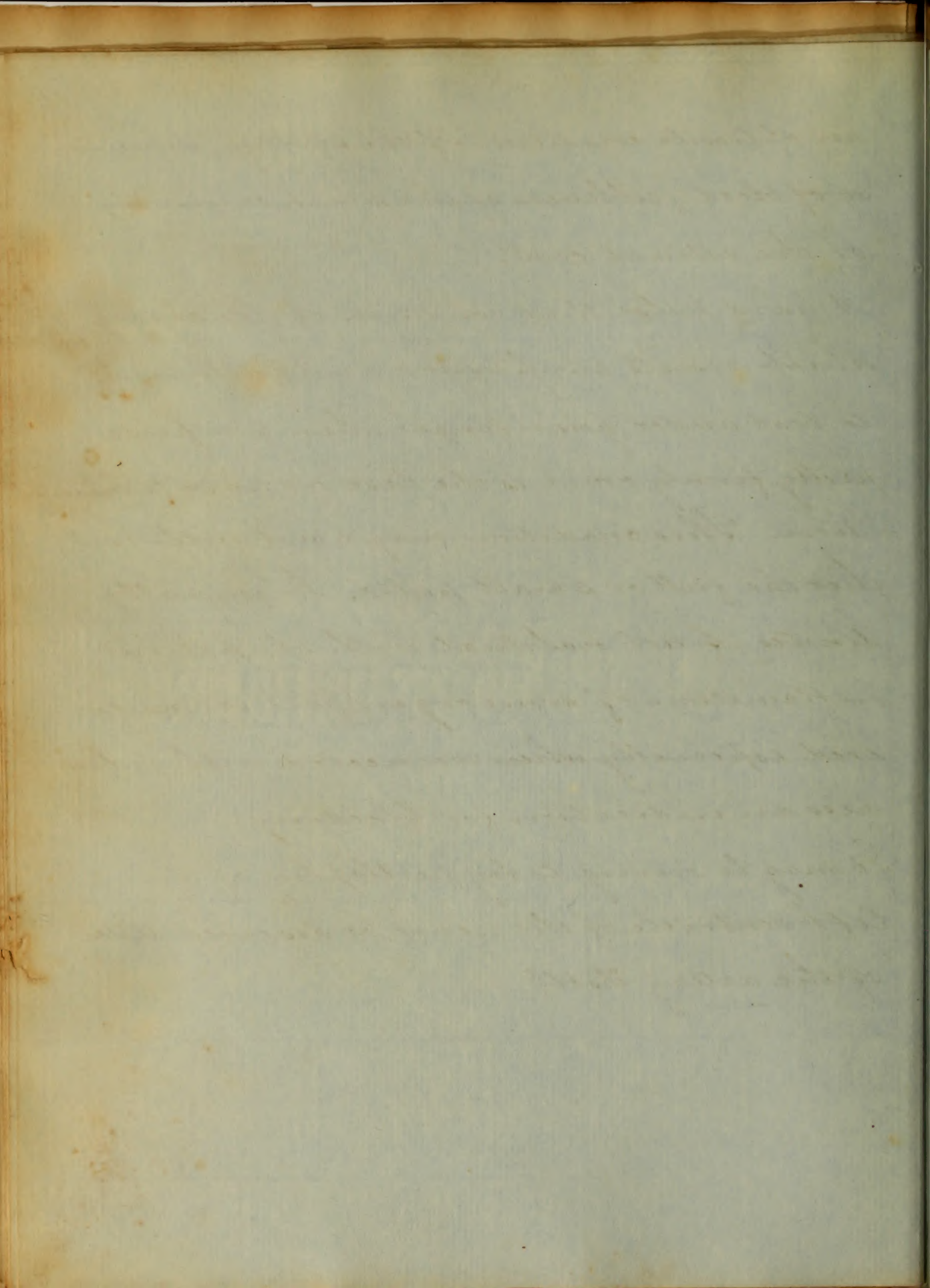
The opposite of this, the small pulse, where the artery is not filled out, indicates



an opposite condition of the system, deficiency of blood, feebleness of the heart, or tonicity of the arterial coat.

A hard pulse, that condition of the artery which resists compression, and continues to beat under your finger, when you press, pretty firmly on it, is the last we have to mention. This condition may exist with either the full or small pulse. It generally denotes if not habitual with the patient inflammation of some organ, and is considered especially when connected with fulness an indication for bleeding.

It may be owing to hypertrophy of the left ventricle of the heart, or diseased state of the artery itself.



The respiratory functions. These are the next, and last organs, which we propose mentioning as affording indications of disease and they truly demand the attention of the physician, because of the many symptoms, which they afford, which although similar in appearance, indicate very opposite conditions of the lungs.

Dyspnoea may indicate various conditions of the lungs. Congestion, or consolidation produced by inflammation, mechanically resisting the entrance of air, to some part of the lung, the portion to which the air has access, is driven to additional duty, to counterbalance the want of action in the affected part, effusions of any kind in the same way, spasm of any of the muscles concerned in respiration, as in Asthma, pain whether depending on inflammation as in Pneumonia and Pleurisy, or simple rheumatism as in Pleurodynia. Dyspnoea is a common symptom ^{to} in that fatal disease phthisis.

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We have also this condition produced by the state of the air, as when it is too rarefied, or irreparable from containing poisonous gasses of any kind.

Cough. This is generally a symptom of irritation of the mucous membrane of the respiratory passages, whether caused by the presence of foreign bodies, such as dust, acrid substances, pus, mucus, or blood. or the condition of the atmosphere itself.

Inflammation also would give rise to the same phenomena, either by increasing the sensibility, of the part or giving rise to effusion.

It is a symptom of most of the affections which we have spoken of under dyspnea, Pleuritis, Pneumonias, consumptions &c It also affords symptoms not directly connected with the air passages as in inflammations, of the stomach, ~~stomach~~ intestines Peritoncum, Hysteria.

Expectoration. is the act of discharging the secretions or fluids from the air passages,

To an experienced ^{eye}, the colour and consistence

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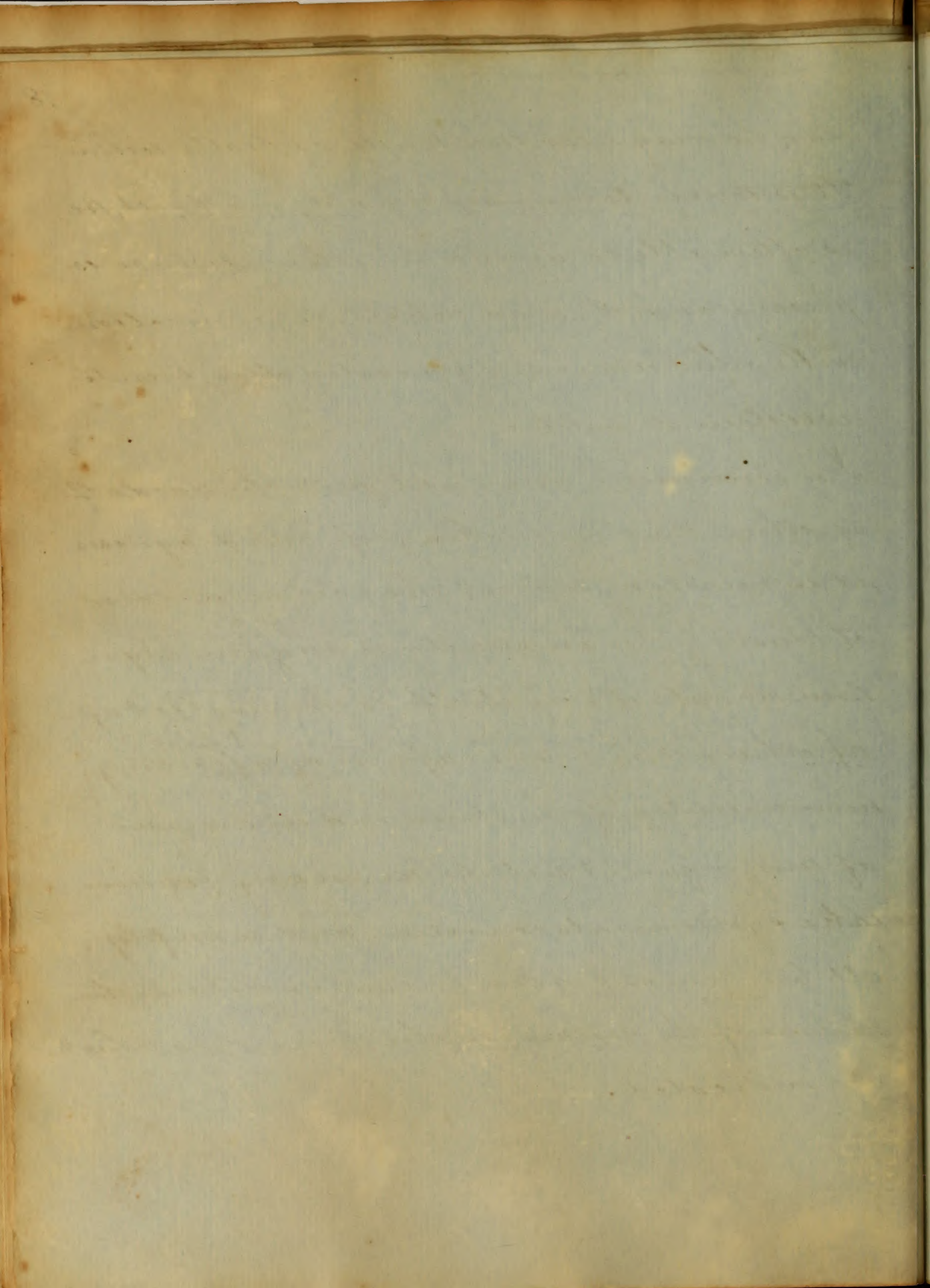
of these secretions or fluids, presents valuable information in diseases, as for instance how important to him, in making out his diagnosis, is the rust coloured sputa in pneumonia, or the frothy, tenacious sputa of bronchitis, or the flow of blood.

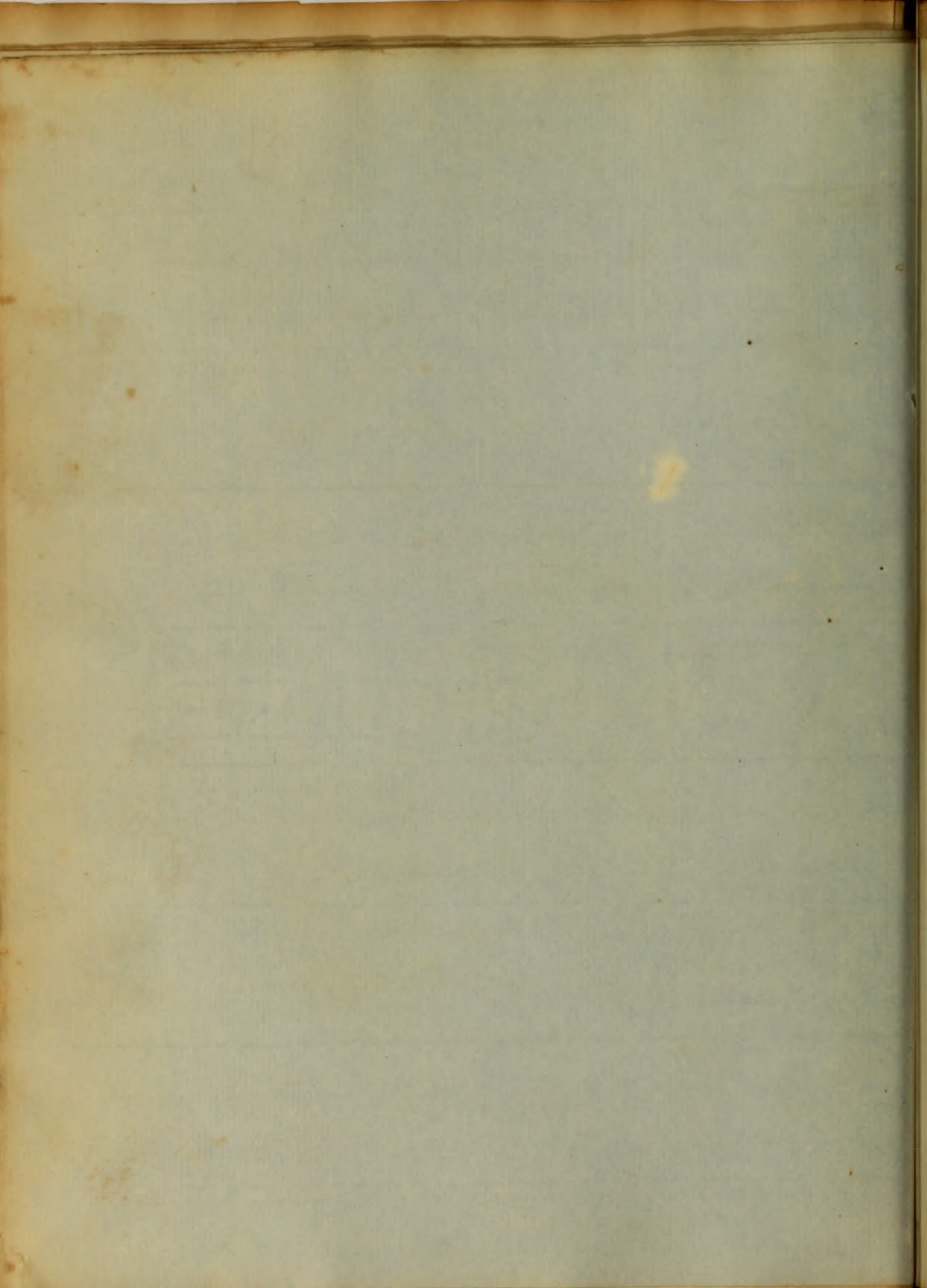
We have more means of investigating diseases within this organ than perhaps any other. They are open to our senses of touch sight and hearing, and since the immortal discovery of Laennec's, the diseases within the chest, which were before so difficult to diagnoses, have become simple from the exercise of these three senses and so important, are they to science, that (now) the experienced physician, if often able by simply casting his eye at the external configuration of the chest, seeing its flatness and want of expansion, to read the presence of the most fatal of all diseases, or by the application of the

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ear, he may hear the knell of death within
His touch too is important, for by it, he
is often able to decide whether disease is
present or not, and taken in connection
with other means of investigation, even to
ascertain its nature.

In conclusion we would quote the words of
another, that in making up our diagnosis
it is necessary to avoid the common error
of trusting, too implicitly to any one sign
however valuable in itself, to the neglect of
of others, which are capable of affording
him useful information, and in diseases
of any organ it will be necessary for him
to take symptoms into connection, and to employ
all his senses, before he can ascertain the
nature of the disease, or the remedies which
are indicated.



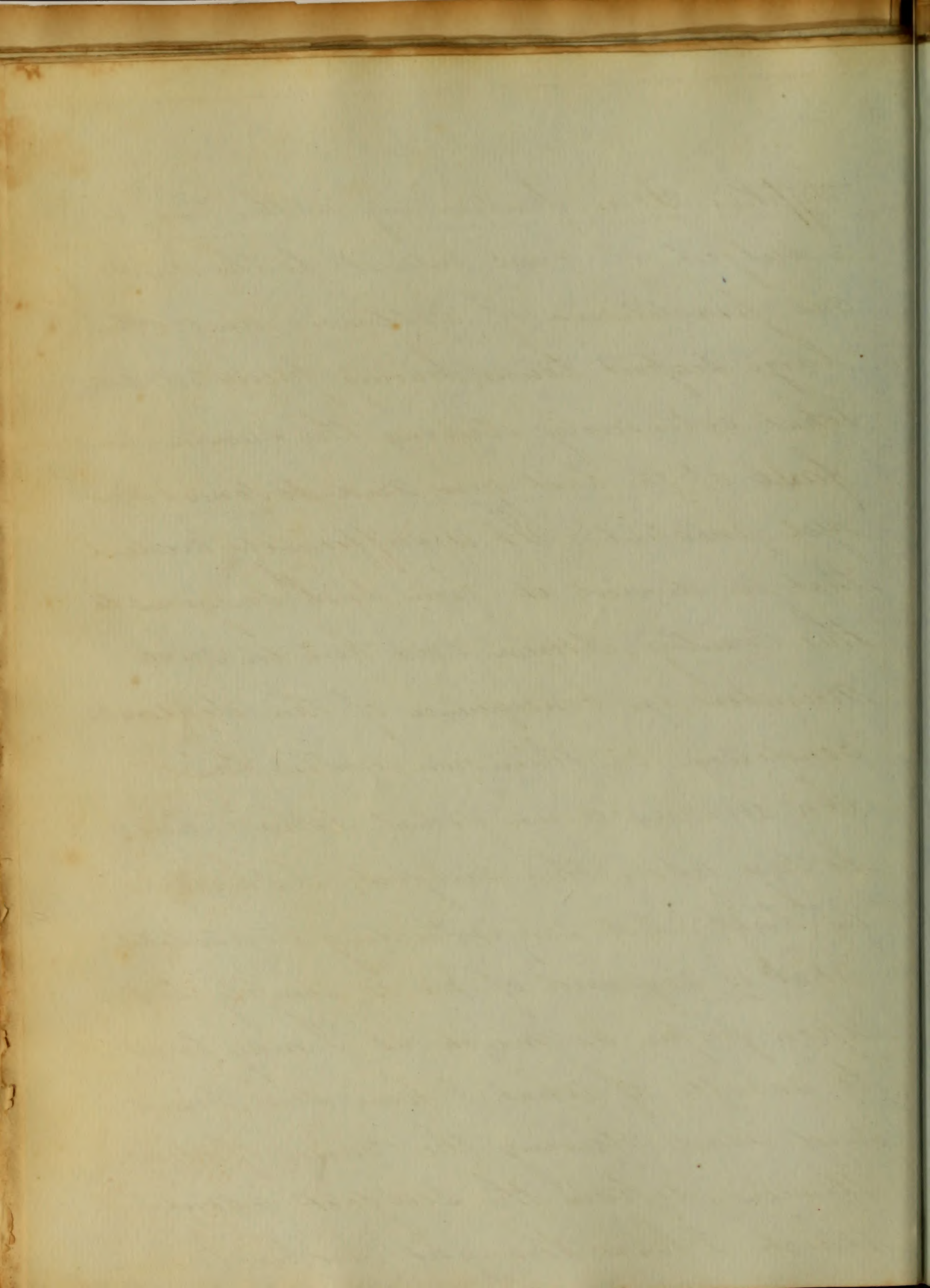


An
Inaugural Dissertation
On
Typhus Fever
Submitted
to the
Examination
of the
Provosts, Regents, and Faculty of Physic
of the
University of Maryland
for the Degree
of
Doctor of Medicine
By
Philip Rivers

1

Typhus Fever, particularly at this time, is a subject of great interest to the medical practitioner of Baltimore, and other large seaport towns; having prevailed somewhat extensively during the summer and fall of the last year, and to some extent yet prevalent. It is sufficiently evident that we derived it from Irish emigrants to this country, driven over here in such numbers, in consequence of their deplorable condition in their own native land.

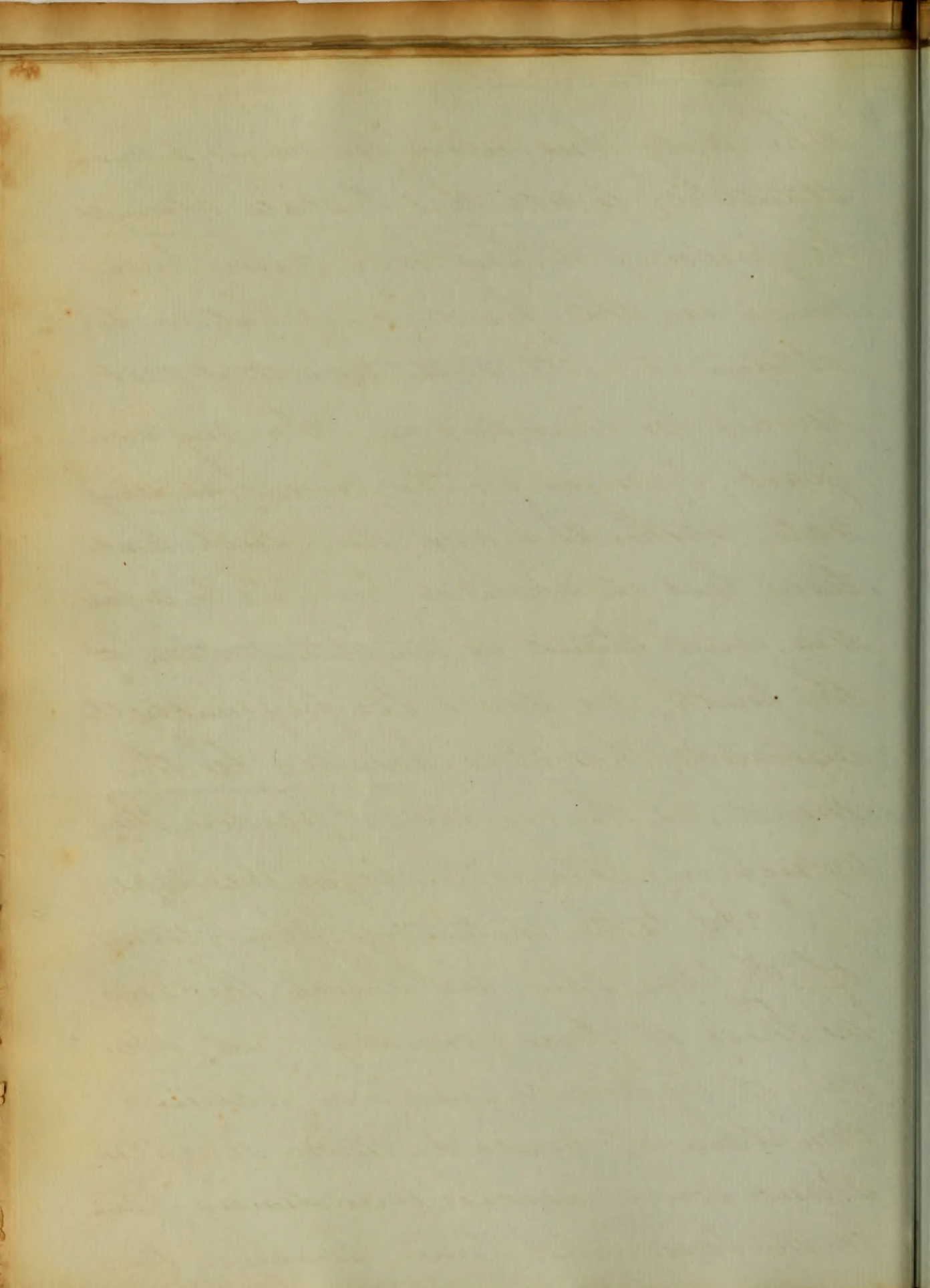
In writing down what I shall have to say upon this subject, I shall be as brief and unpretending as possible. What is required of me, is simply to state upon paper, as much as I may be able to recall of what I have seen, heard, and read, during the course of my studies, upon the subject about which I have thought proper to write.



2

The duty prescribed for me (as I understand it), is all that I shall attempt to perform. Others may desire preeminence in this field, and labour to obtain it. All such have my best wishes for their success. For my own part, I prefer, for the present, at any rate, rather to suppress any such ambition, lest it should prove to be a failure, and stand as an illustration of the truth, no doubt, too frequently illustrated, that it is possible for the mind, as the vegetable (pardon the expression) to be rotten before it is ripe.

As to the initiatory symptoms of Typhus, they are much the same as those of fever generally, and, above all, of Typhoid fever. The patient complains of headache, more or less constant and severe; wandering pains in the back and limbs; soreness of the



7

Muscles; Chilliness, especially along the spine, mingled with flushes of heat; increasing weakness, nausea, and, perhaps, vomiting; loss of appetite; and, withal, a general sense of weariness and lassitude, which indispose him to either mental or physical effort. Along with these premonitory symptoms, if examined, he will be found, frequently, to have some bronchitis; sometimes, in fact, the first thing noticed. In this condition, and with these symptoms, our patient may wander about for several days, becoming worse however every succeeding day, until, at last, he is driven to his bed.

By this time, perhaps, the character of the disease is sufficiently declared.

Most, or all of the above symptoms exist in an aggravated degree, together with others peculiar to this stage. His

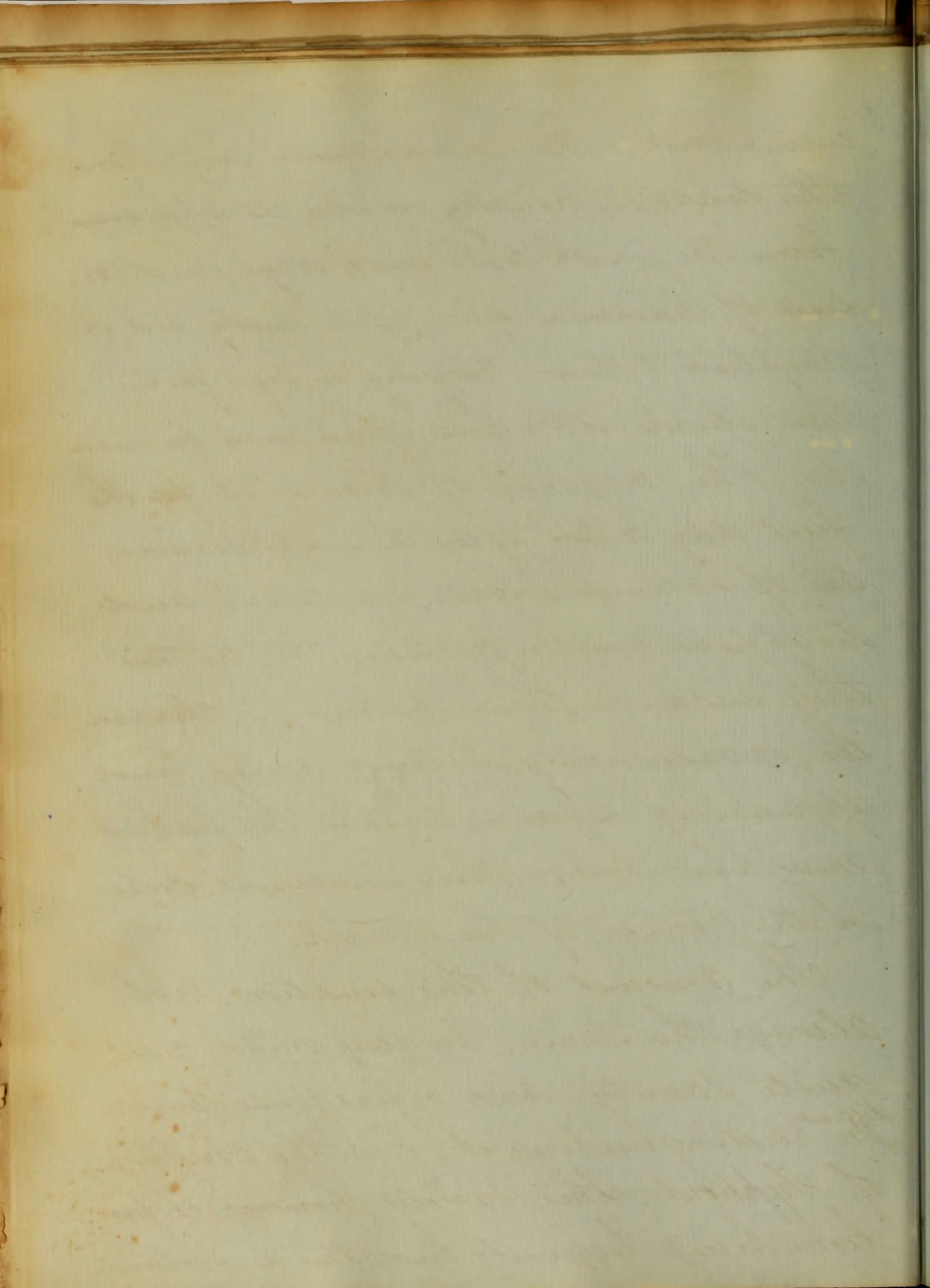
4
headache has become violent; his eyes
suffused and injected; his tongue dry,
fissured, trembling, and with difficulty
protruded. This last, however, is not
invariably the case. Through the whole
course of the disease, the tongue may be,
and sometimes is, moist, though always
coated, moist, or lep. These weakness has
become prostration, frequently, almost
absolute. Vomiting occasional, and not
very harassing heretofore, has, by this time,
become either more frequent, and more
severe, or been superseded by extreme ep-
igastric tenderness, indicating that the
stomach is deeply involved. In con-
nection with all this, there are much
stupidity and confusion of mind.
Frequently by this time, if not before, bron-
chitis has developed itself, slight, or severe.
The surface is morbidly hot, of a dark din-
gy hue, and covered to a greater or less

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extent with the characteristic eruption.

This eruption usually makes its appearance from the fourth to the sixth day, and consists of numerous spots of a dusky red, or purplish colour, varying in size from mere specks, to the third of an inch in diameter. The majority of these spots for the first day or two after their appearance, are of rather a bright red colour, and disappear under pressure. After this they assume their distinctive character, occasionally fading away, and appearing again, so that the patient may have two or three successive crops in the course of his attack.

The amount of this eruption, not always the same. In very mild cases, quite scanty, and offers considerable ^{difficulty} in distinguishing it from the eruption of Typhoid. This variety, however, is far from being frequent, and this is fortunate



for those who advocate the nonidentity of the
 two diseases. For if, with the present well-
 marked, and distinct features of Typhus,
 Physicians can hardly be induced to re-
 gard it as a distinct disease, what would
 be the case, if the resemblance were closer?
 That there are some points in common
 must be admitted. Such are, the state
 of the tongue, sometimes; the pulse, and
 the general febrile condition. Diarrhoea
 an almost constant condition in Typhoid,
 is sometimes present in Typhus; the re-
 sult however of a different cause. In
 the former fever, of follicular ulceration
 in the latter of weakness or relaxation
 We have prostration in both. But that
 there ^{are} more points by which their non-
 identity is rendered unquestionable,
 must be as readily admitted by those
 who have seen and compared, and
 studied the two diseases. These are, the

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7
more severe and protracted head-ache in
Typhus; the suffused, and injected state
of the eyes; the dingy hue of the face, and
of the whole body; excessive tenderness
over the epigastrium; and, most impor-
tant of all, the pathognomonic eruption.
This eruption, rare in some rare cases, differ-
ing materially from that of Typhoid
Fever. In Typhus, very many irregular
dark coloured spots upon a dusky ground;
in Typhoid, but a few bright red, well-
defined rose-coloured spots, set off upon
a clear surface. In reference to the suf-
fusion and injection of the eyes, and the
cloudy hue of the face, I have to say that
they are considered by some almost
of themselves pathognomonic of the
disease. Besides these differences in the
symptoms observed during life, there
exist differences quite as palpable in the
lesions revealed by post-mortem. Ulcerations

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of Peyer's and Brunner's glands, so uniform in typhoid fever, is seldom or never met with in Typhus. In the latter the mucous membrane of the stomach is generally found considerably injected, softened and corrugated.

The first two conditions are more especially characteristic of ~~of~~ Typhus, because the gastritis which produces them, is comparatively but seldom present in Enteric fever. Softening and enlargement of the Spleen are also usually observed; but these lesions are, perhaps, quite as frequent in Typhoid

In a recent report of 63 Autopsies of Typhus, made at the Royal Edinburgh Infirmary, by Dr Brounneto, the most constant lesions were softening of the Spleen and the evidences of Bronchitis. This same gentleman, speaking of the organs which he found to be the seat of disorganization, alludes to a peculiar deposit which he observed, and which he has

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9

denominated Typhous; bearing, according to him, a similar relation to the condition of the blood in the disease of which we are speaking, as do, the Cancerous and tubercular deposits in those diseases. He describes this deposit as consisting of a yellowish or flesh coloured exudation, sometimes passing into a brownish colour from the admixture of more or less blood. When first formed it is of a tolerably firm consistence, but rapidly undergoes the process of softening &c. The Doctor's opinion of the pathology of the disease, is, that it consists in a primary alteration of the blood, caused by the peculiar miasm or poison producing Typhus fever; that under such circumstances, local inflammations are set up in particular organs; and that the exudation attending these inflammations, instead of presenting the usual appearance, and

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10

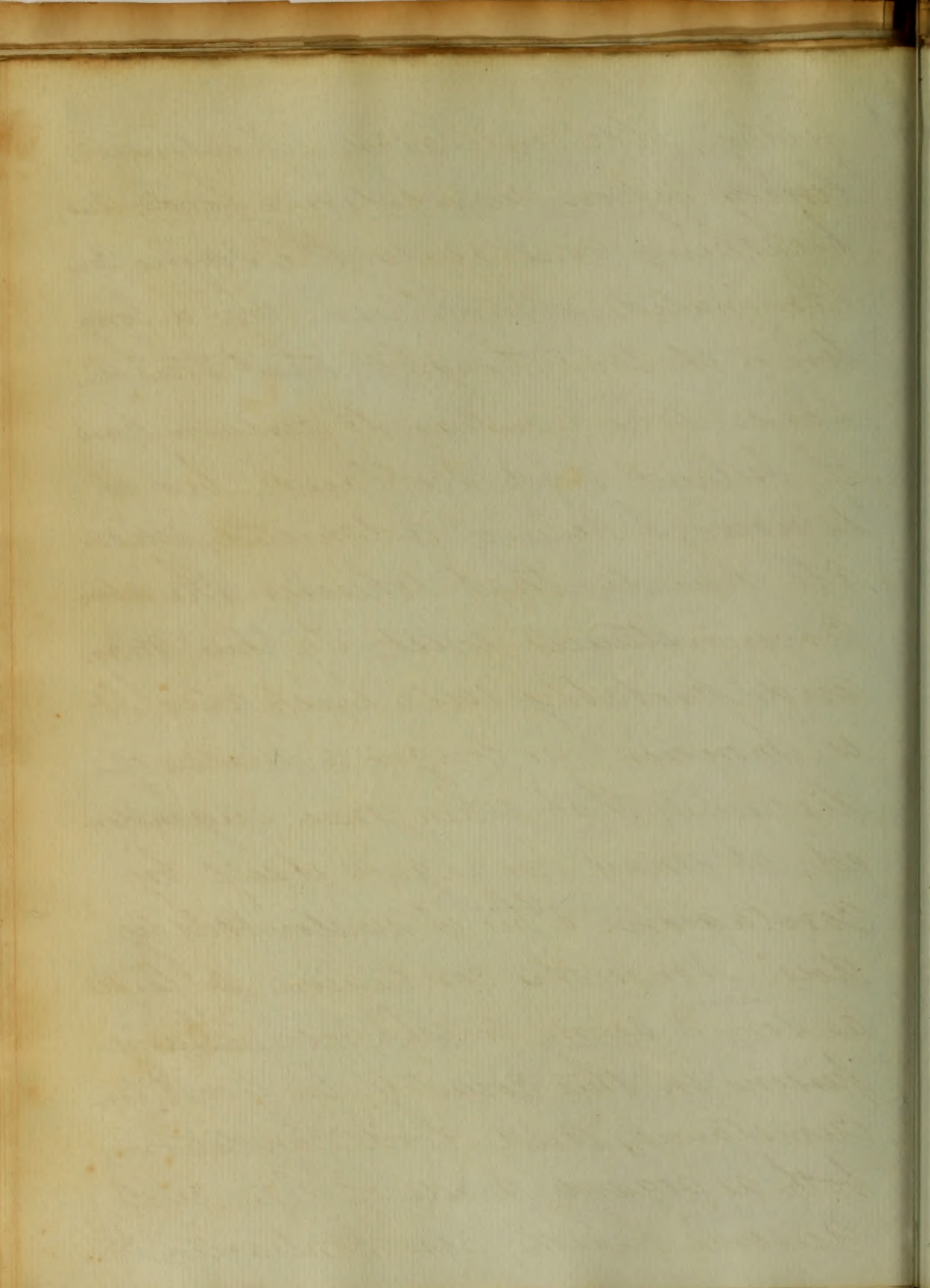
undergoing the usual transformations, become modified, so as to constitute the typhous deposits. In reference to these statements of Dr Bennett, I am, of course, unable to form any opinion. The deposit, he speaks of, may exist, but I do not know of its ever having ^{been} observed in this country. And the pathology he gives may be the correct one, though, as yet, little seems to be known of the nature of the disease. I prefer therefore waiting until time, and a farther investigation of the subject, shall either substantiate, or disprove.

The cause of this disease, whose symptoms, diagnosis and pathology, I have attempted to sketch, is a specific poison. This specific poison is generated among persons who are crowded together in close,

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11

filthy, ill-ventilated apartments; living upon unwholesome food, and breathing constantly the same contaminated atmosphere. For a long time it was thought that this disease was peculiar to certain parts of Ireland and Scotland; but it is now, I believe, admitted, upon all hands, that wheresoever the above circumstances exist, Typhus may, and probably will, exist also. It is, moreover, no longer a matter of dispute, that, when once engendered, it may propagate itself by contagion. This, it undoubtedly does. Nor is the contagion so feeble as some seem to suppose. Many persons in this country, in good circumstances, and good condition, both as regards mode of life, and general health, have contracted the



12.
Disease simply by a few visits to
those sick with it. I may say
here, that against this fever there is
no known prophylactic, except to avoid
what has been mentioned as
its procuring causes. Patients some-
times, and frequently, recover from
this disease, who have had nearly
all the symptoms of a moribund
state: so that the prognosis is un-
certain. Generally, however, a
sudden and decided accession,
and an abundant eruption, es-
pecially when accompanied by
bronchitis, afford reason to apprehend
a fatal termination. If
the attack be severe, and the
bronchitis severe, the prospect of
recovery is exceedingly discouraging.
Of the treatment of this disease I
have now to speak. So far, I think, I

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13
have been as simple, and as brief, as
in the outset I promised to be,
and as I desire to preserve something
like consistency to the end, I shall
still continue to be faithful to that
promise. In the discharge of this
duty, all that I desire is to give
satisfaction; and if, in the impres-
sion I entertain, in relation to what
is required of me as a Student of
Medicine, I find myself to be in
error, then have I entirely mistaken
the Character of the Gentlemen with
whom it is my fortune to have
to deal. Feeling confident that I
am not mistaken, and conscious that
to the best of my ability I shall
have discharged my duty, when
it is done, into their hands I cheerfully
submit my fate.

In the very beginning of this disease

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14

before the chillings and other symptoms of what may be called the 1st stage, have given way to reaction, it is rare that the physician sees his patient, unless this condition is protracted, and the patient is in immediate danger, as, we are told is sometimes the case, from deficiency of reaction, or its entire absence. This does not often happen in this town, but when it does, the indication is to procure, as speedily as practicable, reaction. In the cold stage of Intermittent fever, especially the pernicious form of it, where the indication is the same, in order to "rouse up" the system, and equalize the circulation, an emetic is sometimes resorted to, where the depression is not too great; making choice of those articles whose

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effect upon the heart and and
 Astesies, is the least apt to increase
 the mischief. Here, too, this remedy
 might, in some cases, with equal propri-
 ety be applied. The various internal
 Stimulants, brandy, Ammonia &c with
 friction upon the surface, the appli-
 cation of Mustard plaster, and
 in some cases, hot turpentine fom-
 entations, will also be necessary.

But under ordinary circumstan-
 ces, the treatment is usually commenced
 with a cathartic, and indeed Cathar-
 tics are required of an unirritating
 nature throughout the whole
 course of the disease, where
 there is not, as is most frequently
 the case, any real contraindica-
 tion. By different Writers are
 different Cathartics recommended.
 Rochelle Salt seems to be the

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favourite of one whose opinion
 merits the highest regard. A Com-
 bination of Calomel and Rhubarb,
 by others; the object being, in the
 beginning, thoroughly to evacuate
 the bowels; afterwards the laxatives
 should be of the mildest kind,
 and repeated, only as often as may
 be necessary to prevent the ac-
 cumulation of the vitiated excre-
 tions in the alimentary canal,
 where their presence is always in-
 jurious

Purgation is seldom if ever
 necessary. The strength indeed
 should be husbanded as much
 as possible, and from the com-
 mencement to the end of the
 attack, most religiously should
 this object be kept in view by
 the physician in his ministrations.

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of blood 17

However, the local abstraction, is
often necessary. Where the brain,
Stomach or any other organ seems
to have become the seat of inflam-
mation or active Congestion in the
course of an attack of Typhus, Cup-
ps or leeches may often be resorted
to with great advantage to the
patient, and indeed, are, in many
cases imperatively demanded.

Where the Congestion is more passive
in its Character, and the smallest
loss of blood would take away
too much from the waning stren-
gth of the patient, Dry Cupps
may be, and ought to be preferred.

Refrigerant diaphoretics, as the
ordinary saline mixture, and the
acetate of ammonia in solution
are in common use. Sometimes those
of a gently stimulating nature,

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18

Such as, the infusions of *Serpentaria*,
of the flowers of *Arnica*, and even
Contragerra and *Angelica*.

Stimulants by some are used from
the very onset of the disease, or at
any rate, immediately after the
free operation of some saline
purgative; others again defer them
until the disease is somewhat ad-
vanced, and symptoms of debility
begin to develop the reality of that
condition of the patient.

The former plan of treatment, or some-
thing very much like it, has been
found to be the most successful
at the *Balth Alms-house*.

I have been informed, that, in this in-
stitution, the common practice is to
give in the first place, as a purga-
tive, about an ounce of *Sal Rochelle*.
After this has operated, *Spiritus Mindereri*

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in half ounce doses three times daily;¹⁹
or, where the debility seems to be greater
Carbonate of Ammonia or Quinine.
The former in doses of five grains,
and the latter of three grains, three
times per diem, in solution. Infu-
sion of Serpentina, Strong Coffee,
best tea, are also allowed. If there
be diarrhoea, Rhatany in infusion; as
this symptom is thought to be depen-
dant upon weakness.

As to external Stimulants I may
mention, flying blisters as recom-
mended by Boerhaave; Sinapisms to the
extremities; frictions with Cayenne
pepper, hot brandy and oil of turpen-
tine. These are useful in prostration,
and where the heat of the surface
is greatly below par.

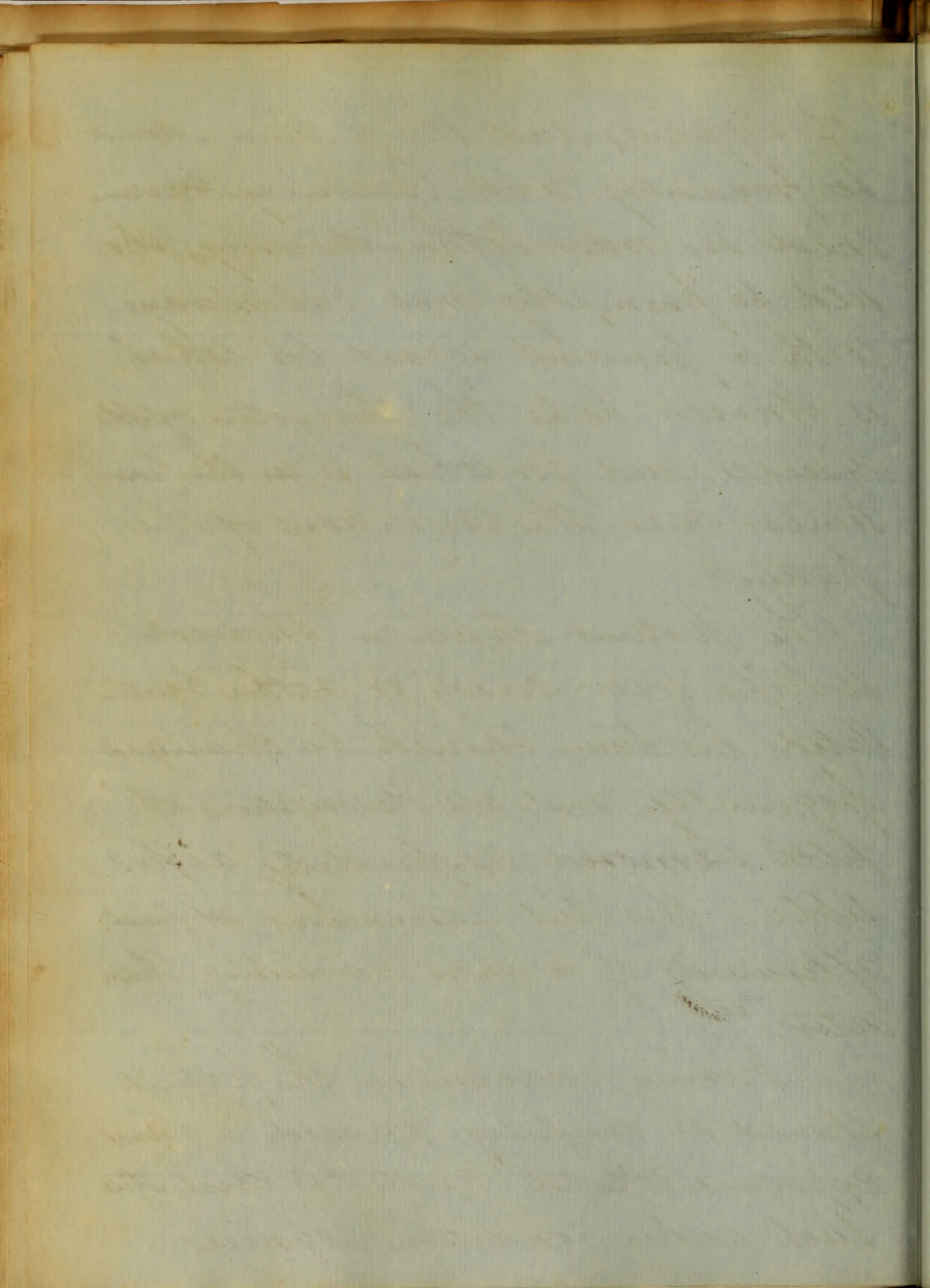
All complications which may
arise in the course of an attack

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of Typhus, and the patient should²⁰
be frequently and carefully exam-
ined in order to their discovery, sho-
uld be promptly met, but always
with a prudent regard for what
is known to be the Character of the
Disease, and for what is, in the par-
ticular Case, the Condition of the
patient.

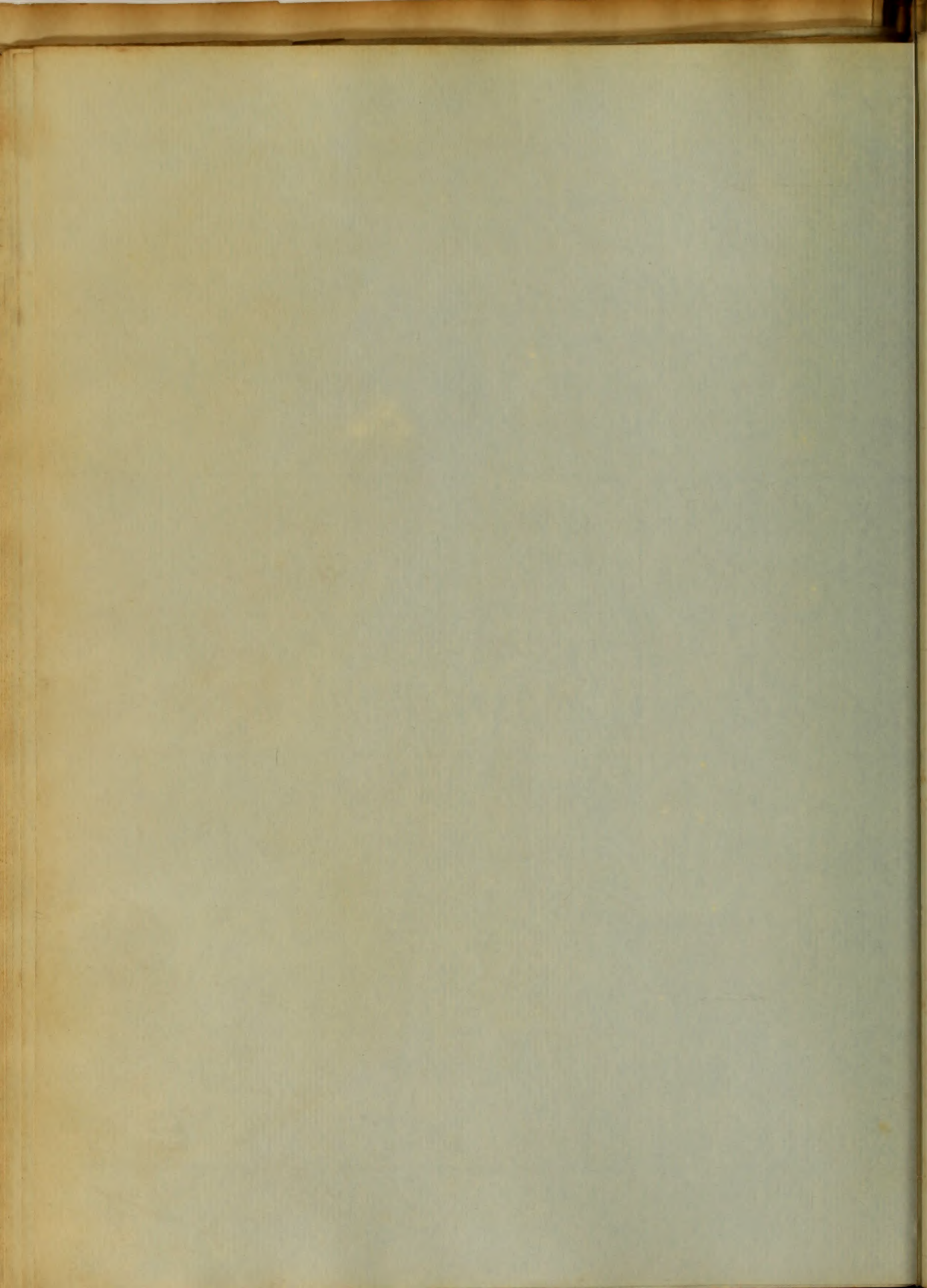
The patient Chamber should
be kept well aired, or rather venti-
lated: his linen should be changed
frequently, and all descriptions of
filth removed as speedily as pos-
sible. His diet farinaceous at first,
afterwards of a more nourishing Char-
acter.

During Convalescence the patient
should be carefully guarded against
exposure to cold, and his diet still
Such, as his Condition requires



I might mention, many more little ²¹
things, which ought to be attended
to; some done, some left undone, &c
I forbear —

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An
Inaugural Dissertation
on
Necrosis.

Respectfully submitted
to the

Provost, Regents, and Faculty of Physic
of the

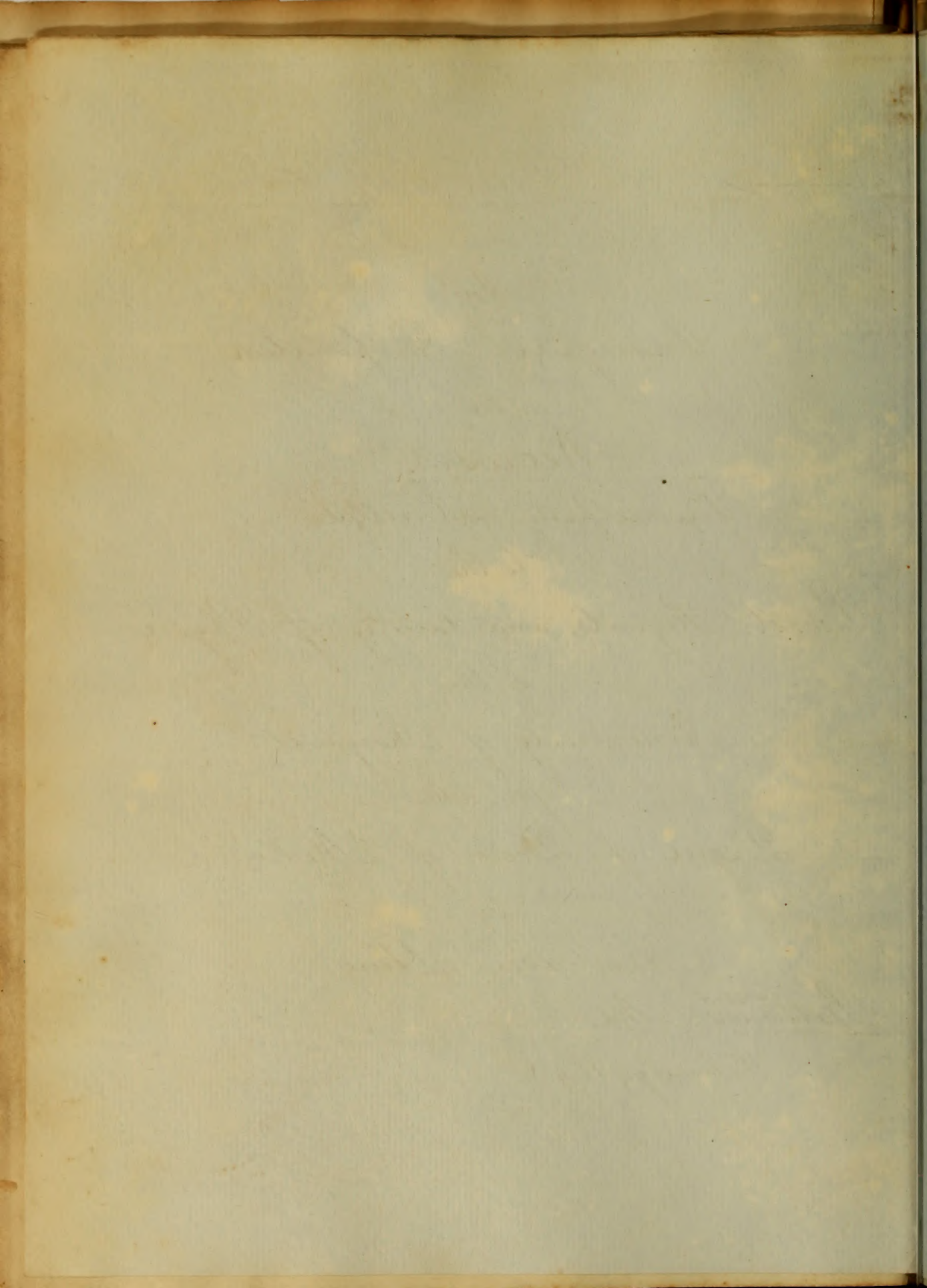
University of Maryland,
for the

Degree of Doctor of Medicine,
by

William Haig.

Baltimore, Md.

February, 1848.



To

Nathan R. Smith, M.D.
Professor of Surgery in the University of Maryland.

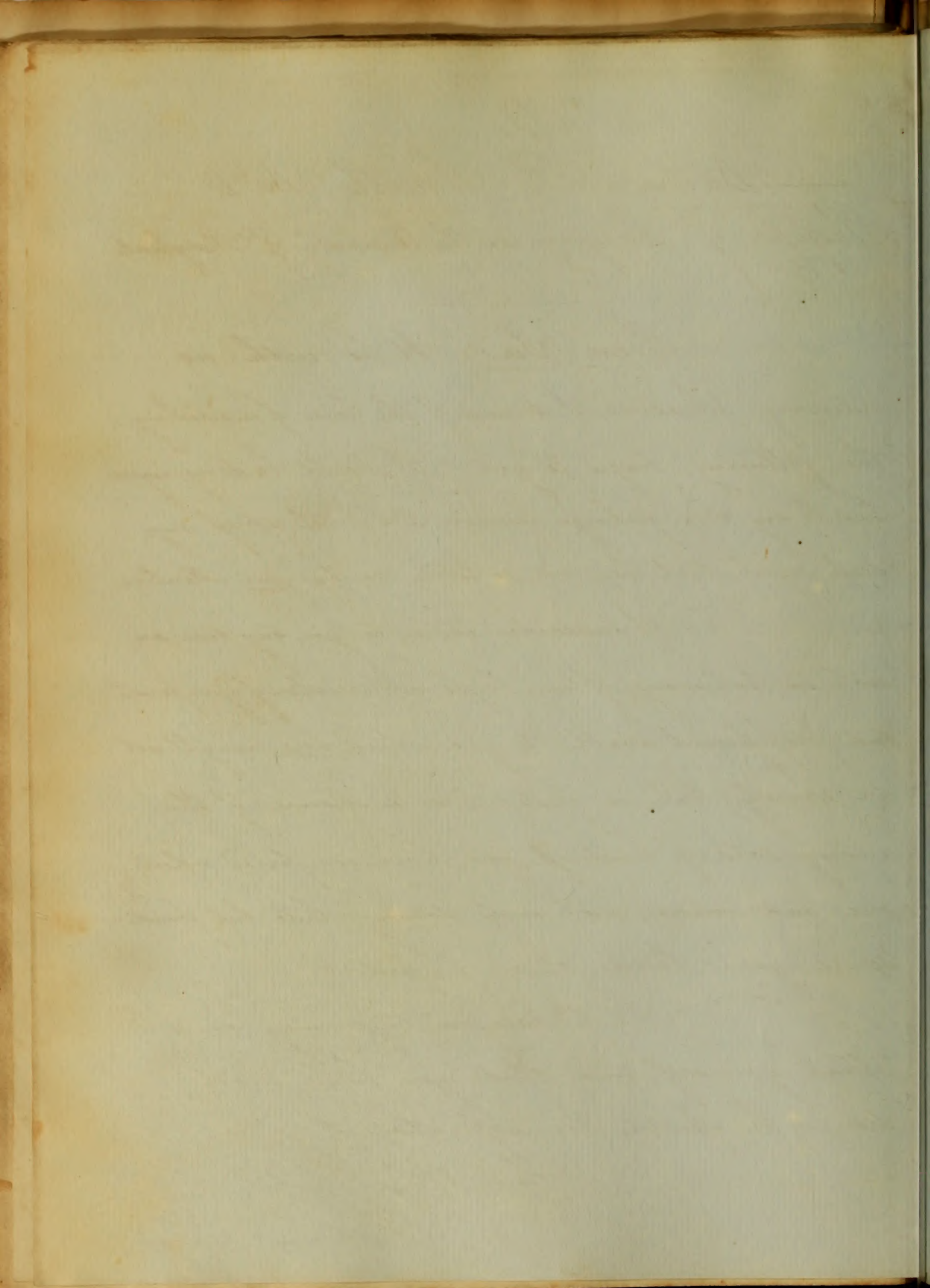
Dear Sir: It is with no ordinary pleasure I do myself the honor of inscribing the following pages to you. I should be doing injustice to my own feelings, however, did I not express my deep regret that they are so little worthy your attention.

I inscribe them to you, my dear sir, not in testimony of my high appreciation of your private and professional worth, (to give which here, might not be security,) but in grateful remembrance of the many acts of kindness you have conferred upon me and mine, not only during late, but former years—years long, since passed.

That halcyon days may ever attend yourself, and those you hold most dear, is, be assured, the aspiration of

Your obliged pupil,

William Haig

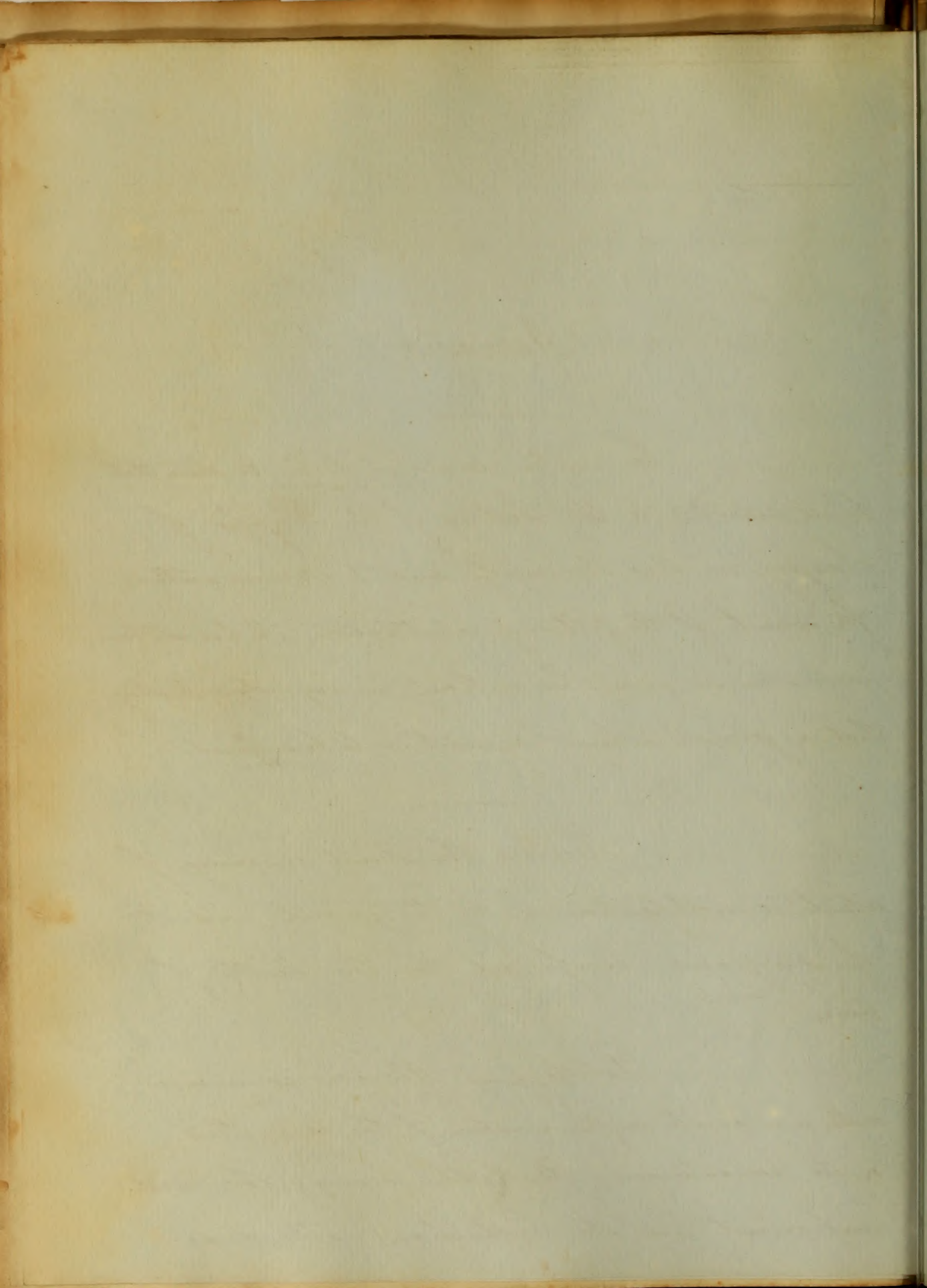


Necrosis.

The writer deems it proper to state, that he is indebted to the Lectures of the Professor of Surgery in this University, and to various authors, for much of the following composition. He has not been particular in giving his authority in every instance, trusting that a general acknowledgment would be sufficient.

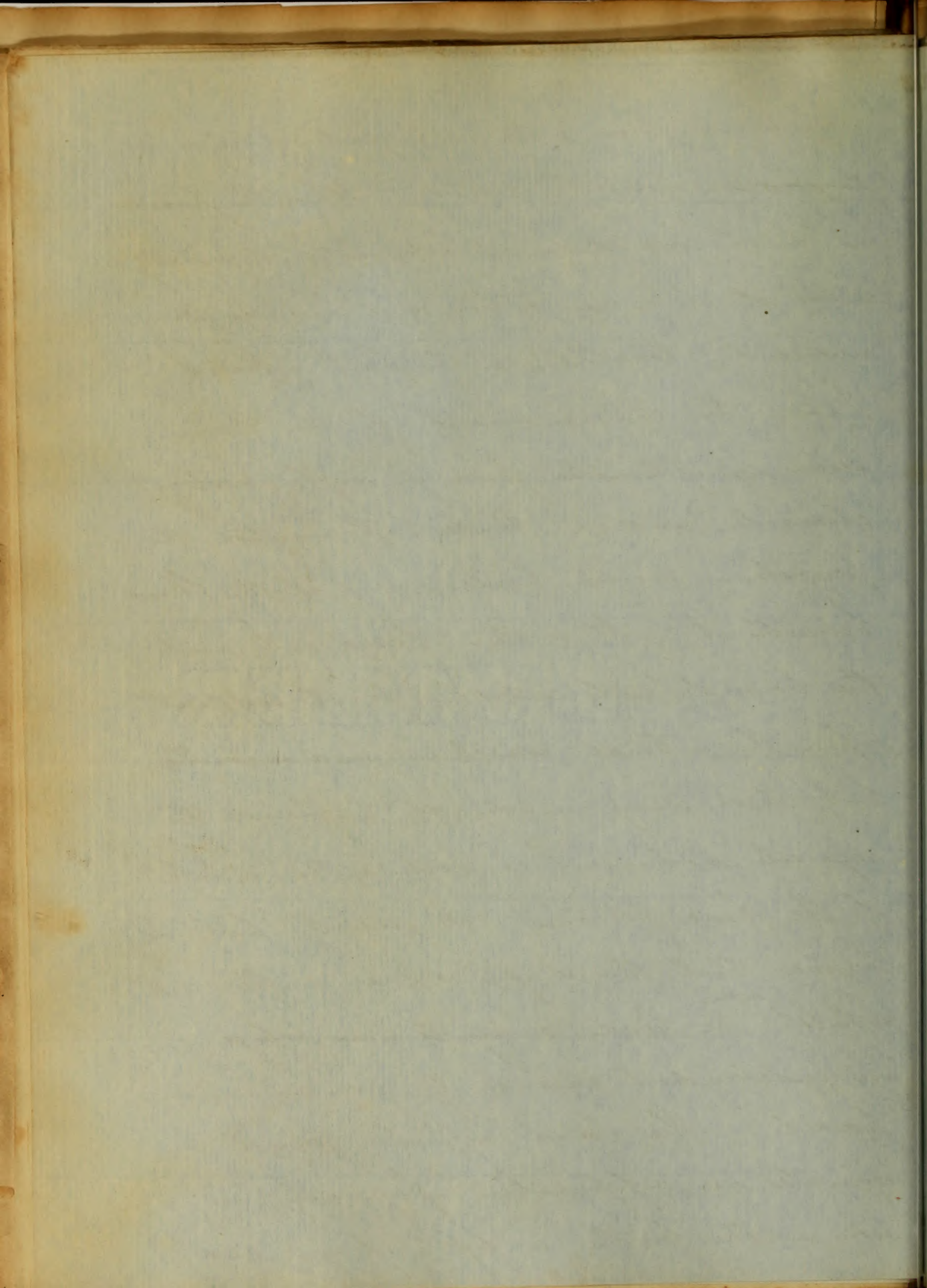
Necrosis, the strict meaning of which is mortification, is, by the general consent of surgeons, confined to the death of bone.

Pathology. Necrosis commences with an acute inflammation of the bone itself, or its periosteum, (the latter being the most important in its production) attended



with acute pain either in the part affected, or in the joint nearest the disease. When the pain is first located in an articulation, it generally leaves it in a day or two, and becomes permanently located in the part affected.

From the commencement of the pain, severe symptomatic fever of inflammatory character, arises. Under inflammation, the periosteum swells, hardens, and matter forms beneath it. It is then forced out, and the bone depends entirely for its support upon the internal periosteum and medulla, but these being inadequate to furnish the requisite nutriment, a part, or the whole of the bone perishes. It generally happens, however, that the shaft alone suffers, whilst the heads, owing to their possessing an independent vascularity, remain unimpaired. The local affection generally terminates in suppuration, frequently as soon as the fourth or fifth day, and



3

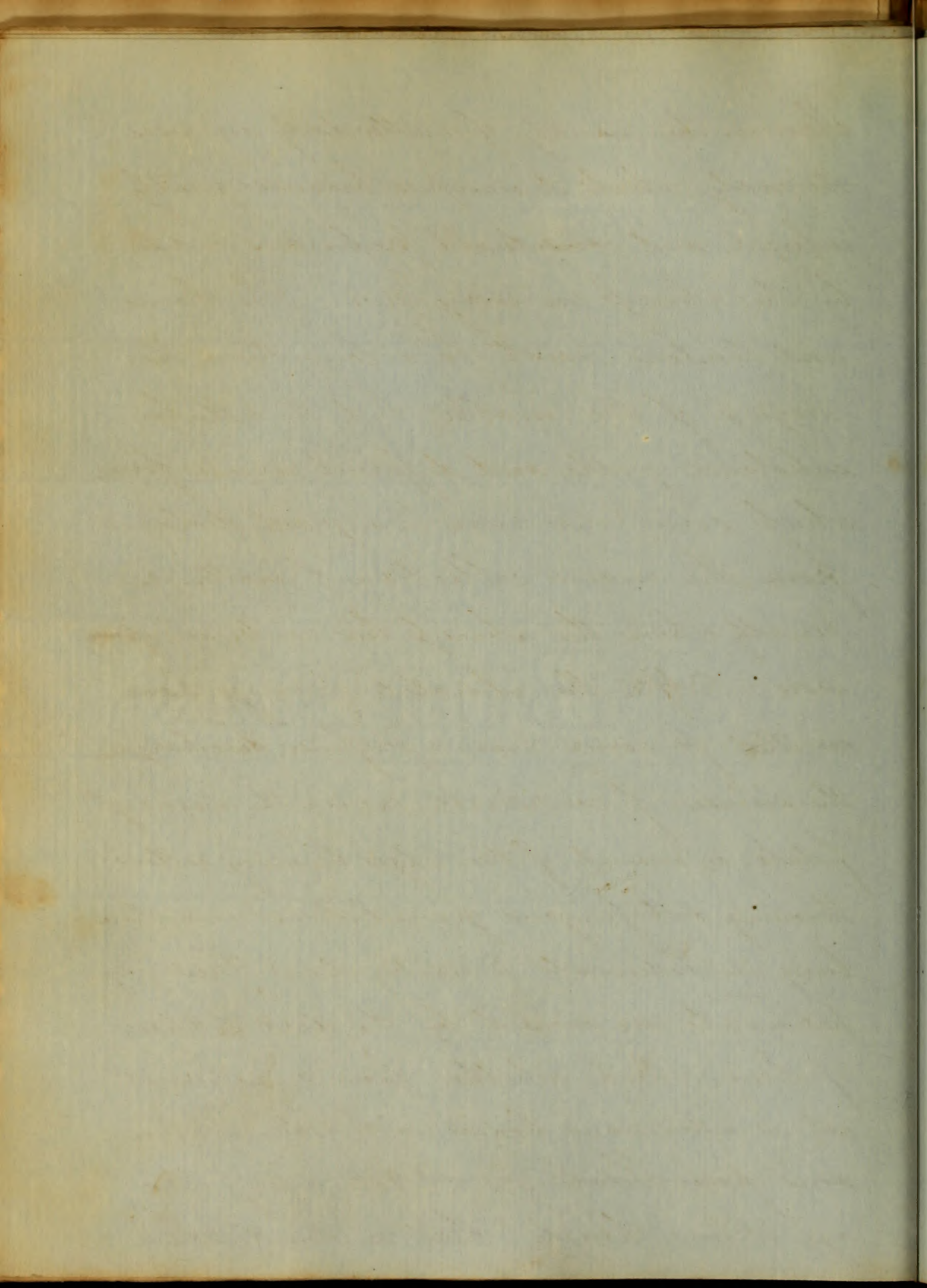
this event, should it occur, is seldom pro-
tracted many days beyond that period.

Although the whole limb swells very soon
after the attack, there is no marked tumefaction
in the part affected, until the
matter makes its escape from the periosteum,
and is diffused beneath the adjacent
soft parts. Whenever this occurs, the ex-
treme pain and symptomatic fever, which,
till then, have continued unabated, sub-
side, but do not entirely, leave the patient.

Necrosis sometimes, though rarely, arises
from suppuration of the internal periosteum,
and produces effects similar to those
just described.

The abscess that accompanies
Necrosis soon bursts naturally, when it
arises from intense inflammation, situated
so as to involve the skin. But when the
bone is surrounded by a great thickness
of soft parts, and the inflammation is

4
Chronic, the quantity of matter daily increases, the cavity, which it occupies, becomes greatly enlarged, and considerable pressure is made by the abscess on every side. The bones and tendons resist for a long time, the progress of the matter, but the cellular substance yields, and different sinuses form, which sometimes run to a great distance from the main collection of matter, especially when the abscess lies under an aponeurosis. After the ulcerated openings have emitted for some time, a profuse discharge, the sinuses, if considerable, receive the name of fistula, on account of their edges becoming callous, throwing out fungous granulations, and there being impediments to cicatrization. These impediments are caused by the dead portions of bone, which, whether loose or adherent, act as extraneous bodies in hindering the sores from healing. Not many years ago, it was thought that in this disease,



5.
the matter was invariably sanious, acrid and fetid. This opinion, however, no longer exists. Weidmann ascertained that the suppuration from ulcers situated over diseased bones, continues white and laudable as long as the patient's health is good; but that it deviates from these properties in proportion as the health becomes impaired.

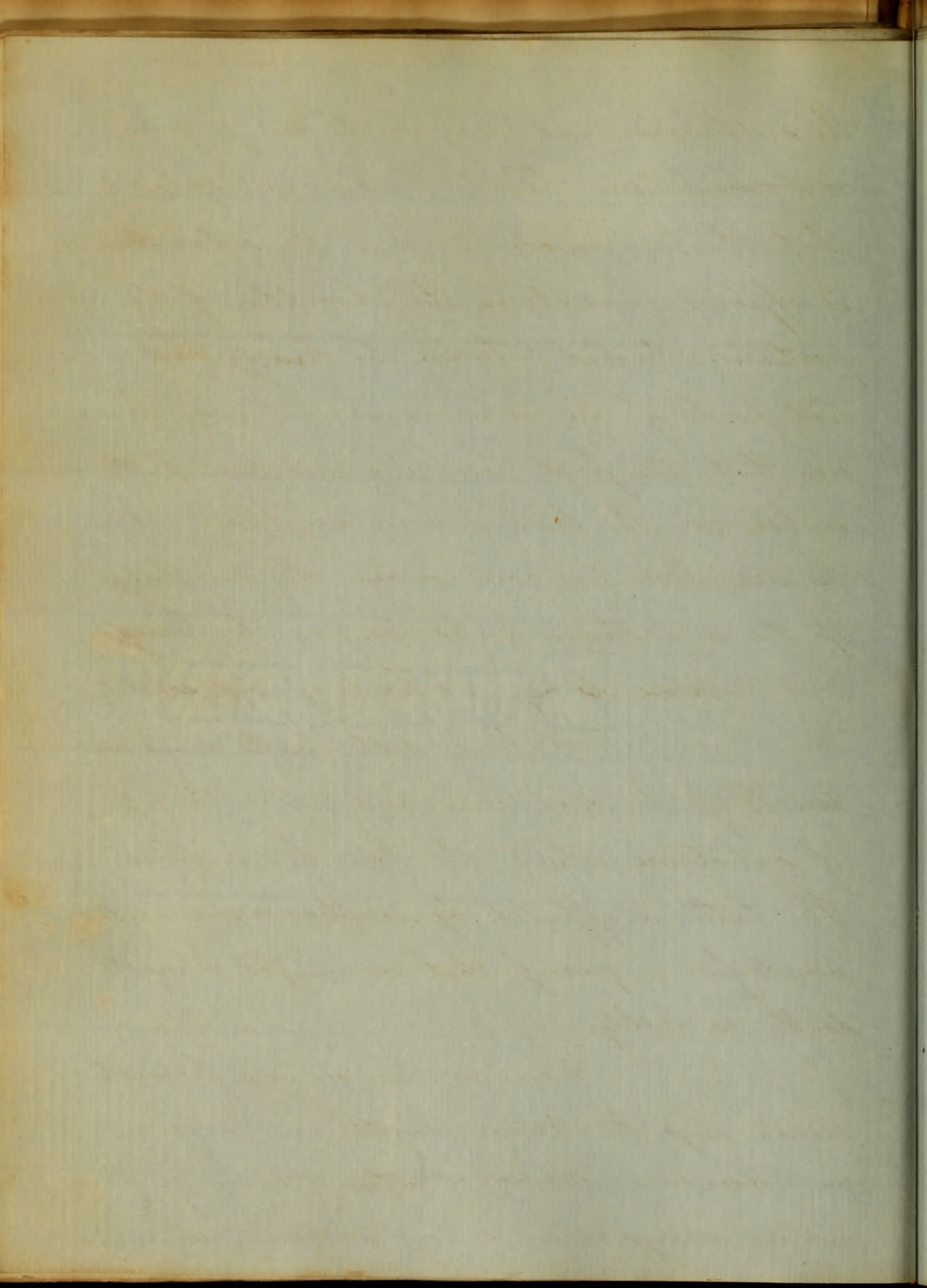
When bone dies, Nature separates it from the living parts. This separation occurs precisely at the point of union between the dead and living portions. Concerning the means employed by Nature in effecting this separation, a variety of opinions have been entertained. Hippocrates believed that the dead part was pushed away by a fleshy substance which grew underneath it; Van Swieten conceived that the dead part was forced away by the incessant beating of the arteries; M. Sabre ascribed the separation to the extension and expansion of the vessels; and others supposed that the effoliating piece of bone became loosened by

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the suppuration, and partly by the rising of the new granulations. But Weidmann explains that the true mode by which the separation is effected, consists in the absorption of the particles situated between the living and dead parts of the bone, in such a way, however, that the first loses a great deal of its substance, the last, scarcely any thing. After the dead bone has come away, the swelling of the periosteum subsides, and the living bone recovers its original hardness and solidity.

Nature's last objects are, to rid herself of the dead bone, and restore the loss of substance which the bone has suffered. The latter is effected by so extraordinary and wonderful a process, that one might almost doubt its reality.

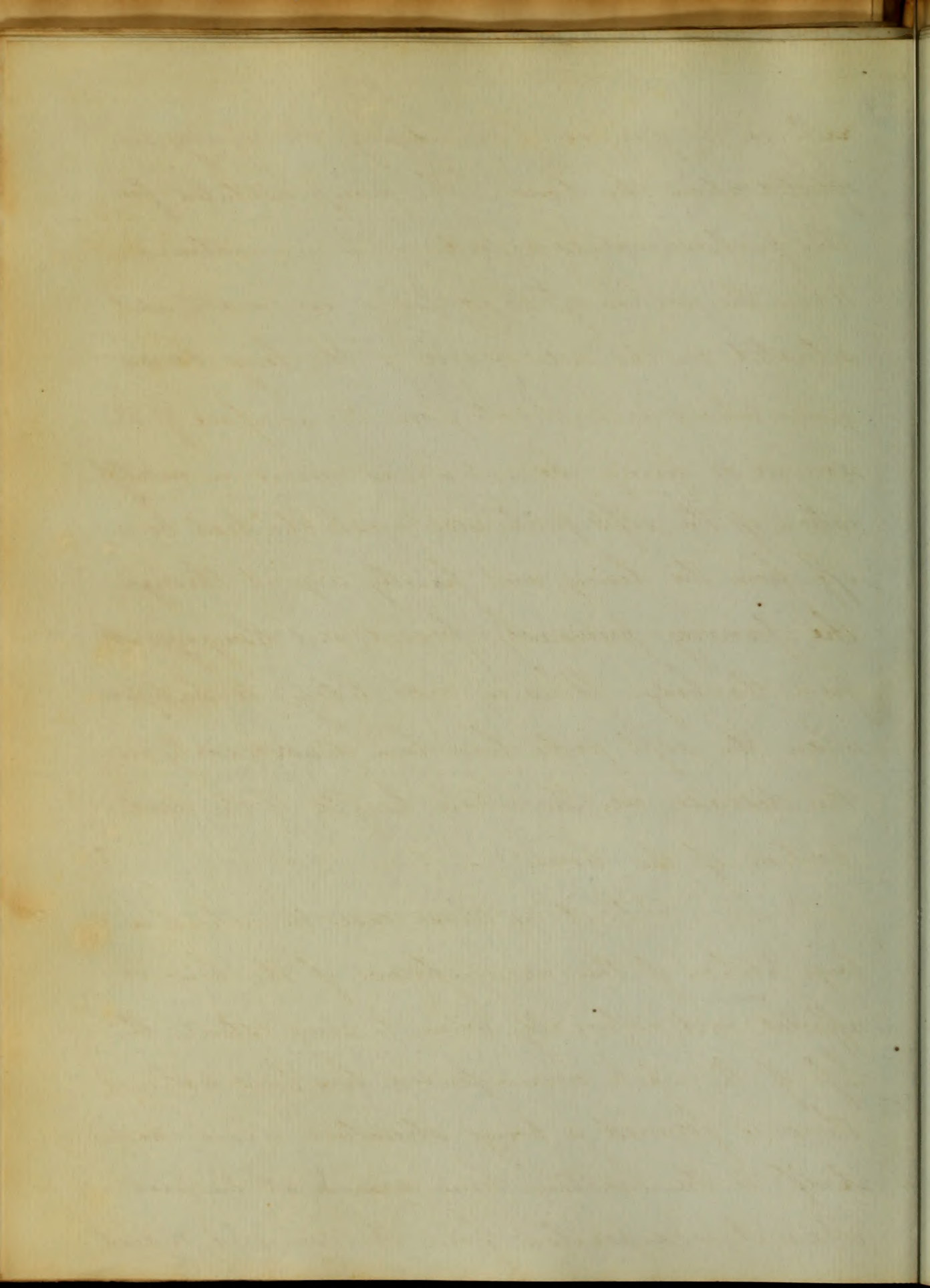
"Whenever there occurs a favorable respite," says Dr. Nathan Smith, in his Essay on Necrosis, "the conservative powers of nature, always active so long as vitality remains,



rally for the purpose of remedying the injury inflicted upon the bone. The process instituted for this purpose, varies according to circumstances.

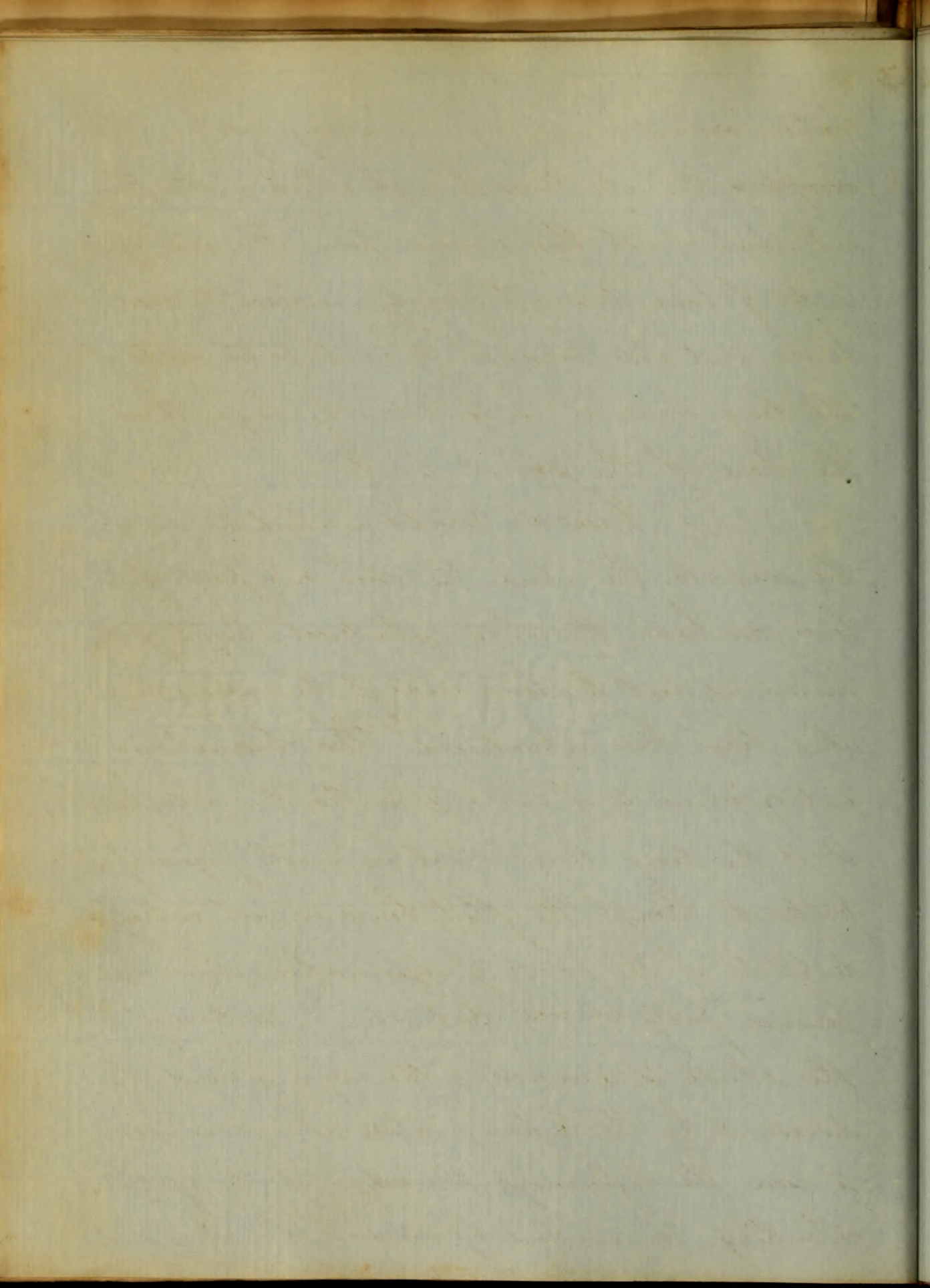
When the portion of dead bone is small, and situated on the side of one of the long bones, granulations will shoot from the surface of the sound or living bone, and, as occurs in mortification of the soft parts, will push the dead bone off from the living, and finally urge it through the opening, previously formed, and disengage it from the body. This is more likely to happen when the soft parts have been divided, early in the disease, over the whole length of the dead portion of the bone.

But in those cases in which a large portion of the circumference of the bone is affected, and especially when, to some extent, the life of the whole circumference has been destroyed, there is formed a bony structure, which attaches itself to the healthy bone near or at the part where it has separated from the sequestra or dead



portions, around which it forms a bony case, complete, excepting the apertures through which matter flows, and which must thus remain open. The new cylinder of bone does not closely embrace the dead; hence, and also because it overlaps the ends of the long bone, it is considerably larger than the bone of the sound limb."

Cases are recorded in which the clavicle, the scapula, the ulna, the whole, or a part of the lower jaw bone, the whole cylindrical shaft of the humerus, and the lower ends of the radius and ulna have been reproduced. The observations and experiments of various authorities prove, that it is the long bones which are most frequently reproduced, though the flat bones are not entirely destitute of the power of regeneration, since experience fully evinces that when a portion of the skull is removed, either by a wound, by disease, or by the trepan, nature always endeavours to cover the deficiency; the edges of the aperture extending themselves by means of a bony sub-



9

stance furnished by the periosteum, the dura mater, and cranium itself. But still the reproduction is imperfect, as an unossified place is always left even when the bone has lost only a small piece like that taken out by the trephine; and when the destruction is very extensive, there is no reproduction. This fact, which is proved by the observations of Sauriard, Pott, Sabatier, &c., is particularly noticed by Sir Astley Cooper. The power of reproduction in the bones is particularly active in the early periods of life, and in healthy subjects; but it is languid, and even annihilated, in old persons, pregnant women, and in venereal, cancerous and ricketty patients.

The bones most frequently affected with necrosis, are, the tibia, femur, lower jaw, clavicle, humerus, fibula, radius, and ulna. The time of life most subject to this disease, is from twelve to eighteen years of age. Necrosis of the lower jaw, however, seldom

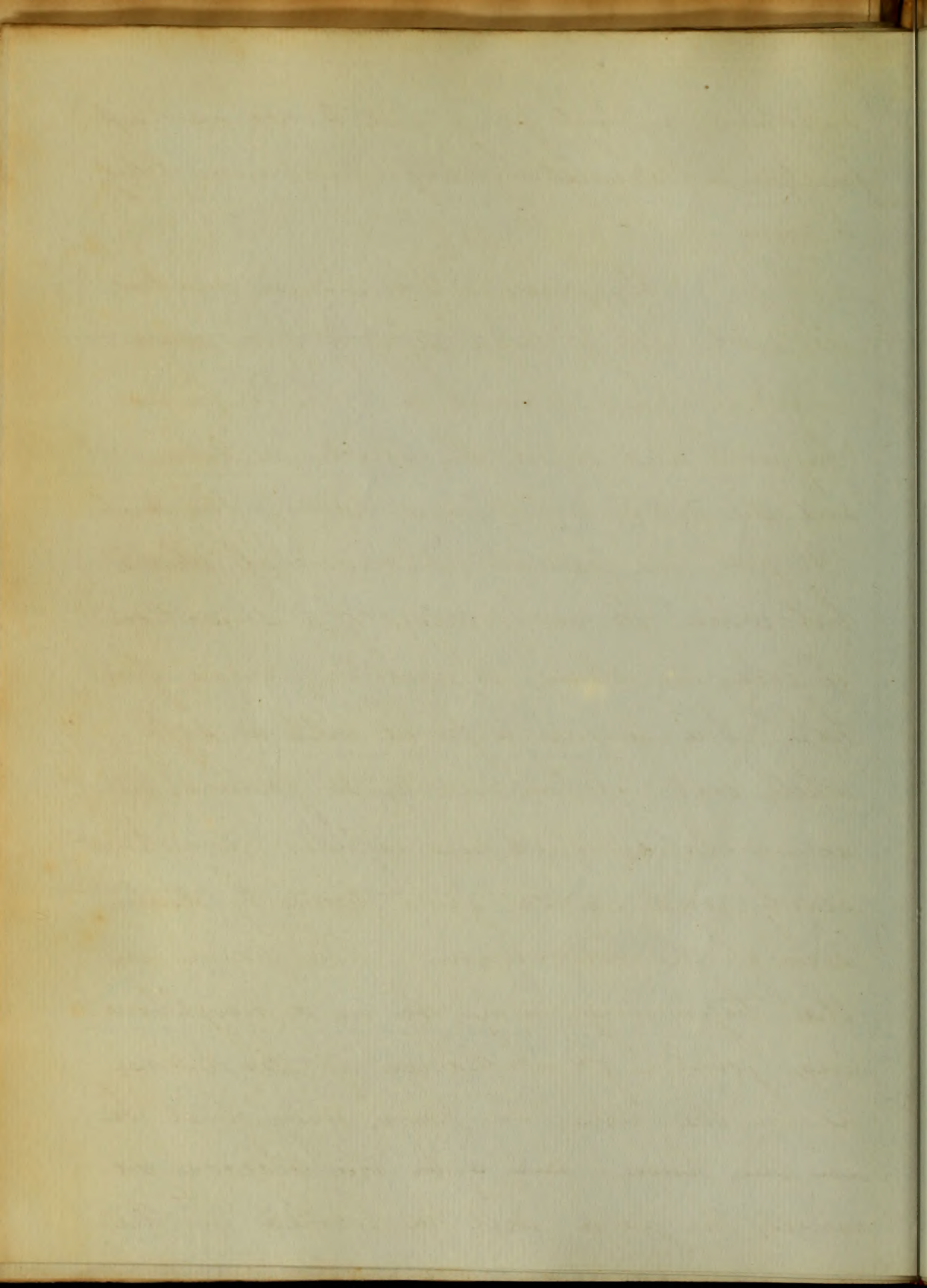
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occurs before the age of thirty. No climate, age, sex,
mode of life or condition is exempt from this disease.
Childhood and puberty are the periods most ha-
ble to it. The same thing may be said of
persons who labour hard, and are much exposed
to external injuries. Every bone of the human
body is subject to necrosis; but those which
are superficial and enter into the formation of
the extremities, are more frequently affected than
others whose situation is deeper. Necrosis less
commonly attacks the spongy substance
of the bones, because it is endued with a
higher degree of vascularity;— On the contrary,
it is oftener seen in the compact substance,
where the vital principle is less energetic and
more readily extinguished. As a modern writer
remarks, a very slight injury will frequently
occasion an extensive exfoliation from the sur-
face of the cylinder of a long bone; but a
musket ball may pass through the cellular
structure of an epiphysis, or lodge in its

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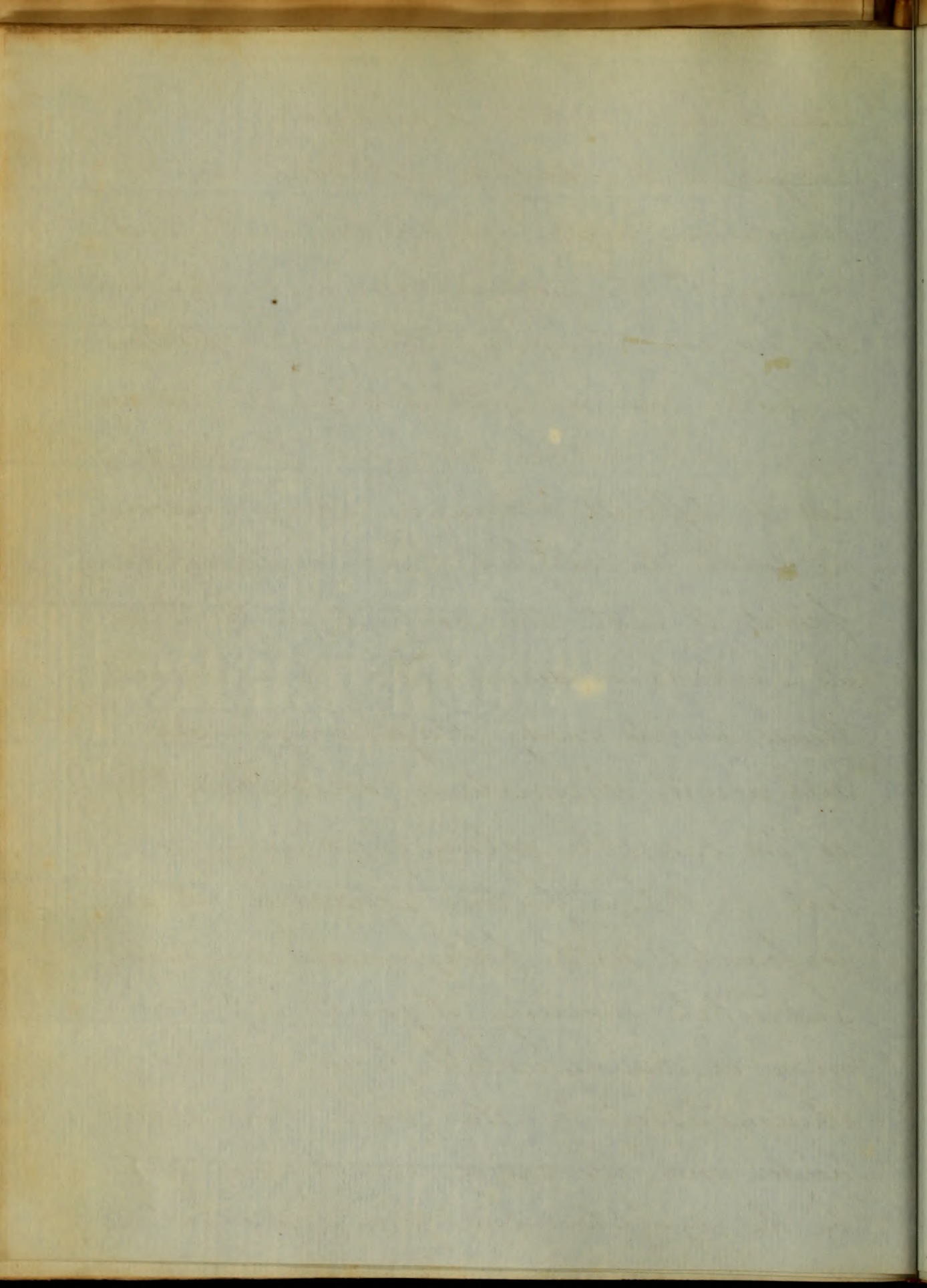
substance, without giving rise to necrosis, suppurative inflammation being much more likely to occur. 11

Diagnosis. — The disease makes its onset with a high degree of fever, severe pain, restlessness, delirium, &c. The pulse is frequent and quick, the stroke sudden, and the artery small and hard to the touch. At first, the patient has occasional chills; but when he complains of a sensation of cold, the skin, to another person, feels hot. The tongue is furred with a soft white coat. When matter is formed, it accumulates sometimes rapidly, sometimes slowly, and causes great pain by distension of the periosteum. The pain in the beginning, may be in a neighbouring joint, — for instance, if the disease is in the tibia, the pain may first be in the knee; but after the disease advances, the pain will be located in the



diseased part. Although no disease is more 17
painful to the sufferer, yet when the
periosteum gives way, and the matter makes
its way to the surface, becomes pointed, and
the surgeon opens it, there is a cessation
of pain and an abatement of the disease.

The diagnosis of this dis-
ease is difficult, owing, in some measure
no doubt, to the fact that authors have
failed to treat the subject so fully as
its importance demands. It is, some-
times, in its early stage, confounded
with acute rheumatism, and when this
is the case, the golden opportunity is
lost. When further advanced, it is
confounded with phlegmonoid erysipelas,
and white swelling of joints. Necrosis
may be distinguished from acute
rheumatism by the pulse being smaller,
harder, and less easily compressed, and
by the symptomatic fever and constitu-



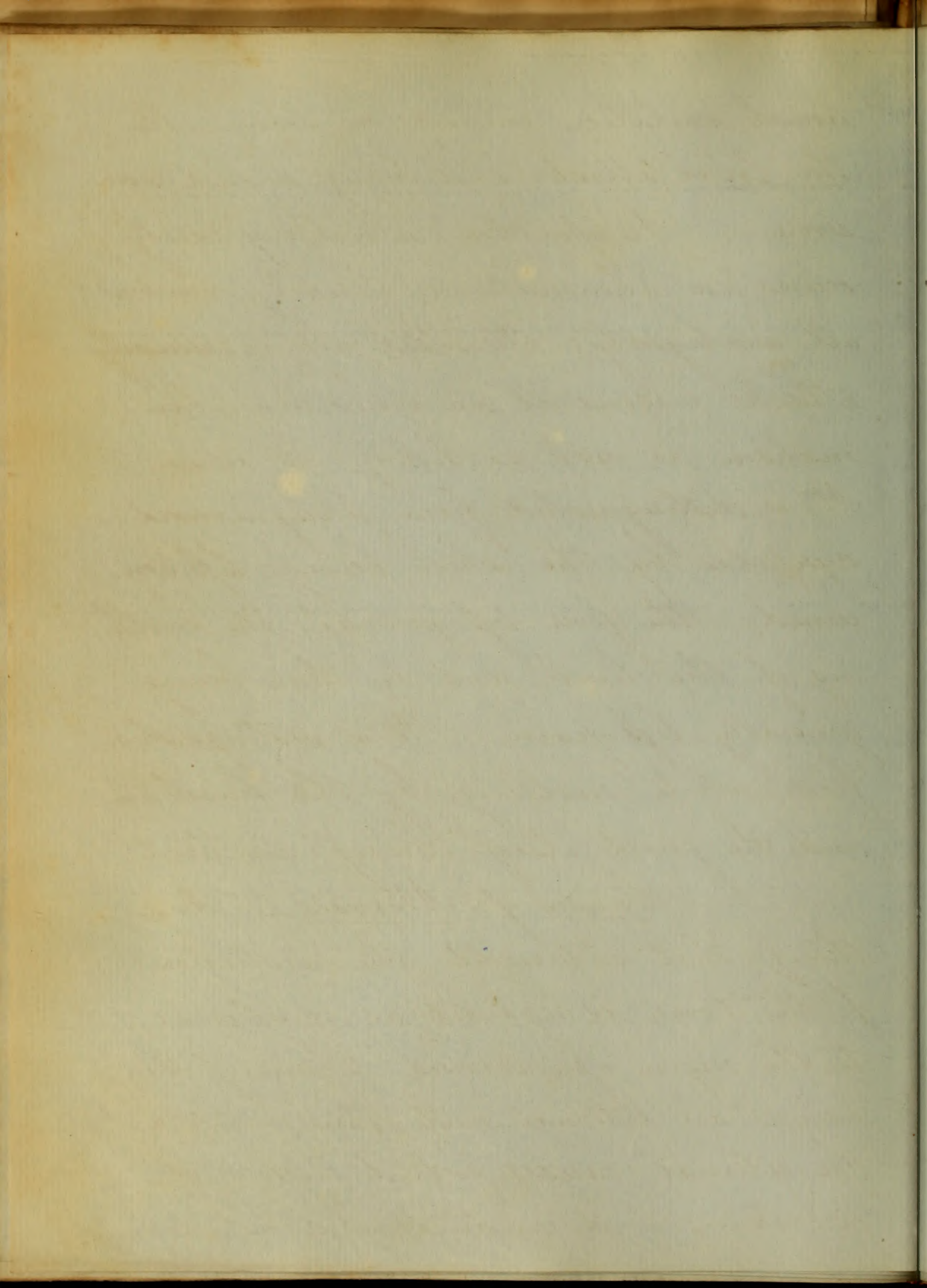
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tional irritation coming on sooner after the local attack, and being much more severe. Suppuration, which very rarely occurs in rheumatism, finally removes all ambiguity. Besides, necrosis usually attacks persons at an age when rheumatism is not so likely to occur.

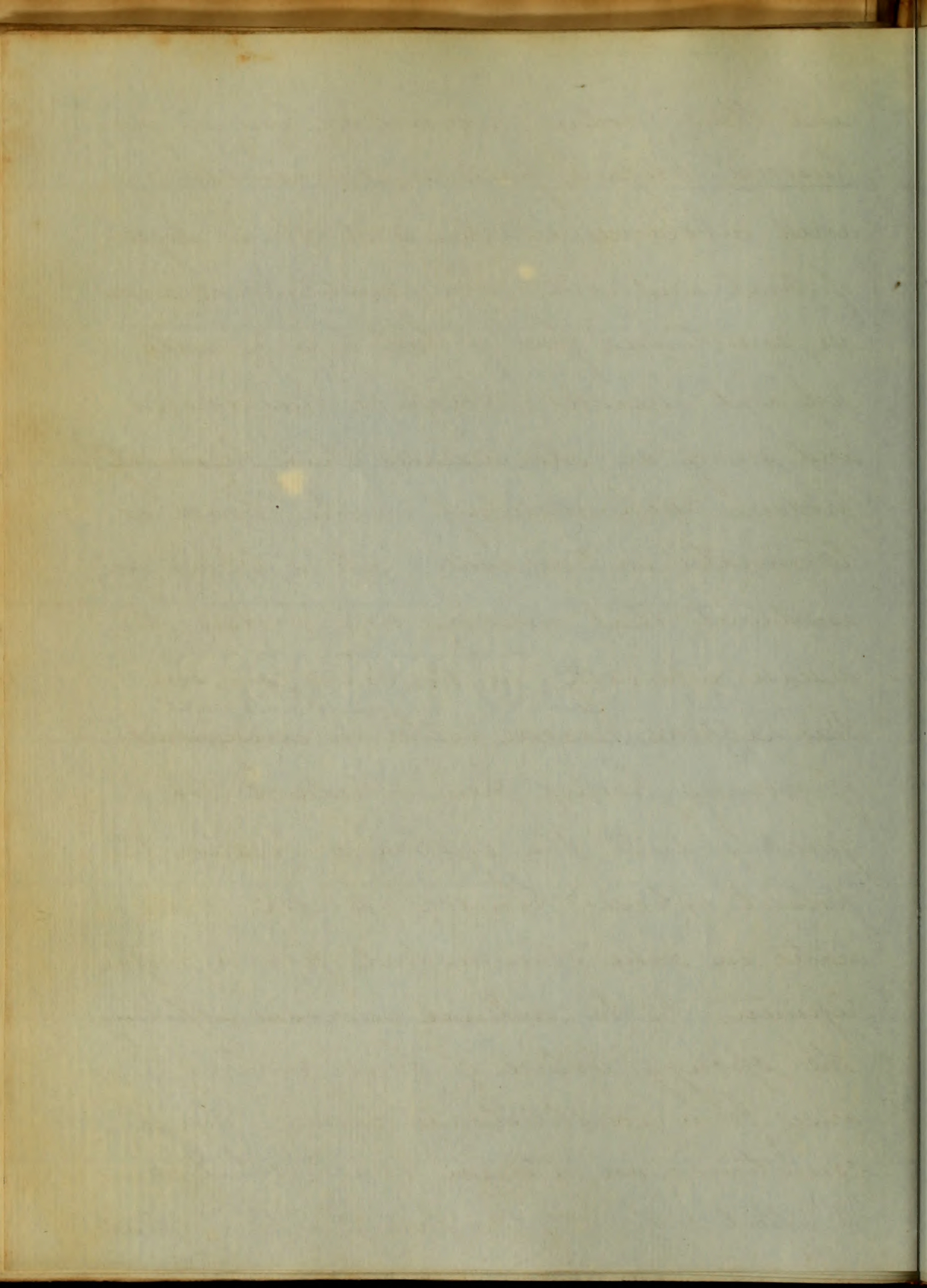
It is distinguished from phlegmonoid erysipelas by the skin being less concerned, the fever less general, the swelling of the limb, and by there being generally less pain. It is distinguished from white swelling, by the fenestram, and the joint itself being in tact.

Causes of Necrosis.—

Any thing that interrupts the nutrition of the bone, is regarded as conducive to the origin of necrosis. Some of the causes are external, and others constitutional. The external causes which injure the periosteum and medullary substance,



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and thus produce necrosis, are wounds, con-
tusions, pressure, fractures, comminutions,
acid substances, caustics, and extreme degrees
of heat and cold. The constitutional causes
are, sometimes, fever of bad type, small
pox and measles. Scrofula, lues venerea
and scurvy are also diseases that frequently
produce such mischief in the bones as
terminates in necrosis. It is likewise well
ascertained that mercury will produce the
disease, especially in the lower jaw bone.
This happens, however, either in consequence
of mercury having been introduced too
quickly into the system, or because the
patient exposes himself to cold, or de-
viates, in some other respect, from a proper
regimen. An internal necrosis, affecting
the spongy texture of bones generally,
arises from constitutional causes, though
sometimes an external cause, which seems
to affect only the surface of a bone, extends

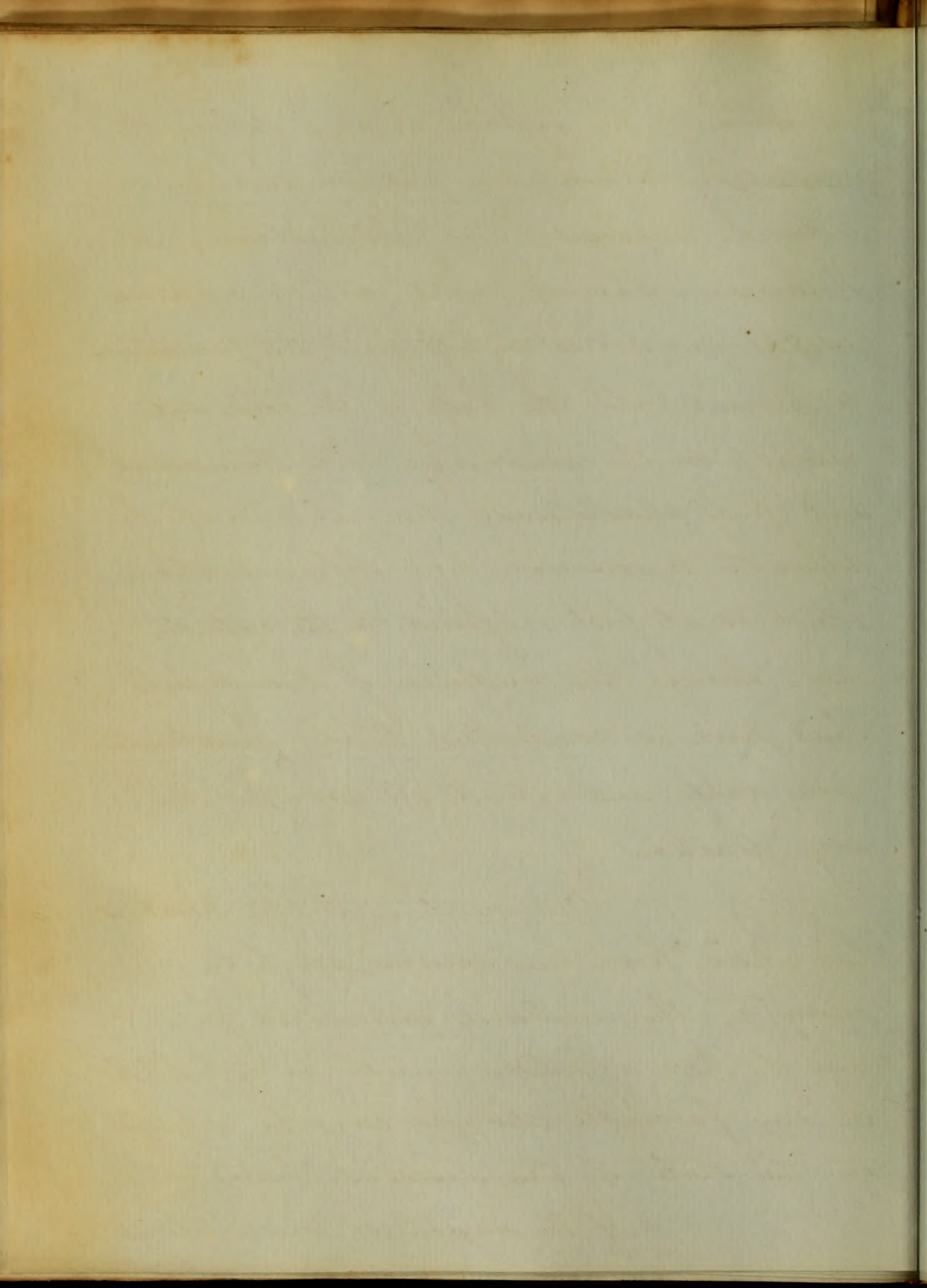


its action to the interior, so as to destroy the medullary membrane and produce an internal necrosis. — This circumstance, as Weidmann observes, ought not to surprise us. As numerous vessels quit the periosteum to descend into the body of the bone and ramify, on the medullary cells themselves, and freely anastomose there, it cannot be difficult to conceive how inflammation, which is at first confined to the outside, may (through the medium of these vessels, which serve as conductors to it) penetrate more deeply, and extend its ravages in every direction.

Treatment. —

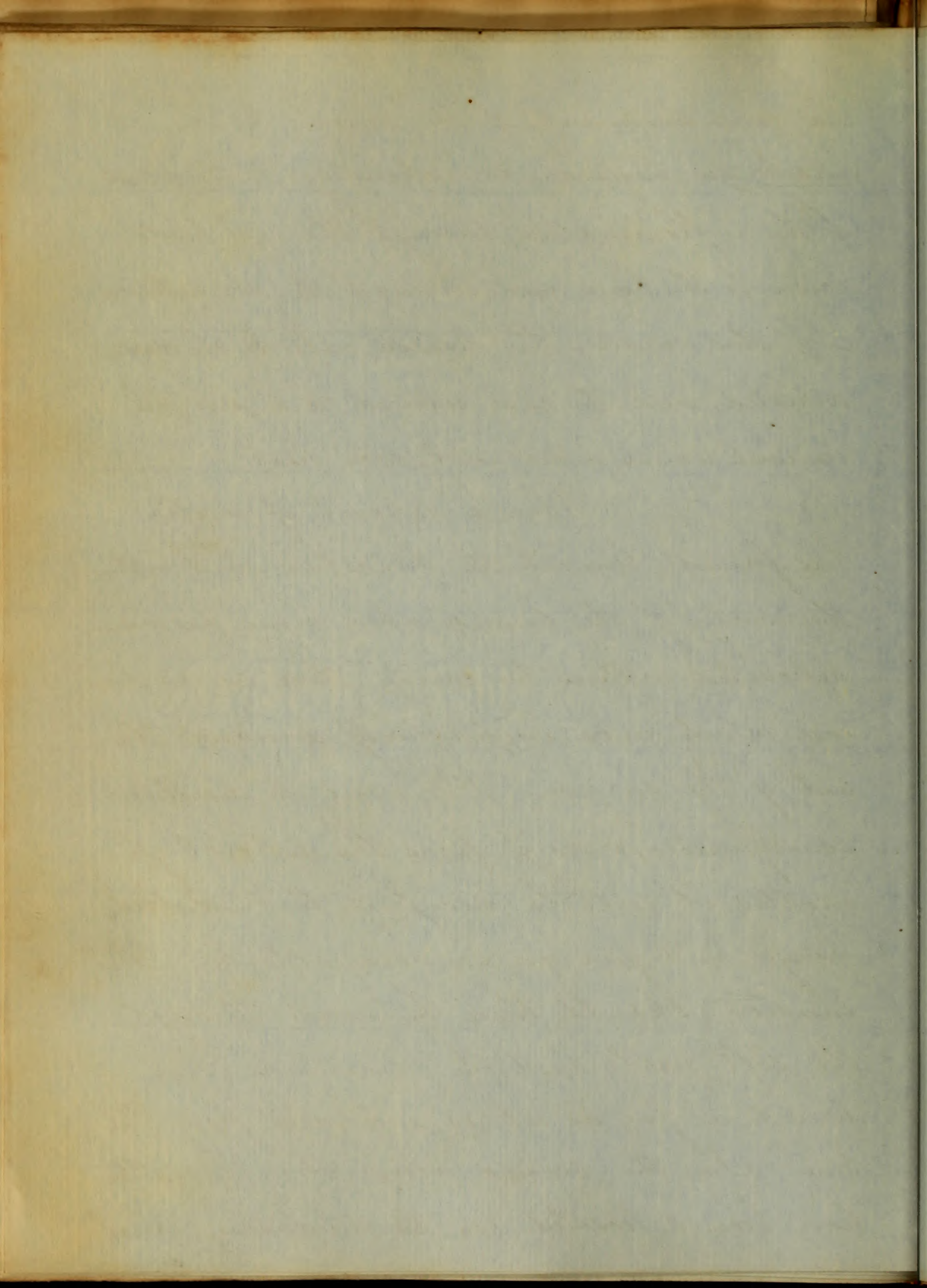
When necrosis has arisen from lues venerea, scrofula or scurvy, &c, the medicines calculated for the cure of these affections must be exhibited, ere any favorable changes can be effected in the state of the diseased bone.

If the surgeon is consulted at



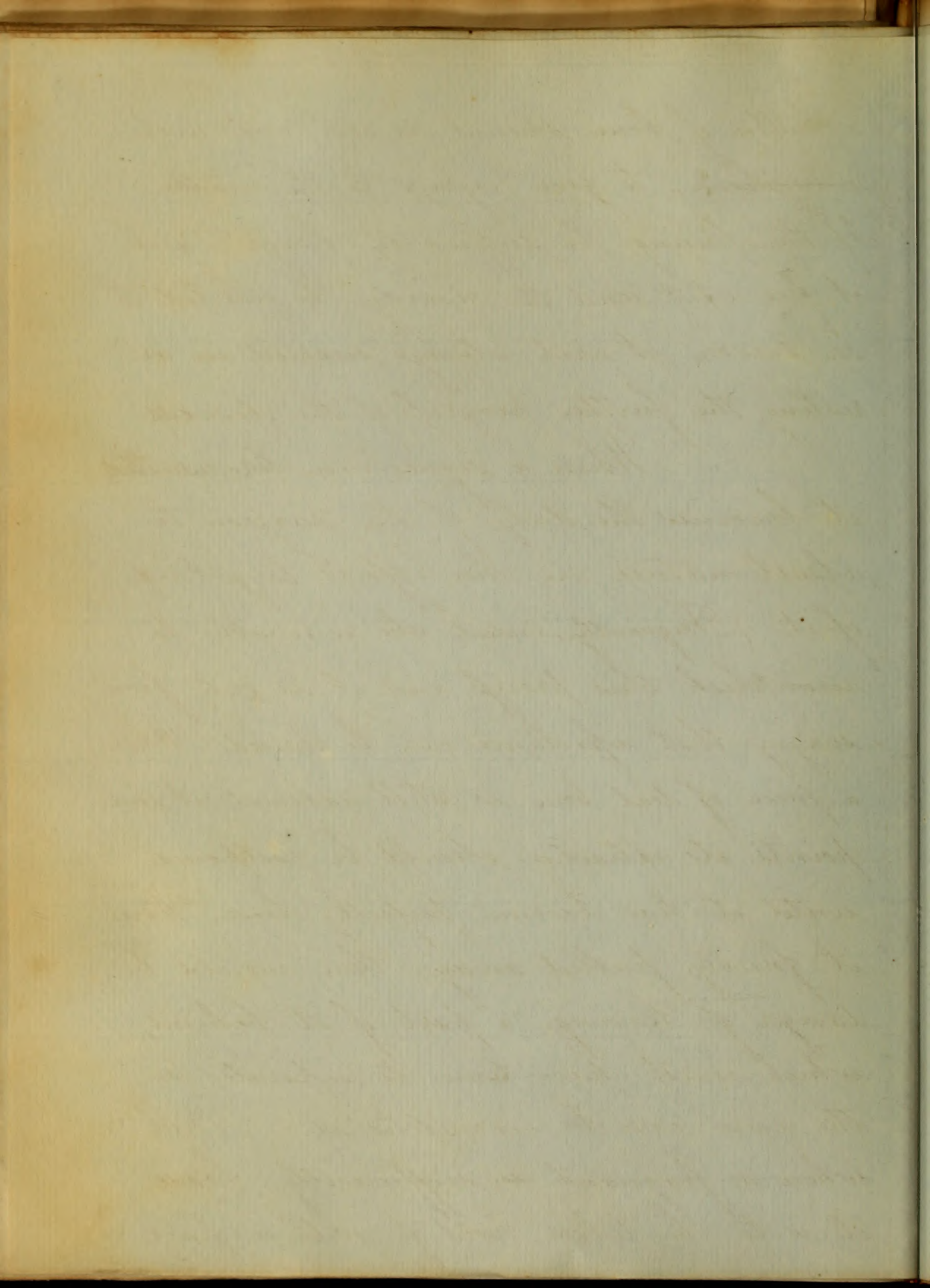
the commencement of the disease, he should make an incision, corresponding, to the extent of the inflammation, through the soft parts down to the bone and through the periosteum. By this means, the disease will be at once arrested, and the case reduced to a simple incised wound, which will soon heal.

When a deposit of matter has formed beneath the periosteum and within the cavity of the bone, or where none has been deposited within the cavity, there is no disease which more imperatively demands the aid of the surgeon. To avoid the disastrous consequences arising from the deposit of matter, it will be necessary, to bleed, leech, purge, and give an emetic-cathartic. An incision should then be made through the soft parts, and the periosteum be divided as far as it is separated from the bone. In the second place, should matter have been deposited in the medullary canal,

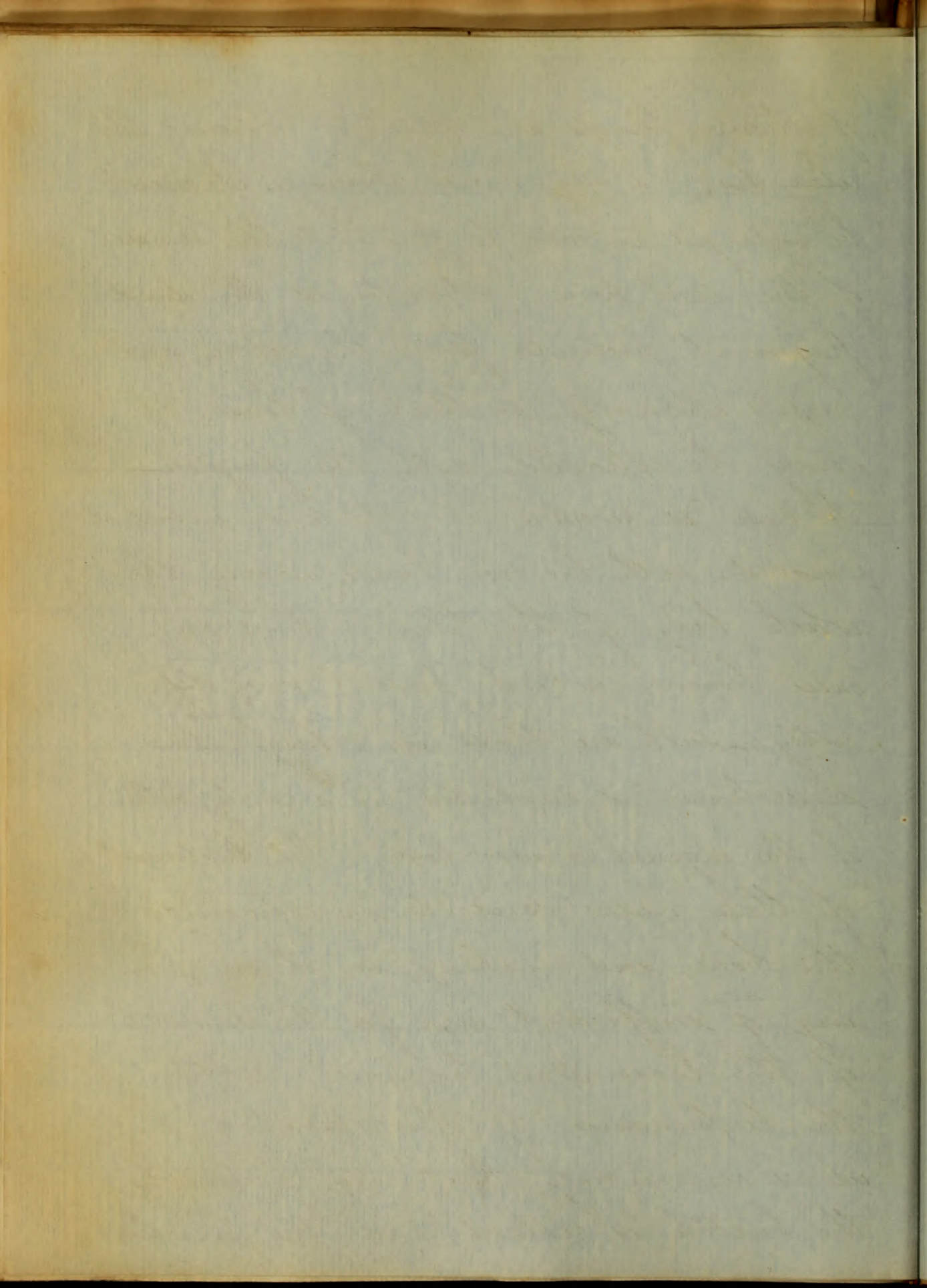


a button of bone should be cut out with a trephine, to give passage to the matter. If the opening be sufficiently large to give it free exit, and the remedy be resorted to in season, it will always succeed in arresting the further progress of the disease.

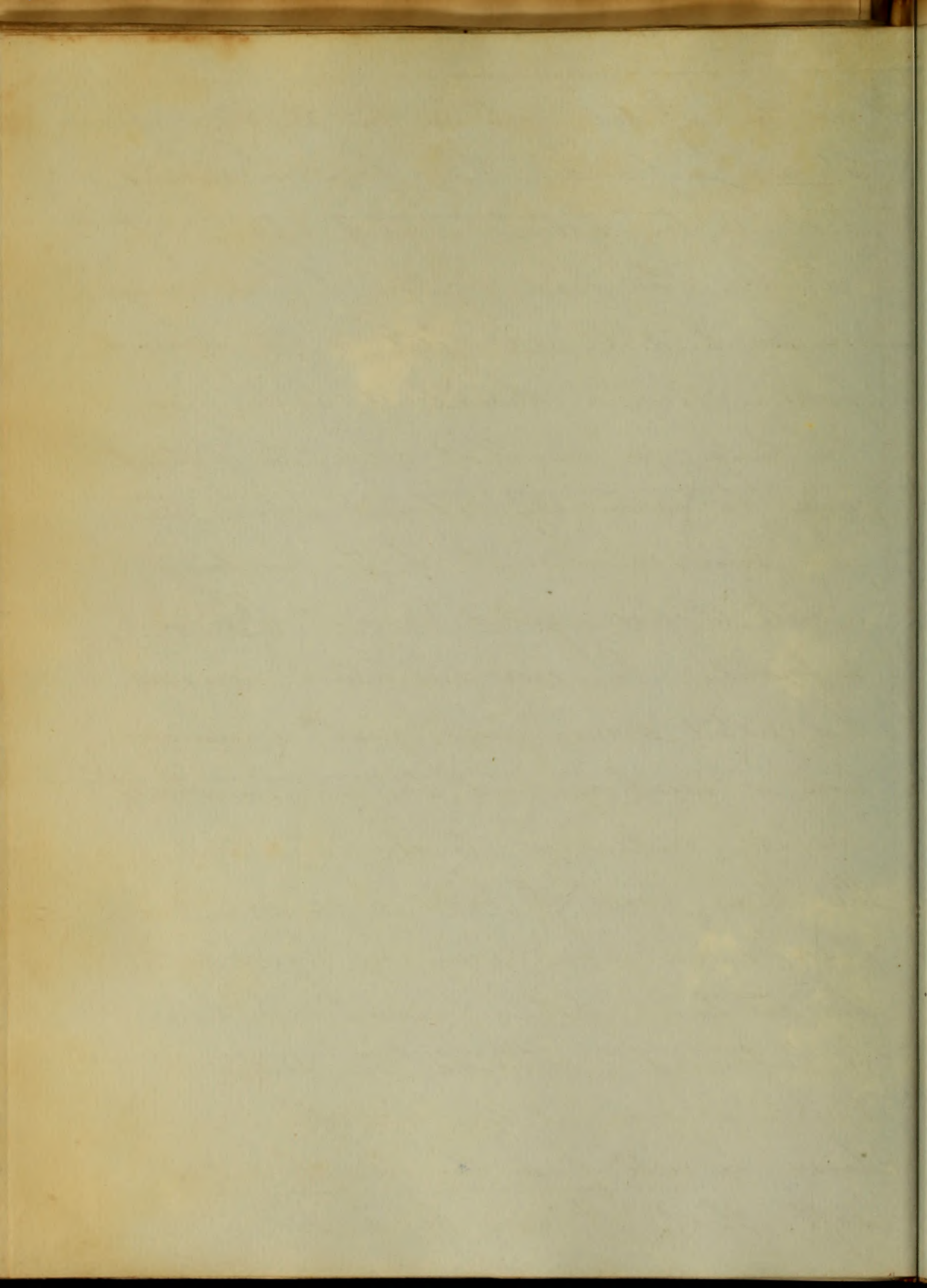
When a sequestrum has resulted, it becomes the duty of the surgeon to assist nature in her efforts to get rid of it. Frequently, indeed, she is unable to accomplish this process, and it is only from surgery that assistance can be derived. When a piece of dead bone is still adherent at some points, its extraction should be postponed until it has become perfectly loose. Were it forcibly pulled away, there would be danger of leaving a part of it behind, which must have time to separate ere the cure can be accomplished. But when a fragment is sufficiently loose, it is to be taken hold of with a pair



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of strong forceps and extracted. Should the ulcer have a very narrow opening, it must be enlarged in order to facilitate the removal of the dead bone. Sometimes the dead fragment protrudes from the ulcer, and projects externally, so that, if loose, it may be extracted with the fingers.— A case is recorded in which an individual removed, with his own hands, nearly the whole body of the tibia. There are cases, however, which present more difficulty,—such are those in which the sequestrum is included in a cavity, either of the original or new bone. The treatment of these cases consists in exposing the bone, and making in it an opening of sufficient size for the removal of the loose dead fragment. After the performance of this operation, the ulcers commonly heal very favorably, the health is restored, and the functions



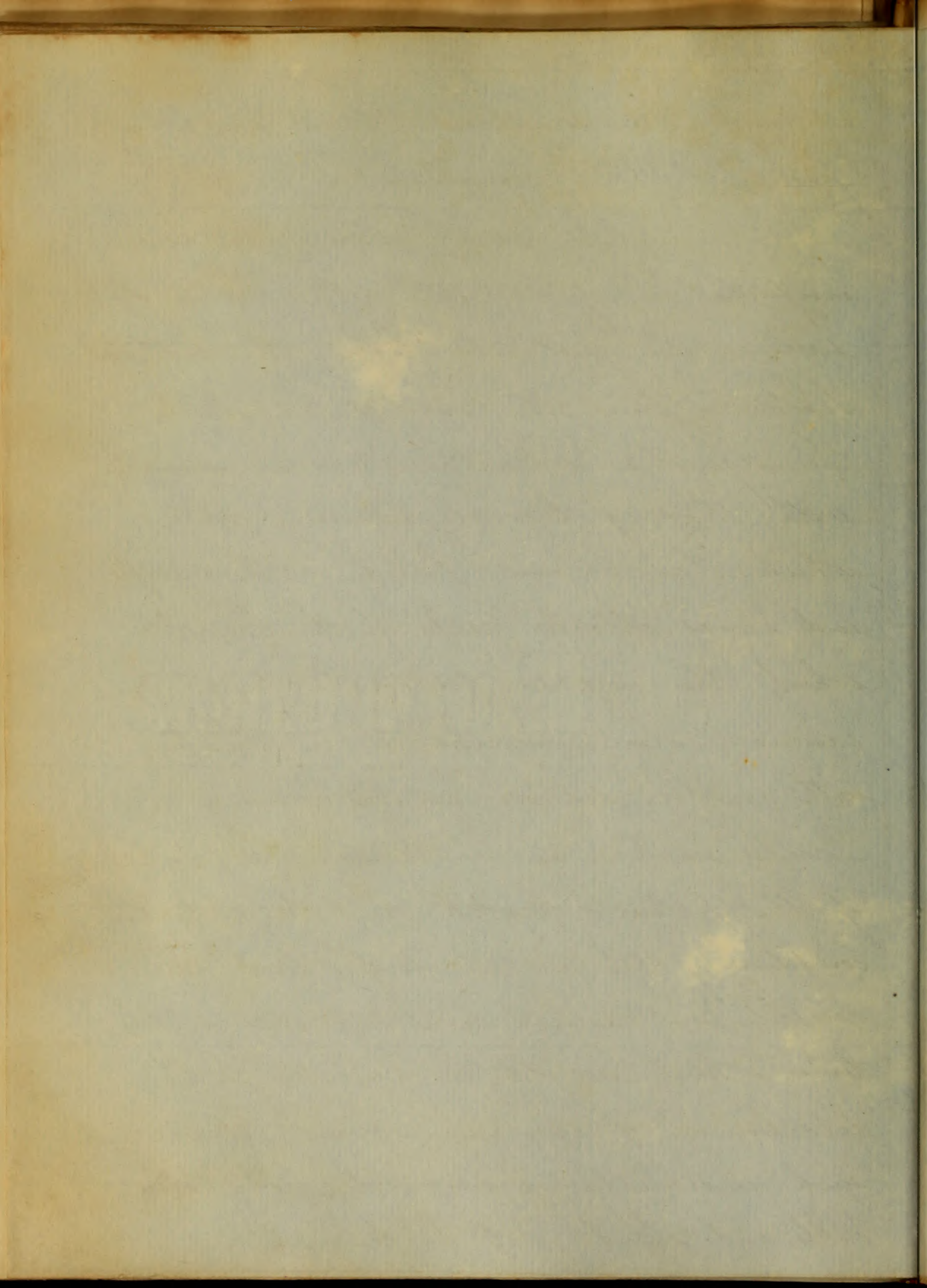
of the affected part are but slightly, if at all impaired. The operation should not be too hastily entered upon; if it be, the dead portion of bone may be found still adherent to the adjacent parts. - Neither should it be delayed too long; for in that case, the patient may be irrecoverably reduced, while the new bone, on account of the hardness which it has acquired, cannot be so easily perforated. In cases in which necrosis has existed several years, great circumspection is necessary, and the surgeon should carefully endeavour to ascertain that the dead pieces of bone have not been absorbed, nor come away by degrees with the discharge, lest a useless operation be performed. Should the surgeon operate as soon as the sequestrum becomes loose, he will find the new bone so soft that it can be divided with



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a knife, a circumstance that materially facilitates the operation.

In some cases of necrosis, amputation affords the only chance of saving the patient's life. It sometimes happens that the cavities in which the sequestra are contained, communicate with those of the neighbouring joints, which then become filled with matter, and caries attacks parts of the bones to which the necrosis does not extend. Occasionally, also, a necrosis is complicated with another disease in its vicinity. Besides, such may be the reduced state of the patient's health, and the particular condition of the necrosis itself, that the constitution cannot hold out during the time which would be requisite for the detachment of the sequestrum. Under such circumstances, amputation is indispensable, and should not be delayed.



The instruments that may be required in this operation, are, a probe, knife, round saw, and one or more of Hey's saws, several pair of strong forceps, and a pair of cutting forceps, — together with a chisel and mallet, which latter we have frequently seen of great service.

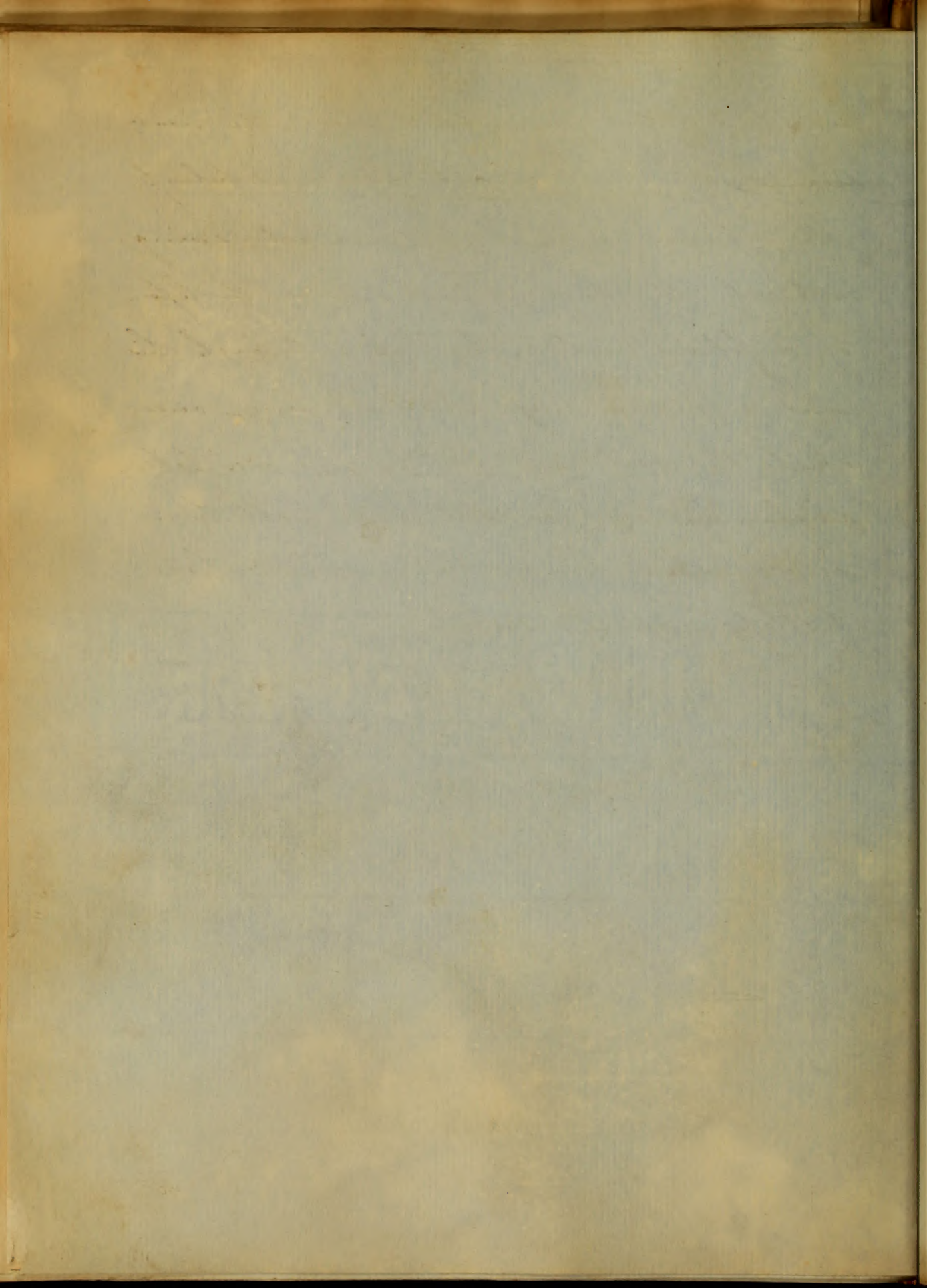
The importance of a thorough knowledge of necrosis cannot be too highly appreciated. One instance, at least, has occurred, even in this city, — aptly styled, the City of Monuments — in which a surgeon, not knowing the disease under which his patient was labouring, determined to amputate his right arm at the shoulder joint, and having made the necessary preparations, invited his friends to witness the operation. But Providence decreed that that valuable member should not be sacrificed. A consulting surgeon, called in, by the friends of the patient, on the eve of the operation, detected the true nature of the affection, and by the

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simple operation for necrosis, saved the limb,
and restored to it all its former usefulness.

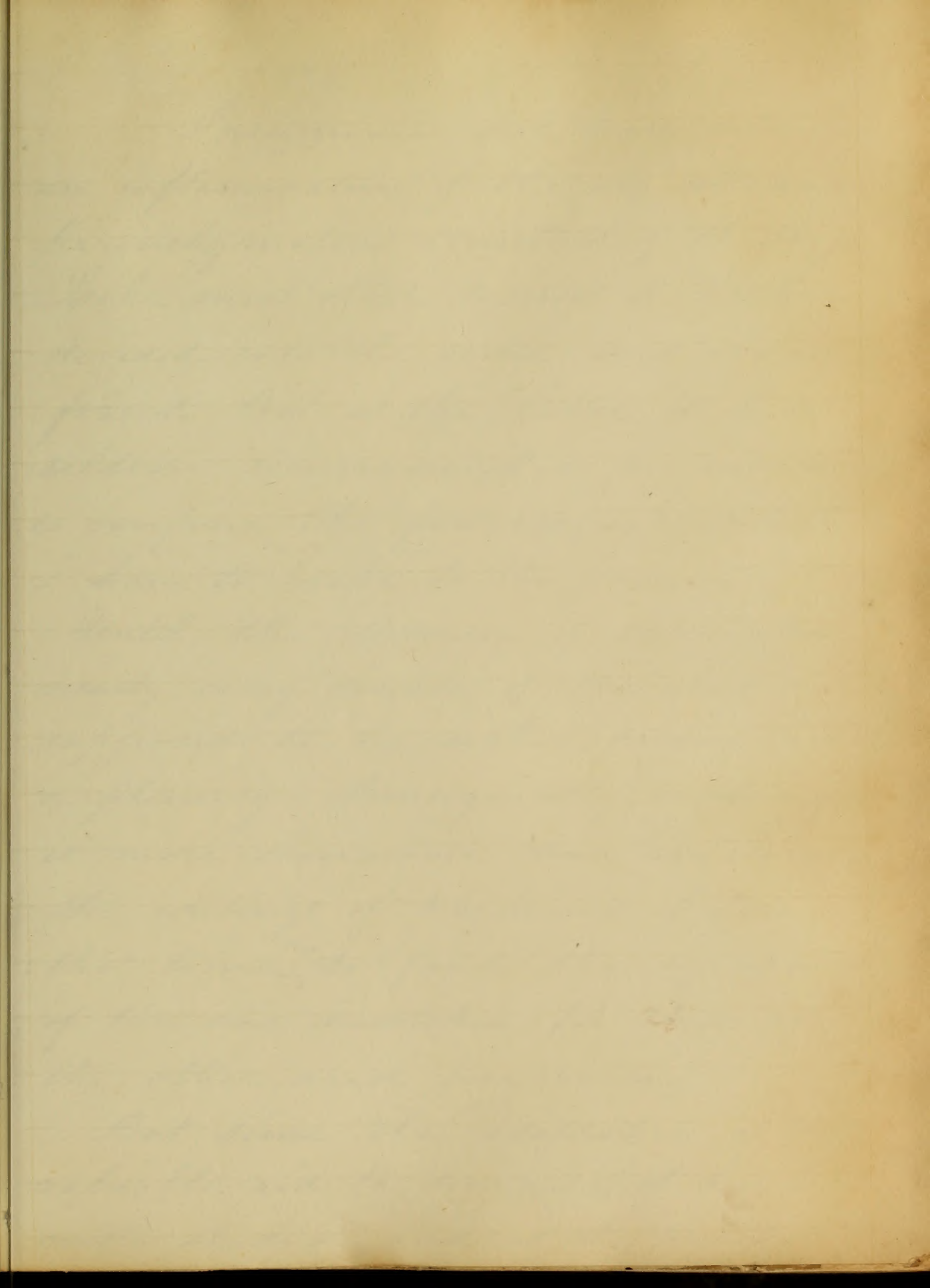
He who has performed one such act, saving,
not only the limb, but, it may be, the life
of a fellow creature, has passing through his
mind, a consciousness above all price— one
which the world "can neither give nor take
away"— and one, too, that will yield him
solace when "honor's voice" shall fall
listlessly on his ear.

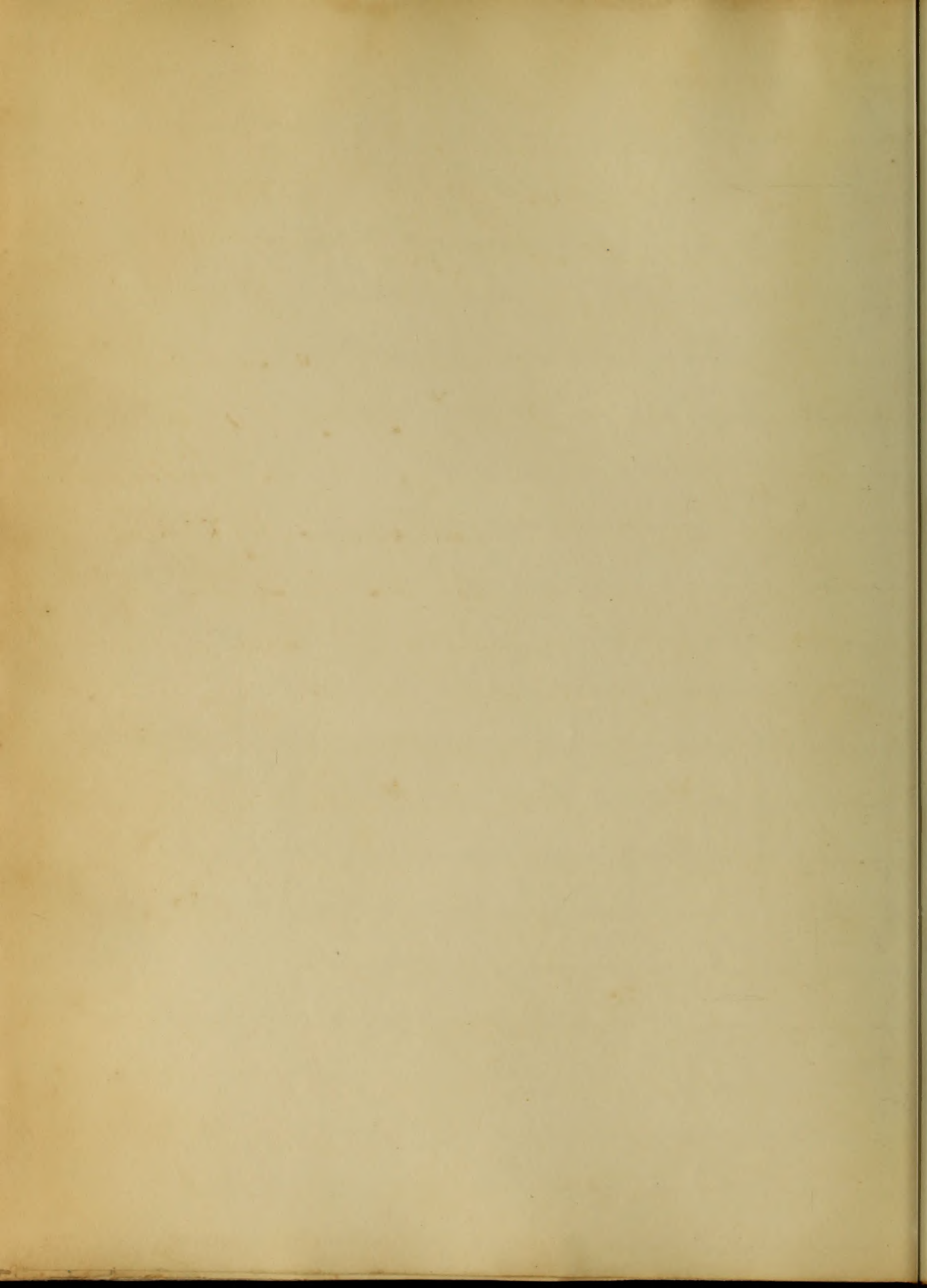


An
Inaugural Dissertation
on the
Diagnosis and Treatment
of
Pneumonia.

Submitted to the examination
of the
Provost, Regents and Faculty of Physic
of the
University of Maryland
for the degree of M.D.
by
John deButts

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Pneumonia has been defined an inflammation of the air cells, and parenchymatous structure of the lungs. Like most other diseases it has been divided into the acute and chronic forms. But as the latter is of so seldom occurrence, it is my intention to confine the few remarks which I have to make, to the former.

Until the discovery of auscultation, nearly every disease of the chest was supposed to be, either, pneumonia or pleurisy. Consequently, nothing is more common than, in reading the writings of physicians before that time, ^{than} to find the symptoms of the one mistaken for those of the other, and vice versa.

But since the adaptation of that valuable aid to diagnosis, it has been well studied, and at the present state

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of science, well understood.

The symptoms of pneumonia are numerous. But none of them are so peculiar to this disease alone, that they are not found in some other affection, or even absent in this.

There is, generally, pain either acute or obtuse, attended with febrile excitement, cough, and dyspnea; all of which are generally ushered in by one or more rigors. The dyspnea is more or less troublesome according to the seat of inflammation; which if seated in the upper lobes, will occasion more dyspnea, than when seated in the lower portion of the lung. The cough is often slight and dry in the beginning, but grows more violent and painful afterwards, attended by a sero-mucous expectoration, which becomes more viscid as the disease advances. This sputa which is

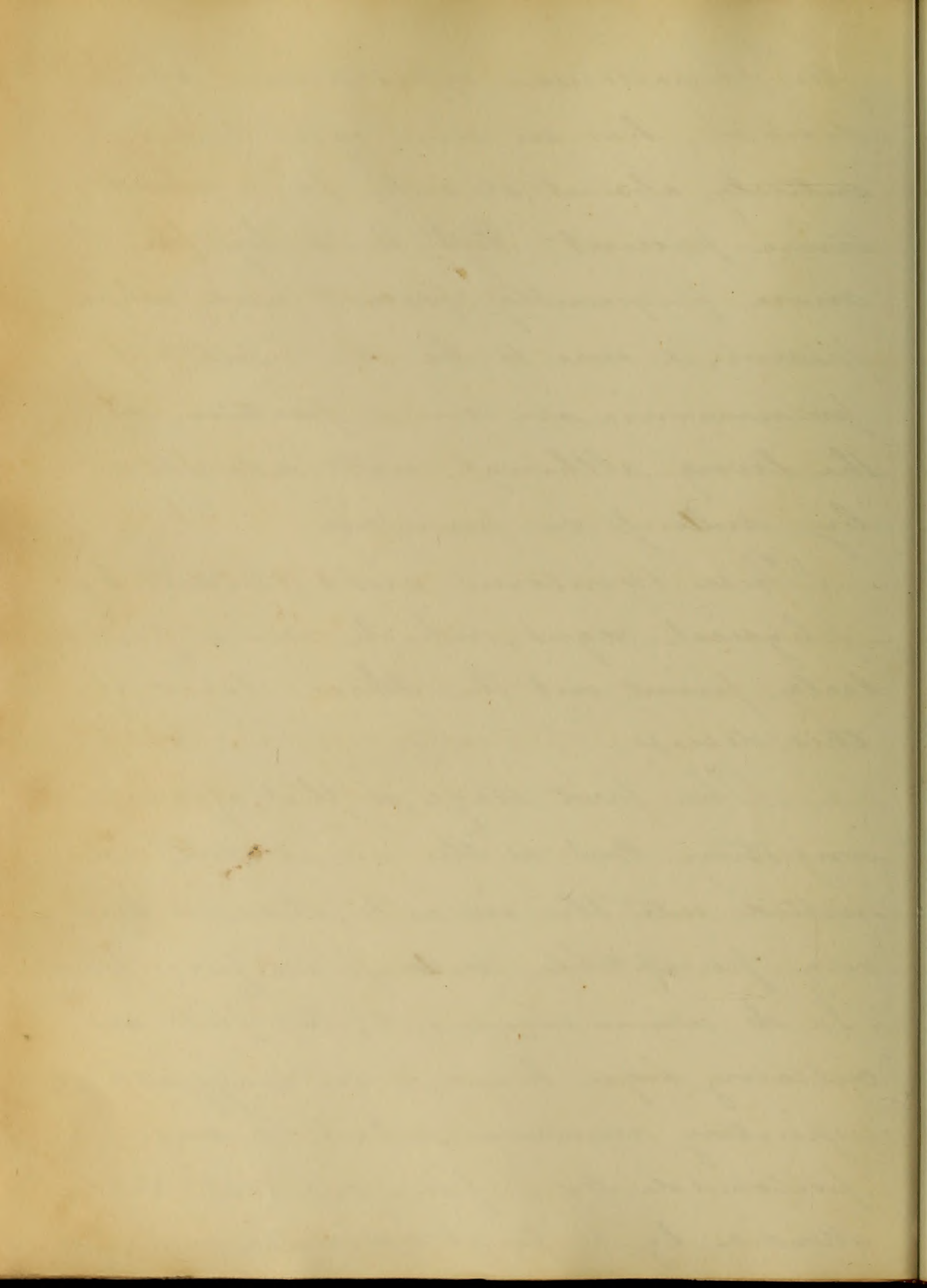
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111
the characteristic expectoration of this disease, has in some cases been entirely absent, or only for a short time present. But it is by far more frequently present, and when present, is sure to be the result of pneumonia in some portion of the lung, although not indicated by dullness on percussion.

These symptoms are attended by physical signs, which more particularly point out the three stages of this disease.

The first stage, is that of simple congestion. But as the air is still admitted into the air cells, there is no very perceptible dullness on percussion.

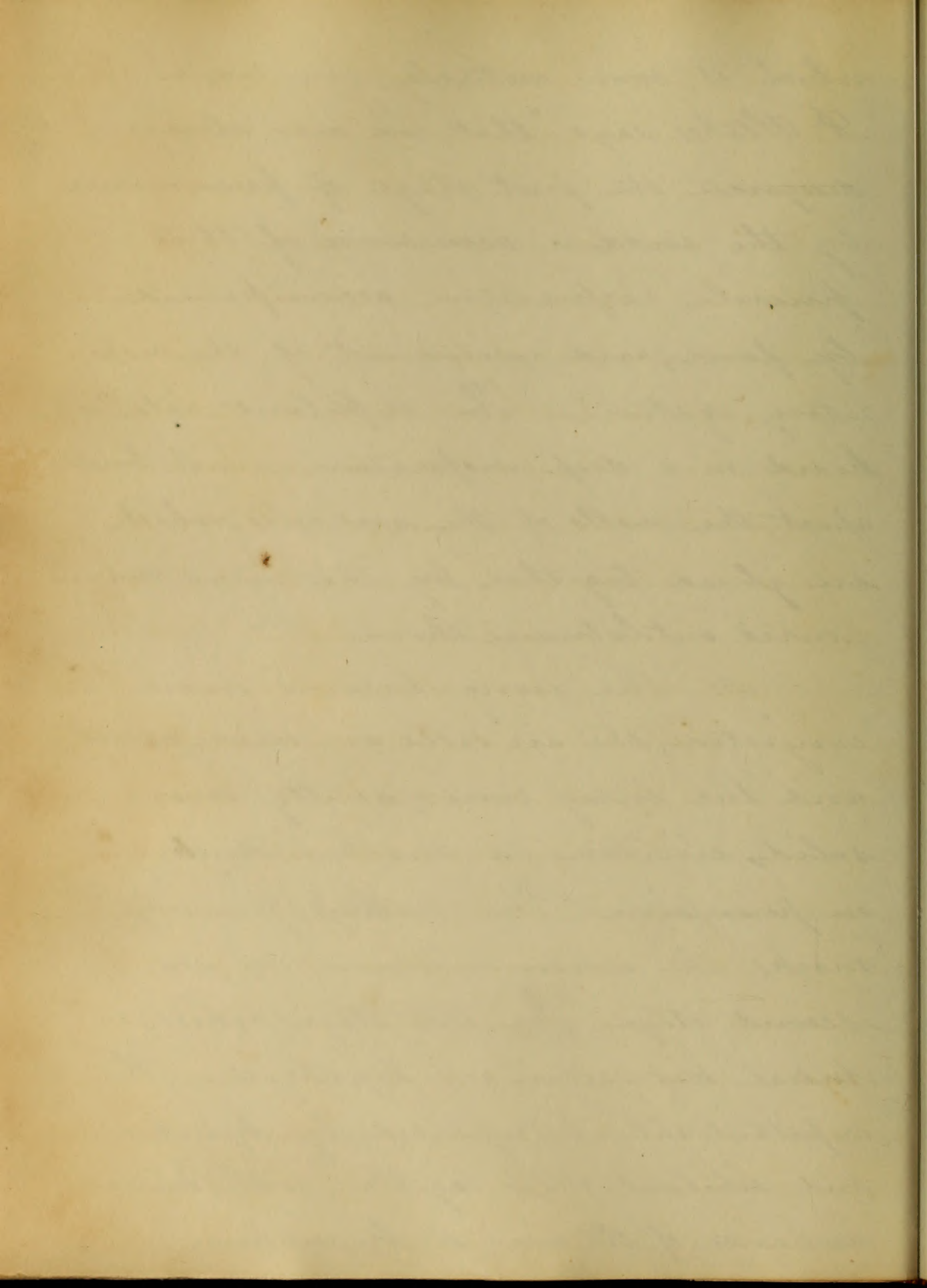
In its commencement, the first auscultatory sign heard, is an exaggerated respiratory murmur, which is soon followed by a fine crepitant râle, attended by a faint vesicular murmur



which is soon entirely superseded.

Dr Stokes says "that we may always designate the first stage of pneumonia by the sudden occurrence of this puerile respiration, accompanied by fever, and excitement of the respiratory system". The crepitant r le is heard in a deep inspiration which bursts apart the walls of the air cells, which are glued together by the viscid mucus poured out between them.

As the lung becomes more congested, the air cells are more closed, and the lung consequently more solid, eliciting a marked dulness on percussion. This dulness, generally marks the commencement of the second stage. In this stage, which Andral has called red hepatization, the crepitant r le is replaced by bronchial and sibilant r les together with increased resonance of the voice or broncophony.

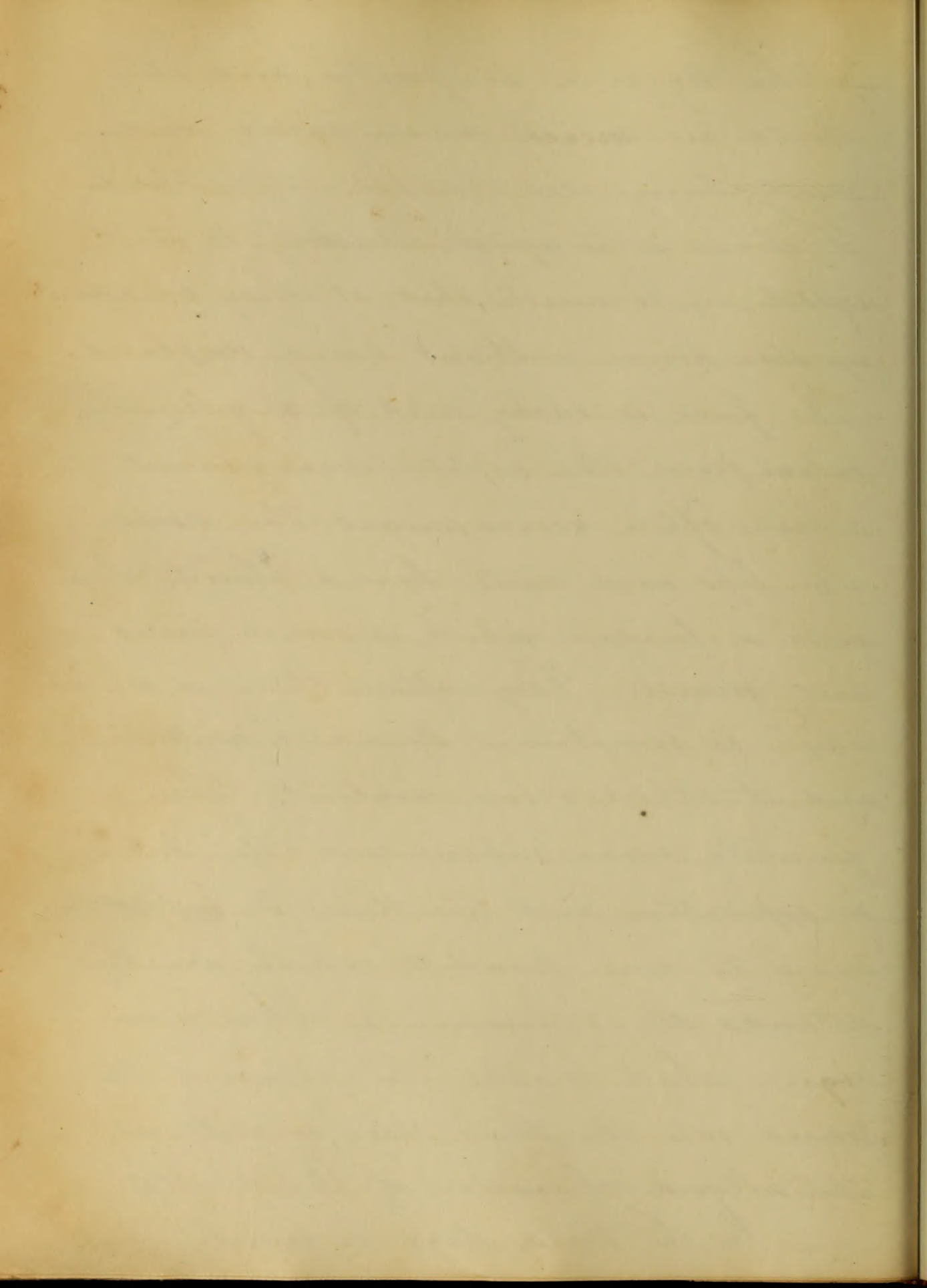


The dyspnea is greater, and the sputa are much more viscid and rusty, being also streaked with blood. It clings with great tenacity to the vessel, in so-much, that it may be turned up side down without being displaced.

The face is dusky and of a yellowish colour, from the hepatic derangement which often accompanies the disease.

The lips and nails have a blueish colour with a tongue which is much furred and moist. Very often there is delirium which is sometimes low and muttering, and at others more violent. There is generally some subcrepitant rale heard in expiration and sometimes in inspiration, owing to some bronchitis which usually attends the pneumonia. There is no sign which marks the passage of the second into the third stage, so well as the altered character of the sputa.

In the third stage or ramolissement—

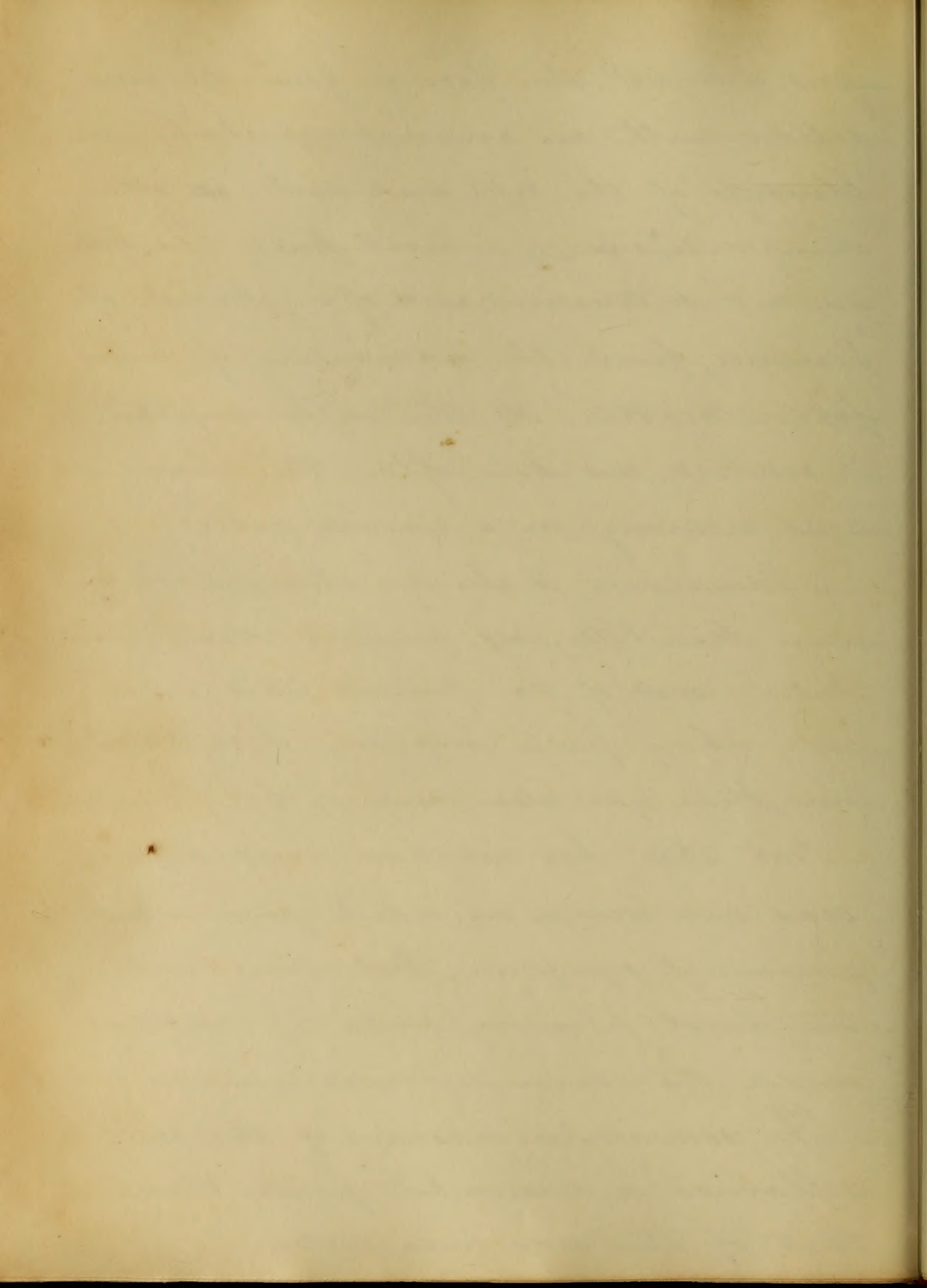


gris of Andral, the face is generally more
sallow, with an anxious expression, the
blueness of the lips, and nails are often
changed, to ^a more of a livid hue. The sputa
are not so tenacious, and of a yellowish ap-
pearance, from the admixture of puri-
form matter. As the inflammation
is resolved, we have often the same
signs recurring in a reversed order

Pneumonia is always attended by
some bronchitis, and generally some pleurisy.
Andral was of the opinion, that, in every
case where pain was one of the sympt-
oms, there was also more or less pleurisy.

But this has not been verified, as
cases have occurred in which pain was a
prominent symptom, but where not
the least pleurisy could be detected
under the minutest examination.

The semicircular measure of the side
inflamed is somewhat greater than
that of the side unaffected



VII

Anatomical signs

The anatomical characters, of course, vary as to the extent of the inflammation. In the first stage the lung does not collapse and is of a bright red colour externally, retaining the impression of the finger. It is somewhat heavier than in health, but still floats on being placed in water.

It crepitates on pressure, and when cut, the cut surfaces exude a quantity of bright red frothy serum. In the second stage, the lung has a darker colour externally, being much heavier, and no longer crepitating on pressure as in the preceding stage. It is more friable and easily broken down, its torn surfaces presenting a dark reddish granular appearance, and exuding a dark red fluid, but not so abundantly as in the former stage. On its cut surface may be

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seen a number of small white granules, which are formed by the compressed tissues of the air cells.

These, according to Dr. Williams's theory, are not formed when the inflammation is seated within the walls of the air cells. This he designates as inter-vascular pneumonia, but which I have never yet seen. In the pathological changes of the lung, in the third stage, it has a yellowish grey appearance externally. It is much softer than in the second stage, and very easily broken down on pressure.

The cut surface exudes a purulent fluid, which may be pressed from it in great quantities. The surfaces usually preserve a granular appearance, which is of a uniform greyish appearance throughout. Laennec has called this state, that of "grey hepatisation," and by Andral, "ramolissement gris."

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Abscess is another change which sometimes takes place in this stage, though very rarely. Ghornel saw only three cases of pneumonic abscess in twenty five years. And Laennec, who examined several hundred cases of this disease, saw but five abscesses in the whole number.

When they do occur, they may either be single or there may be several opening into each other, in such a way as to form a succession of small cavities. They may also have an opening into the bronchial tubes, pleurae, pericardium, mediastinum, cavity of the peritoneum, and even externally through the parietes of the chest.

Mr Gross, in his pathological anatomy, states that these cavities may be lined with false membrane. I have never seen those with a false membrane, although I have seen

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them surrounded by the solidified lung. We seldom find the pathological changes of each stage separately, but generally the three intermingled.

Often a portion of the lung, presenting the first stage, spots of red hepatization, together with some signs of grey softening, which gives the cut surface of the lung a mottled appearance. In the bronchi, which are more or less inflamed there is often a sero-mucous fluid.

The pleura is sometimes, but not always inflamed, with bands of lymph binding the walls of the cavity together, with more or less serum effused within the pleural cavity.

Diagnosis

The diseases, for which pneumonia is most apt to be mistaken, are capillary bronchitis, pleurisy, and phthisis.

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It may be mistaken for capillary bronchitis, particularly if there is any pleurisy attending it. But the sputa of the former, though it may be streaked with blood, is not rusty nor viscid, like that of pneumonia.

The pain of bronchitis is not so acute nor is there any resonance of voice, or dullness on percussion. The râles are also different from those of pneumonia, not being so fine. These two diseases sometimes occur in the same lung, and at the same time, in which case it is extremely difficult, if not impossible, to mark the line between them. In its first stage, it may sometimes be taken for oedema of the lung. But in this, too, the râle is a mucous or moist râle, and occurring in patients generally, who have anasarca or oedema in some part of their body. The sputa are frothy and nothing like those of pneumo-

monia. Chronic pneumonia is often mistaken for phthisis, but may be known by the previous history of the patient. This form of pneumonia is very rare. The inflammation seldom reaches the third stage, but gradually hardens and solidifies the lung for which reason it has been called grey hardening, or red and grey hepatization by different authors.

Period of resolution

This varies much more in some cases than in others. Sometimes a pneumonia may be cleared up in forty eight hours, while again it may last for more than six weeks. Andral cites ninety two cases in which the period of resolution was between two and forty two days.

Of these, the greater number were between the seventh, eleventh, fourteenth and twentieth days. The most common period is between ten and twenty days.

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Prognosis

The prognosis of simple pneumonia is generally favourable, but of course graver, when complicated with other affections. Age and constitution are important considerations. Dr Wood found that persons between the ages of two and twenty two, recovered with more ease, and with fewer disagreeable symptoms, than patients above that age. In persons above forty, it was much oftner fatal, and in old age, when the vital powers are weakened, it is extremely dangerous. Persons can bear a greater extent of inflammation in the lower than in the upper lobes of the lung. At some seasons pneumonia has more of a typhoid form, which is of course unfavourable to the prognosis. In all cases of pneumonia an exceedingly hurried respiration, inability to lie down, very dark and consistent or.

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thin brownish or blackish or fetid expectoration, copious diarrhea, and colligative sweats, an extremely frequent feeble or irregular pulse, amounting to 110 in the adult, are all very dangerous symptoms"

Causes and seat

The most frequent causes of pneumonia are cold and damp weather. And, as shown by experience it occurs most often in those months which are most subject to frequent changes of temperature. It may supervene on phthisis, or any other irritating affection to which the lungs are subject, as I have seen in many instances. It may occur in consequence of the retrocession of some skin disease, as sometimes happens in measles. I have seen it also in a case of lichen, where the eruption was diffused through all the mucous membranes. It may be caused from

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external violence, or even a shock of the nervous system, but in nine out of ten cases, it is brought on from exposure to cold combined with moist weather. It may have its seat in one or both lungs, in the apex or base, or it may be lobular, affecting but a small portion of one lobe. This happens most frequently to children under six years of age. But it is found to occur much oftener in the lower lobes than in the upper, and in the right lung oftener than in the left. In two hundred and ten cases treated by M Andral, at La Charité, one hundred and twenty one were seated in the right side, fifty eight in the left, and twenty five were in both lungs, The exact seat of the remaining six could not be determined. And in eighty eight other cases given by the same author, forty seven were in the lower lobes, thirty in the upper, and seven were found

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to occupy both upper and lower.

Treatment

The first indication in commencing treatment, is to relieve the lung, of its congestion. If the patient be of a robust constitution, he may lose from sixteen to twenty ounces ^{of blood} from his arm: Or he may be bled at least until there is an impression made, which will be shown by the pulse, or by a diminution of pain. After thus relieving the lungs in some measure from the labour which they have to perform, we follow it up, by a brisk cathartic, and endeavour to keep the bowels open, one or twice a day. In cases where large quantities of blood cannot be spared, leeches or cups are of much service to relieve the after congestion which frequently happens. In pneumonia when taken at its very first stage, when we have the puerile

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respiration, may often be cut short by one bleeding, followed by a cathartic.

There are some cases, where but a very small portion of one lobe is affected which remain stationary for a long time, never advancing beyond the first stage, and then get well without any treatment. A case of this character, is now in the hospital at the Arms House where there is a spot not larger than a half dollar, over which there is marked dullness, with a fine crepitant rale. This has remained in the same state for nearly two weeks.

Calomel combined with tartar emetic and opium in the form of a pill is the most common treatment. This by subduing the action of the heart and also acting on the secretion generally, is an excellent remedy. The antimony is often given alone in very small doses, but in some irritable stomachs, it too easily excites emesis, or sometimes although

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it may not have any nauseating effect it sometimes depresses the nervous system to such a degree that it is injurious.

The emesis may generally be allayed by some effervescent draught. In those cases where the depressing effect of the antimony is too great, Ipecacuanha may be substituted with much advantage. This allays cough, directs the action of the salivary and gastric juices to the skin, and by subduing the fever lays the foundation of a mercurial impression on the system. The exhibition of mercury should be stopped as soon as the gums evince any tenderness, it being useless to carry it any farther.

This treatment together with some gentle tonics, will often do in simple pneumonia, provided it has not reached the third stage. But where we find the constitution debilitated by previous disease, or when the inflammation has reached its suppurative stage, the tonic

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plan of treatment is the most advisable.

When the disease has advanced to any great distance before the case comes under treatment, blood is not taken in such large quantities from the arm, but rather locally, by means of leeches or cups. Serpentina, given in doses of a wine glass full of the infusion three or four times a day, is an excellent tonic. Sulph. Quinine, either, with or without Carb. Ammonia, is administered with much benefit, particularly in the superseption of hectic fever. ℞ Turbith may be given in pretty large doses with much benefit. Blisters, by giving a fillip to the system, and by their counter irritant effect, are often used. In persons who have been intemperate before their attack, it is best not to withdraw their accustomed stimulus, lest delirium tremens should supervene, which would prevent the necessary depletion.

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While under treatment it is most necessary to have regard to the diet, which should be such as is most easily digested, and at the same time nutritious. It is always better to be economical with the strength, as he is likely to need it before convalescent. Syrup of squills and seneka may be given with a good result in moderate doses in the decline of the inflammation. Digitalis is another remedy very useful when the pulse remains too frequent after the fever has subsided. Gangrene may be met with chloride of lime opium, quinia, and the mineral acids especially the nitro-muriatics.

The cough should be allayed by opium lactucarium conium hyoscyamus or one of the other narcotics. Aconite has been found useful in gangrenous eschars of the lungs. A case treated with this remedy left the hospital a few days since perfectly cured.

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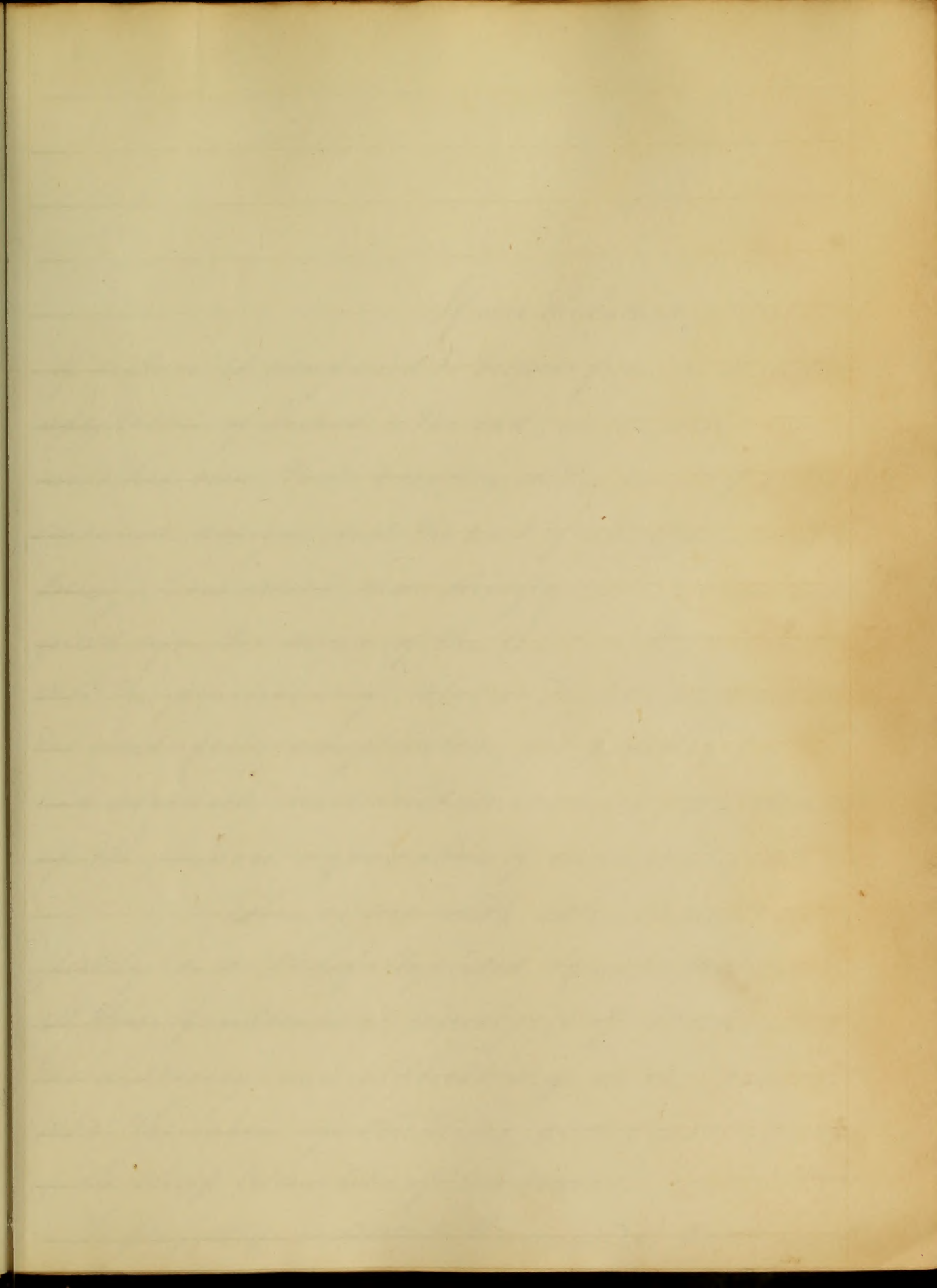
An
Inaugural Dissertation,
on the
Peculiarities of Woman.
Submitted to the Examination
of the
Provost, Regents, and ^{and} Faculty of Physic.
of the
University of Maryland.
for the
Degree of Doctor of Medicine.

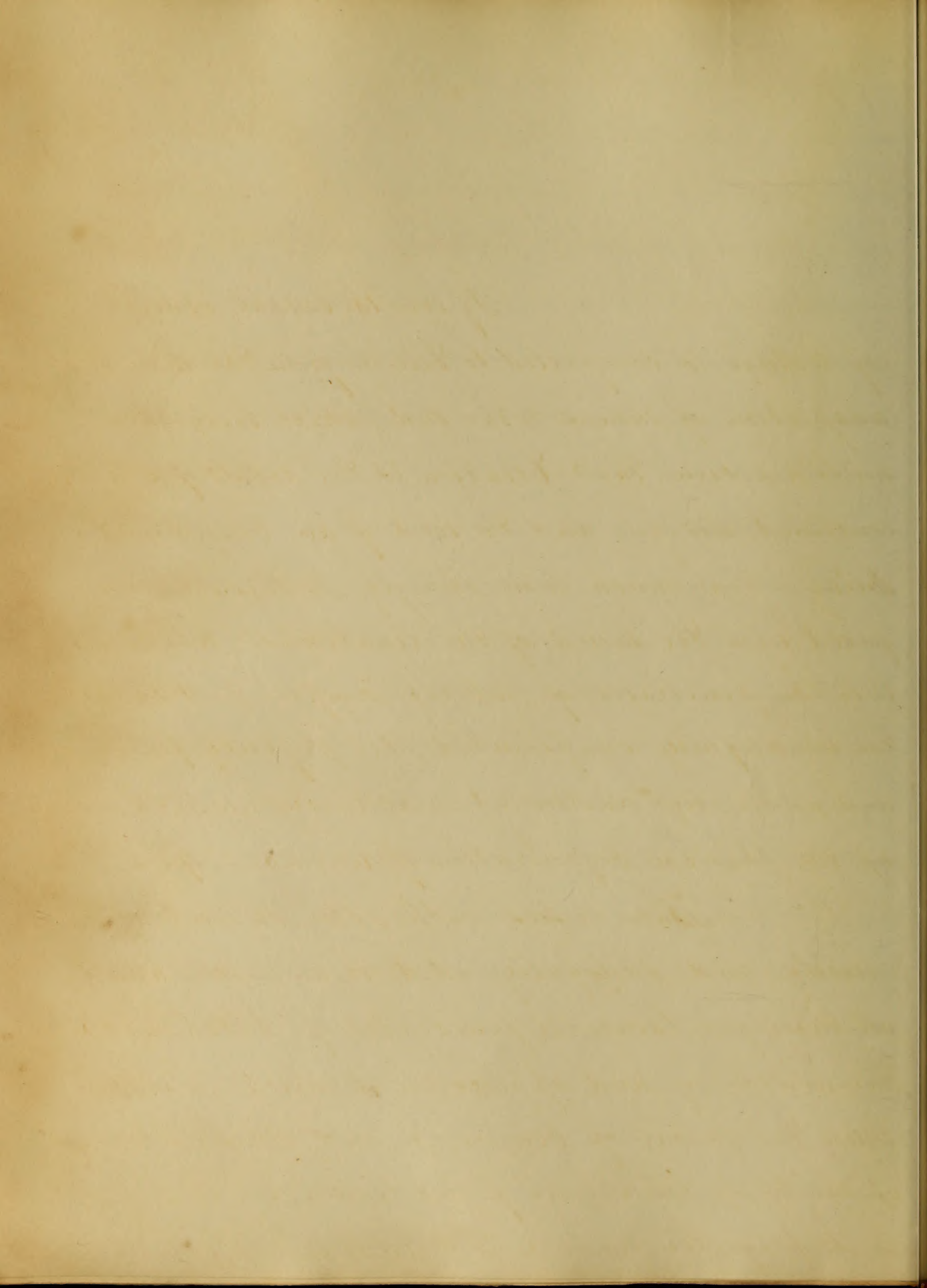
By
Amrod O. Shipley
of
Maryland.

Feb^r 22^d

1848.

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If ever the casual observer
of nature is compelled to believe from the manifest
adaptation of means to the end, which every where
meets his view, that Creation is the result of a pre-
conceived design, and the work of an Omnipotent
Being; how much more strongly is this conclusion
forced upon the mind of the Anatomist, who enters
into the penetralia of Nature's Temple, and views
the wonderfully complicated, yet perfectly finished
and admirably constructed machinery: which makes
up the physical organization of Animal Life.

When he sees with astonishment appro-
priately and skilfully used by an unseen hand,
all those fundamental principles of Mechanics,
the discovery and application of which, have cost
man the labour of centuries, and constitute one
of the chief triumphs of his reason.

So perfectly indeed is the Animal System

of nature is completed to obtain from the
application of means to the end, which requires
and this is the first step in the history of a
corrected design, and the first of an
being, and much more than the
part of the amount of the
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the most fully completed, the
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of the physical organization of
then is not with respect to
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all the fundamental principles of
the structure and application of
the first stage of the
of the first principles of the
the perfectly adapted to the

constructed, and so thoroughly is each organ adapted
to the use for which it is design'd, that the most
Skeptical investigator, when he discovers an organ
the office of which is unknown, does not pass it
over as useless, but concludes that it is necessarily
charged with some important function, in the Ani-
mal-economy, and applies himself with increa-
sed diligence, to discover what that function is.

So wonderfull indeed is the Harmony,
which subsists throughout the whole organization
of Animated nature, and so perfectly are the
Systems of various living creatures calculated
to enable them to perform the functions appropriate
to their respective natures, that the Comparative
Anatomist - from the possession of a single bone,
or perhaps even the fragment of a bone, is able
to reconstruct the intire Skeleton of animals,
which have ceased to exist for thousands of
years: And having thus reconstructed the
solid frame of the Animal, he is able by the
application of certain physiological laws, to
ascertain and describe with accuracy, its

The office of which is mentioned, has not only
the duty of receiving the contributions, but also
of distributing them to the several societies,
and of making a list of the names of the
donors, and of the amount of their
contributions. It is also the duty of
the office to receive the accounts of the
several societies, and to make a list of
the names of the officers and members
of each society, and of the amount of
their contributions. It is also the duty
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the several societies, and to make a list
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of each society, and of the amount of
their contributions.

mode of life, and those peculiar habits, which distinguish'd it while living and moving on the earth.

If then we find these strongly-marked peculiarities of organization, distinguishing the lower members of the animal-kingdom, and such a beautiful and harmonious application of the laws of nature to fit them for filling their place in the vast chain of created-beings, how much more shall we expect to find the same beautiful arrangement, when we come to study the anatomy of Man: formed in the image of his Maker, to rule over the Earth and all things therein.

Man like all other portions of the animal kingdom, is distinguished into male and female, and as each of the sexes, has a different set of duties to discharge; we must ~~we~~ expect to find upon the principles laid down above, that each of them has its peculiarities of structure, and organization, fitting it more particularly for the performance of the

[The page contains approximately 25 lines of extremely faint, illegible handwriting. The text is mirrored across the page, suggesting bleed-through from the reverse side. The ink is very light and the characters are difficult to discern.]

various functions which are assigned to it. — 41

It is of the peculiarities which distinguish Woman from Man that we now propose to treat, and although as the general and ordinary functions of life, are carried on in the same manner, the outline of the system and its general organizations are similar, still there are distinctions, though marked, which enable the Physiologist even in surveying the skeleton to distinguish that of the female from the male.

To Man it is given as Lord of the Lion part, and Eagle eye, to go forth in majesty and power, and subdue the Earth, and enjoy the fulness thereof. — To Woman is entrusted a different mission, she is not to be regarded as a mean creature designed to administer to the gratification of passion, but as a rational intelligent moral agent, whose business it is to be the ^{our} Friend, ~~of~~ and Companion of Man, to soften by the influence of her society, the asperities of life, and to cause Man, powerful as he is mentally, and physically, when he has

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achieved those conquests which his strength en-
abled him to accomplish, to pour his spoils into
her lap, lay his laurels at her feet, and feel that
the richest reward he can receive, for all the trials
and dangers he has encountered, is her approving
Smile.

In order therefore to fulfill this portion of her
Mission on Earth, it is necessary that Woman
should possess beauty of appearance, gracefulness
of motion, and fascination in conversation; according
we find that her physical organization corresponds
to these objects: as in Man we see the principal
object is strength, we find that which we may
term the motive portion of his system is fully
developed, the osseous part is large, and furnished
with roughnesses - and protuberances, which are
calculated to give greater force to the muscular action.

In Man we see fully that whole complicated
system of levers, pulleys, pillars and arches, which
are necessary to give the greatest possible strength:
as on the other hand Woman - is rather a passive
than an active agent in the concerns of Life, we

[The text on this page is extremely faint and illegible. It appears to be a handwritten document, possibly a letter or a journal entry, but the words and sentences cannot be discerned.]

find her differently formed: The first external peculiarities which strike our view, is her diminished stature, generally about one twelfth less than that of man, her bones too are smaller, smoother, and more perfectly rounded, The muscles which in man are large, and stand forth in bold relief, are in her smaller, and enveloped in an adipose deposit, which fills up the interval between them, and gives to the external surface of her body, that roundness, and smoothness of appearance, which makes every transition from large to less, and every motion a perfect verification of Hogarth's theory, "That the line of beauty is a waving line". Here we see accomplished one of the ends which nature had in view; Woman thus modeled in beauty, arrests the attention of man, excites his desires, and causes him to turn ~~away~~ from the paths of ambition or gain.

But she has still another and nobler office to perform, — for as man is distinguished from the rest of the animal kingdom, not only by his erect posture, but by his intellectual faculties; it is necessary that she who is to be the companion of his

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leisure moments, and induct him into the sweet
enjoyments of domestic life, should possess intellectual
faculties of a high order, yet in order that they
should please, it is necessary, that they should be
of a different stamp from those which characterise
man himself: they should be such as will give
variety and piquancy to the tedious monotony
of idle life, so that when the excitement of the strongest
passions have been thrown aside, and for a time laid
at rest; and man seeks repose in the privacy
of his own home, from the labours of a bustling
world, there may still be something to excite and
arouse his mind, and produce in it that mild
yet active emotion, which constitutes the greatest
luxury of mental life.

Accordingly, we find the
distinction between the sexes here strongly marked
for as the mind of man is grave, steady, and
contemplative, and as we see the bony and muscular
portions of his system strongly and fully developed
so we find the vascular system large, and
consequently the circulation is carried on —

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uniformly, vigorously - but slowly; with a nervous
System - comparatively inert, in consequence of the
phlegm produced by the above cause; So on the other
hand, in Woman we find the organs and vascular
system smaller, the muscles less fully developed, and
nerves resting on a soft and elastic couch, which
protecting them from all rude and harsh con-
tacts, gives the most full play to their sensibility,
and as in consequence of the smallness of the
circulatory vessels, all the fluids circulate through
the body with less volume but greater activity,
we find the mind operating with more intensity
and rapidity in woman than in man.

Let us here to glance through the fields of
Thought, taking in at a single view, the various
subjects which present themselves; and by noting
their contrasts and agreements, to bring together
those that are apparently dissimilar, and thus
produce that sprightliness of thought and con-
versation, which is termed wit: which blended
with sound reasoning faculties, fluency of language,
and extent of information, gives such peculiar -

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fascination to the Society of intelligent females, thus enabling her to perform her highest Mission by weaning Man from the dominion of his passions, giving polish to his manners, and elevating his moral nature, these things belong however to the Psychologist, and we will therefore pass on to notice those peculiarities in the organic structure of Woman, which fit her to be the Mother of the Human-race.

In order more fully to understand the peculiarities which mark the female organization it will be necessary for us to dwell for a moment upon those traits which are common to both sexes.

Man (and we here use the term in its generic sense) is made up of Solids and Fluids, variously arranged and modified.

As the Solid or opeous portion of the Human System forms the substratum and permanent framework of the whole structure, we shall in the following analysis of female peculiarities, turn our attention in the first instance to the Lony portion of the System, and here the

The handwriting is very faint and illegible. The text appears to be a handwritten document, possibly a letter or a report, written in cursive. The ink is light and the paper shows signs of age and wear. The text is arranged in several lines, but the individual words and sentences are difficult to discern due to the fading and the style of the script.

greatest and most important deviation of the 10
Species is found in the pelvis; upon this member
therefore we will now proceed to remark.

In the female we observe the diameters
of the pelvis increased in every dimension, the
apertures are larger, and more horizontal, that
part demonstrated the superior strait, presents
an opening both large and more circular, and
is in its diameters the reverse of the male;— The
transverse and oblique diameters always exceeding
the antero-posterior; in the female, the lower cavity
is also larger, and shows the pubes and ischia
shorter than the male, and which gives a more
divergent direction to them at the same time produ-
cing a rounder and larger arch at the symphyseal
pubis, the sacrum is shorter, much more concave
and broader in proportion; the coccygis moveable
and recedes in the passage of the Child's head;—
We discover by the peculiar arrangement of these
bones, that the depth of the lower pelvis or the
distance between the superior or inferior straits
is less than in the male, thus by a simple, yet

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admirable mechanism, provision is made for the more easy and safe delivery of the Child, which with the narrow pelvis, and intractile bones of the Male, would have been impossible.

In passing from the pelvis, to the other portions of the osseous system, we will merely observe that the vertebral column, and the bones of the extremities are shorter in woman than in man, thus making her stature less than his generally by about one twelfth. But the next great and strongly marked difference in the bony system is found in the shape of the Sternum and the position of the ribs, the Sternum in woman is shorter and more arched than in man, and the costal bones stand off more at right angles, with the vertebral column; thereby rendering the thorax shorter, but compensating for its loss of length by its greater development transversely, in order to answer the purpose intended.

Upon the elevated and expanded chest, the Mamma which enables the female to give nourishment to her offspring - find

The following is a list of the names of the persons who were present at the meeting of the Association on the 15th of June 1850. The names are arranged in alphabetical order.

Mr. J. A. [Name] [Address]
Mr. B. C. [Address]
Mr. D. E. [Address]
Mr. F. G. [Address]
Mr. H. I. [Address]
Mr. J. K. [Address]
Mr. L. M. [Address]
Mr. N. O. [Address]
Mr. P. Q. [Address]
Mr. R. S. [Address]
Mr. T. U. [Address]
Mr. V. W. [Address]
Mr. X. Y. [Address]
Mr. Z. [Address]

a secure place of attachment, upon which they can
repose firmly, conveniently, and gracefully.

From the Mammae we pass by a
natural transition to the disquisition of the softer
portions of the System, the only two of these
to which we think it necessary to give a particular
consideration are the cutaneous in immediate con-
=nection with the cellular tissue and the nerves,
the muscles having nothing peculiar about them
except their diminutive size, which has been hereto-
fore mentioned.

To the cutaneous and cellular
tissues we owe that beauty and delicacy of
appearance which arrests the eye, and that soft
and elastic surface so grateful to the sense of
touch, which were necessary to fit Woman
to fulfill one part of her mission as heretofore
described; by enabling her to fix the attention of
Man, and minister to his pleasure.

Accordingly we find that the skin
in Woman is more clear and transparent than
in Man, thus exhibiting to view the sportive and

13
fanciful ramifications of the arterioles, and
impacting to the complexion that exquisite
variety of shades, which rises from the
slightest blush, to the permanent floridness
of youth.

^{my} These ramifications of the
arterioles which exhibit themselves through
the skin, meandering over the surface with
a freedom which strikes the eye of the
beholder, and fills it with admiration, is
owing to the following causes.

^{my} The blood in woman
derives less support from the tunics of the
veins upon its return to the heart, than in
man, this with a more relaxed habit, causes
the veins to become distended and conspicuous.

But the skin has also another impor-
tant duty to discharge, for it not only forms
the covering which binds together, and protects
all the other tissues of the body, but in woman
during pregnancy, when the uterus can no longer
confine itself within the pelvis, the skin together

with the muscles of the abdomen give it support, and furnish it a place of rest. 141

Of the cellular tissue it is only necessary to observe, that to it, and the larger deposit of adipose matter immediately under the skin, is owing that plumpness which characterizes Woman, and perfects the symmetry of her form, by rounding off those projections, often almost deformities observed in Man.

^{my} From these tissues which may be considered as merely passive we will pass to the examination of the nerves and their influence upon the system, which is active and important.

^{my} They present in Woman a greater delicacy in size, but they possess a more exalted degree of sensibility than in Man, and are supposed to be more strongly and easily acted upon by external agents, hence we find Women more subject to spasmodic diseases. ^{my} From this refined and

Of the cellular structure
of the brain, and its
relation to the nervous system,
and the influence of the
various organs on the
functions of the brain.

The brain is the seat of the
intellect, and the source of
the nervous system. It is
divided into two hemispheres,
the left and the right, which
are connected by the corpus
callosum. The brain is
covered by the meninges,
which consist of the dura
mater, the arachnoid, and
the pia mater. The brain
is supplied with blood by
the carotid and vertebral
arteries, and is drained
by the jugular and vertebral
veins. The brain is
protected by the skull, and
the meninges. The brain
is the seat of the intellect,
and the source of the
nervous system. It is
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veins. The brain is
protected by the skull, and
the meninges. The brain
is the seat of the intellect,
and the source of the
nervous system.

5

intense activity of the nervous system, also
Spring (in addition to the sensibility of character
heretofore pointed out as one of the principal charms
of Woman,) that ardency of affection, and warmth
of feeling) which peculiarly fit her to discharge
the duties of a Wife and Mother, and which
causes her, particularly when acting in the latter
character, to watch over her helpless Offspring
with untiring fondness; and to derive the highest
pleasure from providing for, and administering
to its wants.

But the pleasure which she thus
derives from the warmth of her feelings, has
a terrible offset in the list of hysterical
diseases, to which her exquisitely sensitive
nervous system subject her, as well as in the
low spirits, doubts, fears and gloom; which
hang around and annoy her during pregnancy.
This brings us naturally to the consider-
=ation of an organ or class of organs, which
are peculiar to the female, and whose influence
upon her system has been considered as not

the value of a thing is not its
utility to the possessor but its
utility to the person to whom it
is given. The utility of a thing
to the possessor is not its utility
to the possessor but its utility
to the person to whom it is
given. The utility of a thing
to the possessor is not its utility
to the possessor but its utility
to the person to whom it is
given.

But the person to whom it is
given is not the person to whom
it is given but the person to
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not its utility to the possessor
but its utility to the person
to whom it is given. The utility
of a thing to the possessor is
not its utility to the possessor
but its utility to the person
to whom it is given.

16

second in point of power, to any other; an organ whose sympathies are so greatly extended and influential as to expose the individual to some of the most distressing, obstinate, and at times dangerous diseases (we allude of course to the uterus and its dependant organs.) We might here cite the authority of numbers to prove almost its powers of ratiocination, or at least of its exalted intellect, but we permit such gross and absurd notions, to rest undisturbed, with the dust of their promulgators; or enjoy that oblivion which the progressive roll of years is fast ensuring. nor need we even notice one so monstrous as that which Arctus has committed in his preposterous opinions on this subject; "it has gone to the tomb of the Capulets" and we cannot do better than let it repose there with the many other exploded and forgotten absurdities. we will therefore pass to the great question, —

Is the uterus the modifier (if we may use the term) of the female system to the

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extent that it stamps upon her, all her char-
-acteristic peculiarities? or in other words,
would we be correct in saying with Vanhelmont

"Propter solum uterum mulier est id quod est"

Although we are constrained to ad-
-mit the uterus to have an influence in the system
more or less powerful, still we cannot now be-
-lieve, that it is the sole modeler of the female
system: Many have fancied the uterus to
possess a life almost independent of the existence
of the female, and Sydenham, Gallen and some
others, not wishing to go the same extent - with
some of their predecessors and contemporaries
have modified their doctrine into one, -
ascribing to the uterus the power of pro-
-ducing, or at least of modeling diseases.

Again we have others who are disposed
to consider the uterus "as a simple passive, ac-
-commodating organ" and of course as such,
could be dispensed with, or removed from
the body, without the system suffering from
its absence; they conclude it can have little

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

18

away in the management of the functions of the body.

Thus we are at once presented with hypothesis, directly contradictory, but advanced by authority - which should not upon every occasion be set at naught, for instance upon the defensive, in the first theory, are enlisted; the persevering and artful Sydenham the ingenious and talented Cullen, the erudite and masterly Good, together with a long train of others whose opinions are entitled to the highest respect, while the other is also supported by authorities which offer some arguments, evincing depth of thought, and extensive range of intellect. yet we are nevertheless disposed to agree in toto with neither, but from reading, and our own extremely limited observation, we embrace the doctrine advanced by the highly gifted Teacher of Midwifery, and the diseases of Women and Children (Doctor Dewees late of Philadelphia.) Dr Dewees says in a word "we are of the opinion, that the uterus ranks

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19
in the first order of the viscera, that its health is very necessary to the general health of the system, but that it does not exert any particular power over other portions of the body, more than any other important viscus would, under the same circumstances, namely of disease, that its influence is greatest while performing or giving evidence of its best state of health - namely pregnancy."

Although we feel that this essay is extending itself to a somewhat inordinate length, we cannot dismiss the subject of the uterus without adverting to the periodical discharge of sanguinous fluid, which takes place from it, and is known by the name of the menses, this discharge which usually commences from thirteen ~~years~~ to sixteen years of age, in this country, and terminates at from forty - to fifty.

We think it unnecessary to describe particularly, its commencement is considered as marking distinctly the

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age of puberty, and its cessation has been thought
by many distinguished writers, to be fraught with
peculiar danger to the female system.

Broussais says "cessation of the menstrual
discharge is a prolific source of congestion or
some variety of disease"

As we cannot entirely agree with
this distinguished French pathologist, and
as we feel it might be considered presumption
in us to differ from so high an authority, we
shall offer no apology for sheltering ourselves
behind the same eminent writer whom we
have heretofore quoted on the subject of
the uterus.

Speaking of the Menstrues and the
consequences arising from their regular or irreg-
-ular flow, Dr Dimesse when he comes to treat of
their cessation says "The vulgar error that Women
at this period of life are always in danger, is
replete with ~~danger~~ mischief to the suffering
sex, and I feel it a duty to declare, that they
are not necessarily more obnoxious to disease

one of the most important...
the first of these...
the second...
the third...
the fourth...
the fifth...
the sixth...
the seventh...
the eighth...
the ninth...
the tenth...

at this, than any other period of their existence
that they are sometimes liable to a disease at
this time, and that disease one of the most
terrible in the long list of human infirmities, I
admit, but must nevertheless insist that
Cancer (the disease to which I allude, and the
one so much dreaded,) is more rare in the uterus,
than in certain other portions of the body, for
instance, the Mammae, and perhaps I am
within the truth when I say, that there are three
instances of the latter, to one of the former.

If latent disposition to disease, either
in the uterus or other parts become active about
this period of life, it is not because the declining
menses excite them, but because the disease is slow
in developing itself and is perhaps kept in check
for a long time by the menstrual discharge
serving as an important evacuation, especially
when the uterus may be the seat of the Com-
plaint, in such instances the foundation
of the disease was laid perhaps at a time
when the menses were the most perfect, as

at this their respective places of their residence
that they are sometimes liable to a disease of
the lungs, and that disease one of the most
decide in the long list of human infirmities,
and that they must sometimes be liable to
the disease (the disease is called Tubercle, and is
one so much dreaded) in their way for the
time in certain other parts of the lungs, in
consequence of the disease, and perhaps of an
action the lungs when they are so
in the case of the lungs, in one of the
of which the disease is liable to
in the lungs or other parts of the
the part of it, it is not because the
lungs are diseased, but because the
in consequence of which and in consequence of
for a long time to the lungs and
being an important consideration, especially
when the lungs may be the seat of the
disease, in such instances the
of the disease and the
when the disease is in the lungs

regards period and quantity, consequently they could have had no agency in their production but on the contrary (from its frequently relieving the engorgement of the vessels,) served to keep it in ~~such~~ subjection for a long time, not as a specific discharge, but as a mere depletion, or in other words, if an equal quantity of blood could have been by any other means, as certainly abstracted from the uterus, the same favourable result would have follow'd.

Coincidences in the human system are so common, that they are frequently mistaken for cause and effect, hence the cessation of the menstrual discharge, and the appearance of ~~Scirrh~~ and Cancer are considered as cause and effect." (Dr Dewees on ^{Females} ~~Children~~ - page one hundred and forty seven.)

Upon such opinions we need offer no comments, the language is plain, and the objects marked out as the aim of his remarks sufficiently clear and well proven we can therefore at once dismiss this part of our subject.

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We might here proceed to comment upon diseases incident to pregnancy, but will content ourselves with a few remarks upon the subject of Conception as it is one of the peculiar attributes of the Female.

We will not dwell upon the many theories which have been broached, with respect to the part that each Parent performs, in imparting vitality to the foetal germ from which is to spring the future Man - we will here only remark, that Women seldom betray the same anxiety for sensual indulgence which we discover in the Male.

Whether it proceeds from a deficiency of natural stimulus, or the effect of Moral education, we are not able to say, however we should think that *ceteris paribus* - the act of union was as highly delightful to the female as to the Male, this may well be, and yet the desire may not be so great: may not the mechanical irritation of the vulva and vagina in coition compensate for the deficiency of natural stimulus.

But we have adverted to this subject, rather for the purpose of calling your attention to the

The subject of this paper is concerned with the
 history of the discovery of the element
 and its properties. It will be found
 that the element was discovered by
 the Russian chemist, Dmitri Mendeleev
 in 1869. Mendeleev arranged the
 elements in order of increasing atomic
 weight, and he found that certain
 elements were missing from the
 table. He predicted the existence
 of these elements and their
 properties. His predictions were
 later confirmed by the discovery
 of gallium, scandium, and germanium
 by other chemists. The periodic
 table of elements is now based
 on Mendeleev's original arrangement.
 The periodic table shows the
 relationship between the elements
 and their properties. It is a
 very important tool in chemistry.

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beautiful and harmonious manner in which Nature carries on her works, by showing the sympathy which exists between the distant organs, one necessary to the protection of the foetus, the other to the nourishment of the Infant.

The uterus and the Mamme, though situated widely apart, are still so intimately connected, that when the first has ceased to be necessary by the birth of the Child, the *causa natura* which invites a plethora to the uterine vessels, and thus produces the healthy Menstrua which prepare the female for impregnation, and produce a fullness of the uterus during pregnancy, thereby furnishing support to the foetus, appears instantly to transfer its power to the lacteal vessels situated in the Mamme, and convert through their agency, the fluid which had heretofore been supplied to the uterine vessels, into that pure and nutritious milk, which flows almost spontaneously from the Breast of the Mother, for the support of her Child.

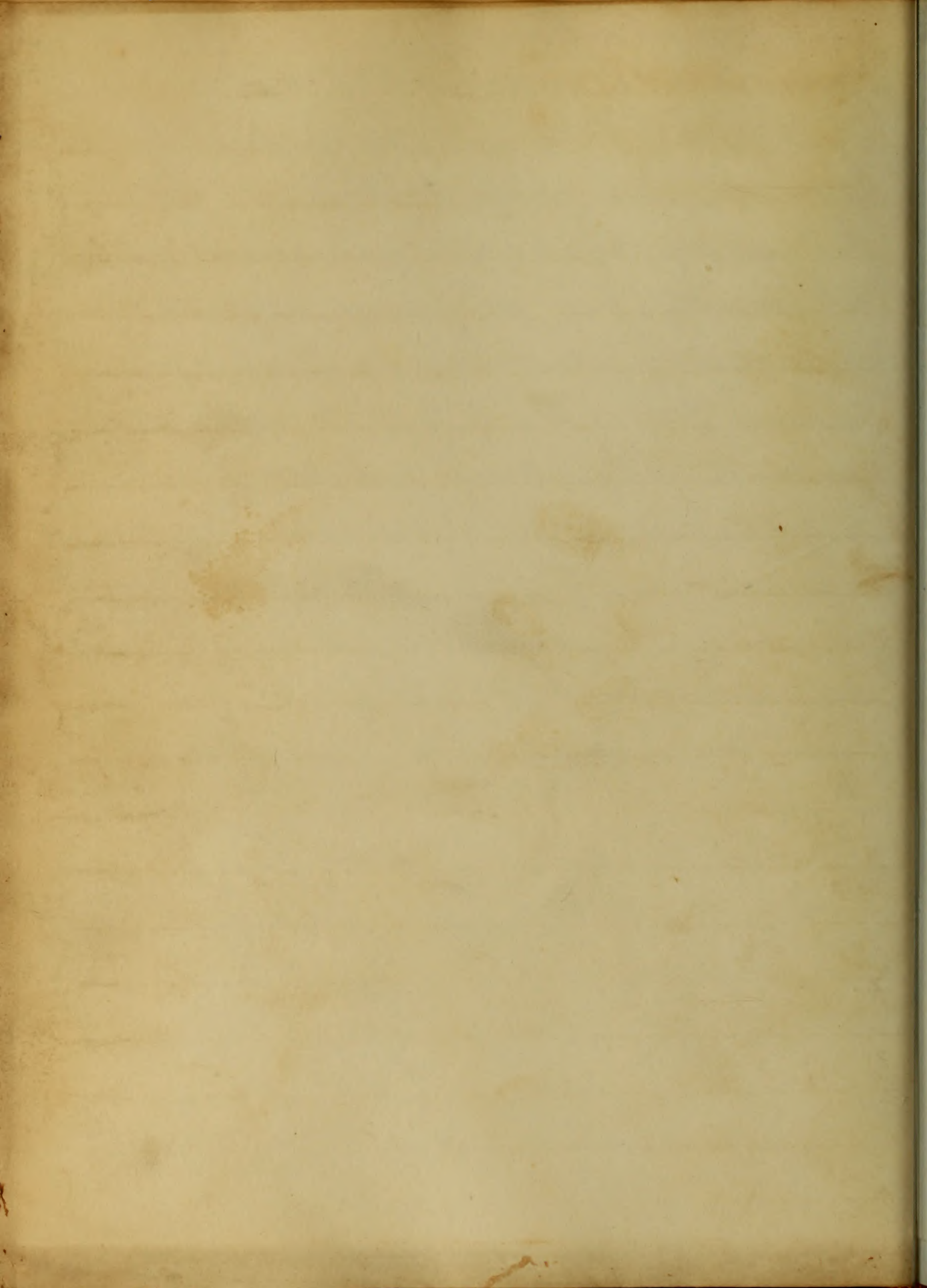
We have finished our

25

Survey of the peculiarities of Woman, and
think that it fully justifies the conclusion
that she has been placed on Earth, by a Benificent
Providence to fill a high and important mission
both morally and physically, and that
Omniscient wisdom has admirably adapted
this last best gift of God to Man, to the
purpose for which it was bestowed, and we
cannot but feel a higher reverence for, and
deeper attachment to the Medical Science,
when we feel the Mind expanded by the Mag-
nificent views which are opened to us by
its Study. ~~~~~

January of the present year
I have had the pleasure of receiving
from your father a copy of the
report which he has prepared
for the trustees of the
Trustee's office. It is a
very interesting and
important document, and
I am glad to hear that
it has been so well received
by the trustees. I am
glad to hear that you
are so interested in the
affairs of the Trustee's
office, and I am sure
that you will continue
to be so in the future.

Yours truly,
John D. ...



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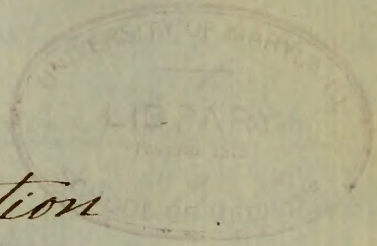
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An
Inaugural Dissertation
On
Intermittent Fever,
Submitted to the examination
of the
Provost, Regents, and Faculty of Physic,
of the
University of Maryland,
for the
Degree of Doctor of Medicine;
by
Jacob T. Thomas,
of Maryland

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Intermitting-fever has been divided by authors into quotidian, tertian and quartan; which has reference merely to the intervals between the accession of the paroxysms; 24 hours in the quotidian, 48 in the tertian, and 72 in the quartan.

The fully developed ~~type~~ paroxysm of either type is usually the same; it commences with a creeping chilliness along the spine; with languor, or a sense of fatigue; paleness, or slight collapse of countenance; lividity of the nails, occasioned by the recession of the fluids from the surface, and languid circulation of what remains in the smaller vessels; the temperature of the surface is reduced, and a feeling of universal coldness prevails, and not unfrequently to a much greater extent than the temperature of the surface would lead you to ~~ex-~~pect. The skin is dry and rough, especially on the extremities; shiverings, tremblings,

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2
or rigours occur. Sighing, oppression or an-
xiety at the praecordia, yawning, stretching,
oppressed respiration, occasional short
cough, and nausea is also frequently present;
aching of the back and limbs, or bones, as
it is usually expressed; clamminess, and
disagreeable taste in the mouth; the toun-
ge is white; appetite lost; urine limpid,
and frequently voided. The bowels commonly
constipated, although the opposite sometimes
does obtain; for with a sickness and bili-
ous vomiting, there is not infrequently
a simultaneous purging; thus constitu-
ting a Cholera Morbus, which continues a
shorter or longer period, sometimes only
during the cold stage, at others during the
whole of the period of the chill and fever
if not interrupted; thus swallowing up as it
were, or taking the place of, both chill and
fever, destroying their distinctive charact-
ers, and appearing again at the usual period

in your own. I have been thinking of you
very much lately, and I am sure you
are all well. I have been very busy
with my work, but I have managed to
find some time to write to you. I
hope you are all well and happy.
I have been thinking of you very much
lately, and I am sure you are all
well. I have been very busy with
my work, but I have managed to
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find some time to write to you. I
hope you are all well and happy.

of exacerbation. The pulse is constricted, small, and weak, and often hurried; the mental powers are weakened or oppressed. Such is the cold stage, or stage of accession.

These symptoms having continued for a longer or shorter period, from half an hour, to three or more, are succeeded by transient flushes of heat, at first alternating with rigours, which diminish as the flushing and heat increase; until the surface gradually recovers from its sunken or contracted appearance, the body first, and the extremities last: the heat still increasing to a more or less intensity; headache and throbbing of the temples; turgescence of the countenance and skin; a full, strong, and frequent pulse; high coloured and scanty urine; intense thirst; hurried breathing, with but little abatement of the aching pains; these are some of the most frequent and prominent symptoms of the hot or second stage.

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After a time varying from two to eight hours, perspiration breaks out over the forehead and breast, extending rapidly over the whole body, and soon becomes profuse; all the unpleasant symptoms now abate rapidly, all the secretions seem more abundant, the bowels more easily acted on, the mind more composed; in short, the whole animal machinery is again set at liberty to resume the functions of animal and organic life, and all the relief that would flow out of the change from a diseased to healthy action, the subject now enjoys.

But this relief is only for a season, hostilities are only suspended, there is no actual peace, it is but a truce, and that too not unfrequently a Mexican one, which only affords time for the enemy to recover fresh energy to renew the onset, which it will do after an interval of 24 hours if a quotidian,

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48 hours if a tertian, and 72 if a quartan. 5
The most common of these forms is the tertian, which is considered the primary type of intermittent fever. These form the regular types of intermittent; but there are others which are irregular; as the double, triple, and reduplicating tertian; the double, triple, and reduplicating quartan, &c. &c.; of these the double tertian is most common, and differs from the quotidian only in having, on alternate days, fits corresponding in time of accession, severity, character, and duration. The effects triple tertian has two fits on one day, and one on the next; a duplicated tertian has two paroxysms in alternate days, with one whole day of intermission; a double quartan has a fit on one day, a slighter fit on the next, and a complete intermission on the 3^d day; the paroxysms returning in a similar manner on the 4th and 5th; a triple quartan has a fit on each day—on

the two usual days of intermissions; but as in the case of the double tertian the fit of each differ in character and period of accession, so that the one returning every 4th day is alike. The duplicated quartan has two paroxysms on one day, and two whole days of intermission. Besides these, intervals of from 4 to 8 days may occur, or even longer periods, 7, 14, or 21 days, as periods of relapse. The longer the period of intermission the more readily will be the restoration of health; but during this intermission the patient often complains of weakness, of heaviness or pain of the head; of a sense of cold, shivering from the slightest reduction of temperature; want of appetite. When the disease is suffered to continue some time, although it does not change its type as it is prone to do, the patient becomes weaker, loses flesh, has a sallow hue, experiences enlargement of

some of the viscera, the spleen, liver, or pancreas, most generally the former, with a deranged state of the secretions and excretions, the disease passing into terminations that end in death.

When the disease involves any of the viscera it presents diversified symptoms, according to the organ especially affected. If the stomach be principally diseased, a severe burning pain is felt in that region, with distention, nausea, and vomiting; distressing flatulency; dry or red tongue; high coloured and scanty urine; sallow or depressed countenance; imperfectly developed hot stage; a quick, contracted pulse; pungent heat of the trunk, with little alteration of heat in the extremities; intense thirst; hiccough; headache, and delirium. If the liver, you look for ^{the} pain in that region; a tenderness on pressure over that organ; pain in the right shoulder;

Some of the more or the less
great; that generally the
tragedy of the situation
times, the things passing
that end in the

When the more number of
I found myself in the
of the paper especially
I found to be principally
having been in the
the situation
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I had not and
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at the paper
and that of the
I had not in
I had thought
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8
oppressed breathing, or hurried respiration
on little exercise; bilious vomiting;
diarrhoea, or a dysenteric and morbid state
of the stools, which assume all the varieties
of appearance peculiar to a disturbed
state of the bowels; the stool sometimes
dark or bloody, at others no bile being present
they have an ashy grey appearance.
The skin appears jaundiced, sallow,
harsh, and husky, no perspiration to
give it the soft natural feel.

If the bowels are chiefly disordered the fever
assumes a dysenteric character; the evacuati-
ons being very morbid; sickness and vomiting
are less urgent or altogether absent; and the
hot and sweating stages are imperfectly
formed.

The spleen is enlarged almost as a neces-
sary consequence in this disease when
uninterrupted; but it being an organ not
so essential to life as the preceding ones,

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9

There are not the same constitutional symptoms present; it may be enlarged a long time without materially altering the general health.

These complications may coexist, or one or more predominate; but they seldom continue long without assuming still more dangerous forms; great prostration; dropical effusions in the larger cavities, either alone or with anasarcaous swellings; syncope; quick, small, and weak pulse; great thirst; anxiety and oppression; and lastly, delirium, Coma, and death close the scene. These are a few, and most of the prominent morbid effects of this disease.

But to these may be added a number of others; the lungs and brain may both come in for their share of morbid alterations, both functional and organic, which may be readily recognized, and claim prompt

The most common condition of the
system is that of a simple
fever without material alteration of
the general health.
The constitutional changes may consist, as we
have seen, in the temperature, but the
ordinary body weight remains all
the same, and the pulse is not
altered. The pulse is in the
after stage or with depression of
force, quick, small, and hard, and
greatly increased, especially in the
and late stages. The pulse is not
slow in the same. There are a few
cases of the prominent mode of
the disease.
But to this we will add a number of
cases the temperature of which
is for the most part of moderate
but fluctuates and is generally
the most frequent and common

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attention on the part of the practitioner. Amidst all this diversity and complication of morbid phenomena and effects there is yet another form of intermittent fever that must not be passed over unnoticed. It is the diversified form it assumes according to constitution and predisposition to particular diseases of some individuals, independent of a peculiar epidemical trait that each succeeding epidemic assumes; such as at one time great determination of blood to the head, or much gastric irritability, or irritability of the bowels; at another time the force of the poison is spent upon the nervous system, without much vascular disturbance; at another time great arterial excitement, without any especial determination to any of the organs before mentioned.

But it appears in a masked form which

sometimes receives the name of misplaced intermittent; it shows itself principally in the nervous system in the form of a neuralgia, as sciatica, headache, toothache, hysteria, painful affection of some one or other part; periodically observing the same types of chill and fever, but unaccompanied by either; and is readily recognized by its paroxysmal and intermittent character, and must be met with the same treatment as the more fully developed and less obscure intermittents.

The prognosis of Intermittent fever it is evident must depend upon the pathological condition in which it presents itself.

Just in proportion as the different organs enumerated are implicated, compounding the disease, so must the prognosis be unfavorable.

The circumstance of more favourable states of the disease being liable to dangerous complications, or structural changes, ought not

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to be overlooked - apoplexy, coma, paralysis,
fatal congestions of some one or other organs
very essential to life may supervene.

As to the diagnosis; there seems to be but
little difficulty in recognizing this disease
in a few days; nor is it so important, as the
same fever although ^{of the} remittent or continued
type receives ~~is~~ nearly or about the same
treatment; and in this respect differs from
the older and far inferior way of managing the
disease.

When we come to speak of the cause of Inter-
mittent fever, after taking an impartial view
of facts of which we are furnished with in
abundance, the most plausible conclusion
to be arrived at is, that there is a subtle
and mysterious aerial agent called Malaria,
of which, like electricity or Magnetism, we
know but little, but by its effects, as the pre-
disposing cause; how this agent is formed
is perhaps yet to some extent unsettled, but

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it seems however, ^{that} the Mass of evidence goes to show that it is an emanation resulting from the decomposition of dead organic substances; heat and moisture in proper or certain proportions being the only agents necessary to produce it on any part of the face of the globe, where organic Matter, animal or vegetable, or both, exist, and the requisite quantity of heat and moisture are brought to act simultaneously upon it in a proper degree. It will appear manifest from this that certain locations are liable to, or exempt from, its production, depending upon their geographical position in latitude and longitude, as well as to their topographical locations as to situation. To receive the action of the solar heat on a surface already properly moistened in the same latitude, therefore the same community may suffer in different degrees owing to slight differences of position; as for instance in a previously

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14
healthy district a stream is made to overflow its banks by an obstruction in its course or heavy rains; there intermittent and remittent fevers are sure to prevail, varying in intensity as the inhabitants are distant from the centre of infection; in some sections shaded by the trees of the forest little or no disease is known until the hand of industry removes the more bulky vegetable productions, and the forest mowed down, the sun now has access to the surface which gives out this newly found poison to an extent capable of producing disease.

This poison is further increased by the hand of cultivation in turning up to the action of intense summer heat the soil containing the accumulated animal and vegetable deposition of years, which same section is rendered more salubrious by active and long continued cultivation, the proper relative ~~causes~~ proportions of

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15

The generative causes being destroyed, It has been observed that primary formations with a sandy soil and undulating surface are exempt from disease resulting from this poison, owing to the rain percolating through the sand and running over the undulating surface; whereas, in secondary deposits flat surfaces impervious to water yielding by evaporation the moisture it receives, carrying with it into the atmosphere a portion of decayed animal and vegetable matter, for which vapour or moisture it has a peculiar affinity; it may be arrested too by being drifted through a skirt of woods, impinging itself against the trees and their foliage in its onward course, the woods serving as safeguard to the settlement beyond this boundary. That this poison may be accumulated and held in position for a length of time we have seen a melancholy instance in a location where intermitting fever prevailed endemically

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general sale. It is a valuable
reference work and is highly
recommended to all who are
interested in the study of
the history of the United States.
The price of the book is \$2.00
per copy. It is published by
the Government Printing Office,
Washington, D.C.

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in a moderate and manageable form every where within a certain limit, except one dwelling which had been untenanted: during the formation of this poison the house was closed, unventilated, and damp.

No sooner however than it was occupied, the rooms heated, the moisture dissipated, and the poison set afloat, the inmates one after another, in rapid succession, fell sick with a fever of a typhoid type losing all traces of an intermitting character, depressing the vital energy by its intensity, ending in disorganization and death; thus showing that by its intensity from accumulation this same poison is capable of producing disease entirely different in malignity and characteristic features from intermittent fever.

Notwithstanding this poison is the chief agent in producing so much mischief, this agency, however powerful and in every respect essential to the formation of

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intermitting fever, may justly be termed only
the predisposing cause, and the only one capa-
ble of producing such a result; and that
this predisposition too to a disease may
lurk in the system for a shorter or greater
length of time is annually exemplified
in miasmatic districts; there will be fre-
quent threatenings of symptoms of the for-
mative stage of one or the other types of
bilious ~~fever~~ disease, and yet not break out,
perhaps, at all in many instances, when the
heavy frosts of autumn comes to the rescue
and destroys the poison, by which the inh-
abitants are released for the time being, and
time gained through the winter for this
propensity to wear out of the system. But
all are not so fortunate, there will be some
exciting cause which is traceable to any age-
nt which has for its effect a depressing or
debilitating influence, excessive fatigue, night
watching, any severe mechanical injury, impro-

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18
prieties in diet, fear or any of the depressing passions, the loss of blood or a dose of salts to call it into action; hence the very common saying in those districts, "If you get bled or take a dose of salts you'll get the ague."

It requires in many instances however a long time for this predisposition to wear itself out of the system; a year may elapse and if sickness from cold or other causes is induced it will partake of the intermitting character, although at the time there is no Malarial influence exercised; this predisposition adheres with more pertinacity to those unaccustomed to breathe and dwell in such an atmosphere.

Having enumerated most of the prominent characteristic symptoms of intermittent fever, as well as the predisposing and exciting causes; our next step will be to give a very brief account of the manner of

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treatment; which must be varied to suit symptoms; for every case points out its own mode of cure; therefore our few remarks will be confined to general principles.

The leading intentions which should be kept in view in the treatment of the paroxysm are, 1st, to guard against congestions of important viscera during the cold stage, and secondly, to protect internal organs from the effects of excessive reaction in the hot stage, and thirdly, to promote an abundant perspiration whereby the vascular system may be relieved.

Warm diaphoretics and external heat are the means not usually pointed out to fill the intentions indicated in the cold stage; but there is a condition in this stage that may be met and promptly relieved by bloodletting: it is when, notwithstanding there are severe rigours and shiverings, oppressed and hurried breathing, the skin is hot, and pulse full

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20

and active; here the lancet can be resorted to with marked success; the abstraction of blood to an extent to produce a sensible effect will unburden the system, calm the commotion of the heart and arteries, remove the oppression in respiration, procure a full and free perspiration; thus cutting the paroxysm short, and warding off the shock the system would have to sustain, if suffered to go unmolested: but if on the other hand the heart and arteries are less active, the surface cold and shrunken, and the saving of the vital fluid important, as it doubtless would be, our chief reliance should then be placed upon the application of ligatures around the extremities; warmth external and internal; and in some cases stimulants are indicated, in the employment of which our object should be to select those whose effects will not likely continue over to the hot stage, and one of the best is Carb. of Ammonia.

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2
The second or hot stage must be as scrupulously guarded, and as promptly met, as the cold; here too Nature points out the means which, whilst they are the most successful, they are at the same time the most grateful to the patient; the temperature of the body is to be reduced by cold applications to such parts as suffer most, and at the same time administering cold drinks both to satiate the burning thirst, as well as to rob the body of excess of heat, bringing the temperature down to the sweating point, where this refrigerating treatment must stop; but our most powerful means where there is much excess of action for its subjugation, is to be found in the lancet: when the fever is at its height and relief most needed, tie up the arm and draw blood from a large orifice until a sensible effect is produced, which will cause an amelioration of all unpleasant

[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The text is mirrored across the page, suggesting bleed-through from the reverse side.]

27
symptoms of this stage, accompanied by
a reduction of temperature, and a free per-
spiration.

Next to the lancet are evacuants, ^{by} puking and
purging; either one or both, if they be not con-
traindicated by that effect spontaneously
already.

The stomach and bowels should be relieve-
d of all irritating substances, either by an
emetic where there is not too much gastric
irritability, or a cathartic of colomel foll-
owed in a few hours by some other purga-
tive to ensure its action. These evacuants
are all important not only for present relief
in the hot stage, but their effect prospec-
tively is of equal benefit, for they do not
only invite the sweating stage earlier, but
they prepare the system for another very
important set of remedies, of which we
shall consider hereafter.

The selection of our therapeutic agents in

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27

The treatment of this as well as all other diseases must be made according to the symptoms and idiosyncrasy; if there be tenderness in the epigastric region or if there is irritability of stomach emetics ought not to be administered as a general rule; but when they are tartar-emetic is to be avoided, ipecacuanha being far more safe. If however these contraindicating symptoms be not present, and the patient's stomach will tolerate tartar, it will be found to be the most efficient emetic that can be employed, on account of its exerting a more general influence on the animal economy; it subjugates arterial excitement, and holds it under control longer and more effectually than any other emetic, producing more relaxation of the skin, as well as the other excretories, reducing the temperature of the body by the elimination of these

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24
secretions at a time when every vessel is sur-
charged with their respective fluids. It is
during the hot stage therefore that this
emetic is most beneficial.

It will be perceived that emetics are not
only beneficial in ridding the stomach
and bowels of their contents, but also
by their relaxing the system and un-
locking all the natural outlets for the esca-
pe of recrementitious matter. The same rule
that guides our selection of emetics must
be observed in making choice of purgatives;
when there is great irritability of the stoma-
ch and bowels drastic purgatives must be
avoided. Calomel is perhaps in this disease
the one which we may expect to derive
the most advantage from; it has of all
others the greatest latitude of application,
and seems to be a purge best suited to
bilious disease, either alone or in combi-
nation with some other cathartic of a more

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25

active character, the action of which it does, by combination, materially modify. After a well directed use of the lancet, emetics, and purgatives, as they are directed indicated, there will be a limit to their usefulness; we may derive still further benefit from another class of remedies to be found amongst diaphoretics; in the decline of the fever of each paroxysm, and of these agents perhaps the best are those the least stimulating, as the solution of tartar, opt, nit., &c., accompanied with mild diluent drinks.

Now, having, by the means already spoken of, conducted the paroxysm to a safe and desirable termination, our next object is to prevent its return, which is the cardinal and important point to attain; for the sooner this is accomplished the less mischief there will be to combat in the progress of our treatment.

26
The Interruption. Happy for mankind it is, that
our treatment now is no less effectual than
simple, and for this purpose numerous reme-
dies are recommended, or have been; there are
Cinchona bark, Cyanuret of iron, Arsenic, ~~Piperin~~,
Eupatorium perfoliatum, Spider's web, Cornus
florida, Ginger, &c, none of which however
are near so useful as the sulphate of quinine;
but all doubtless are of more or less benefit; and
some of which may be employed with decided
advantage. The sulphate of quinine is given
with a view to its antiperiodic properties,
also to cut short at once the disease; its exhibit-
ion should be commenced immediately
after the subsidence of the paroxysm, thus giving
time to insure its specific effects upon the
system, before another fit shall have come on.
It may be given in form of pill, solution, pow-
der, as an emulsion, or endermically, depending
altogether upon the circumstances of the case.
The dose of quinine may be said to be about ~~gr~~

5 grs, which must be varied according to the 27
urgency of symptoms or the particular susceptibility
of the patient to its specific effect; it will occasi-
onally be found necessary to increase it to as
much as 20, or 30 grs, but seldom more than
this can be taken with safety. We always
know quinine to be exerting its specific influence
by the effects produced on the patient, such as
ringing or buzzing in the ears; he may also become
delirious, in short we know it by the head symp-
toms it gives rise to, and it is with this view
sometimes it is given, for instance, in extreme
bad cases where a small dose would not check
the disease, or where we apprehended danger
from another paroxysm occurring. This remedy
should be continued until all apparent disposition
of the paroxysms to return shall have gone. None
of the other remedies mentioned will we further
notice, except arsenic; and this only to say it
is a remedy more likely to do harm than good,
and should never be employed until every

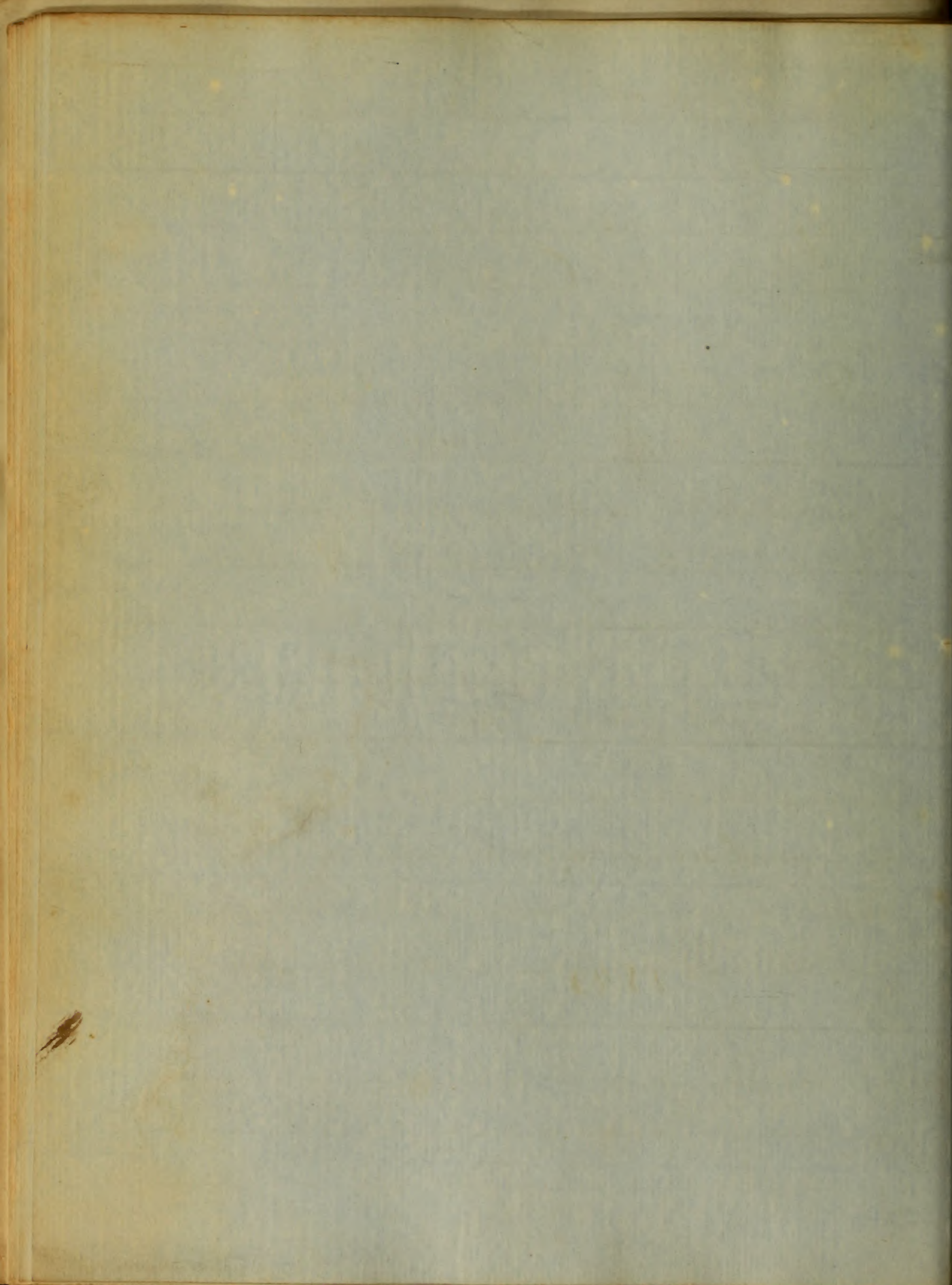
other rational plan of treatment had failed, and then its use must be guarded by exceeding caution. 25

We have said before that our chief means for the cure of an intermittent is sulphate of quinine, and it will seldom or never disappoint our expectations if properly administered. It probably comes nearer to being a specific for this disease than any other article of the Materia Medica. But there still is one objection to the article, for in some parts of country where ague greatly abounds, and chiefly amongst the poorer classes, its very high price in some cases places it beyond the reach of those who would be most benefitted by it. There is therefore a great desideratum to be attained, the substitution of some article that will fully supply the place of Quinine, and which can be furnished at a sufficiently low price. This desideratum appears to be attained in the very recent discovery of the Sulphate of

The National Bank of the United States
has been authorized to issue
bank notes in any amount
not exceeding the amount of
its capital and surplus. The
notes are to be payable to
bearer or to order of the
bearer. The notes are to be
redeemable in gold or silver
at the option of the holder.
The notes are to be subject
to the same laws and
regulations as the notes
issued by the United States
Treasury. The notes are to
be a legal tender for all
debts payable in money.
The notes are to be
issued in denominations of
one, two, five, ten, and
twenty dollars. The notes
are to be signed by the
President of the United States
and countersigned by the
Secretary of the Treasury.

29
Cucurbitin, which, it is said by those who have
examined the medical properties of the salt,
will fully supply the place of the Sulphate
of quinine in its action on the human
system. It is obtained by easy chemical pro-
cess from a tree in Demarara, the supply
of which is said to be unlimited, and
can therefore be produced at a price which
will put it in the hands reach of those
most requiring its benefits. It yet remains
to be tested by the profession generally, and
should they unite in the high recommen-
dations already given of its efficacy, it will
be hailed as a valuable addition to the
treasure of our already rich Materia Medica.

The first of these is the
the second is the
the third is the
the fourth is the
the fifth is the
the sixth is the
the seventh is the
the eighth is the
the ninth is the
the tenth is the



Inaugural ^{And} Dissertation"
on
Delirium Tremens,
Submitted to the Examination
of the
"Provost, Regents and Faculty of Physic"
of the
University of Maryland
For the degree of
Doctor of Medicine
by
John L. Gibson
Session
1848

Delirium Tremens,

Delirium Tremens is a nervous affection; What is a nervous affection may firstly be asked; We know nothing at all about it, and the name amounts to a confession of our ignorance.

Pathological Anatomy has discovered alcohol in the Serum that is often effused in the Ventricle, and other parts of the brain; but whether the poison acts directly by stimulating the nervous map, or indirectly by rendering the whole System abnormally irritable, remains yet to be decided —

The predisposing causes to delirium Tremens are alcohol, Opium, mental exertion, continued for a long time without sleep, febrile diseases and other causes which reduce the general strength.

But Alcohol is by far the most common cause, indeed almost the only one, for it is not often that we see it caused by Opium; Dr. B. H. Coates in an article on delirium Tremens, published in the North American Medical & Surgical Journal for 1827, states that he has seen cases caused by the intermission of the use of Opium: Dr. Chapman says that he has seen the disease brought on by the use of Tobacco, now in this case the delirium is the consequence of the primary effect of Tobacco, for it has a direct sedative influence on the brain, not stimulant

William Brewster

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7
Delirium Haematicum as described by Dupuytren comes
more under the direction of the Surgeon; Delirium Tremens
may come on after a debauch, in such a case it is
commonly a person of weak Constitution and irritable
temperament, or one not accustomed to such Stimuli,
or in tipplers when by some accident their accustomed
drain has been stopped: In the latter Case slight symp-
toms are often observed in the morning which disappear
after the use of their usual Stimulus.

The disease may supervene after various acute diseases,
Delirium Tremens is commonly divided by Authors into two
forms though in practice it is often difficult to say
which form we see, in consequence of the many compli-
cations it may have, together with the difficulty and
often impossibility of obtaining any information from
the Patient.

In the first form Delirium supervenes during the debauch,
or soon after, in this case the Stimulation is very great
either because of the quantity of Stimulus or the suscep-
tibility of the patient to the effect of Aromatic Spirits,
this case is complicated, for it consists of the directly
exciting effect of alcohol upon the brain, and the

= debilitating effect of suspended stimulation;
hence we have Common delirium tremens which is very
slightly modified combined with vascular congestion
and irritability of the brain.

The Countenance is of a dark purple, not bright red
tint as in Apoplexy, it is very apt to terminate in
Convulsions, or Coma may come on more slowly, and
the disorder pass on the Third Stage.

When the excitement is of an active inflammatory type
the delirium will assume the character of ordinary
meningitis and the symptoms of delirium merge into
it, or the symptoms of the disease may be predominant.
We must not confound this form of meningitis with true
meningitis or Cerebritis which may occur from an infe-
-ry of the head.

Writers generally divide the Second form
into three stages, this is styled True delirium tremens
by some and common by others most of them dis-
tinguish three stages, the first is called horror by
those who have experienced the sensation, the most
characteristic symptom is an expression of dismay
and anxiety upon the countenance of the patient, =

- This together with the tremor form the only characteristic symptoms of the disease, there are other pathognomonic characters though they are secondary. The patient is dejected, sad and irritable, he is harassed by unpleasant dreams, in the morning there is nausea, loss of appetite, occasionally cramps of Extremities the pulse is soft, slow often feeble and irregular, there is excessive perspiration from the slightest exertion, the Extremities are cold and clammy, trembling of the hands, and particularly of the tongue when protruded, the mind is unable to direct itself long to any particular subject, the complexion depends upon the previous habits of the patient, pale if he has not been long intemperate, but generally it retains the usual tint of the drunkard's countenance. "In this stage of the complaint, restlessness continues throughout the night, and of course the patient is unable to sleep; sometimes the sleeplessness is the first symptom of the disease, but in the majority of cases it attends the restlessness and is strictly proportioned to it.

The agitation may gradually subside and the patient

= recover, or the disease may pass into the next
stage" (Mecier's System Prac. Medicin.)

~~Part~~ Pathognomonic symptoms of the second stage are
very much like those of the first in an aggravated
form; the pulse is frequent and small, the
tongue is generally furred and moist, and profuse
perspirations are apt to break out, in consequence
of the great muscular exertion but the most dis-
tressing symptoms in this stage of the disease
are increased tremor, vigilance and restlessness.

Those horrible hallucinations which formerly harassed
him only during the night, and which he was
able to dispel by slight effort of courage are
now continually before him in the most appalling
forms that his imagination can depict.

The pupils are more contracted though not re-
markably so. Now in a mild case or a severe one
judiciously treated these symptoms gradually abate,
and the patient falls asleep which is essential to
recovery. Nature herself often shows us the treat-
ment we should adopt, that is quiet the ner-
vous disturbance and sleep will follow as a con-

6
-sequence. Often we have Cases merging into the
third Stage which is characterized by depression of
the vital powers, the coldness of Extremities gradually
diffusing itself over the Surface of the entire body;
the Pulse increases in frequency and the Sufferer
is detained in bed with difficulty, though he is
becoming feebler every moment, and is now bathed in
Perspiration, Pupils more contracted, it is with
difficulty that his attention can be attracted, grad-
ually growing colder Comatose and remaining so, some
time before death, or this Stage of the disease, may
terminate in violent Convulsions, and death.

Delirium Tremens is often found complicated with dis-
eases of the Viscera, of the Thorax and Abdomen, both
acute and Chronic, We most commonly have Thoracic
Complications as Pneumonia and Bronchitis in the
Winter; diarrhoea and dysentery in the Summer.

The direct Complications we may have at all times
such as cerebral Congestions, acute and Chronic gas-
tritis, and diseases of the liver, especially the fatty
or Whiskey liver. -

Anatomical Character

7

There are no regular Anatomical Lesions, some have found symptoms of inflammation and Congestion of the brain and its membranes, these are probably accidental; the most common lesion is Serum Effused in the Ventricles and under the Arachnoid; Again this may proceed from the impaired Condition of the Circulation and Respiration.

Doct. Percy has obtained Alcohol from the brain of a person who died from drinking, and from the brain of various Animals that died from the Effects of Poison.

These facts assist but little in Explaining the Phenomena of the disease. We must Class this disease among those functional Disorders of the nervous System, which have no Peculiar Anatomical lesion, until the farther Researches of Pathological Anatomy afford Reasons to think and determine otherwise.

The Diagnosis of delirium tremens is rendered difficult when it is impossible to ascertain the previous history of the Patient on account of his

own inability, or the unwillingness of his friends:

When it is complicated with inflammation of the brain the difficulty is very much increased

Now with regard to the treatment our first and great object is to produce sleep: How is this to be effected? Common sense tells us by quieting the irritation of the nervous system, for we have seen Delirium Tremens is a disorder of the Cerebral functions: The brain is in a state of debility and depression; the exciting cause of the condition which I have just mentioned is the deprivation of the accustomed stimuli: To put the brain in the proper condition for performing its functions is first to stimulate it, then as its normal state is being restored, we withdraw gradually the artificial support, and so by degrees conduct it safely to health and recovery:

It appears natural to us that as the disease was induced by the cessation of the use of Alcohol, the most rational mode of treating it would be to restore the accustomed stimulus, and such experience indeed has

shown to be the most certain and speedy
mode of Cure.

This treatment is strenuously advocated by Dr. Gerhard
, he treats his patients in the Philadelph.^a Hospital
by giving brandy in small doses, just enough
to quiet the patient. Patient then gradually
withdrawing the remedy as the necessity for
the Stimulus ceases.

This treatment has been objected to not from
its inefficiency but in regard to its morality
; they say that the drunkard knowing his
bane and Antidote to be one and the same
will value it more for its latter quality
and forgive ~~the~~ the former, this objection should
certainly be regarded, and as we have a
Remedy which is considered preferable by a
very large majority of the profession it undoubt-
edly should be resorted to at first, that is
if our moralists think there is no danger
of our patients becoming Opium-eaters.

Dr. Klapp of Philadelph.^a adopted the E-
metic treatment, he was induced to try

= This plan from observing that the disease
was apt to occur from the cessation of vo-
miting in the intemperate and that delirium
was relieved by vomiting: This treatment has
found a few supporters.

Dr. Keble's treatment was to confine his pa-
tient in a dark apartment, and let the
disease take its course leave it to Nature's
efforts, there are great objections to this
plan, which are apparent to the most careless
observer—.

I remarked previously that our object in this
treatment of the disease is to procure sleep
, and I said that to obtain this was to quiet
the nervous system; Now Opium has this hap-
-py effect, it should be administered in full
doses from two to three grains, but with
caution for we should be careful not to
narcotize the patient: It is often impossible
to retain the opium in the stomach;
Some of the other Preparations should be tried
Morphia is considered the best.

- Even this is sometimes rejected, or if retained does not seem to have the desired effect; then by administering the drug in the drink, to which the patient has been accustomed, we obtain our object.

In treating old and debilitated patients it is necessary to use the accustomed stimulus freely and also in cases assuming the typhoid form: The bowels should be kept open by a mild Cathartic and in the first stage when there is reason to think the stomach oppressed by its contents an Emetic may properly be given.

Delirium Tremens complicated with inflammation of the brain must be regarded with caution for we are between Scylla and Charybdis the safest plan is to deplete cautiously. The room should be dark and quiet for the sleep of the patient should be undisturbed.

Purges of Hops given with Opium will often be found beneficial, it supports the

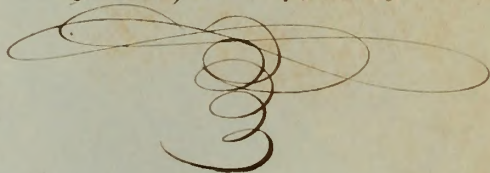
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System and admits the narcotic in inducing ¹²
Sleep. To quiet the tremors some of the
nervous Stimulants should be given, among
the best are Asafetida and oil of Valerian.
Determination of blood to the brain should be
treated by bloodletting and Cold applications to
the head, and by Purgatives.

Should there be Coma or Convulsions a blis-
ter must be applied to the Scalp and the
most diffusible Stimulants used, as Carbonate
of Ammonia, and a Stimulating Mennu
will be of advantage.

To say anything of the Prophylactic Treatmt.
is useless, good advice not being often re-
garded, perhaps the Patient had better be
referred to a Temperance Lecturer, who would
give him a longer dissertation on the Propy-
lactic, than I am disposed to do.

John, C. Gibson



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Ca

Dear Mother

I received your 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 sure you will be glad to hear from me again.

I am, dear Mother, your affectionate son,

John Doe

An Inaugural dissertation,
On the
Conditions requisite to the
production of Malaria;
and
its morbid operation upon
the Human economy.

Submitted
to the examination of the
Provost, Regents
and
Faculty of Physics,
of the
University of Maryland?

For the degree
of
Doctor of Medicine.

by George D. Mudd
of Mo

Dear Sir

I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply 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. B. [Name]

Secretary of the [Organization]

It is with no small degree
of diffidence that I now attempt
to write an essay upon a subject re-
-lative to, and connected with the
-wide and extended science of Me-
-dicine, and were I not acting in
obedience to a firmly established cus-
-tom - a custom universally and
-peremptorily enforced, by the schools of
-Medicine, upon all those, whose aspira-
-tions prompt them to seek admission
-among you, as a member of your profe-
-sion, before they are entitled to an
-examination, as to their qualifications,
-I should certainly and willingly, sh-
-rink from the task.

But, the time is now near
at hand, when, I am, no doubt, with
an anxious and oppressed mind, to resp-
-ond to the general call, that will be
-made, upon all those who are anxiously

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expecting, soon to terminate the period
 which they have allotted for their col-
 =legiate attendances, with a realization
 of their desires and anticipations, and
 it behoves me as one of those, not
 to be backward, preparatory to the orde-
 =al which is now before me; though
 I commence not without reluctance,
 knowing my inability to do justice to
 any subject relative to the great, the g-
 =reat science of Medicine.

I commence the task, the more re-
 =luctantly, and I consider it a task
 the more greatly, as I feel myself en-
 =tirely unable to compete with many
 of those acting now in my capacity,
 whose theses are now being, and have
 already been submitted to your perusal.
 Theses, the result of ingenuity, comprehen-
 =sion and talent, I fear, far beyond
 that which I can herein manifest.

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But the despondent and disconsolate feelings, that might otherwise possess me, are banished upon the pleasant reflection, that nothing novel, or interesting, will, or can, be expected from me, inexperienced and intellectually feeble, as I am, upon any subject relative to the science of medicine. Subjects, which, from an early period in the history of the world, have received the scrutinizing attention of the ablest men, that have ever contributed to the advancement of science, - subjects, which, in their ultimate analysis, have baffled the skill of the most profound, and still continue to afford many insurmountable obstacles, to the penetration of the deepest minds, and the the brightest and most scintillating genius.

And finally being consoled, under the plausible and ostentatious conviction, that my knowledge of medicine, and

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4

qualifications, to be admitted amongst
you, and by you, as a member of your
noble profession, will be tested, not so mu-
-uch by this piece of writing, as by my
conduct, when shortly, I shall appear
before you for an examination, I shall
proceed "equo animo"

That the human body during the
brief period of the manifestation of
its vitality, is continually surrounded
by many injurious influences, occult
and noxious agents, calculated to inter-
-rupt the healthy and regular perfor-
-mance of its functions, and thereby to ar-
-rest it in the further perpetuation of
its vital properties, is now one of the
best established truths, a truth dai-
-ly verified in the fact, that it is the te-
-endency of those morbid agents of the
material world, to a premature conse-
-quence of the human body to the grave.

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Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible.

3

that the physician in the humane pro-
-actice of his noble avocation, is called
upon to obviate.

In the times of antiquity, when fable
usurped the place of truth, and when
genius, when she was found, wander-
-ed in idleness over the gloomy fields
of oblivion, but little was known, or
but little notice taken of those, mult-
-ifarious and lethiferous agents, wh-
-ich tend to the destruction of man,
but, when better and brighter days
had come, when genius began to stir
-pate from the land ignorance and
barbarism, when the Medical profess-
-ion, which had been overwhelmed by
the dark clouds of obscurity, began to
make her beautiful appearance benea-
-th the lucid spots: - genius was no long-
-er allowed to waste her time in idleness,
The votaries of medicine conscious of the

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6

all important tasks they had to perform, pressed forward with the energy and vivacity, even characteristic of enthusiastic feelings, into the rich fields of science, and those great causes by which the disease is engendered in the human body, appear to have been among the first subjects that attracted their attention. They have never been neglected, they have received the attention which their importance demanded, and among the many early recognized causes of disease, Malaria has held, and still holds, an important station, on the Etiological list; and whatever may be the doubts of a few authors, as to whether Malaria produces any morbid or deleterious influence upon the animal economy, it is certainly regarded, and justly too, ^{almost unanimously by the medical profession} as one of the most fertile sources of disease to which we are exposed. It seems that no def-

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1
-inite ideas of Malaria, were entertained
-ed previous to the 16th century; the an-
-cients, however, were well aware of the
facts that certain forms of disease were
peculiarly prevalent in certain localities,
-as and districts, presenting a marshy
or fenny aspect; and that in regions where
those low and marshy lands were not
found, the inhabitants were comparativ-
-ely free from those forms of disease.

The Greek physicians have personified
it under the emblem of the many he-
-aded monster, whose devastating influ-
-ence was so severely exercised over the
luxuriant fields of Argolis, that it was
made one of the labours of the potent
son of Aemennus, to rid the country of
this dreadful source of pestilence.

But whatever notions the ancien-
-ts may have had concerning Miasmata,
it appears that their account given of th-
-em previous to the days of Lazzari were

8

imperfect and unsatisfactory; and it appears to have been reserved for this distinguished author to put forth distinct and definite ideas concerning malaria, who, about the year 1695, published and set forth into the world his ever memorable work entitled "De nosis paludum effluvis."

By this work the attention of physicians ~~was~~ ^{was} ardently directed to the subject, and from the time of its publication, up to the present day, physicians seem to have spared no pains, in the investigation of the nature and qualities of this peculiar poison, - they have in the height of enthusiasm analyzed the atmosphere of districts in which the virulence of the poison was strikingly manifested - they have analyzed over and over again the waters taken from the marshes of malarious districts: but the material of the poisonous effluvia, appears at all times to have

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9

entirely eluded their research, it has pro-
-ven too subtle for detection by any agen-
-ts as yet at the command of the physic-
-ian, or the Chemist, and consequently we
-remain, as yet in entire ignorance wi-
-th regard to its intimate nature. The
-Medical world even in the present ad-
-vanced state of science, know nothing
of its physical or Chemical properties;
and we are reluctantly, now, driven to the
conclusion, that we can recognize the
Miasm, only by its specific effects upon
the human economy.

It would seem, that it is not the cont-
amination of the atmosphere with
all kinds of impurities that constitu-
-tes Malaria, or to which the name
Malaria is applicable, but, to a spe-
-cific, poisonous effluvia, or eman-
-ation, arising from the surface
of the Earth, when acted upon by cert-
-ain agents of which it now devolves

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upon me to say a few words.

Heat has at all times been consid-
 ered as one of the conditions necessary
 for the development of the poison
 now under consideration, and th-
 at it is such, however we may explain
 the manner of its operation - we are
 justified in expressing our conviction
 from the observation of plain and ob-
 vious facts, and the observations, which
 have actuated us in assigning to Heat,
 a place in the Etiology of Malaria, are
 that those forms of disease, which
 are now (I might say) universally, cons-
 idered as the effects of Marsh Miasm, viz)
 Intermittent and Remittent Fevers, are
 more prevalent in warm than in col-
 der and more Northern climates; that
 those diseases are very rarely met with
 beyond 50th or 60th degree of North Lat-
 itude, and are never found beyond the
 Arctic Circle; that in our own clim-

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11

= at the effects of the Miasmata are
more strikingly manifested during
the seasons and months of the greatest
heat, beginning to show their ^{effects}, about the
latter part of August, and declining as
the season begins to grow cold, and
lastly, that in the farthest northern
Countries, that the poison is evolved,
it is principally, in the production
of Intermittents, that it manifests
itself, and as we start from hence,
and go south, we find Remittents pre-
=vailing, or the cases of Intermittents af-
=suming a more pernicious type, and
still farther South, we find the Fevers
assuming almost a continued form,
or a considerable degree of Malignancy,
these Fevers then seeming evidently, to
hold somewhat of a direct, relation to
the warmth of the seasons or of the di-
=fferent latitudes.

That moisture exerts an influence
 in the origin of Malaria, is perhaps
 as certain and obvious, as is the agen-
 cy of heat; it has indeed, been a mat-
 ter of common and popular obser-
 vation, even almost from time im-
 memorial, that moisture was in
 some way accessory to the origination
 of a poisonous ^{agent} influence, which produ-
 ced a deleterious influence on the in-
 habitants of those regions within the
 sphere of its action. The Ancients
 well knew the great danger incurred by
 the habitation of low and marshy
 districts, and as might have been before
 said they well knew the greater danger
 of those localities in certain seasons
 of the year than others, and those being
 the periods of the greatest warmth,
 but away from the observations of our
 Ancestors, it is obvious to all of the pre-
 sent day. We know that during many

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1

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seasons, when there are but few cases
of Intermittent, and Remittent Fevers.
Those, are almost exclusively confin-
ed to the inhabitants of low and m-
arshy districts, or to those who are wi-
thin the sphere of the action of the
poison evolved from those places.

We know that many places, which are,
almost uninhabitable, on account
of their unhealthyness, have been ren-
dered comparatively healthy, by drain-
ing and cultivation, such has been
the case with London, as, Mr Watson
tells us, when formerly. Fevers of a
Malarious origin were very prevalent,
James the 1st and 4th lived Cosmwell
both, dying of Intermittents contra-
cted there, but, is now peculiarly health-
y, a change attributable to nothing else
than an improved method in drain-
ing and Sewerage, of this no more.

Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side of the page.

Now it seems evident, that, heat and Moisture, are agents ministering to the production and evolution of Malaria, do they exert their agency by favouring the production, and growth, and subsequently the decomposition of vegetable matter? or do they operate, when other circumstances are favourable, in a manner we are not yet competent to explain, excluding the decomposition of vegetation?

It has been supposed, from the times that the attention of physicians was directed to the subject, by the writings of Laveissie, or from the time that ideas definite, were entertained with regard to the poison, that the humid decay of vegetable matter was the great cause of Malaria, and that Heat and Moisture were active agents principally, if not only, as

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contributing to this decomposition,
 but, it is but fair to presume, that
 to the universal, invocation of
 vegetable matter to explain the cause
 of Malarious disease, arose from its
 universal prevalence, and an inabi-
 lity upon the part of Medical men
 to give any other plausible expla-
 nation; but facts are yet wanting
 as appears to me to prove that vegeta-
 ble matter alone whilst undergo-
 ing decomposition, does give rise to
 Intermittent or Remittent Fever.

Whilst I would scorn the
 idea of advancing any new theory
 or supposition myself, upon such a
 subject as this, or any other subject rel-
 ative to Medicine, whilst I ex-
 press my sorrow in being constrained to
 dissent from an opinion now enter-
 tained by such a majority of the me-
 dical profession, by men of profi-

= and ability, by men whose talents
 it would be idle for me ever to hope
 to attain, and last, though, not least,
 by my preceptors in the "University
 of Maryland?" I am gratified, when
 I consider that it is one of the nob-
 = ble prerogatives of Man, ^{to express his beliefs.} and I flatter
 = myself, that I am honest, when I
 express my belief, in the origin and
 morbid influence of Malaria, indepe-
 = cendent of Vegetable decomposition,
 for it appears to me, that facts are
 now before the Medical profession,
 which, if coolly and candidly taken
 into consideration, must tend very
 materially, to subvert, the very preva-
 = lent opinion of the universal agency
 of vegetable matter in the production
 of Malaria, and to render it evident that
 Malaria has produced its most devas-
 = tating influence, when it could not
 by any means be ~~traced~~ referred to

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The decomposition of vegetable matter.

1st we have the decomposition of vegetable matter taking place in great abundance, without giving rise to disease. Dr. Watson tells us that the rotten Cabbage leaves of Covent garden, and those which taint the air, from the neglected dust holes of London, give rise to no Ague. It is said that in the West India sugar ships, the drainings of the sugar mixed with the bilge of the hold, create a horrid smell of vegetable putrefaction, without giving rise to any Malarious disease. Again it is a matter of common observation ~~with~~ in the western parts of our country, (with which the writer is familiar) that on those plantations where large crops of Hemp are raised, and where, by the dressing process, large quantities are continually lying and undec-

= going decomposition, there is no more ev=
 = idence of Malarious disease there, than
 elsewhere. Dr. Dauglison says, that
 the steeping of Lump has generally been
 considered as an unhealthy process, and
 so it is, says he, when the locality is Mala=
 = rious in which it is carried on, and that
 there are numerous examples to show that
 the process is not at all unhealthy where
 Malaria does not previously prevail.

The same Author again says, that reg=
 = etable decomposition has been more
 commonly invoked, in as much as, reg=
 = etable matter is almost every where to
 be met with, but the evidence in favour
 of it, is to him becoming ~~to him~~ every
 day, more and more unsatisfactory.

But the converse of those facts which
 have been stated are the most remar=
 = table and conclusive. Dr. Watson
 says in the year 1794, the British army, ^{in Holland.}
 encamped in a land, the soil of which

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was a level plain of sand, for a great ex-
 -tent of country, when no vegetable ma-
 -tter existed, or could possibly exist; but
 a few stunted Heath plants, here Int-
 -ermitted, never exercised a most de-
 -astating influence over the troops, It
 has been objected to this, that by an in-
 -undation of the land vegetable matter
 in abundance, might have been ming-
 -led with the sand, and there undergo-
 -ing decomposition, but, here it is only ne-
 -cessary to say, that the sand was within
 a few inches of its surface, universally
 percolated with water, which, so far from
 exhibiting any signs of putrefaction, was
 perfectly clear and potable. It might
 again be said, that the poison was gen-
 -erated by the vegetation surrounding
 the sandy desert, and migrated to the
 interior, but, this is contrary to one of the
 ascertained peculiarities of the poison,
 for, it very clearly demonstrated that Mal-

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=aria has a pretty strong affinity for the foliage of trees and shrubbery, and consequently, we suppose, that it would have been departing, in the case supposed, from this ordinary peculiarity.

Dr. Watson again tells us, that the soil in the Island of Malcherung is very similar to the above described, consisting principally of sand, and about one third of clay, here the British army, after a hot and dry summer, suffered to an extent which Dr. Ferguson tells us was unprecedented in the annals of warfare.

Dr. Watson again says in the year 1807, several regiments of the British Army, took up an encampment in a vast hilly ravine, which, had lately been a water course, pools of water still remained among the rocks, so pure that the Soldiers were anxious to bivouac near them for the purpose

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of using the water. Many of them were seized with Remitting Fever before they could remove from the bivouac the next morning. Dr. Ferguson tells us, till then, it had always been believed that vegetable decomposition ~~was~~ ^{was} essential to the production of Malarious poison, but in the instance of the half dried ravine before us, from the stony bed of which, the very existence of vegetation was impossible, it proved as pestiferous as the bed of a fen. and lastly Dr. Watson tells us, that the river Tagus is at Lisbon, about two miles wide, and separates a healthy, from an unhealthy region. On the one side is a bare hilly country; the foundation of the soil, and the beds of streams being rock, with free open water-courses among the hills, and on this side it is healthy; but the Alentejo land on the other side

though as dry superficially, being perfectly flat and sandy, is most pestiferous.

Moreover, in and near Lisbon, there are numerous gardens, where they keep water during the three months, absolute drought of the summer season, in stone reservoirs: These reservoirs containing water in the most concentrated state of foulness and putridity, are placed close to the houses and sleeping rooms the inhabitants literally live and breathe in their atmosphere. yet no one ever heard, or dreamt, of fever being generated amongst them from such a source.

It is a very common thing for physicians, when called upon to give the reason, why, a certain family are more unhealthy, than their neighbours, or those living in the same district of country, to attribute it to some Mill-pond, to some pile of decomposing vegeta-

[The page contains approximately 25 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and difficult to decipher.]

-table Matter, or to some hole or vat, in
 which decomposition may be going on,
 and, it is generally an easy matter for
 them to find some such a place,
 either real, or imaginary, in the vicini-
 -ity of almost every dwelling, by which
 they can satisfy the family of the ca-
 -use of their illness, and put them to
 work to get rid of the offending ma-
 -ter, and in all probability, by the time
 they have succeeded in so doing, the pe-
 -ison has either ceased to be evolved, or
 has worked its way through the systems
 of the persons affected, and they recovering
 their health, feel convinced that they ha-
 -ve got rid of, the cause of, their disease,
 Now one such a case as this, well marked,
 would no doubt, cause a great many per-
 -sons to adhere with great tenacity, to the
 opinion that Malarious diseases ^{are} ~~is~~ caused
 by vegetable decomposition, and such ca-
 -ses as this have we believe frequently happened.

Tell Mr. [unclear] that I have been thinking
 of writing you some time ago but have been
 so busy that I could not find time to do so
 I am now at home and I shall be glad to
 hear from you if you have any news
 I am well and hope these few lines
 will find you the same
 I am your affectionate friend
 [unclear]

but an occurrence is now void in my recollection, which, shew to me the fallacy of many of these cases, and first cause me to ~~do~~ entertain doubts, of the agency of vegetable putrefaction, in the production of Malaria.

Case. A family of my acquaintance was attacked early in the fall, or the latter part of Summer, with many cases of Intermittent fever, and some cases of Remittent, the unhealthy season having not yet hardly arrived, it devolved upon the attending physician, to give his opinion as to the cause of their early sickness, in his enquiries he perceived, that there was a Distillery in operation in the vicinity of the dwelling, and that one of the vats was lying out of use, and the water therein showing some degree of putrefaction, his enquiry went no farther, he had here found a sufficient cause to account for all their

The first part of the paper is devoted to a
general statement of the facts of the case
and to a statement of the principles of law
which apply to it. The second part is
devoted to a discussion of the facts of the
case and to a statement of the principles of
law which apply to it. The third part is
devoted to a discussion of the facts of the
case and to a statement of the principles of
law which apply to it. The fourth part is
devoted to a discussion of the facts of the
case and to a statement of the principles of
law which apply to it. The fifth part is
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case and to a statement of the principles of
law which apply to it. The sixth part is
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law which apply to it. The seventh part is
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case and to a statement of the principles of
law which apply to it. The eighth part is
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case and to a statement of the principles of
law which apply to it. The ninth part is
devoted to a discussion of the facts of the
case and to a statement of the principles of
law which apply to it. The tenth part is
devoted to a discussion of the facts of the
case and to a statement of the principles of
law which apply to it.

cases of sickness, but as the season advanced a little farther, Ague and Fever, and also Remitting Fever became very prevalent, throughout the whole neighbourhood, and no rats, or holes of water, in which decomposition was going on, could be found near every dwelling, sufficient to account for the disease. But the Distillery which I have mentioned was shortly after suspended in operation, and all the rats and wells were partly filled with water, in a very concentrated state of foulness and putridity, but the inhabitants of the dwelling in the vicinity were afterwards proverbially healthy.

Dr. Ferguson whose ability cannot be doubted or questioned, who has undoubtedly taken more pains, ^{in his enquiries into,} and who has more minutely observed the circumstances under which Malaria is

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evolved, and whose authority is consequent-
ly greater upon this subject than that
of any other man, especially says,
that in the most unhealthy parts of Spai-
ne we may in vain towards the close
of summer, look for Lakes, marshes,
ditches, pools, or even vegetation.

Now it is but natural to infer, that if
in the cases mentioned by Dr. Fergu-
son and Dr. Watson, of the encampment of
the British army in Holland, in the
Island of Walcheren, and in the
hilly ravines, where no vegetable ma-
tter could be seen for a great extent
of country, where no decomposition of
matter of any kind was evident to their
senses, or could ⁱⁿ any way be made ma-
nifest; the troops suffered so severely
by ^{from} malarious diseases; in those
regions where vegetable matter in great
^{quantities} is present, and where its decomposition
is manifest to our senses the inhabi-

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= ants should suffer far more serious
 = ly, I. E. if we suppose ^{Malaria} to be the
 product of vegetable decomposition.
 Or in other words, if Malarious disea-
 = ses did arise in such great abund-
 = ance, as a consequence of vegetable
 decomposition, in places, where, no
 evidence whatever of this decompo-
 = sition was manifest, or where there
 was no vegetation to become decom-
 = posed, then I say it ought to follow
 as a consequence, and I think ^{it} will
 be allowed by every one, who serious-
 = ly looks into the matter, that in
 those places where vegetable matter
 is present in abundance, and its
 decomposition is manifested in every
 way possible, and especially by its
 putrid smell, we should have those
 diseases in greater abundance, or dis-
 = playing a more pernicious or ma-

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above mentioned matter. I have the pleasure to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Yours obedient servant,
 J. M. [Name]

= signant ^{aspect} in their character; and if the
 = one diseases were in any sort of propo-
 = rtion to the evidences of vegetable
 putrefaction, which, there were in
 the cases mentioned by Dr Ferguson,
 and that which we have in almost
 every section of country, the human
 family would certainly be destroyed
 by the violence of disease.

Many more facts which ren-
 = der it doubtful of the universal agen-
 = cy of the decomposition of vegetable
 matter, in the production of Malaria, ^{might be mentioned}
 but it is not consistent with the
 time, which I have allotted for
 the writings of these lines, ^{nor do I deem it necessary} for it ap-
 = pears to me that the facts stated by
 Dr Ferguson, and Dr Watson, several
 of which I have herein mentioned,
 stand unanswer'd.

Now it has been said that the facts

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mentioned by ^{Dr} J. Ferguson, and
 Watson, as the result of their observa-
 -ion, are insufficient to stand again-
 -st the conflicting opinion of such
 an overwhelming majority of Medical
 men; but facts are facts, wherever
 found and in whatever manner col-
 -lected, and facts advanced from exp-
 -eriment and observation must alw-
 -ays stand invulnerable against spe-
 -culation and hypothesis. Theory it
 is true when plausible and injurious,
 is powerful, and has done a great deal,
 but fortunately for science, and the
 Medical Science in particular, she
 can never advance one step, when fac-
 -ts stand opposed to her.

Of the many peculiarities of Ma-
 laria, such as its being moveable
 by the wind; losing its noxious

I have the honor to acknowledge the receipt of your letter of the 20th inst. in relation to the matter of the ...
 and in reply 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. ...

properties by passing over the sur-
 = face of water: its attraction by
 the foliage of large and multi-
 = liferous trees: its evolution, and
 consequently its morbid operation
 being lessened by tillage and cul-
 = tivation: its greater range during
 the night than at any other time.
 I can say but little. All these pro-
 = perties of the poison appear to be
 pretty well established by the resu-
 = lt of experience and observation.

The fact of Malaria ceasing to
 be produced or its effects being
 rendered less apparent by Cultiva-
 = tion has been brought forward as ten-
 = ding to establish the fact that it
 is produced by the decomposition
 of vegetable matter, the cultivation
 being supposed to destroy to a con-

= siderable degree the previously existing
 vegetation; but we presume it is
 far from being established that
 cultivation does lessen the existence
 of vegetation, on the contrary there
 can be no doubt that it very frequ-
 =ently increases very materially its pro-
 =duction, and also its subsequent dec-
 =omposition: and certainly this cult-
 =ivation of the land, according to our
 view with regard to the production
 of Malaria, might lessen its produc-
 =tion, by altering the texture of the
 soil, and changing that condition
 of the surface of the land, under
 which the agents of Heat and
 Moisture so successfully exert their ag-
 =ency in the production of the po-
 =ison.

That the morbid operations of Malaria
 upon the human body, is greater during

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The night there at any other time, ap-
 -pears to have been long since observed,
 and is now well established by obser-
 -vation. Whether Malaria is more
 copiously evolved during the night,
 whether it becomes more poisonous and
 concentrated during that time, or whe-
 -ther the body is in a condition more
 susceptible to its influence during
 the hours of sleep, it is not so easy
 to determine, but it seems probable,
 that as the aqueous vapour of the
 atmosphere becomes concentrated and
 deposited on the surface of the gr-
 -ound in the form of dew, by the ra-
 -diation of heat from the Earth,
 Malaria may in obedience to its
 affinity for water and aqueous va-
 -pours tend toward the ground, and
 become more concentrated, and con-
 sequently act with more violence

The night before last I was
 informed that the
 and now all is settled
 and the matter is
 going off well and
 I shall be home
 tomorrow evening
 and the day is
 a little to its
 the time of day
 to determine but
 that as the
 the
 appointed in the
 and in the
 matter of the
 which may be
 finally in
 good time
 been more
 gently out

upon the human system.

This fact of the more virulent operation of Malaria during the night, has been brought forward by Mr. Rocha, and supposed by him, to be a sufficient cause, ^{to account for} of the periodicity of those diseases to which it gives rise. He ingeniously argued that fever could not assume an intermittent type, without the cause was of the same periodical character, and that the accession of the paroxysms was repeated, by virtue of ^{a tendency of} our organs to reproduce certain acts which had once taken place, even when the cause primarily provoking them no longer continued to operate.

Although the more virulent operation of the poison, during the night, might appear somewhat reasonable, in accounting for the quotidian type

of Fever, supposing the patient to remain constantly exposed to the operation of the Miasm, yet we know that persons may be exposed to the poison but a very short time, only long enough to experience one paroxysm, and removing immediately to a district which is proverbially healthy, will still continue to experience a regular recurrence of the paroxysms.

Mr Roche says, that the paroxysms are continued by virtue of a tendency of our organs to continue certain acts, which are once set up in the system, or in other words, that they are continued by the force of habit, but this habit must certainly be first set up, before it can continue, and granting that habit has an influence, which no doubt it has, we still want some explanation of the occurrence

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of the second and third fits, after cer-
tain determinate periods, to give a
commencement to the habit.

This theory is perhaps less plausible than
Cullen's, who attributed the regular re-
currence of the paroxysms, to a diu-
-nal revolution, to the periodical mo-
-vements of the animal economy; this
again might with plausibility account
for the quotidian type; but it certai-
-nly can give us no explanation of the
Tertian, Quartan, and other types, beca-
-use we know of no biurnal or two
day habit of the human economy,
we know of no two or three day re-
-volution. Theory then in the pres-
-ent state of our knowledge, cannot
explain the cause of the periodicity
of Malarious diseases, many of them
are ingenious and imposing, many have
arisen and fallen again, in rapid success-

[The page contains approximately 20 lines of extremely faint, illegible handwriting in cursive script. The text is mirrored across the page, suggesting bleed-through from the reverse side. No specific words or phrases can be discerned.]

tion. This is one among the many subjects
 in the medical sciences, upon which
 speculation and hypothesis has long
 since been busy, but as yet we know
 too little about the mysterious operation
 of one of the nervous system; although the
 nervous element no doubt plays an im-
 portant part in the pathology of those
 diseases, a link is wanting in the chain
 which herein leads from cause to ef-
 fect, and the human mind will prob-
 ably ever remain unable to accom-
 plish its union.

Apart from theory and speculation
 the medical profession as I may
 say unanimous, in recognizing Ma-
 laria as the principal or perhaps
 the sole exciting cause of Inter-
 mittent and Remittent Fevers, and
 as such it no doubt stands preem-
 inent in these latitudes, and in

The first part of the paper is devoted to a general
 consideration of the subject, and to a statement of the
 objects which it has in view. It is then divided into
 three parts, the first of which is a description of the
 nature and extent of the disease, and the second of
 which is a description of the symptoms which attend
 it. The third part is a description of the treatment
 which is to be pursued in the different stages of the
 disease, and is the most important part of the paper.
 The author has endeavored to give a full and
 accurate description of the disease, and to point
 out the most effectual means of curing it. He has
 also given a list of the remedies which he has
 used with success, and which he recommends to
 the reader. The paper is written in a plain and
 simple style, and is intended for the use of
 the general reader. It is a valuable work, and
 one which every person who is afflicted with
 the disease should read.

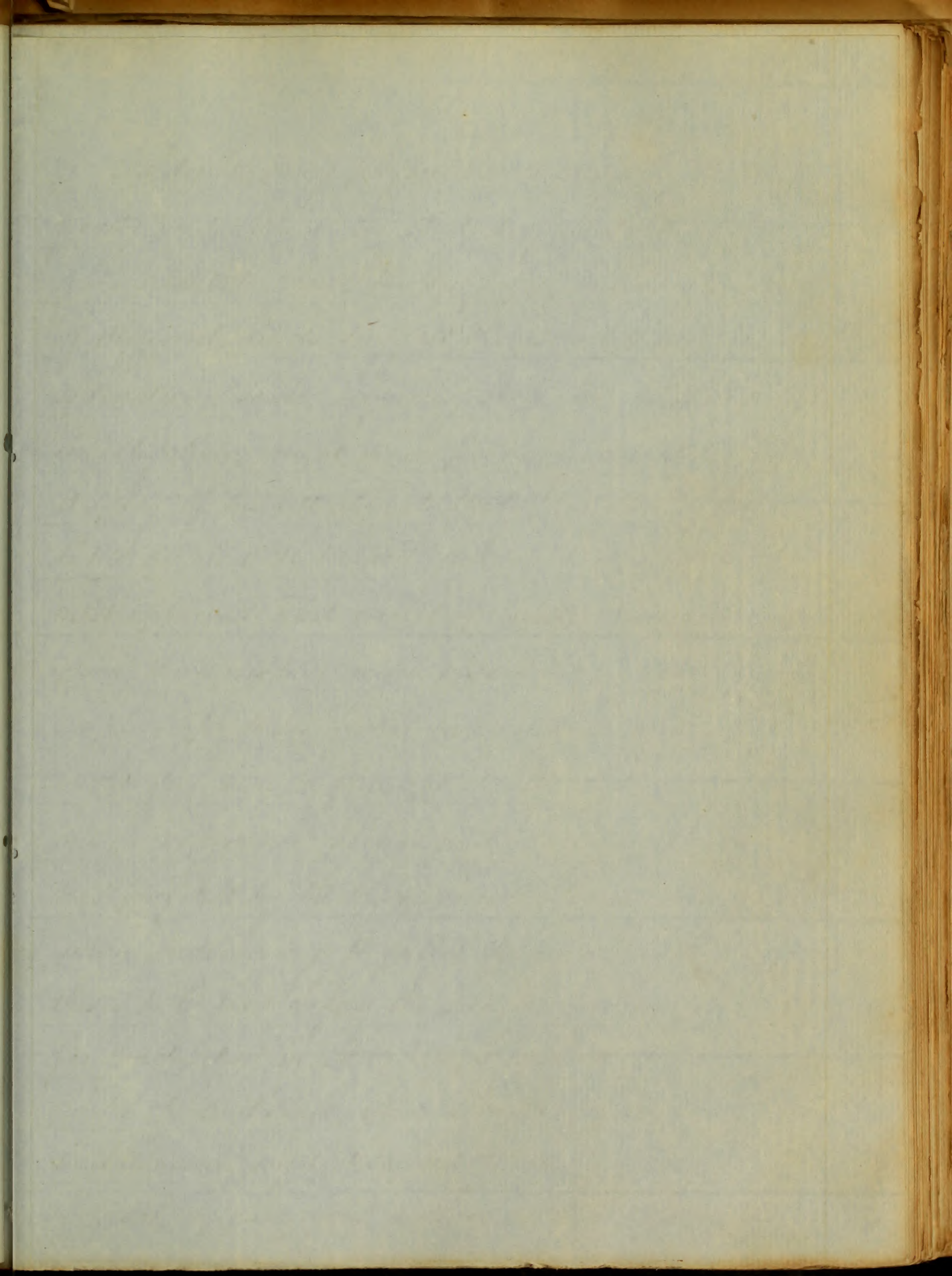
our own climate, our our etiological list, and perhaps more than any other one cause ministers to the production of human misery and affliction. It has been suggested by Dr McCulloch that Hemiorania, Tridolores, and many other neuralgic ~~affections~~ affections, which generally assume an intermittent or periodical character, may be caused by this poison, and indeed judging from the circumstances connected with their occurrence, their being most frequently amenable to the same remedial agents, that are Intermitent fevers, there appears to be nothing absurd in such a supposition, but as I have gone to a much greater length than I had anticipated in writing these lines, I can say nothing upon this Subject in this place. I must now conclude

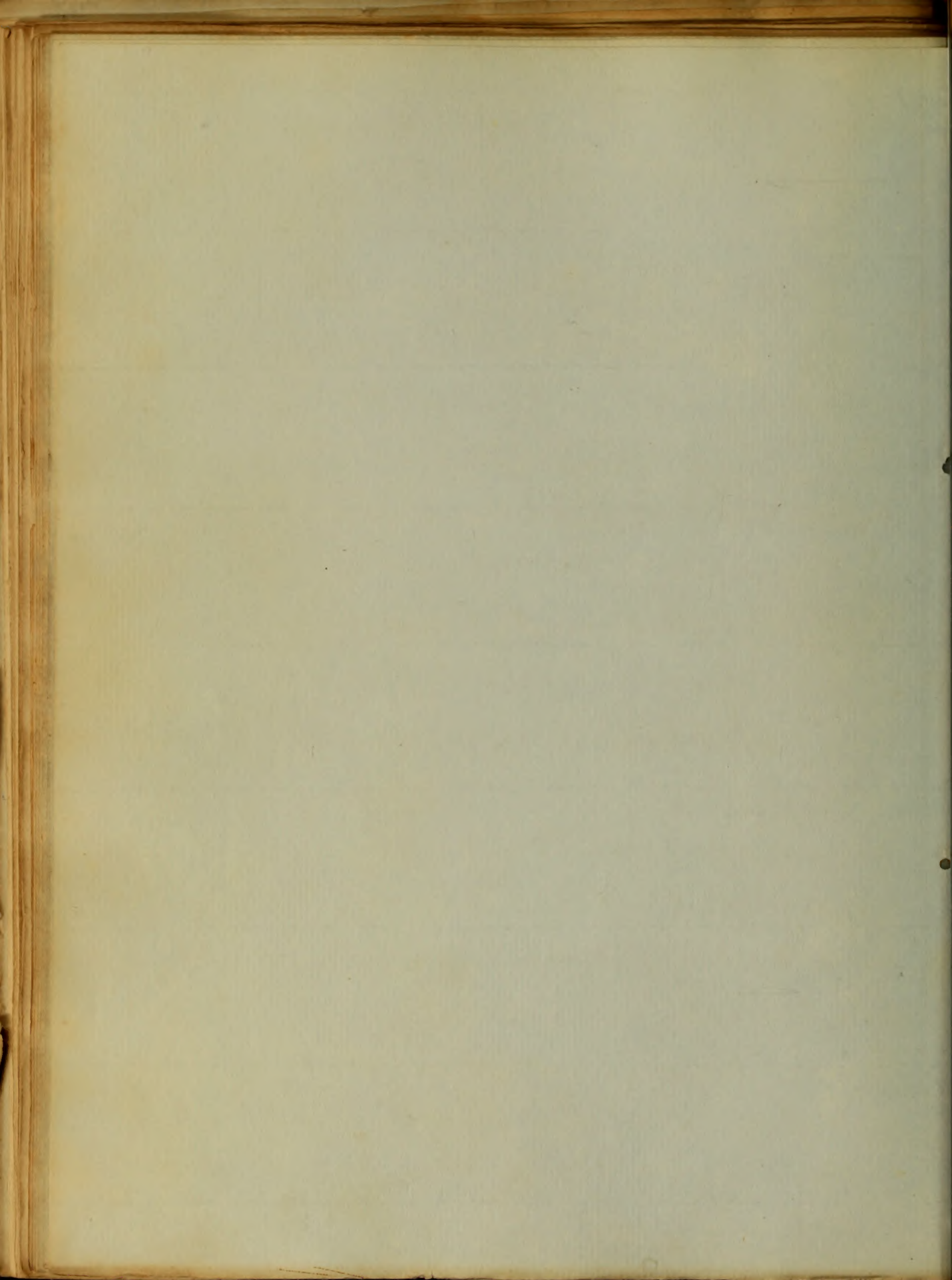
The first part of the paper is devoted to a
 description of the various species of plants
 which are found in the neighbourhood of
 the station. The second part is devoted to
 a description of the various species of
 animals which are found in the
 neighbourhood of the station. The third
 part is devoted to a description of the
 various species of insects which are
 found in the neighbourhood of the
 station. The fourth part is devoted to
 a description of the various species of
 birds which are found in the
 neighbourhood of the station. The fifth
 part is devoted to a description of the
 various species of fishes which are
 found in the neighbourhood of the
 station. The sixth part is devoted to
 a description of the various species of
 reptiles which are found in the
 neighbourhood of the station. The seventh
 part is devoted to a description of the
 various species of amphibians which are
 found in the neighbourhood of the
 station. The eighth part is devoted to
 a description of the various species of
 mammals which are found in the
 neighbourhood of the station. The ninth
 part is devoted to a description of the
 various species of birds which are
 found in the neighbourhood of the
 station. The tenth part is devoted to
 a description of the various species of
 fishes which are found in the
 neighbourhood of the station. The eleventh
 part is devoted to a description of the
 various species of reptiles which are
 found in the neighbourhood of the
 station. The twelfth part is devoted to
 a description of the various species of
 amphibians which are found in the
 neighbourhood of the station. The thirteenth
 part is devoted to a description of the
 various species of mammals which are
 found in the neighbourhood of the
 station. The fourteenth part is devoted to
 a description of the various species of
 birds which are found in the
 neighbourhood of the station. The fifteenth
 part is devoted to a description of the
 various species of fishes which are
 found in the neighbourhood of the
 station. The sixteenth part is devoted to
 a description of the various species of
 reptiles which are found in the
 neighbourhood of the station. The seventeenth
 part is devoted to a description of the
 various species of amphibians which are
 found in the neighbourhood of the
 station. The eighteenth part is devoted to
 a description of the various species of
 mammals which are found in the
 neighbourhood of the station. The nineteenth
 part is devoted to a description of the
 various species of birds which are
 found in the neighbourhood of the
 station. The twentieth part is devoted to
 a description of the various species of
 fishes which are found in the
 neighbourhood of the station.

These disconnected and desultory remarks
 = ks. If they should appear preposterous
 =ous to you, as Dilettantes, and no doubt
 they will, I must respond with sub-
 =mission to the consequences: my pro-
 =optical lines have already been written:
 the time for a rejoinder to your ad-
 =verse conclusions has already passed
 by: and I shall now approach ~~them~~
 with anxious anticipation of a happy
 result, the final day, the day when
 it will be determined whether I
 am in a condition to pass forward
 on that eventful stage, on which the
 physician must walk, without endan-
 -gering the life of my fellow being, over
 which the practitioner of medicine ho-
 lds such a controll.

An
Inaugural Dissertation
on
Asthma,
Submitted to the examination
of the
Provost, Regents and Faculty of Physic,
of the
University of Maryland
for the
Degree of Doctor of Medicine,
by
Arthur S. Rich
of Baltimore.

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1

No doubt, every physician is aware of the difficulty, under which the student of Medicine labors, when about to choose the subject of his Thesis. Many of different kinds suggest themselves to his consideration; some, requiring deep research and minute investigation, might seem peculiarly adapted for a display of his attention to study, his stores of knowledge or his well trained judgment in selecting the most approved and correct opinions; others, concerning which there has been much speculation, might afford ample scope to his fertile imagination; while others might give him a fine opportunity of showing how much experience he has had and how much he has profited by that experience. For my own part, while endeavoring to fulfil the requirement for a thesis to be laid before the Faculty by every candidate for graduation in Medicine, I wish to devote a few pages to a disease, whose symptoms have long been well known and described through a long chain of years, by numerous authors, with but little difference;

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2
a disease painful, indeed, and truly harassing to
the patient, as well as requiring the greatest skill
of the physician effectually to remove it — I
refer to Asthma. This is not a very common disease;
but it is peculiarly interesting from the degree of
bodily suffering and anxiety experienced by its
victims; from its often attacking persons otherwise
or at other times apparently healthy, from its occur-
ring in paroxysms as well as from the old age to
which many attain who have been most of their days
subject to its dreadful torments.

It was known to the earliest practitioners of medicine,
and we find a portion of the writings of almost
all medical authors, from the days of old Hip-
pocrates down to our own times, allotted to the
description of its symptoms; the discussion of
its most probable causes, and the best modes of
treatment. It derives its name from the Greek
word *ασμα* or more probably from *ασπναια*, I gasp for
breath, and may be defined extreme difficulty of
breathing, coming on in paroxysms, but generally

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entirely unattended with fever. From its derivation we may judge that this name was formerly applied to all cases of laborious respiration, and it appears from the descriptions and definitions of the older authors—such as Willis, Hoffman and others, that this was adopted as the name of a certain class of diseases; but they divided them afterwards according to the different causes which gave rise in their opinions to the same effect, difficulty of breathing. It is however at present only applied by the best physicians to the spasmodic form; but many persons laboring under disease of the respiratory organs and troubled with dyspnea will tell you they are asthmatic; considering Asthma a distressing but by no means a dangerous affection.

The medical writers who have described this disease, have said almost the same things of its symptoms, whether they wrote in times long past or during the present century; nor can we find any important general symptom left out or

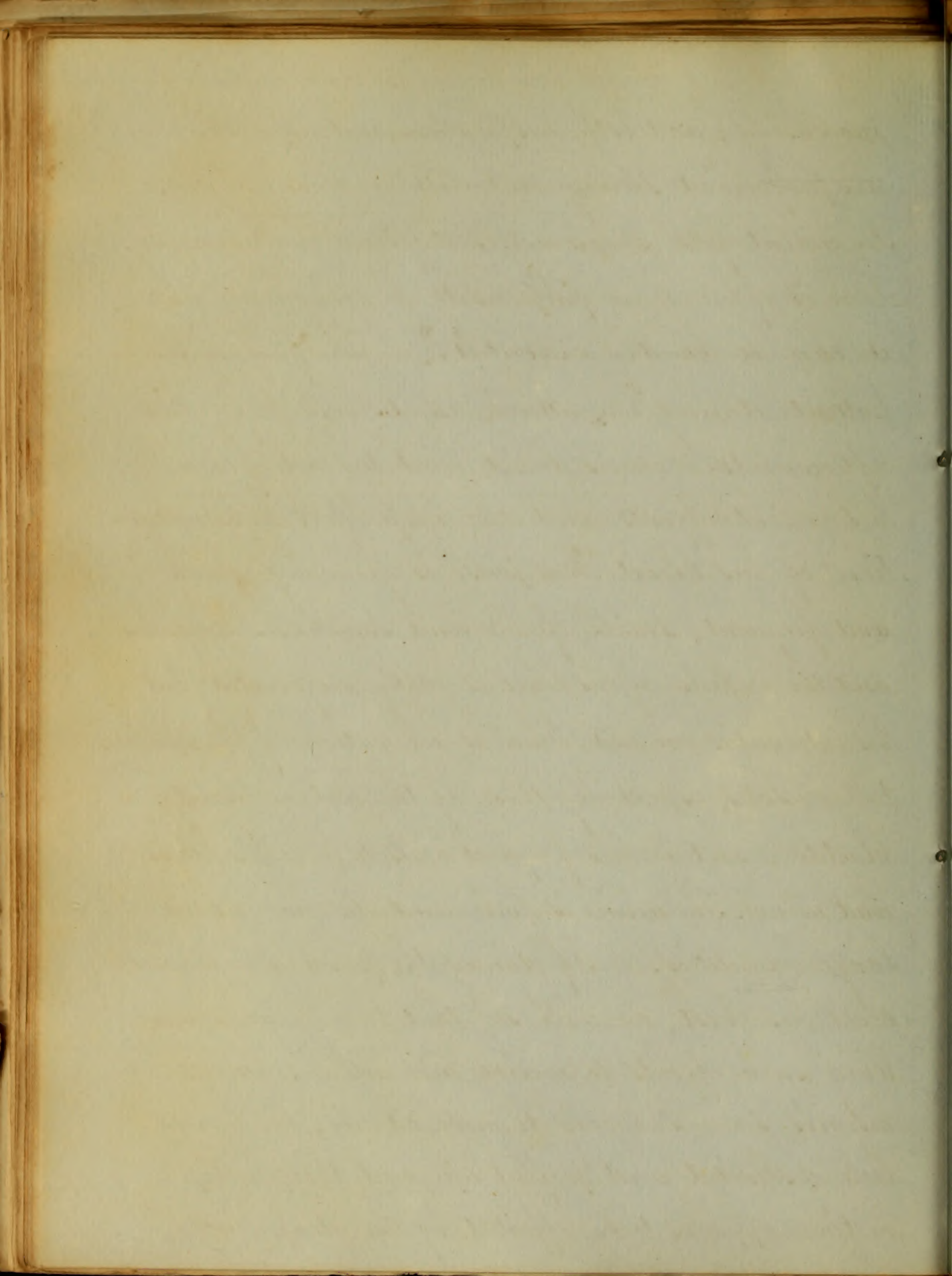
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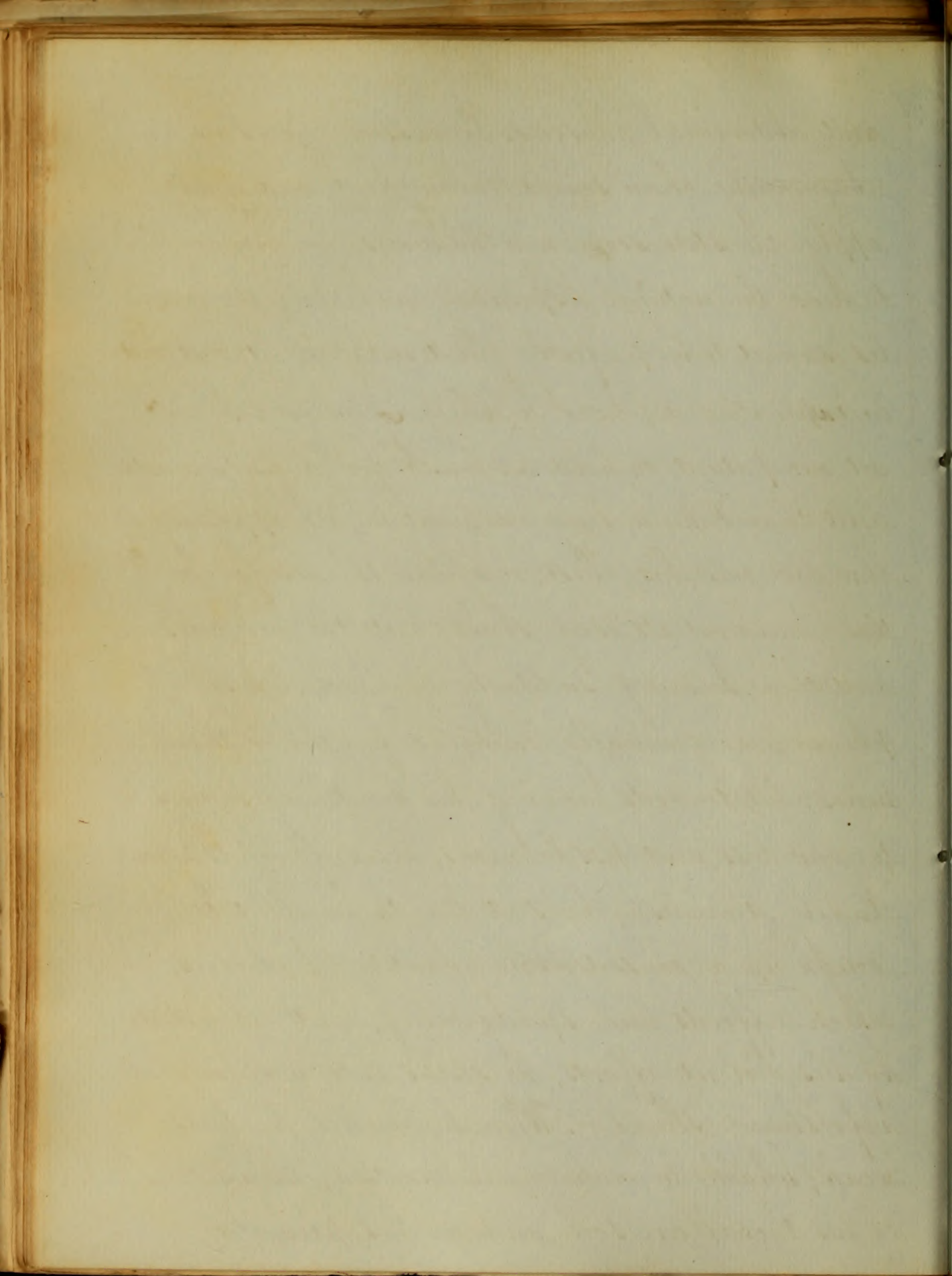
improperly stated even in the earliest treatises. As there has been such an agreement and as I know my own observation can add nothing on this score, I respectfully beg leave to copy the description of the phenomena of a paroxysm from the writings of Cullen, who has been so justly acknowledged a most accurate observer of diseases, and a most correct delineator of their symptoms. In his "first lines on the practice of Physic", paragraph thirteen hundred and seventy six, he thus writes; "The attacks of this disease are generally in the night time or towards the approach of night, but there are also some instances of their coming on in the course of the day. At whatever time they come on it is for the most part suddenly with a sense of stricture and tightness across the breast and a sense of straitness in the lungs impeding inspiration. The person thus attacked, if in a horizontal situation, is immediately obliged to get into somewhat of an erect posture and requires a free and cool air. The difficulty of breathing goes on for some time

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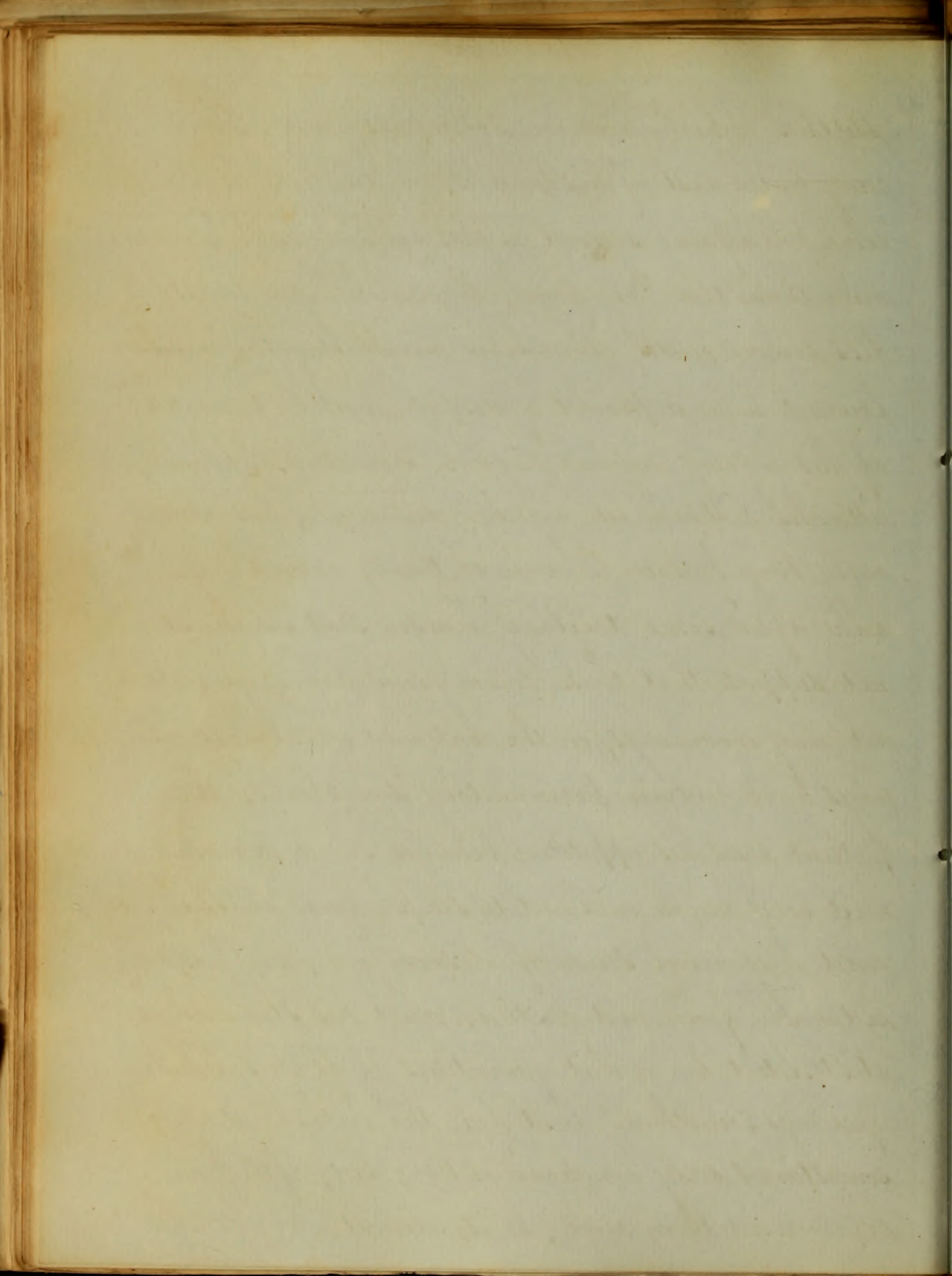
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increasing; and both inspiration and expiration
are performed slowly and with a wheezing noise.
In violent fits speaking is difficult and uneasy.
There is often some propensity to coughing but
it can be hardly executed." The face of the
patient during an attack is at first pale but
afterwards becomes livid and turgid from
his violent efforts and the imperfect arterializa-
tion of his blood. His pulse is generally quick
and frequent, small, feeble, and sometimes irregular,
and the impulse of his heart is greatly augmented, but
his extremities are cold. There is relaxation of the sphinc-
ter muscles, especially those of the rectum and
bladder, and he has frequent calls to pass his faeces
and urine. The urine is pale and discharged in
large quantities. If during the paroxysm we un-
cover his chest, we will see that though he is ma-
king such efforts to receive air into his lungs,
his ribs seem scarcely to move at all; his lungs
look distended and puffed up and the principal
motion appears to be effected by the diaphragm



and abdominal muscles. Percussion gives us an abnormally clear sound throughout, and if we apply the stethoscope over the lungs, we are unable to hear the natural respiratory murmur; the vesicles seemed to be perfectly filled with air at rest, but in ~~inspiration~~ we hear a ^{sibilant or} wheezing noise. If we get our patient to hold his breath for a few seconds and then take a long inspiration, by applying our ear over his chest, we hear the air for a time making its way slowly into the air cells and then seeming suddenly checked. These phenomena generally continue for two or three hours; but towards morning his breathing begins to grow less and less laborious, his sufferings gradually diminish, he is at length enabled to cough up a considerable quantity of mucus, which affords him speedy relief, and exhausted by his violent efforts, he sinks into a calm and refreshing slumber. When he awakes, he feels weak, unable to make much exertion, the muscles of his thorax are sore and he has pleuritic

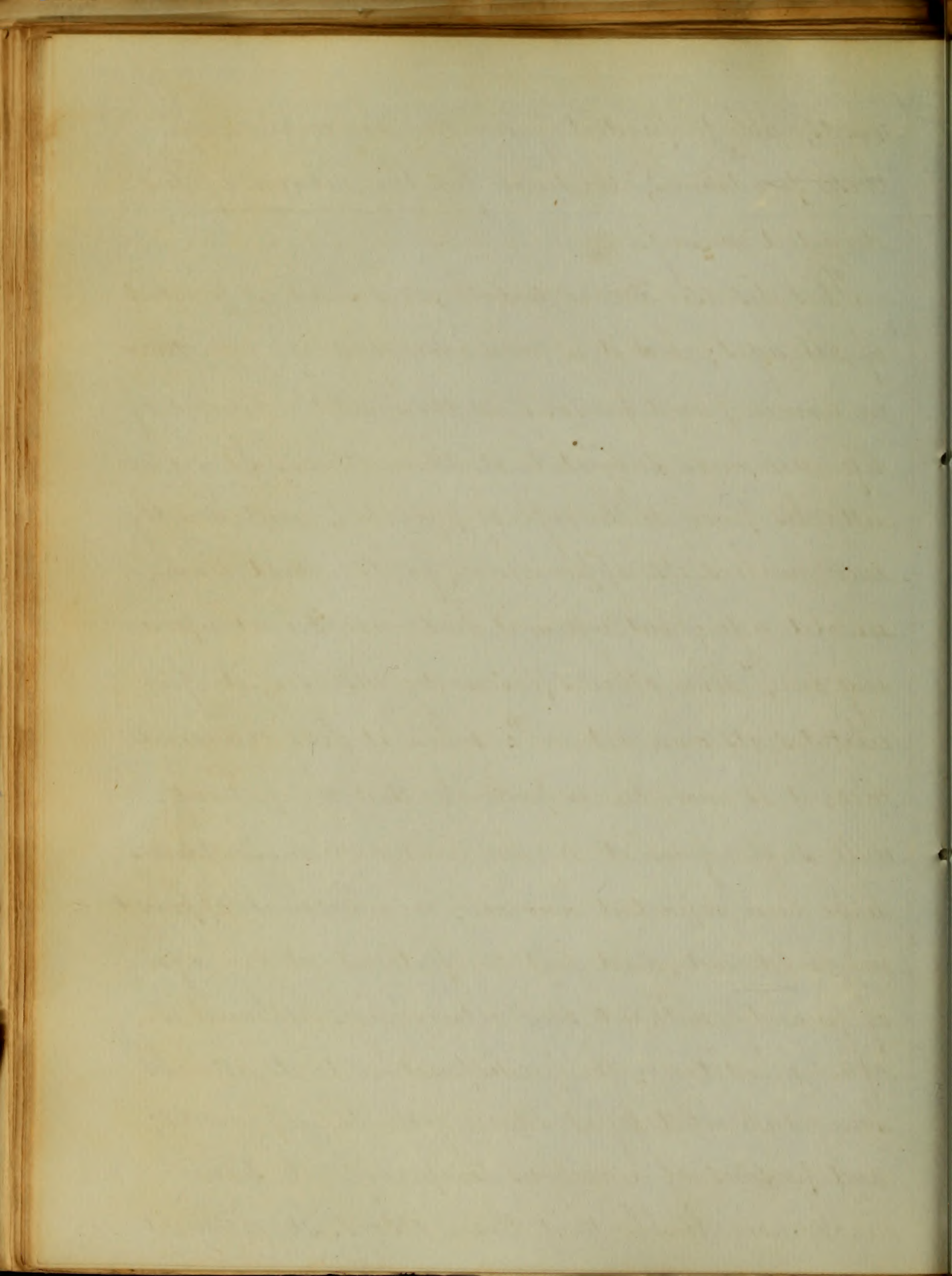


stitches which however soon pass away. These
may be the last of his troubles, or the fits may
come on again several nights in succession, rarely
more than three or four, becoming gradually
less severe until they leave him altogether; al-
lowing him a period of respite until the hour
of his agony again arrives. Sometimes these
attacks happen at regular intervals, but gene-
rally they follow no rule of time, occurring
only after some trifling cause. But we must
not suppose that these paroxysms come on with-
out any warnings, on the contrary we almost al-
ways have certain premonitory symptoms; the
patient loses his appetite; becomes silent, morose
and very much inclined to sleep; feels chilly
and a general sense of discomfort; suffers con-
siderably from indigestion, and his stomach is
distended by great quantities of flatus. These
feelings sometimes last for two or three days;
sometimes only an hour or two; but, after having
experienced them once, he is almost always after-



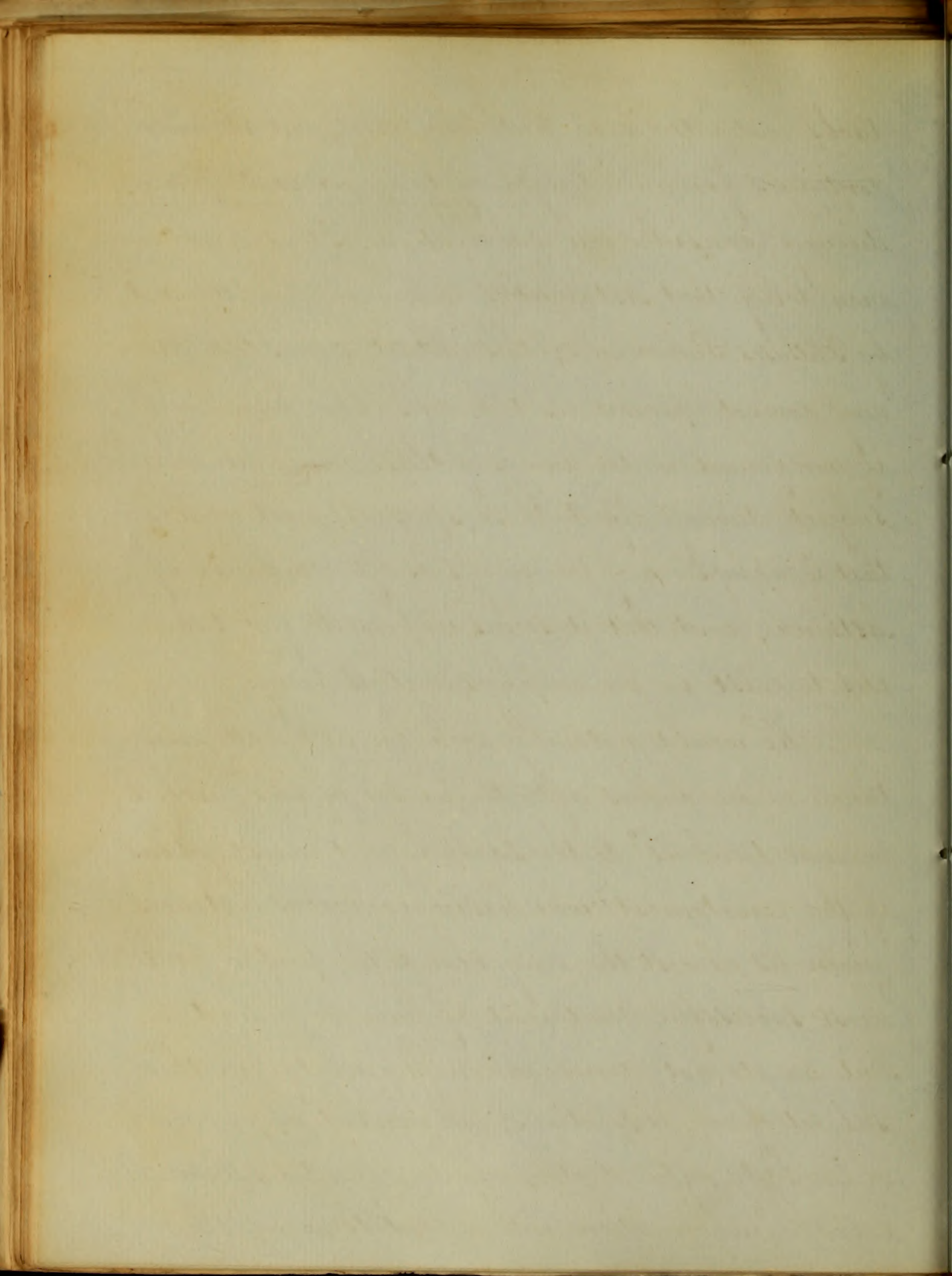
wards, able to predict from the occurrence of these prodromes, the time for the return of his dreaded enemy.

This disease occurs to both sexes and in persons of all ages; but it is more common in men than in women, and persons in the middle period of life are more subject to it than others. It seldom attacks prior to the age of puberty; and hardly ever makes its appearance, for the first time, in old age; but when it has once seized upon any one, "like other spasmodic diseases, it facilitates its own return": when it has occurred once, it is more than probable that the patient will suffer from it again and again. Instances have been reported however, in which it appeared in childhood, and left the patient at the age of puberty, without ever returning. Asthma is often hereditary; the predisposition to its attacks being inherited by children from their parents; and persons of a nervous temperament seem much more liable to it than others. It often at-



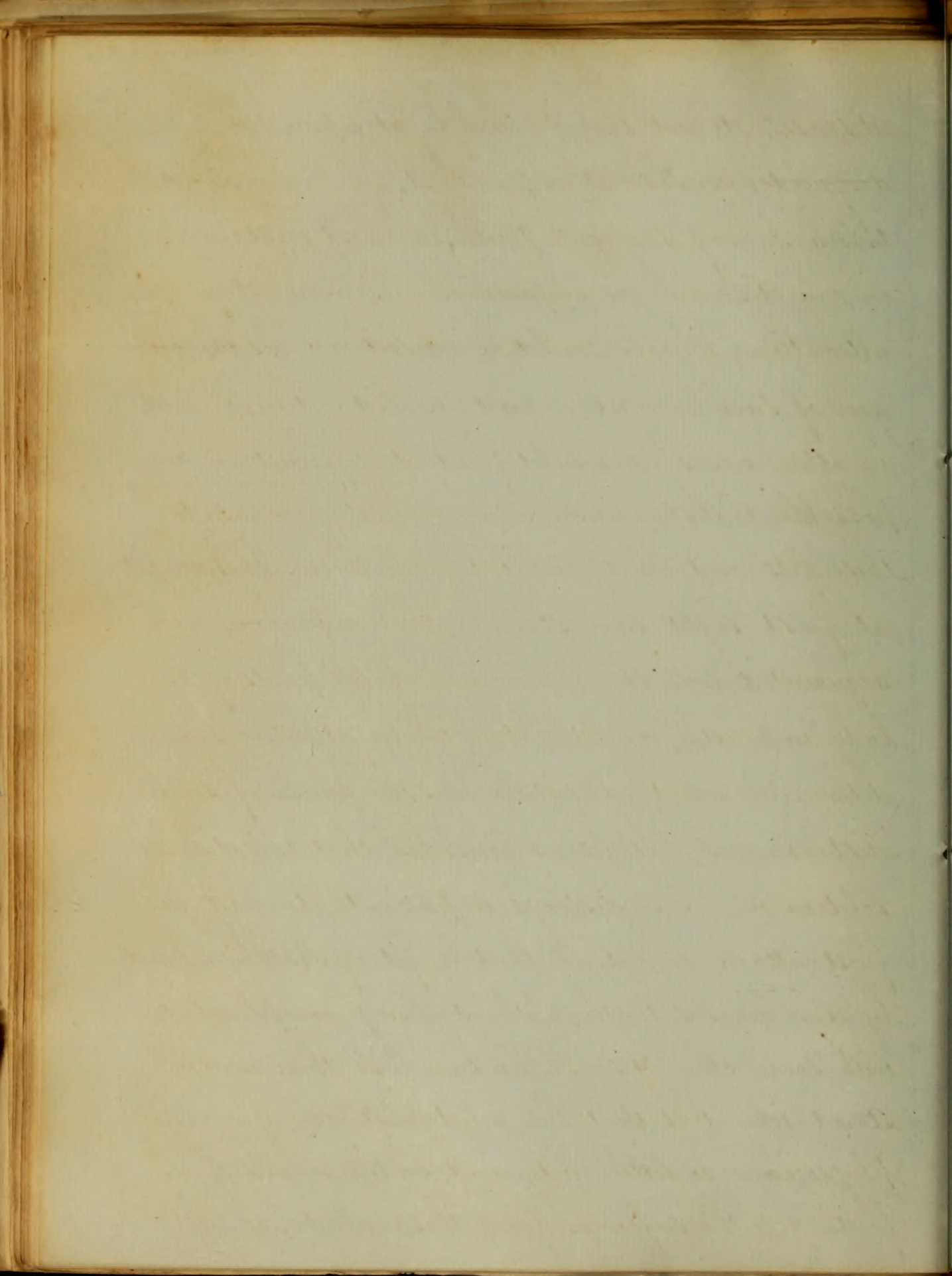
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tacks individuals of plethoric habit, but it rarely continues for any length of time without producing considerable emaciation. It is a common belief that Asthmatics will never be attacked by Phthisis Pulmonalis; this indeed seems to be a very correct opinion, as tubercles have been rarely if ever found in the lungs of those who had been subject during life to these spasms, and we know that Emphysema of the Lungs is often a cause of Asthma, and that it seems impossible for tubercles to exist in an emphysematous lung.

We would naturally look for aid and assistance in our labors after the causes of this "morbus maxime terribilis" to the scalpel and investigations of the anatomist who has in numerous instances given us almost the only clue to the proper and most successful treatment of human maladies. But we do not derive much knowledge on this subject from dissections; the morbid appearances of the body after death, which afford us so much valuable information with regard to many other



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diseases, do not throw much light upon the disorder under consideration; indeed, in many, and I think I may say with truth, in most instances, we can discover no appreciable lesion whatever; no alteration, which, could be considered as the origin of such irregular and morbid actions; and in other cases we would find it difficult or impossible to distinguish between what gave rise to these fits and what resulted from them. This might at first sight seem strange, that a person, well acquainted with the appearance of all parts of the body in health, could not, after an attentive search, determine what alteration was the cause of such disturbances; but let us consider that this disease seldom or never destroys a patient during a first attack or rather that a fit of Asthma hardly ever causes death, without being complicated with some other disease and we will then understand why it is that the anatomist can give the physician so little aid, and be the means of affording to the sufferers from this malady, so little



comfort. We will perhaps then have some idea of 11
the difficulty in determining between the origin
and the complications of a disease which had
been for years hovering around the subject, ready
to pounce upon him at any moment, and during
its attacks, giving the most intense suffering, as
well as wearing out the strength of the most ro-
bust and emaciating the most plethoric, and yet
seeming unable without some help to extinguish
the flame which it had reduced to a single spark.
Sometimes however we do find evident lesions;
two cases are reported, in one of which there was
manifest alteration of the spinal marrow, and in
the other, of the pneumogastric nerve, and whenever
there exists disease of the heart or of the lungs, we
find their peculiar changes.

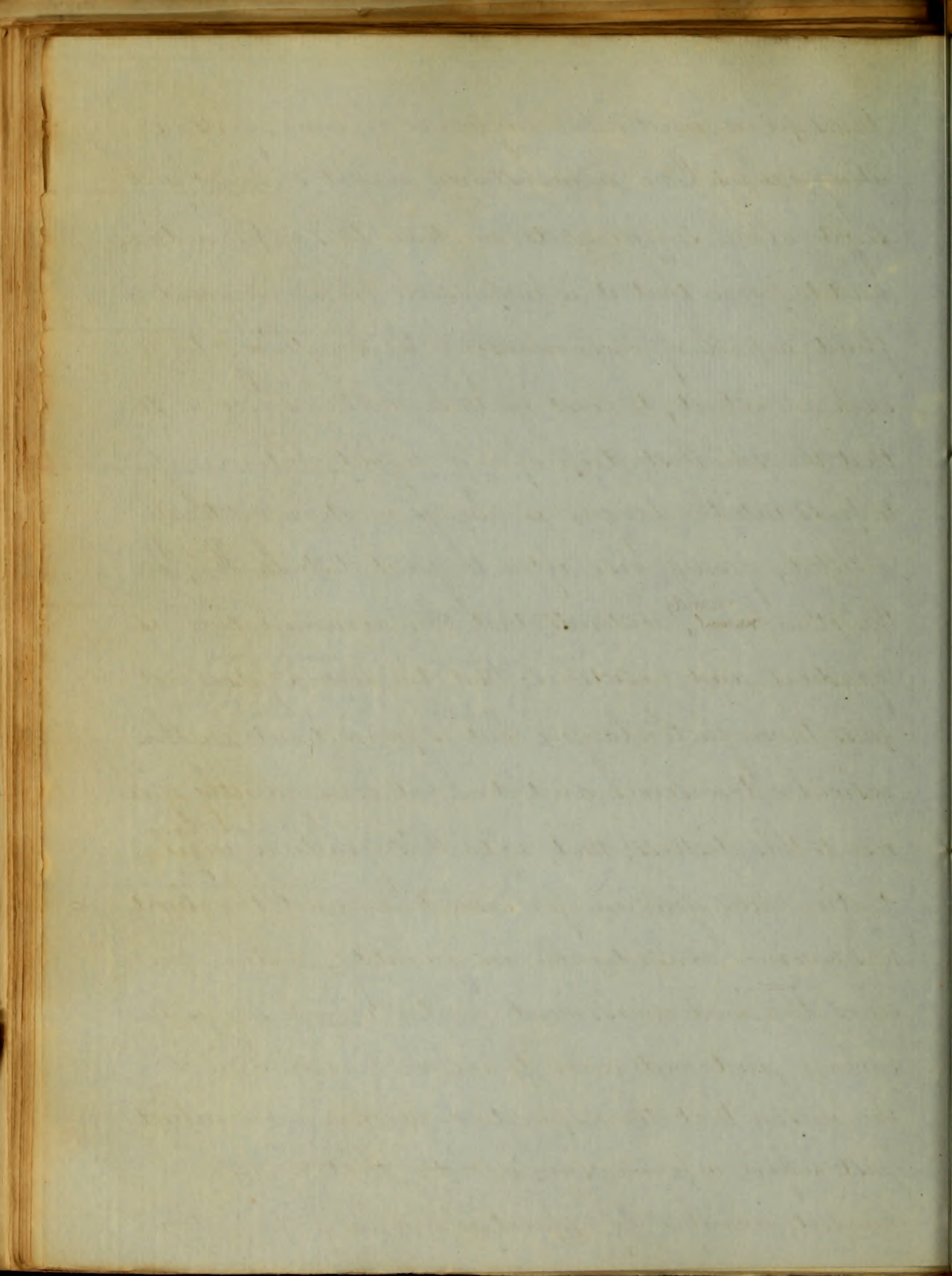
Although there has been so much agreement
in the descriptions of the symptoms, by authors
of different times, yet the causes of this disease
have given rise to many and very different opinions.
Prevailing theories have almost always been inter-

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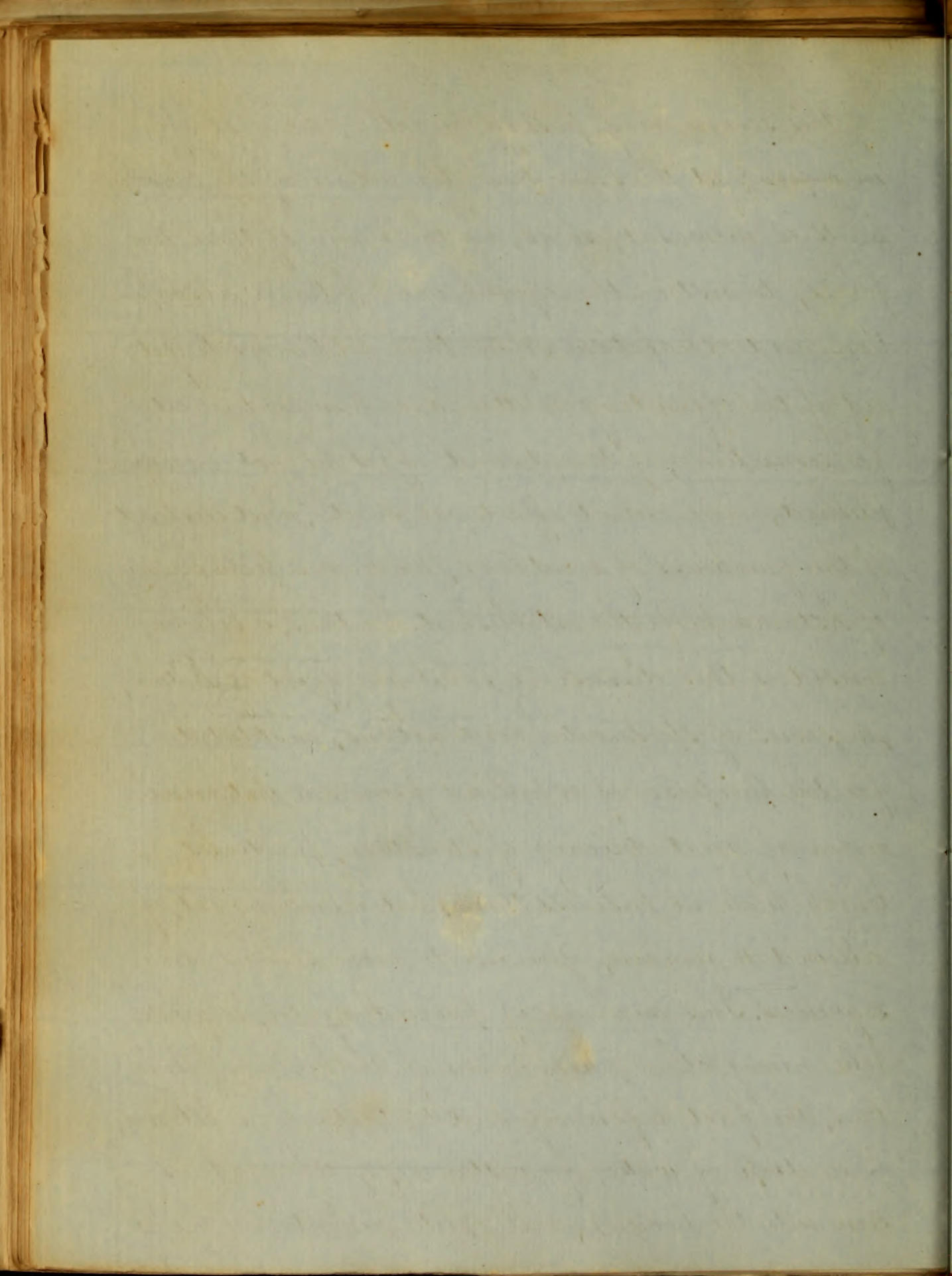
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woven with the discussion and explanations of its
formation; and the fact, that the physicians in
almost every age have written so differently with re-
gard to this part of the subject, may be considered
a fair index of the obscurity in which its princi-
ple, cause has been involved. I do not pretend to
bring forward any new position, or to defend
any old one by new, and more vigorous arguments;
the time, generally taken up by the medical stu-
dent in his preparations for obtaining the Doc-
torate, does not suffice for any such elaborate
study of one subject, without neglecting others, as
would enable him to make new discoveries; but I
will endeavor in a few words to mention one or
two of the opinions most entitled to respect, and
some of the arguments by which they have been
defended. One of the writers on this disease,
(Dr. Keen in his practical inquiry into disordered
respiration) endeavors to prove that the fits of Asth-
ma are brought on by an accumulation of
serum in the extremities of the air pipes, which

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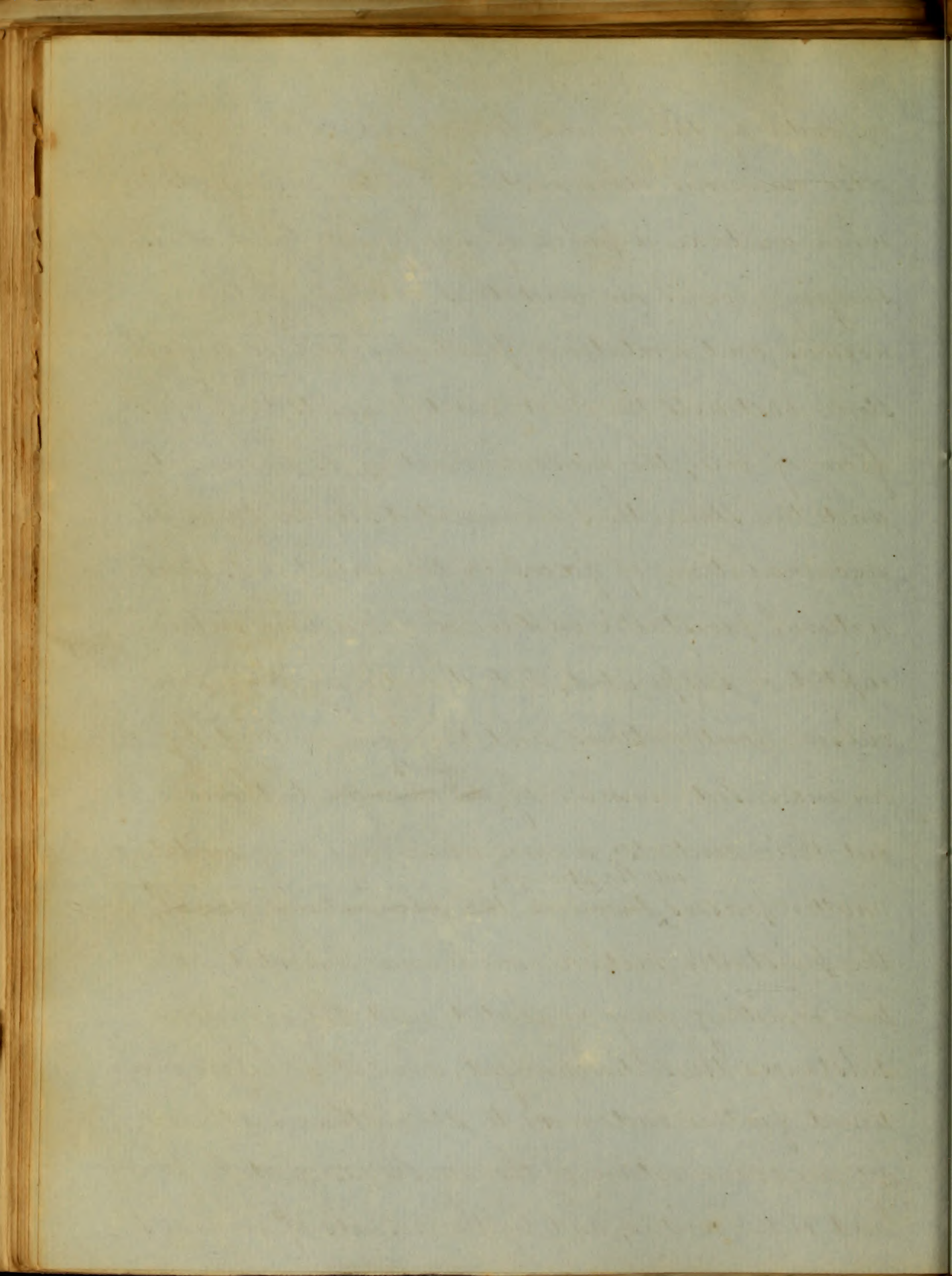
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takes place under the influence of some of its ex-
citing causes. One circumstance might seem at first
sight alone sufficient to overturn this explanation,
and to prove that it is impossible for an amount of
fluid capable of embarrassing the breathing to
such an extent, to exist in these air tubes; for we see
that the smallest drop of any liquid endeavoring
to pass into the larynx is always most energetically
resisted, giving rise often to great distress. He, on
the other ~~hand~~^{hand}, contends, that this accumulation is
gradual and insidious; that the serum does not
pass through the larynx but is poured out in the
vesiculae themselves and does not consequently give
rise to this distress; that, after this gradual infil-
tration has gone on for some time and the fluid
has become considerable in quantity, nature per-
ceives the embarrassment under which she is la-
boring and endeavors to relieve herself. This is
the reason that the respiration becomes more rapid
just before a paroxysm; in order, that by an in-
creased number of expirations a large proportion



of this serum may pass off, or rather, be cast off 14
in vapor; at the same time the action of the absor-
bents is increased, so as, by the union of these two
forces, to restore the equilibrium between absorp-
tion and exhalation. After these endeavors to get
rid of the offending matter have been continued
for some time, if the desired effect be not accom-
plished, more violent efforts are made, and instead
of the quickness of breathing, we have a paroxysm
of Asthma perfectly established. He thus, I believe,
considers this disease a salutary effort of Nature,
a series of spasmodic contractions, instituted
for the purpose of expelling from an internal
organ of great delicacy of structure, particles
which have no business there, but which might, if
allowed to remain, give rise to more serious con-
sequences. This manner of proceeding too, is quite
like many other phenomena of the human fabric,
thus, the fact before referred to, that any substance,
as a drop of water, for instance, getting admis-
sion into the larynx, will excite violent coughing



in order by this means, to get rid of it. We have 15
also numerous other instances of the same nature;
when we take a pinch of snuff into the nostrils,
sneezing comes on and thus carries off the
noxious and irritating particles; when a gall
stone obstructs the duct and prevents the proper
flow of bile, the muscular action is increased
and the stone thus eliminated. When there is
accumulation of faeces in the intestines, their
natural peristaltic motion is for a time inter-
rupted or suspended, but directly we have con-
vulsive contractions, and they are enabled by
an increased number of ^{efforts} ~~attempts~~ to throw
out their contents; again when any very irritating
matter passes ^{into the stomach,} ~~through the alimentary canal,~~
the peristaltic motion may become inverted, ac-
tive vomiting may be excited and the injurious
substances thus discharged. The author before men-
tioned further endeavors to strengthen his theory,
by an examination of the causes assigned by other
and older writers, and by the results of numerous

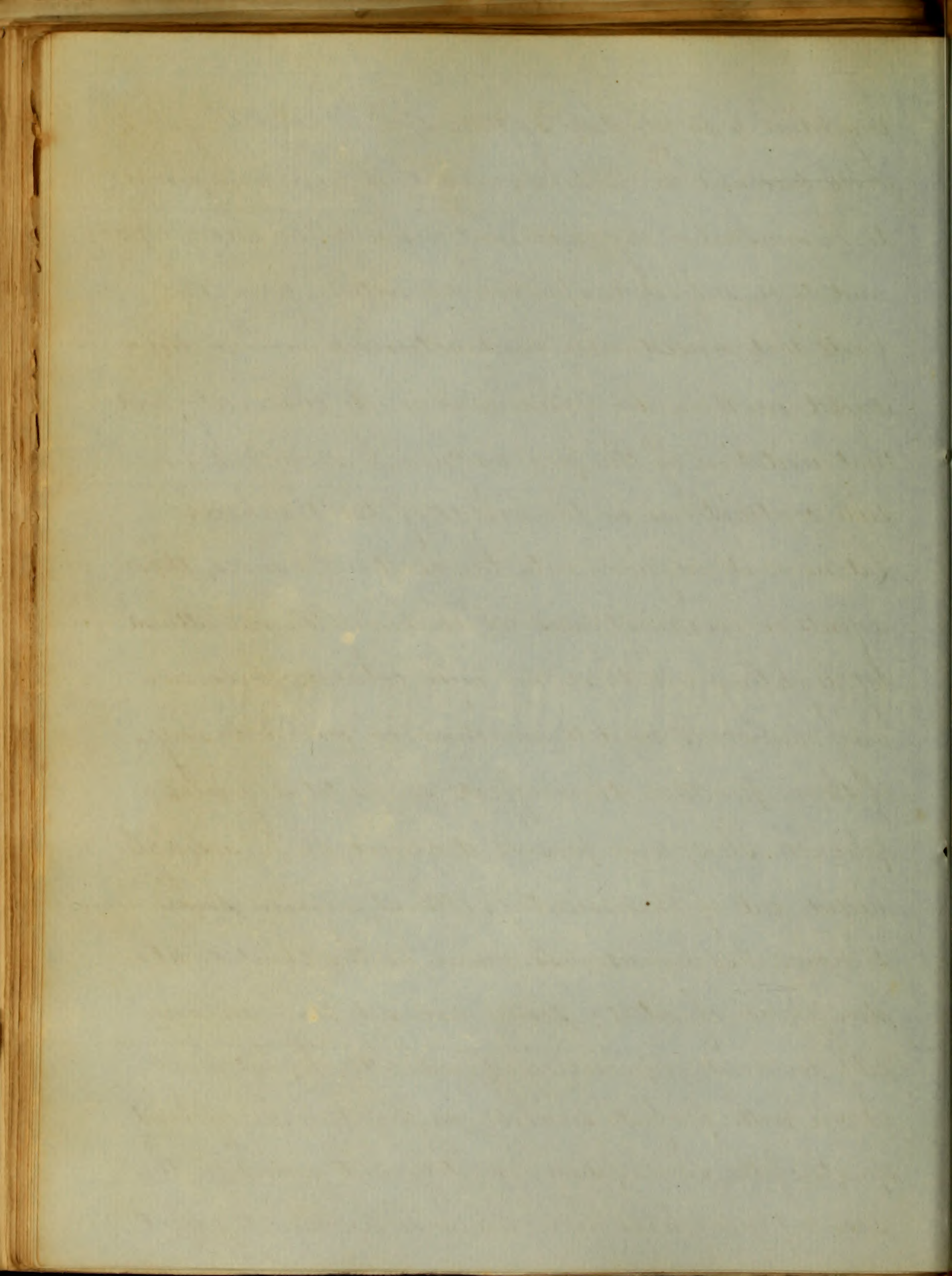


anatomical investigations. — There is another 16
and more satisfactory explanation however,
which is more favorably received by physicians
of our own times. This considers Asthma a
spasmodic disease of the excito-motory nerves,
and its upholders support their view by the num-
ber of symptoms it presents, so very similar to
what we notice in other spasmodic and nervous
disorders. Thus, we have the pale urine, so like that
of hysterical women, the excessive flatulence, the
suddenness of its approach and departure; besides
there often exist spasms in other parts of the body, at
the same time that we have one of these attacks.

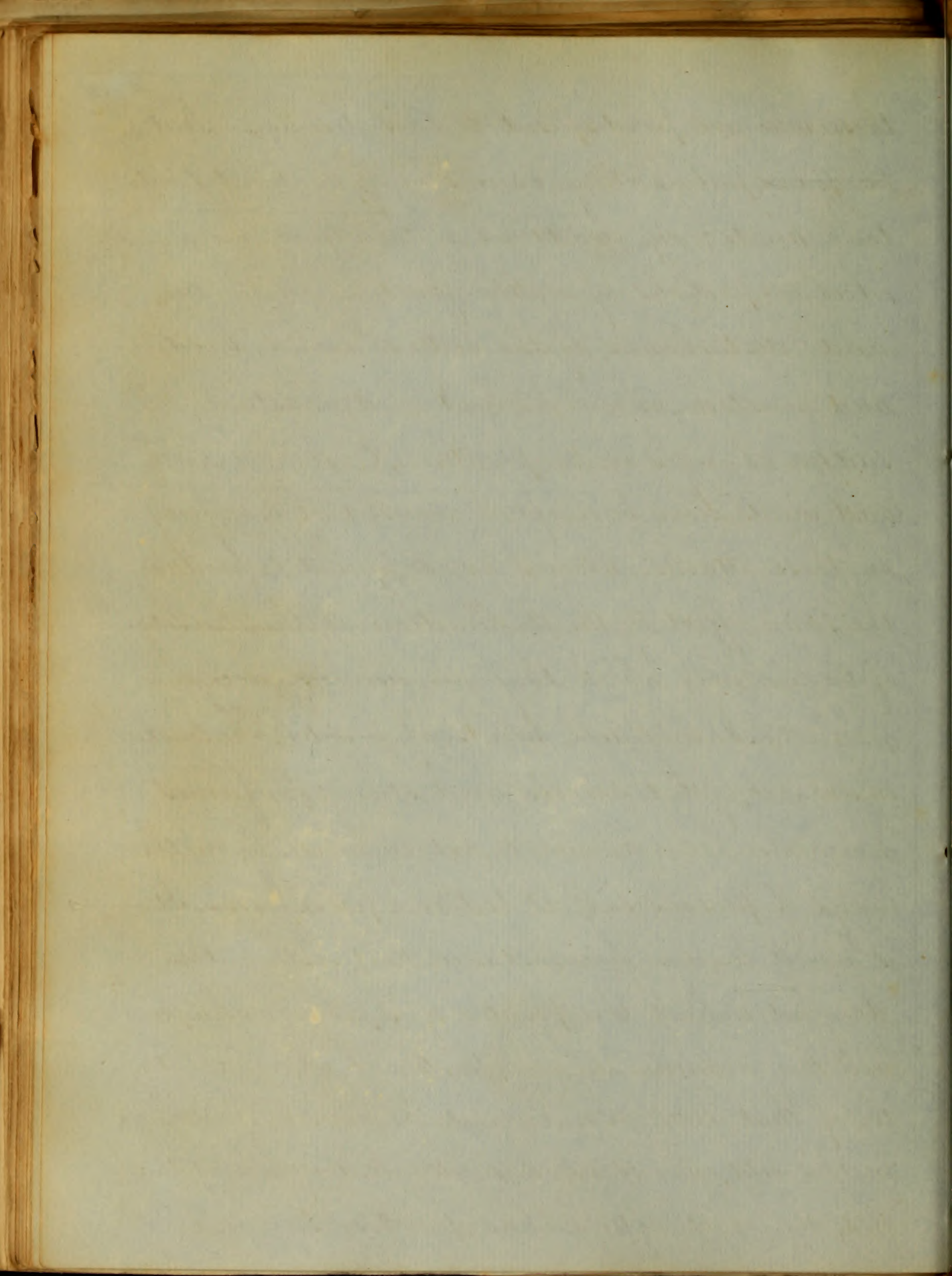
We also notice that persons, at the commencement of
their fits, often rush to a window, throw it up and
remain there a considerable time with perfect im-
punity, even in the coldest and most severe weather.
The supporters of this doctrine, taking advantage
of the numerous cases in which there have been found
no traces of any lesion after death, bring them for-
ward as another argument in their favor. The muscles which

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they believe to be affected by these spasms, are the fibres,
which surround the air tubes; and these have been proved
to be muscular by examinations with the microscope
and to be subject to spasmodic action from the
facts that considerable contractions have been pro-
duced in them by galvanism and electricity, and
that irritation of the par vagum has caused sen-
sible contractions in the rings of the trachea.

Let us next inquire into the exciting causes, those
agents or circumstances which bring on an attack
by lighting up these morbid actions. These are
very numerous and the manner in which many
of them produce their effects seems totally inex-
plicable. Thus, some persons dare not sleep a single
night out of the country; others again seem
to have less uneasiness when in the tainted at-
mosphere of cities; some can not stay in one
city without experiencing an attack, but may
dwell with perfect security in another. Different
parts of the same place or different rooms in the
same house have been likewise known to affect



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those who are predisposed to this disease. But the principal exciting causes may be divided into three kinds; viz. conditions of the atmosphere, odors or particles of matter floating in the air, and disturbances of the body or mind. Cold and moisture, as well as heat and moisture, all sudden changes in temperature, East and North East winds have been often accused of bringing on these attacks. Storms are supposed to produce the same effect by the diminution in the density of the air with which they are usually accompanied. Nearly all kinds of powder, the smoke of Tobacco, fetid smells and strong perfumes have also been known to act injuriously on the lungs of persons subject to these paroxysms. It is a well known circumstance that Asthmatics dare not inhale the powder of Speacuanha, nor will they remain in an apartment where a bottle of that drug is uncovered. There is a gentleman in this city, who is always attacked by one of these fits, the night after he has opened or seen a bag



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of fresh Rio coffee opened, and new made hay, Strawberries, roses and musk have been known to act upon many in the same manner. Again, the passions of the mind, whether agreeable or otherwise, when violent, intense study, great bodily exertion, and indeed, whatever causes general debility, have a tendency to produce one of these paroxysms. Some affirm that repelled eruptions, and hemorrhoids have given rise to this disease; and disorders of the stomach, including under that head excessive distension and long fasting, are generally acknowledged to have a similar tendency. Gout sometimes leaves the ~~limbs~~ joints and attacks the lungs giving rise to a well characterized fit of Asthma; but the diseases which most commonly cause it are Emphysema of the Lungs, Chronic Bronchitis, organic diseases of the heart and all affections which give rise to congestion of the pulmonary tissue.

The diagnosis of this disease is not difficult; few maladies can readily be confounded with it, indeed none present sufficient resemblances to lead even

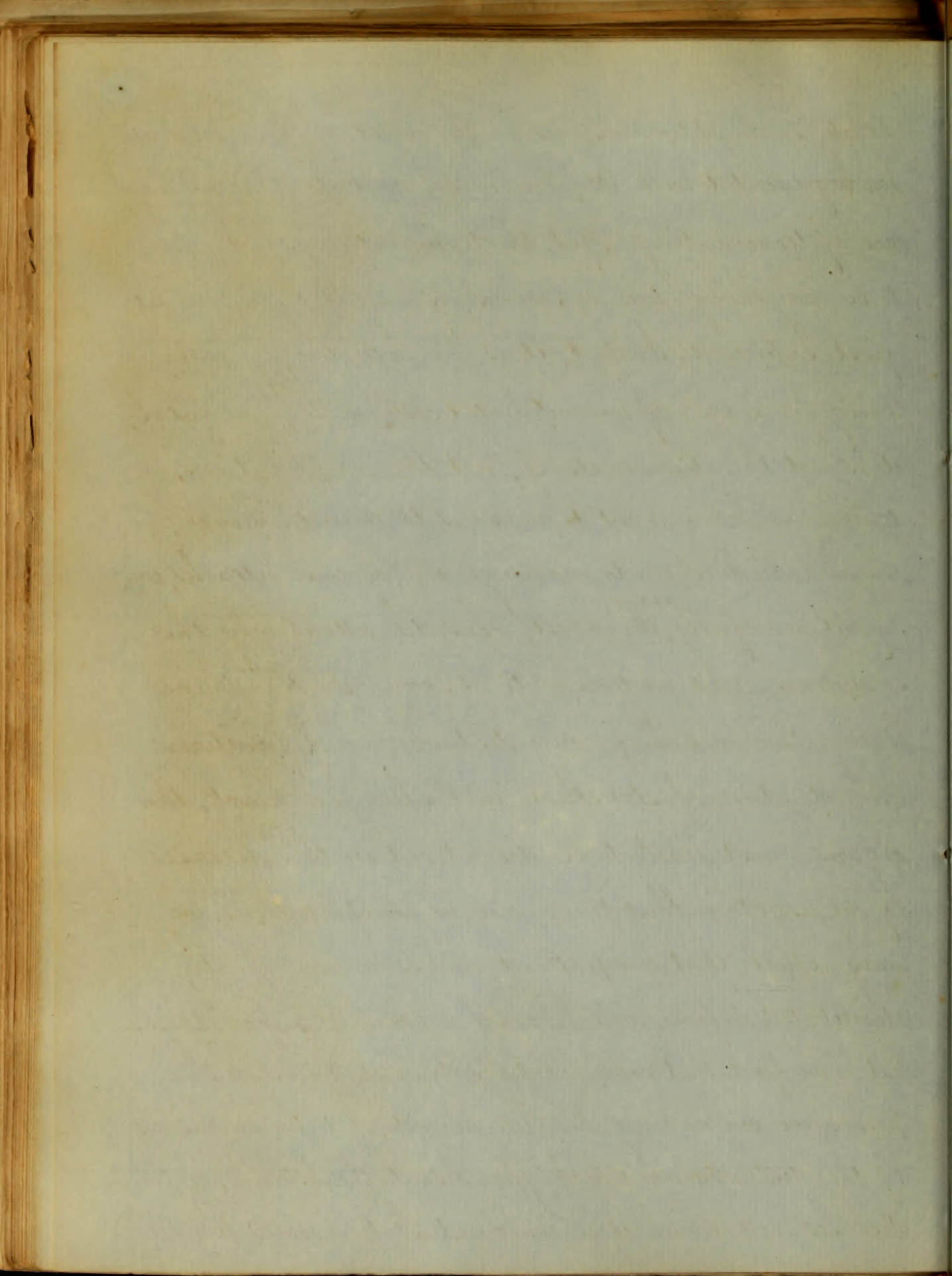
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a tolerably careful observer into a mistake. But there is one disturbance of function, or rather one symptom, to which the term Asthma is often improperly applied, even by physicians; I speak of Dyspnea. This confusion, I think, does not arise from any want of care in the observations or classification of the accompanying phenomena, but from the circumstance that so many persons seem forced to give the name Asthma to every species of difficult respiration, whereas it should be restricted to those cases which come on suddenly and spasmodically and which present those peculiarities already mentioned.

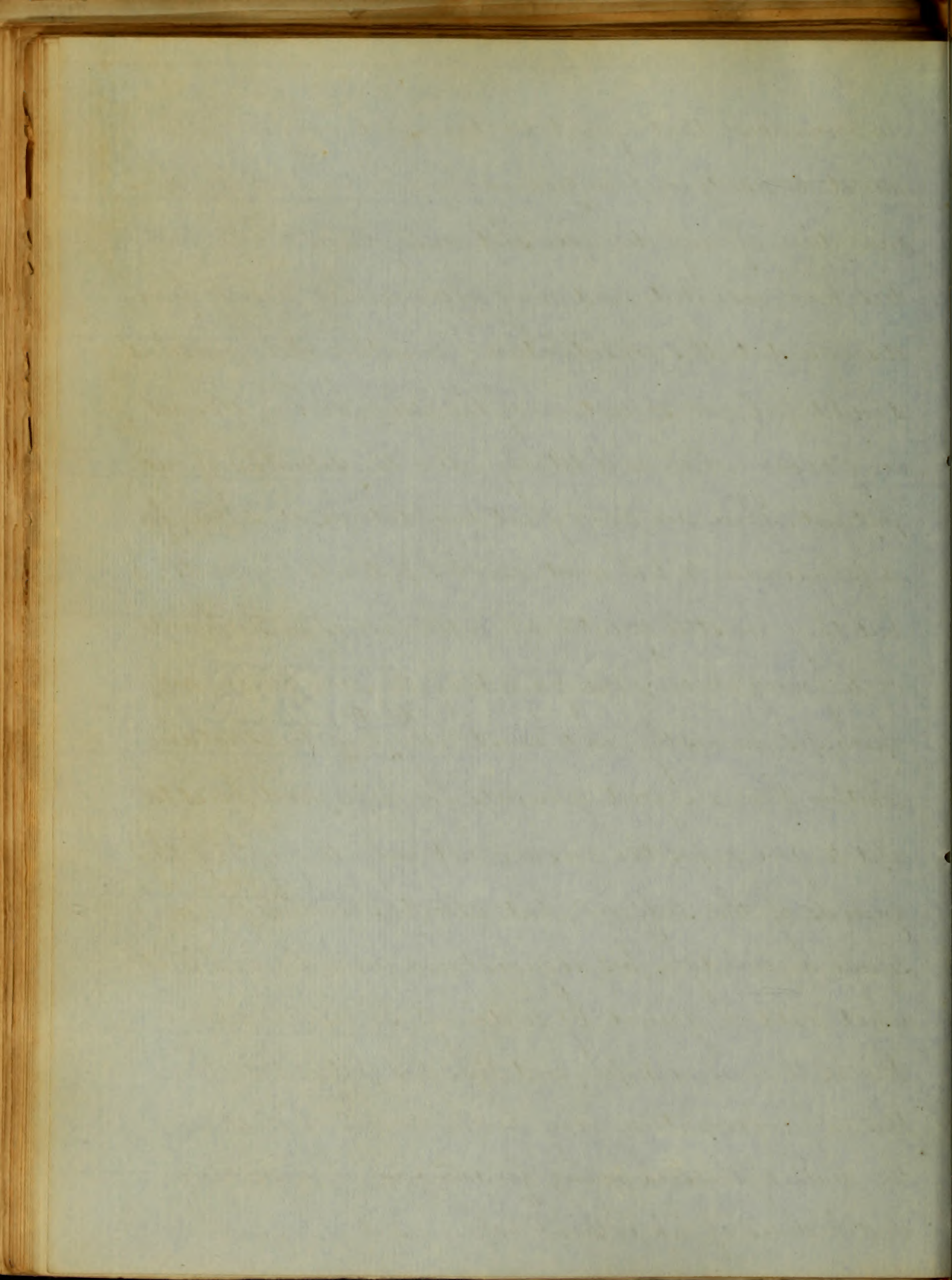
To a young practitioner, who had never before seen a person laboring under one of these paroxysms, the thought would most probably present itself that he was about to deal with a remarkably serious disease; that he had good reasons to entertain fears for the recovery of his patient, and to pronounce a very grave prognosis. The violence of the symptoms and the great distress and anxiety of the sufferer are calculated to

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excite such apprehensions in the mind of those who are unacquainted with its phenomena and its general manner of terminating. But the termination is not apt to be anything like so serious as might have been at first supposed. Indeed, it is an exceedingly rare thing for a case of uncomplicated Asthma to prove fatal; it is not the disease itself, but the complications, which we have most ~~to~~ reasons to dread. Hence, when called upon to manage one of these attacks, we should carefully ^{examine} the chest, consider attentively the symptoms, and endeavor to discover whether there is any other mischief, any disturbance of function or alteration of structure in the lungs or heart, the organs most likely to be disordered in this disease. If we ascertain that there are no complications, we may expect, that our patient, unless he was greatly debilitated before, will be well again in a few days; but if we find that complications do exist, we must then pronounce concerning his fate according to the seriousness of the disturbance which gave rise to the Asthma, or the diseases with which it is conjoined. But we would do well



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to remember, that great caution and circumspection
must be used in pronouncing upon the probable ter-
mination of any disease. Sad consequences to both par-
ties have resulted and may often again result from
disregard to this consideration; even though we ourselves
should feel ever so certain of the issue, circumstances
may occur which will totally alter the situation of our
patient. There are very great temptations, it is true, for
a physician to tell what are his patient's prospects;
but they are still greater when the case is in the hands
of a young man; the friends of the sick person are,
perhaps earnestly and constantly ^{soliciting} him to ascertain
whether there are good grounds for hope, and he is too
apt to give a positive answer not only to gratify the
friends of the sufferer, but also to show his profes-
sional knowledge, his acquaintance with disease. But
what could be gained by so doing? If the physician
thinks there is no hope, and tells his patient so, then
this very information may be the means of hastening
the death of the sick man; for who can imagine the
wretchedness of life without hope; yes, it is hope in many



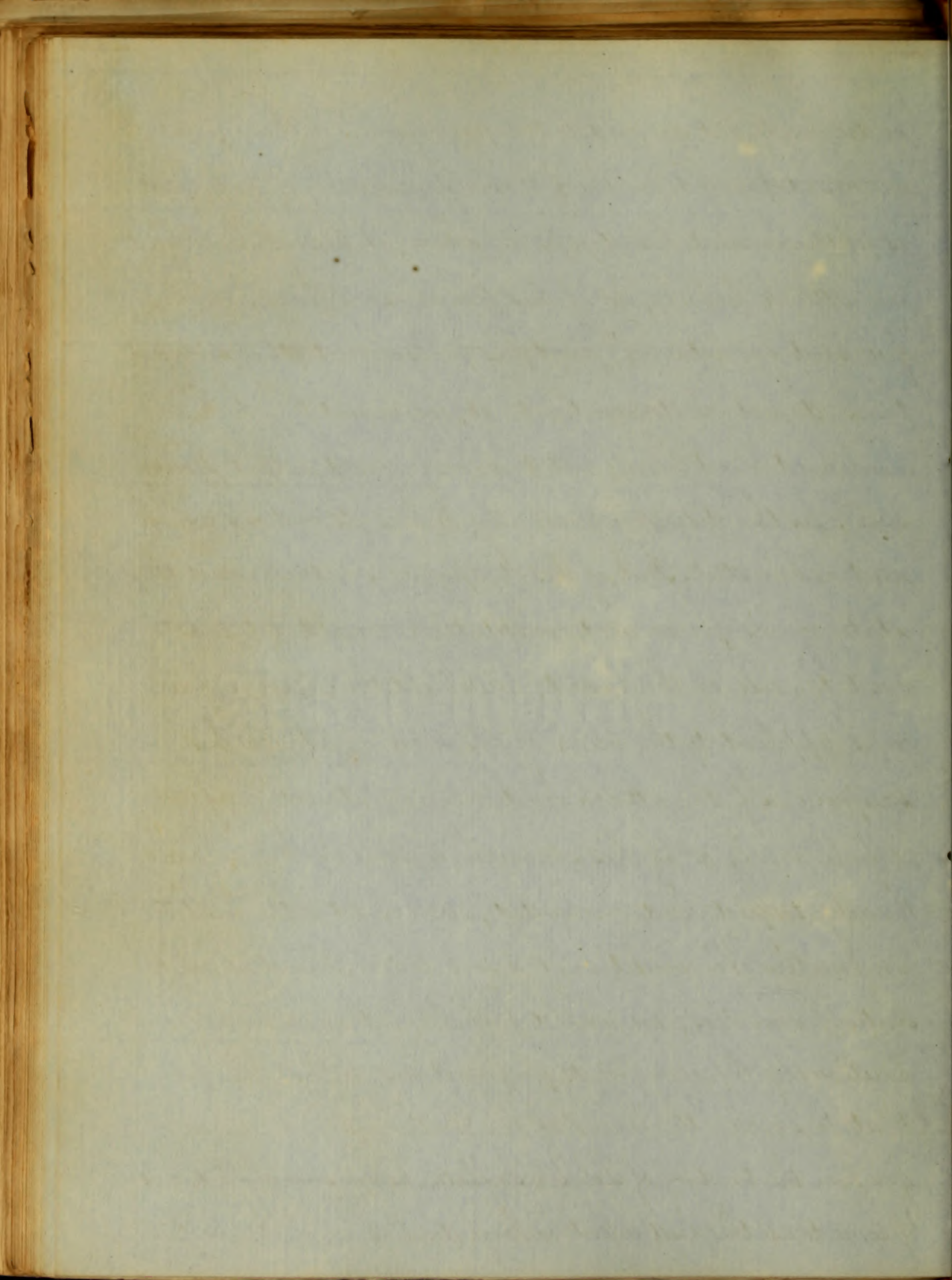
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instances, that, like the sight of home to some long absent traveller, buoys up the patient, gives him new strength and enables him to overcome obstacles which would otherwise overwhelm him. If on the other hand he represents the disease as a trifling matter, a slight indisposition which will last but a day or so, and it terminates fatally, the friends of the lost one must conclude, that he did not perform all that he might have done, or that he did not know what to do, that he is either an ignorant fellow or what is far worse, negligent of his duty and a trifler with the lives of his patients. There may be cases, however, in which we will have to speak plainly and to acquaint the patient or his friends with our opinion; we should then weigh carefully every thing, form accurately our prognosis and make it known to a person, who is calm, discreet and careful; but in every instance, we should be very cautious and avoid speaking too positively, as a slight circumstance may determine contrary to the most accurate calculations.

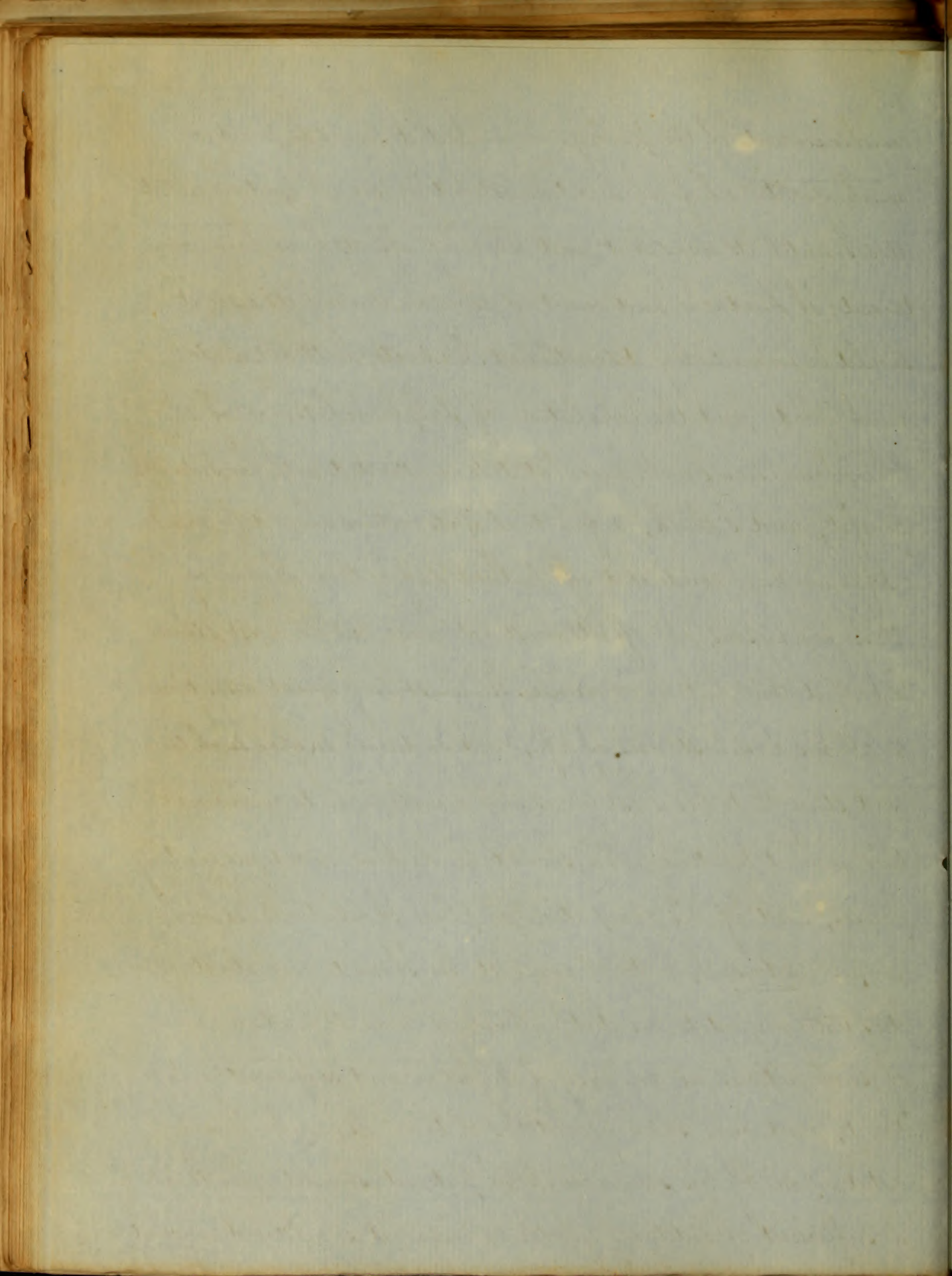
When called upon to treat a person laboring under one of these fits, we should, in the first place, use all our

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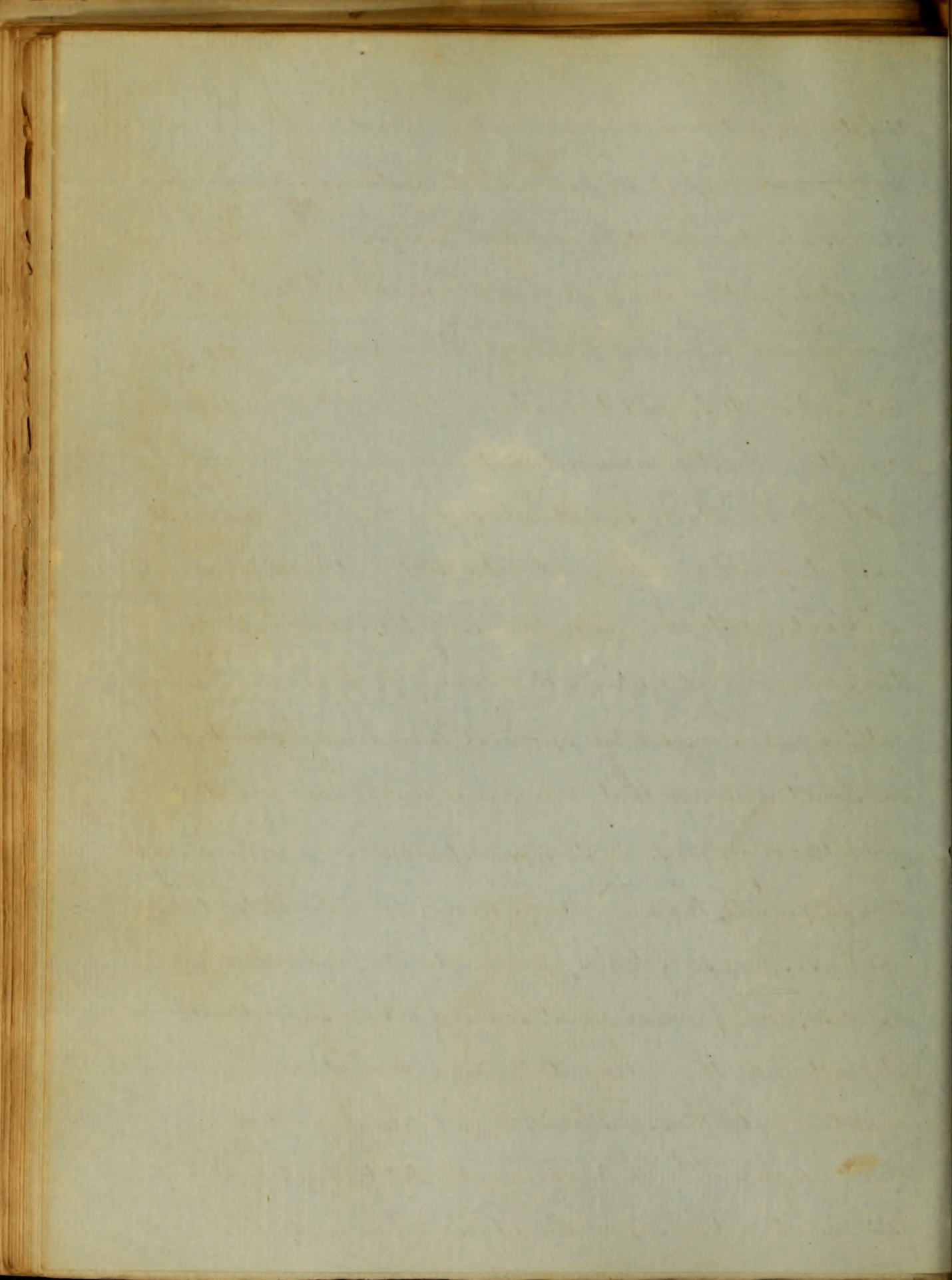
endeavors to put an end to the paroxysm. For this purpose, we would proceed in the following manner; if the subject is plethoric and his dyspnea severe, if he has never had an attack before, or if his paroxysms have been "few and far between" and his pulse and other symptoms do not contraindicate it, we would tie up his arm and bleed him; not to a very great extent however, as the disease generally leaves its victims weak and exhausted. But if his dyspnea is intense, and the state of his pulse and constitution would not warrant the use of the lancet, we would then have a few cups applied to the back of his neck or between his scapulae. If the attack had come on directly after a full meal, or if his stomach or liver had been naturally torpid and overloaded, we would administer an emetic. We would next resort to the Narcotics and Antispasmodics; we would probably either administer cautiously Opium or its preparations, advise the patient to smoke the leaves of the Datura, Stramonium, or give him the tincture of Lobelia Inflata. We are strongly advised by some to use this last agent in large doses as an emetic, in the



commencement of the paroxysm, — but it seems to produce much greater relief when administered in small, and repeated doses until its nauseant and relaxing effects have been obtained; if headache and vomiting come on during its use, it should be immediately discontinued. Expectorants often do much good, and the inhalation of Sulphuric Ether or of the Chloroform seems well calculated to be attended with considerable benefit, and, I think, a fair trial of its virtues should be made. After we have conducted our patient safely through one of these paroxysms, our efforts must not cease, but we must strive to prevent their future recurrence. We must pay great attention to all his circumstances of life, and endeavor to give such tone and strength to his system as will enable him to overcome this morbid tendency. We should make him avoid all exciting causes, and if his occupation or place of residence is improper, advise him to change it. We should give strict orders with regard to his diet, allowing him to partake only of such articles as are easy of digestion and sufficiently nutritious, and only such quantities of these as can be easily acted upon by his stomach. Our patient should also take a sufficient quantity of gentle exercise; it should not amount



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to fatigue, but be regular, moderate and continued; he should
by no means engage in any violent exertions. If his circum-
stances would allow it, he would in all probability derive great
benefit from travelling during the winter through some
more genial climate; a sea voyage generally agrees well
with Asthmatics, and the value of the benefit from travelling
would be greatly enhanced by the company of a careful
yet lively friend. We should advise him to sponge his chest
every day with vinegar and water, salt and water or simply
cold water, or to commence the use of the shower bath during
the summer and continue it regularly every morning through-
out the year. Tonics may also have to be administered; but
we should remember that a person is much more affected
for better or for worse by those substances which enter his sys-
tem by pounds, than by drugs which are administered by
grains. The use of tonics, combined with proper diet and
exercise, will prove of great service; but we should not
depend upon them alone to the neglect of other and more
important indications. His bowels should also be kept regularly
open, his general health carefully attended to, and if there ex-
ists any other disease, we should use all our endeavors for its



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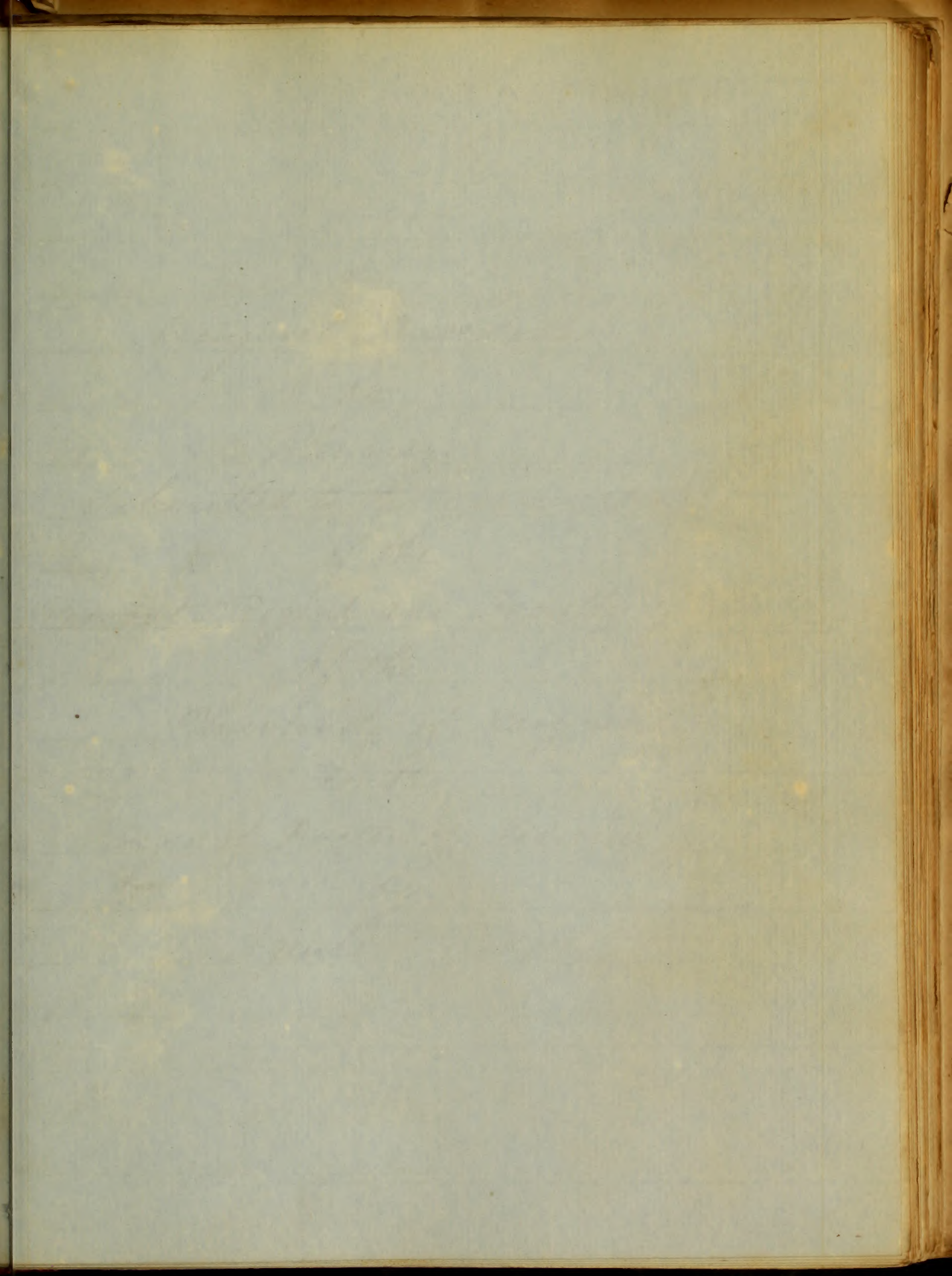
Speedy removal or mitigation.

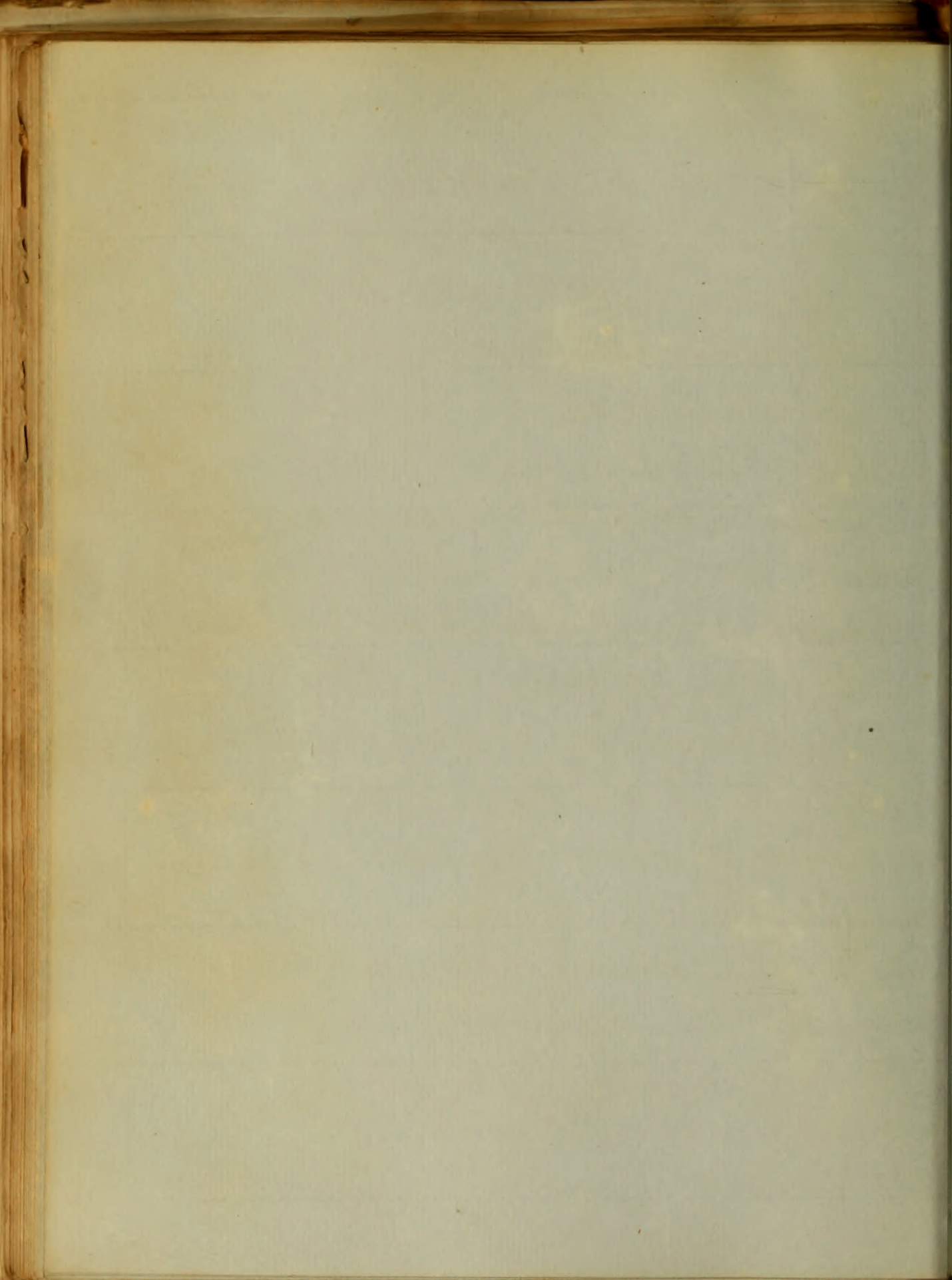
I have thus endeavored, gentlemen of the Faculty, to go over, as succinctly and clearly as the nature of my subject, and my own abilities would allow, some of the most interesting and important points in the consideration of this disease, and I now respectfully present them for your examination. To your eyes there will most probably appear many faults, both of omission and commission; I lay them before you however, not in a presumptuous spirit, but because I feel assured that you will extend to me, all that indulgence which I so greatly need. Before concluding, allow me, gentlemen, to present to you my earnest, and heartfelt thanks for the kindness and instructions, I have received at your hands during my connection with the University of Maryland. Day by day, have I witnessed your earnest endeavors to prepare your disciples for the noble yet arduous profession in which many of them are about to engage, and time after time have you proved to us by your examples, that it will often be necessary to risk comfort and safety in our efforts to alleviate the sufferings and

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overcome the diseases of our fellow creatures. May your examples prove beacon lights to guide us in the paths in which we should walk; may your instructions sink so deeply into our hearts, that when you shall send us forth with the divine commission "Go, heal the sick," we may by close study and reflection, be enabled to carry out faithfully, carefully and zealously the objects of our mission; may many years of increased prosperity roll over this venerable institution and may our preceptors, in their endeavors to benefit mankind be blessed with long life, health and happiness.

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An
Inaugural Dissertation
on
Pleurisy.
Submitted to the examination
of the
Provost - Regent and Faculty of Physic
of the
University of Maryland.
For the
Degree of Doctor of Medicine
by
Aquila T. Ridgely.

August 1861

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Robert ...

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This is truly an enlightened age. Wise statesmen have brought the wild passions of men into subjugation to a civil code & united the most complex varieties of the human race beneath the beneficent influence of a political economy. Letters are now in the meridian of excellence & to the careful gleanings of the lore of the ancients add all the experience of more recent times. The arts are fostered in every land & who shall say but that ere long the great masters of Florence & of Rome shall exist only in song, whilst their divine productions shall have been eclipsed by the genius of our own age. Science has spread her broad aegis over the Earth. The Earth—the air—the sea, have all succumbed to her resistless power. Time & space & the

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bulwarks of Nature, are to her no barriers. Not content with passing over mountains, she passes through them. Impatient at the tardy pace of the Locomotive, she despatches the winged Lightnings, as trusty bearers of her imperious mandates.

But it is more particularly with Medicine & with Medical Science that we are now interested. Has she kept pace with her sisters in civilization & improvement? Has she done aught to increase the indebtedness of man towards her? Or has she been idle, whilst all else, influenced by the irresistible power of the Mind, have hurried onwards with Herculean strides towards perfection? The answer is plain - is evident. Go to the drear abodes of Poverty - go to the sumptuous palaces of the Rich. Ask them, who.

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it is, that ever ready at their call, alleviates their sufferings & rescues them from Death. It is the Physician, who treads with philanthropic steps upon the high-way of Disease & wards off its darts ~~or~~ withdraws its sting.

Great improvements have been made in Medical Science. The inductive minds of her Philosophers have enabled them to trace Disease to its source & bid it declare its nature & its name. Particularly has this been the case in regard to diseases within the thorax. Enclosed within that bony fortress they had hitherto set at defiance all attempts at investigation. Notwithstanding the bold assaults of the pioneers of the profession, all remained in darkness & obscurity. True - to some extent successful - they were enabled to adopt plans of treatment, in many cases excellent, yet

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they were like seamen far at sea without chart or compass to direct their course.

They knew by general symptoms that some malady was reigning amongst the viscera of the Chest - but they did not know the exact organ affected or the amount of the mischief. But a new era was about to commence in the annals of Medicine. The veil which had for ages been thrown around those diseases was about to be withdrawn. Darkness was to be converted into Light & those complaints which had been the most obscure were now to become the simplest & most readily understood. Acting upon an analogy within the comprehension of every one, but which Philosophers had failed to apply, Avenbrugger - a German, about the middle of the eighteenth century introduced to the consideration of the Profession the practice of Percussion.

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It remained for Laennec to make the more brilliant discovery of Auscultation. With these - Percussion & Auscultation - we can mark & interpret those changes & phenomena which are undergone within those dark & well walled chambers of the chest. "Indeed," says Dr. Watson, "in a vast number of instances, we can tell, as positively as if we saw them, the actual condition of the thoracic viscera - we can follow step by step the successive processes of disease & of repair in which they are involved. We can penetrate beyond those symptoms which denote deranged functions & detect & understand those much less fallible symptoms which arise from alterations of structure.

With these few preliminary remarks, which we have endeavoured to make as brief as possible, we come

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to the consideration of our subject. Of Auscultation & Percussion we would merely speak incidently. It is to one of those diseases, whose nature & phenomena they have so completely & beautifully revealed, that we would now direct attention - viz - to Pleurisy or inflammation of the Pleura.

In order that we may have a clearer & more comprehensive idea of our subject & be able the more readily to understand & appreciate the symptoms & circumstances which may hereafter present themselves, we shall first ~~ende~~ depict as concisely as we can, the various morbid anatomical alterations which are characteristic of the disease.

In inflammations of serous membranes that of an adhesive character is chiefly to be dreaded & expected. The ^{events of} adhesive inflammation, ~~are~~ as all observers inform us, the effusion of serous fluid or of lymph, or of both

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The pleura being serous sacs must of necessity obey the same laws & undergo the same changes as other tissues of similar structure. Accordingly, in inflammation of the Pleura we sometimes have the opposing surfaces of the sac firmly glued together, as it were, by one or by successive layers of lymph. Sometimes it is distended to a greater or less extent by an effusion of serous fluid. Again we frequently find the pulmonary pleura adhering in places to the costal, whilst in the intervening portions they are kept far apart by interposing fluid.

In the first place we would notice that form of the disease, wherein coagulable lymph only, or where a large proportion of lymph & a very small proportion of serum has been effused. In the majority of instances the lymph thus poured out will enter into the formation

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portions of the sac, whilst in other instances the whole surface of the pulmonary pleura is bound immovably to the unyielding wall of the thorax. But this coagulable lymph does not always become organised. Sometimes granular deposits are thrown down, which do not nor can not assume the appearance of false membranes. Sometimes tubercles form in this lymph & sometimes ossific matter is deposited. The age & constitution of the patient seems to exert a controlling influence. In the young & plethoric lymph that has a tendency to become organized is far more apt to be effused than in the old & infirm.

Most frequently in Pleurisy the effusion is of a liquid character. This liquid is for the most part composed of serum & is limpid & colourless or of a pale straw or lemon colour. Flakes of albuminous matter may be seen floating about in this fluid medium. Together with this serous

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Liquid we often see a thin layer of lymph coating the inner surface of the pleura. Sometimes the transparent fluid is very perceptibly tinged with blood. Or again blood itself may be exhaled from the inflamed membrane. The quantity of the effusion thus poured out into the sac may vary from several drachms to as many pints. So long as the integrity of the sac remains the fluids which it contains are in the plurality of cases inodorous.

It occasionally happens that air or gas is found within the diseased pleura. The gas appears in some instances to have been caused by the decomposition of the ^{of the sac} morbid contents, & in others to have been exhaled from the Pleura itself.

The consequences arising from the presence of this serum or bloody fluid are easily foreseen. They will be in proportion to the amount of the effusion. If it

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be slight the yielding Lung will be somewhat encroached upon & its volume will be lessened. But if the inflammation has been extensive & its ~~volume~~ products abundant, the Lung will be compressed & forced towards its root & will be seen, resting by the side of the vertebral column, entirely collapsed & containing no air. The mediastinum will have been thrust out of its natural location & may be found upon the healthy side. The intercostal depressions will be obliterated. The diaphragm will be pushed downwards & thus the size of the abdominal cavity will be lessened & the situation of its viscera will be interfered with. When the Lung has been very much compressed it sometimes assumes the form of a thin cake &, being divested of its cellular tissue, resembles a half putrid muscle. It is then said to be carnified.

The first part of the book is devoted to a general
description of the country and its inhabitants.
The second part contains a detailed account of the
history of the country from the earliest times
to the present day. The third part is a
description of the natural resources of the
country and the manner in which they are
utilized. The fourth part is a description of the
social and political condition of the country
at the present time. The fifth part is a
description of the climate and the diseases
prevalent in the country. The sixth part is a
description of the agriculture and the
commerce of the country. The seventh part is a
description of the arts and manufactures of the
country. The eighth part is a description of the
education and the literature of the country.
The ninth part is a description of the
religion and the moral condition of the
country. The tenth part is a description of the
military and naval strength of the country.
The eleventh part is a description of the
public works and the public buildings of the
country. The twelfth part is a description of the
public institutions and the public charities of the
country. The thirteenth part is a description of the
public revenue and the public expenditure of the
country. The fourteenth part is a description of the
public debt and the public credit of the country.
The fifteenth part is a description of the
public opinion and the public sentiment of the
country. The sixteenth part is a description of the
public spirit and the public energy of the
country. The seventeenth part is a description of the
public character and the public conduct of the
country. The eighteenth part is a description of the
public manners and the public customs of the
country. The nineteenth part is a description of the
public habits and the public vices of the
country. The twentieth part is a description of the
public virtues and the public merits of the
country.

We have noticed the different events of inflammation of the Pleura - but there remains an alteration in its appearance of which we have not yet spoken - viz. redness. Could we often have opportunities of searching for it in cases of the incipient disease we should in all probability, never fail to find it. It is redness, not of the serous coat itself, but is caused by the injection of the sub-serous cellular tissue.

Let us call to remembrance some of the general symptoms which would announce to us that this malady was reigning in the thorax, whose peculiar province it is not only to subvert & destroy the functions of viscera so vitally important to the enjoyment ^{of life}, but also to create new tissues which are entirely useless & harmful & whose existence could never have been designed by mans great architect.

The general signs of the disease are pain,

The first part of the paper is devoted to a
 description of the various species of
 plants which are found in the
 country. The second part is
 devoted to a description of the
 animals which are found in the
 country. The third part is
 devoted to a description of the
 minerals which are found in the
 country. The fourth part is
 devoted to a description of the
 climate of the country. The fifth
 part is devoted to a description
 of the population of the country.
 The sixth part is devoted to a
 description of the commerce of
 the country. The seventh part
 is devoted to a description of
 the government of the country.
 The eighth part is devoted to
 a description of the history of
 the country. The ninth part is
 devoted to a description of the
 geography of the country. The
 tenth part is devoted to a
 description of the natural history
 of the country.

preceded or accompanied by rigors - cough -
 embarrassment of respiration - fever & in-
 -ability or unwillingness to assume ^{certain} attitudes.

These, as we have said, are the general symp-
 -toms, but if our knowledge stopped here
 we should still be liable frequently to fall
 into error & our diagnosis would often
 be unsatisfactory or incorrect. Here, how-
 ever, Percussion & Auscultation come to
 our relief. Of the knowledge which they
 afford us we shall speak hereafter, we shall
 now review in few words the symptoms
 which we have enumerated above.

First - as to the Pain. It is of a sharp, lan-
 -cinating character & is felt whenever
 in the performance of respiration the
 thorax is expanded beyond a certain
 limit. This feeling of being stabbed or
stick, as it has been aptly denominated
 is generally experienced in that portion of
 the Chest which corresponds to the lateral

The first thing I noticed when I stepped
 out of the car was a sense of freedom.
 The air was crisp and clean, a stark
 contrast to the smoggy atmosphere of
 the city. I took a deep breath, savoring
 the scent of pine and earth. The sun
 was shining brightly, casting long
 shadows on the road ahead. I felt a
 sense of purpose and direction, as if
 I had finally found my way out of
 the maze of traffic and noise. The
 landscape was beautiful, with rolling
 hills and a clear blue sky. I
 couldn't help but smile as I drove
 along, feeling a sense of peace and
 tranquility. The world seemed so
 much better here, away from the
 chaos and stress of city life. I
 was finally home.

attachments of the diaphragm. Why the
 pain, which is sometimes dependant upon
 so extensive an inflammation, should be restrict-
 -ed to so small a sphere we are unable to deter-
 -mine. Sometimes again it is felt in the shoulder
 - under the sternum - in the hypochondrium
 - or, where our reason would have induced
 us to expect, along the whole side of the chest.
 This pain is increased by ~~pressure~~ cough-
 -ing - by some postures of the body & in short
 by any circumstance which may cause pres-
 -sure upon the inflamed part.

Cough is another symptom of acute Pleu-
 -risy. It is a frequent attendant of the de-
 -sease, though not a constant one. It is
 not of a loud or explosive kind, but on the con-
 -trary is mostly low & half suppressed. The
 cough alone affords us but little pathological
 information, but the appearance of the mat-
 -ter expectorated frequently denotes to us
 that the original disease has become com-

plicated by the presence of another.

We have said that the respiration was embarrassed. Indeed there are obvious moral as well as physical reasons why it should be so. The bulk of a Lung being in many cases considerably lessened - or perhaps one whole Lung being so compressed as to be impermeable to air, it follows as a necessary consequence that the supply of Oxygen, which is so requisite to the due arterialization of the blood, will be partly cut off. This happens, too, at a time when the heart, under the stimulus of inflammatory fever, is contracting with far more than its accustomed ~~rate~~ frequency & is forcing the blood to the Lungs with more than usual rapidity. The result is Dyspnoea. Again - Suppose that the effusion was not sufficient to essentially decrease the size of the Lung but that the patient suffered from the lancinating pain,

of which we have spoken, whenever he inspired beyond a certain extent. He would instinctively avoid thus expanding the chest & Nature would be required to make up in frequency what she lost in the length of the inspirations. Caeteris paribus, the Dyspnoea is said to be greatest when the effusion has been sudden.

The febrile movement in the outset of the disease is often considerable. The pulse is remarkable for its hardness & is of advantage to us in discriminating between this & other maladies.

With regard to the posture of the patient & his inability to assume certain attitudes much has been written. Most writers on Pleurisy deem it worthy of notice, yet they are far from agreeing with each other as to what this posture is. Some affirm that the patient lies upon the affected side - some assert that he prefers

of which we have seen the evidence in the
light of a certain extent. It is not
only a matter of fact, but of principle,
that we should be prepared to meet
any event that may occur in the light of the
experience that we have had in the past.
The only way to do this is to be
prepared to meet any event that may
occur in the light of the experience that
we have had in the past.

The only way to do this is to be
prepared to meet any event that may
occur in the light of the experience that
we have had in the past.

With regard to the question of the
right to be consulted in the matter of
the proposed changes in the constitution,
it is not a matter of principle, but of
fact, that we should be prepared to
meet any event that may occur in the
light of the experience that we have
had in the past.

the healthy side ~~&~~ whilst others take a medium ground & declare that at one period of the disease he reclines upon the sound & at another upon the healthy side. This we believe to be the most probable view but are willing to consider it as ad huc sub judice.

This much for the general symptoms. They afford us much information but they cannot be said to be pathognomonic of the disease. We have other resources upon which we may rely. There are other means by which we can detect the mischief that is going on - viz. by physical signs. These naturally resolve themselves into those which you derive from mere inspection of the chest & those which are obtained through auscultation & percussion.

Upon inspection of the Chest the changes in its appearance will depend upon the amount of the inflammation & the stage of the disease.

the history of the world is a
 long and tedious story that
 of the lives of our fathers
 & of another upon the earth
 we believe to be the most
 but we are willing to consider it as a

our fathers

The world for the most part
 is full of a mass of ignorance
 and is now to be distinguished
 by the name of barbarians
 who are in the possession of
 the earth. They are ignorant
 of the world, and are in a
 state of nature, and are
 in a state of nature, and are
 in a state of nature, and are

These are the people who
 are in a state of nature, and are

If we see the patient very early we will notice that the healthy side alone expands ~~in~~ at each inspiration. He keeps the lung which is enveloped by the diseased pleura as still as he can. He dares not expand it for fear of the acute pain which he would suffer. The alterations are most marked, at a later period, when the effusion has been abundant & has neither been absorbed nor discharged. The diseased half of the thorax will be distended & will be larger by actual measurement than the healthy half. The intercostal spaces will have risen to a level with the intermediate ribs & fluctuation may in many instances be detected. The ribs of the affected side will be elevated & appear as though the patient had taken a full inspiration. But there is another condition of the thorax which is the very opposite to this. We refer to that form which is styled by Dr. Watson "retraction of one side of the chest."

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It is met with where there has been a large accumulation of fluid, which fluid has been absorbed or removed from the pleura. Where the lung, bound down by adventitious membrane, fails to expand & fill up the space it formerly occupied. Under such circumstances the corresponding wall of the chest being pressed upon, on one side, by the weight of the atmosphere, whilst there is a vacuum upon the other is forced inwards. The diaphragm is thrust upwards - the shoulder is drawn downwards & it sometimes happens that the spinal column becomes laterally curved. The mediastinum is forced out of its proper place & the heart is dislocated - so to speak. These alterations will in all probability accompany the patient through life but as they do not present themselves until after the inflammation has been subdued they are indicative of no dangerous contingency. These.

The first part of the book is devoted to a general
 description of the country, its climate, soil, and
 productions. The author then proceeds to a
 detailed account of the principal cities and
 towns, and the manner in which they are
 governed. He also describes the various
 trades and manufactures, and the state of
 agriculture. The second part of the book
 contains a history of the country, from the
 earliest times to the present. The author
 relates the various revolutions, wars, and
 events, which have happened in the
 country, and the manner in which they
 have been conducted. He also describes the
 state of the country, at different periods
 of time, and the progress of its
 improvement. The third part of the book
 contains a description of the various
 religions, which are professed in the
 country, and the manner in which they
 are practiced. The author also describes
 the state of the sciences, and the
 progress of the arts, and the
 improvements, which have been made
 in the country, since the first part of
 the book was published. The fourth part
 of the book contains a description of the
 various customs, and manners, which
 are practiced in the country, and the
 manner in which they have changed
 since the first part of the book was
 published. The fifth part of the book
 contains a description of the various
 laws, and regulations, which are
 in force in the country, and the
 manner in which they are executed. The
 sixth part of the book contains a
 description of the various offices, and
 dignities, which are held in the
 country, and the manner in which they
 are filled. The seventh part of the
 book contains a description of the
 various orders, and societies, which
 are in existence in the country, and
 the manner in which they are
 conducted. The eighth part of the
 book contains a description of the
 various institutions, which are
 in existence in the country, and
 the manner in which they are
 supported. The ninth part of the
 book contains a description of the
 various charities, and hospitals, which
 are in existence in the country, and
 the manner in which they are
 supported. The tenth part of the
 book contains a description of the
 various public works, and
 improvements, which are in
 progress in the country, and the
 manner in which they are
 conducted.

There is another characteristic of pleuritic effusion which can be felt if it cannot be seen. If ones hand be laid upon the parietes of the chest in its natural & healthy condition he will feel a vibratory thrill communicated when the person speaks. When one of the pleura has been distended with fluid & the lung has ceased in the performance of its functions no such vibratory thrill will be met with. This deviation from its usual condition is rendered apparent by contrasting the healthy with the diseased side. In some very rare instances no vocal thrill is communicated during health. Then, of course, we shall be deprived of the benefit of that which is otherwise an important & easily ascertained sign.

Let us now see what auscultation & percussion will teach us in regard to this disease. If the ear be laid close upon the surface

There is a great deal of
writing in this book, but
it is all very faint and
hardly legible. The
text is written in a
hand that is very
difficult to read. It
seems to be a copy of
some old documents, but
the ink is so faded that
it is impossible to
transcribe the words.
The only thing that
can be seen is the
general outline of the
sentences. The paper is
yellowed with age, and
there are many stains
and spots on it. The
binding is also very
worn and the edges are
frayed. It is a pity
that such a valuable
document should be in
such a state of
decay.

of the healthy chest the air will be heard to enter into & to fill the lungs & then to retire again & leave them. This is a kind of rustling or murmuring sound & is called the respiratory murmur. When the lung has been compressed by effusion this respiratory will be modified or disappear, both because there is less air entering into the lung & also because the lung is pushed in towards the vertebral column & is consequently farther removed from the ear. When the effusion has been very great the air will be squeezed out of the air cells & there will be no respiratory murmur on that side whilst upon the other it will be far more noisy than is natural. If there be not too much liquid within the chest acoustic principles will enable us to detect bronchial respiration, ^{or tubular breathing} as it has been called & bronchophony or tubular speaking. This bronchophony undergoes in Pleurisy curious

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modifications. Instead of its usual sound ~~then~~ we hear a "twanging vibration, a cracked, discordant tremor, resembling the squeak of Punchinello or, as some think, the bleating of a goat." This is termed Aegophony & is heard in no other disease. This striking modification of the voice as heard within the thorax is most distinctly audible beneath the inferior angle of the scapula & it is necessary for its production that ^{the} fluid should not be too abundant.

As soon as ~~the~~ fluid has been exhaled into the cavity of the pleura there will be a diminution of the hollow sound it was accustomed to give back on percussion. In proportion as the quantity of the fluid increases the hollow sound will be given at a smaller portion of the chest & where it is not given there will be dulness the most absolute. This dulness may be over only the ~~the~~ most dependant parts or it may

be universal. It is interesting not only as teaching us that there has been effusion but it also demonstrates to us ~~not only~~ more forcibly than words could tell us the exact amount & situation of the fluid. If we tap upon an empty barrel we shall have the hollow sound of which we have been speaking except that in the thorax it will be slightly deadened by the presence of the lung. If we tap upon one which contains fluid we shall have the dull sound. So it is in ~~Pleurisy~~ the pleura. As high up as the fluid extends we shall have dullness, above that we shall have the hollow sound. But dullness may occur from solidification of the lung. In this case, however, the dullness must be the same in whatever position the patient may be placed. It is not so when the dullness depends upon the presence of fluid. In accordance with the laws of Hydrostatics the fluid must gravitate to the low

-est portion of the cavity. If the patient stand up it will be resting upon the diaphragm - if he lies upon his side it will be upon its dependant surface - if he stoop it will be beneath the clavicle. Thus will it change its location as the patient alters his position. As the dulness is always over the part corresponding with the fluid it must ever be like it ~~then~~ varying its situation.

Hence the difficulty of diagnosis between dulness on percussion arising from solidification of the lung & that which is symbolical of effusion into the pleura at once vanishes. There is one condition of things which may interfere with the ~~above~~ application of the above truths - that is, where so much fluid has accumulated as to fill up entirely the diseased side of the thorax. Then change of position will effect no alteration in the universal dulness which prevails.

Then other principles must be invoked & the diagnosis can not be difficult.

The most common cause of Pleurisy is cold - especially when ^mcombined with moisture or sudden vicissitudes of temperature. It may be produced by most of those causes which occasion internal inflammation generally. It may be brought on by the irritation subsequent upon fracture of a rib or it may arise from a punctured wound. It is often, too, a consequent of other diseases. The progress & termination of the disease will be very much influenced by the manner in which it was occasioned. Sometimes air gets into the ^{pleura by the} same means which served to light up the inflammation. But it is obvious that it would be too tedious for us to attempt to notice the different forms which the disease would assume in consequence of

The first thing I should mention
 is that the weather was quite
 pleasant today. We went for a
 walk in the park and saw
 many beautiful flowers. The
 children were very happy and
 played for hours. We also
 had a picnic under a big tree.
 It was a very nice day and
 we all enjoyed it very much.
 I hope to go back soon.
 The weather was perfect for
 a picnic. We had a very
 good time and the children
 were very happy. We saw
 many beautiful flowers and
 the children played for hours.
 We had a picnic under a big
 tree and it was a very nice
 day. I hope to go back soon.
 The weather was perfect for
 a picnic. We had a very
 good time and the children
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 the children played for hours.
 We had a picnic under a big
 tree and it was a very nice
 day. I hope to go back soon.

the causes which induced its inception.

Pleurisy may terminate in resolution - in adhesion - or in death. In the former first case the inflammatory symptoms subside - the liquid, if any has been effused, is absorbed. the lung expands as the liquid disappears & finally assumes its normal position. The next best termination is in adhesion. In this case the respiration remains slightly embarrassed but the patient possesses complete immunity against the recurrence of the disease upon that side of the chest. Again it may end in a shrinking inwards of the diseased side & a partial or entire uselessness of the corresponding lung. In uncomplicated Pleurisy death is exceedingly rare, yet it may ensue. When it does the mode of dying is usually by Apnoea or Asthenia.

We should not omit to state that in inflammation of the pleura, as in all other,

inflammations accompanied by extensive febrile movement, the blood presents the buffy coat.

We now come to the consideration of that which in any malady is of the first importance & which happily in this disease is easily arrived at & may be expressed in few words - viz - the treatment. We have but to apply, mutatis mutandis the treatment of inflammation generally, especially that of an adhesive character.

The antiphlogistic regimen should be enforced in all its particulars. This is a useful & necessary collateral assistant ^{to us in our management,} but the great remedies are blood letting & mercury. Bloodletting tells in all inflammations, particularly in those of serous membranes. As soon as we have been called to see our patient & have ascertained that he has Pleurisy we should bleed him. Bleed largely & until some

marked abatement has taken place in his general symptoms or until syncope is about to supervene. If we see the patient very early we may even bleed to actual syncope.

When we see him again if the stitch in the side & the difficulty of breathing have returned & the pulse be firm & hard we should again bleed. We may accomplish much by topical abstraction of blood. Cupps & leeches may be employed with certain prospect of advantage.

Mercury from its well known property of stopping, controlling or altogether preventing the effusion of coagulable lymph is a valuable resource. It should be given with the view of its exerting its specific influence over the system. Let it be prescribed in small & repeated doses in combination with a small quantity of opium to prevent its escape by the bowels. Our indication may be expedited by having the

considered objectionable, but the
 his general appearance was
 about to improve. If we could
 say we may as well to
 then we see him again in the
 with the appearance of
 as the water is
 again that the
 by the
 I believe may be

subject of
 I am
 of
 preventing the
 is
 with the
 influence over
 in
 with a
 to
 in

mercurial ointment well rubbed into the axilla & inner side of the thighs. Tartar Emetic, which is so heroic in inflammations of mucous membranes is not so efficacious in this disease, but may be administered in nauseating doses at its commencement. It may then do good by moderating the action of the heart & arteries. By the above treatment faithfully carried out the disease may usually be speedily subdued.

After the violence of the inflammation has been overcome we often have unequivocal evidence of the presence of liquid within the thorax. We endeavour to accomplish its absorption by keeping the veins empty. The patient must live upon light diet. "The more," say Broussais, "the more the patient eats the sooner he will die." We give Mercury so as to keep the gums tender. We likewise give Diuretics & Cathartics, such as cause copious watery discharges. We may also give, with

prospect of advantage, & having in view its alterative action, the Protiodide of Mercury.

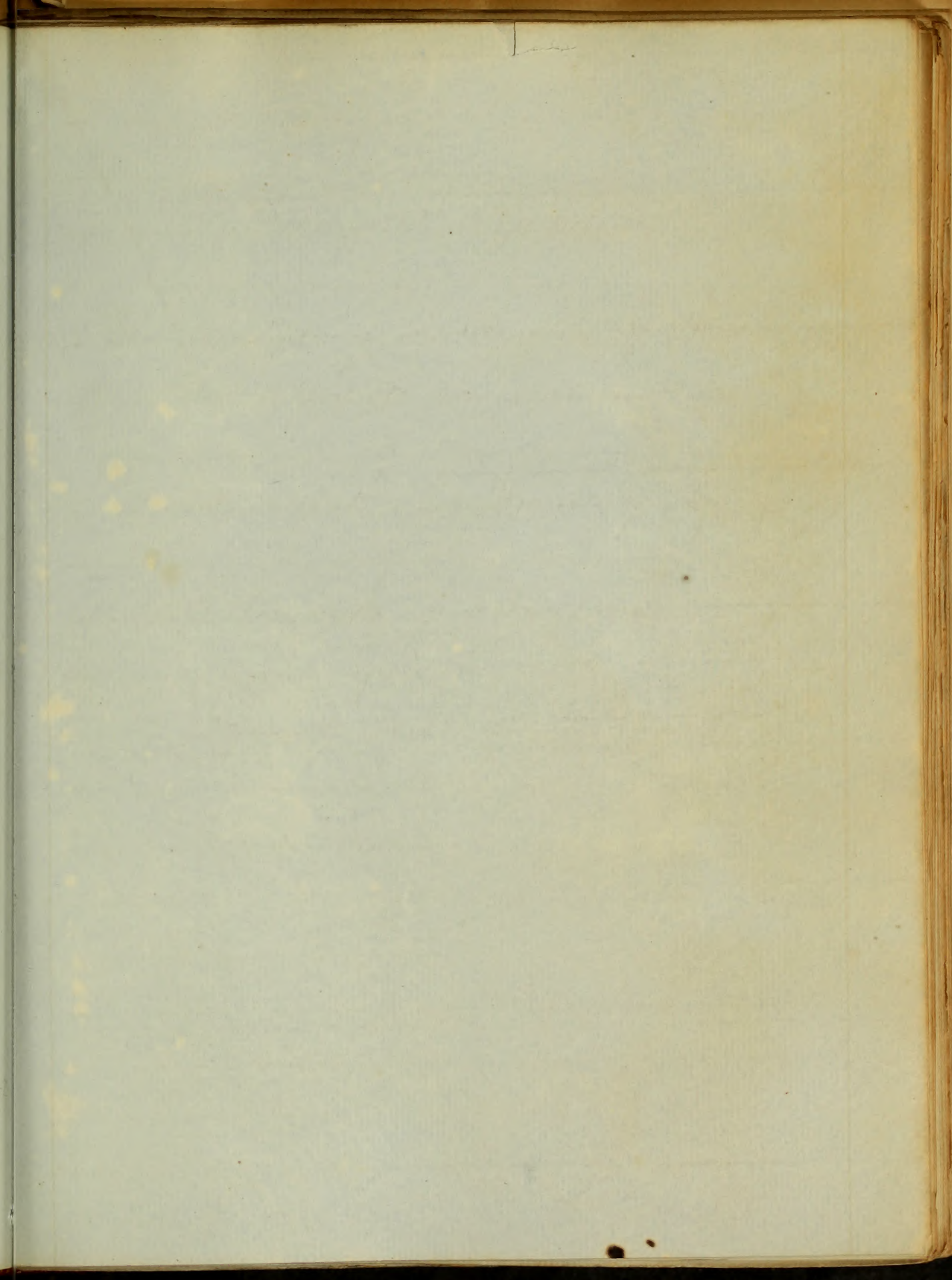
Blisters, whose efficacy in the inflammatory stage is at best doubtful, may now be employed with benefit. Under this treatment the effusion ought soon to disappear. In some instances, however, it goes on to accumulate & the patient is in imminent danger of perishing by apnoea. Or the contents of the sac may suppurate & hectic fever be set up & then if no aid be rendered he will gradually become exhausted & die from Asthenia. In such a state of affairs the operation of Paracentesis thoracis is often performed. We shall not pause to consider the mode of its performance. It is a surgical operation & in accomplishing it the surgical knowledge of the Physician will be called into requisition. The principal question which interests us, is, under what circumstances it would be admissable to tap the

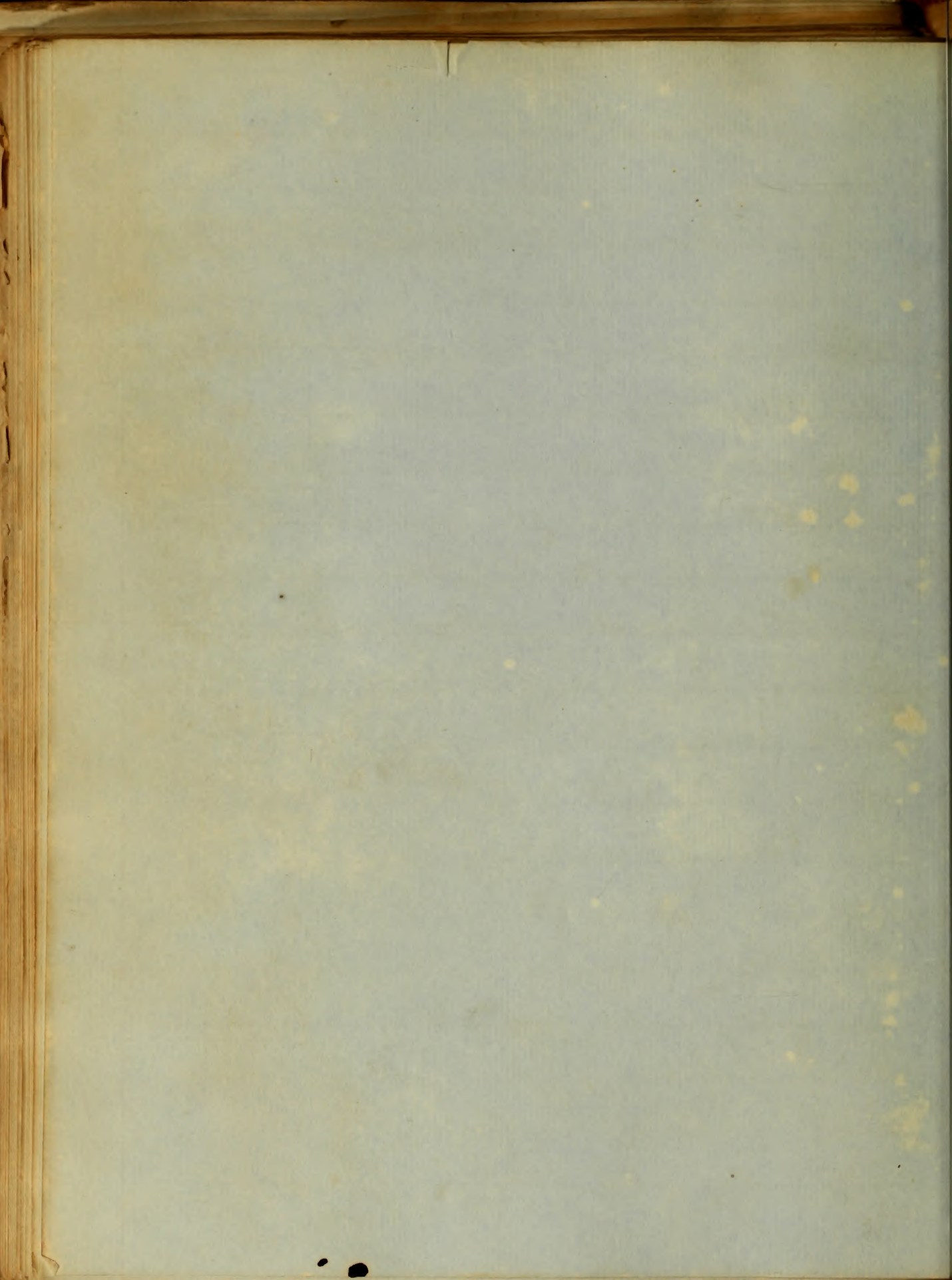
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thorax & thus subject our patient to the hazard which must inevitably accrue from the admission of air into its cavity.

We believe that it ought to be performed whenever the pressure of the fluid threatens to cause suffocation. Whenever we see the patient gradually wasting away from its effects. Lastly - we should not hesitate whenever we have ascertained that the imprisoned fluid consists of pus.

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An
Inaugural Dissertation,
On
The Principles, of the Practice of Medicine;
Submitted to the examination,
of the
Provost, Regents, and Faculty of Physic,
of the
University of Maryland;
for the
Degree, of Doctor of Medicine.

By
Geo L. Free,
of York County,
Pa,

January 28th 1878

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1

In submitting to your consideration, a few remarks on some of the general Principles; by which we should be influenced, in the Practice of Medicine: I shall notice briefly, some of the branches of Medical Science, with which we must become acquainted; before we are prepared to diagnose and treat disease; on scientific and proper principles: which alone can enable us to adopt, a successful and reasonable Practice. A knowledge of which it becomes our imperative duty to understand in all its variations that we may be able to render all the assistance in alleviating and removing the sufferings of our fellow man which our Science is able to afford. Then as conscientious, and reasonable men; we should never rest satisfied, untill we are prepared to administer, all the aid, that art will enable us to do, in the removal and cure of disease.

A knowledge of the Anatomy, and structure of the human body; will be one of the first steps, toward obtaining the requisite means; by which we shall be prepared, to detect any disease or alteration,

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in the structure or function, of any of its organs. 7

We should know the anatomy, and structure, of all the various organs of the body; their position respectively, and their relative position, in regard to each other; with the function performed by each organ, or set of organs, in the animal economy.

After having ascertained, the physiological action of all the different parts, which make up and constitute the whole body: we must in the next place, know the changes which may be produced, by disease of those organs, and the signs afforded to us, by which we are enabled to detect it; with the character, and nature of the same. If our patient is suffering from any disease of the internal viscera, it becomes a consideration of the utmost importance, to know, what part is diseased, and to what extent; also what complications, if any; with the probable cause, and the means which are calculated, to remove the same, and effect a cure.

In diseases of the chest, which are of so great a variety, and often requiring the most minute

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investigation and discrimination; to make a proper M
 diagnosis of the particular disease, which may be
 existing in that cavity: which can only be obtained
 satisfactorily, by a skillfull application of the ~~means~~
 physical means, of diagnosis of disease of those organs.

Diseases or affections of the heart, are generally char-
 acterised by excited or over action in that organ;
 which may be the effect of different causes, as in organ-
 ic disease of some part of its structure, its action
 will be laboured and excitable; but we may ^{have} ⁱⁿ⁻
 creased action produced, by inflamation of some of
 its appendages, or it may sympathetic: also a very com-
 mon cause is debility of the system generally; with
 a knowledge of these facts it becomes an important
 consideration, to know the cause which produces
 the palpitation or over action of that organ, that we
 may be able to effect a cure, by removing the cause.

The frequency of its action, in a debilitated condition
 of the system, may be accounted for, from the fact,
 that, the quality of the blood, has become so altered;
 that the proper nourishment or stimulus, is not

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afforded to the heart and vascular system to keep up 4
 their wanted action or tone; but by ^{being} weakened and
 relaxed it endeavours to make up its want of power
 by increase in frequency of action, which often amounts
 to great violence upon the patient exercising himself
 too freely.

It will therefore be an important considera-
 tion, in our practice or Medical treatment; to ascertain
 the cause which produces, the irregular or excited
 action. Thus in ^{the} treatment of all diseases, it should
 be our first and grand object, to ascertain the produ-
 cing cause, and adopt a corresponding treatment

Affections of the heart, dependendent on debility,
 though they are often very alarming to the patient,
 are generally quite under the control of treatment.

Our first object will be to strengthen the system
 generally, by which means we will bring about a
 healthy action; by giving proper tone to all the organs
 of the body, for the performance of all their differ-
 ent functions. One of the best remedies which we
 can make use of in these cases is some of the prep-
 arations of iron. Volletts Proto. Carb. or the Liguor Ferri Sodidi

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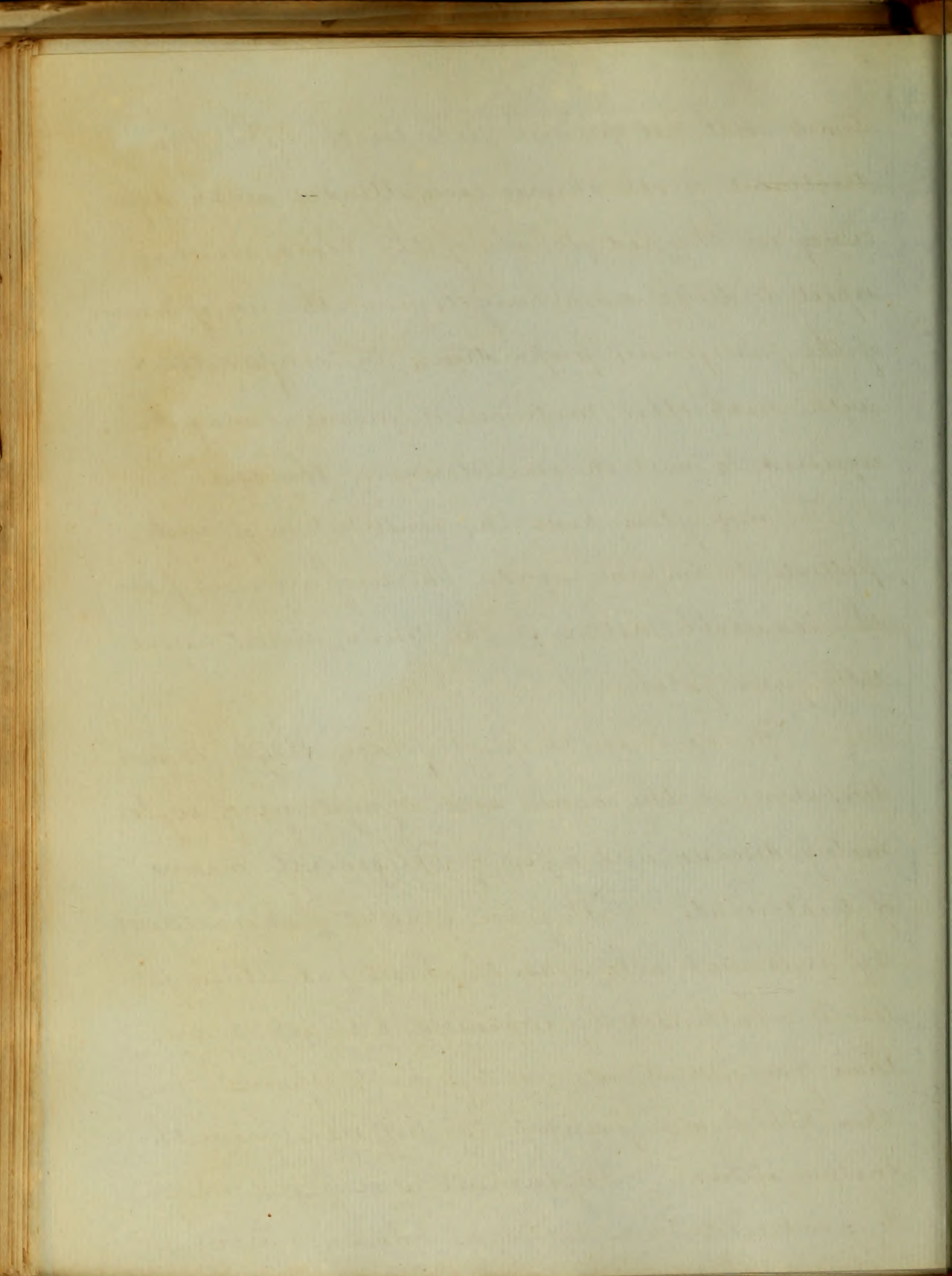
are as good as any of the Chalybeate preparations, used in conjunction with other remedies, as the nature of the case may require. The heart will return to its normal action, when proper tone and vigor, are again restored to the system. The principle upon which the preparations of iron, exert such a beneficial influence, in anemic or debilitated cases; is dependent on a specific action of that metal, on the blood, by increasing its red globules: which contain some salt of iron, by which the arterIALIZATION of the blood, is effected; it having a great affinity for oxygen, which acts as a stimulus, to the whole body, producing healthy action, in all its parts. The more iron there existing in the blood, the more oxygen will be absorbed; and the more carbon will then be demanded, and an increase in the quantity of food, will be required; to afford the necessary amount of carbon. Thus we will be able to restore the system, to the proper healthy tone, required for the performance, of its various functions; and thereby remove, various morbid actions, of which our

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limits will not permit us to treat. In the 6
 treatment of all chronic cases, attended with defi-
 ciency in the red globules of the blood, we may
 expect to derive some benefit, from the use of some
 of the ferruginous preparations; in conjunction
 with such other medicines, or means, as may be
 required to meet the circumstances of the case.

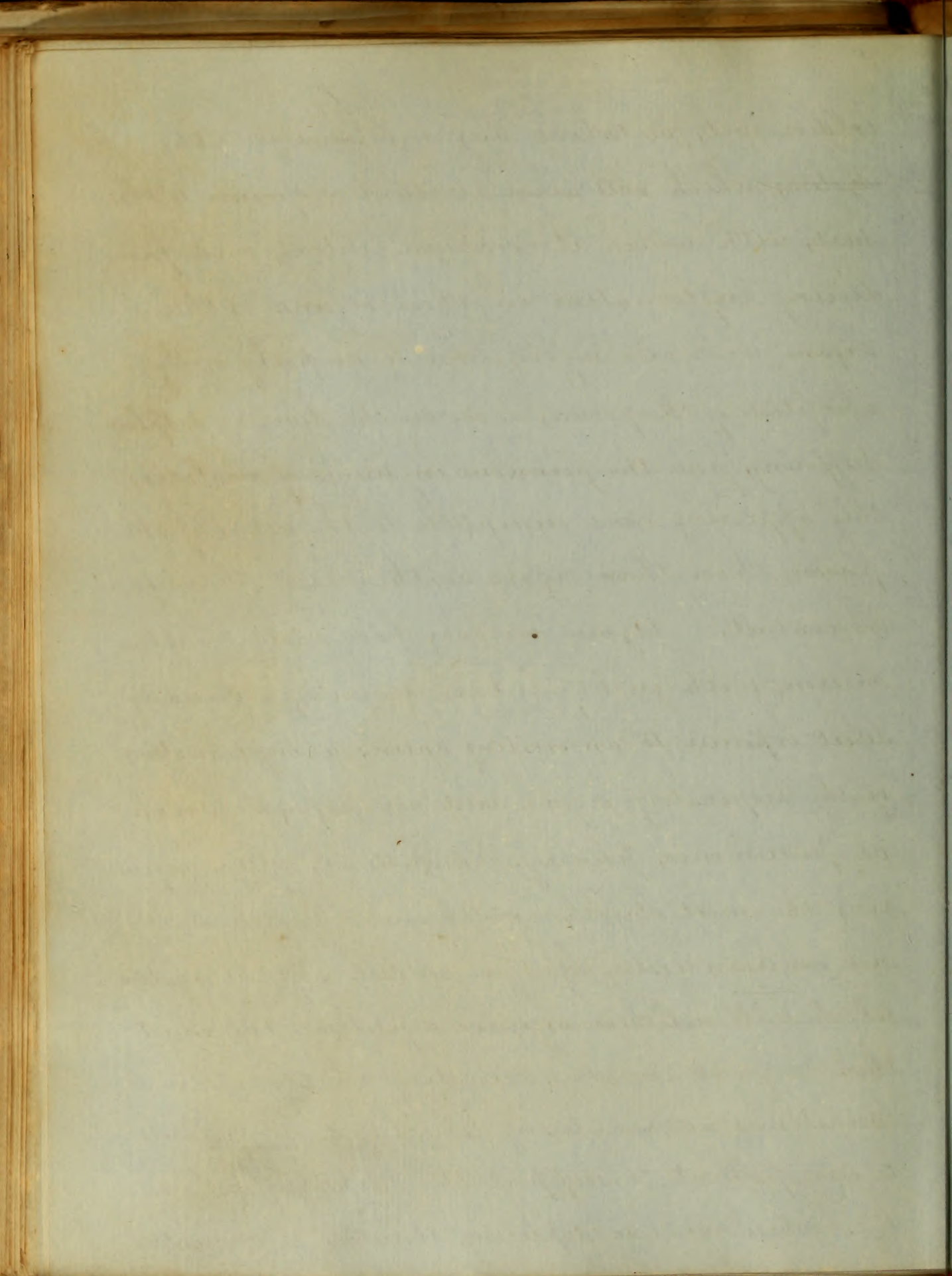
We may often have the constitution of such
 patients to improve under the use of iron, yet from
 the incurable nature of the disease, must inevi-
 tably prove fatal.

We come in the next place, briefly to no-
 tice, some of the causes and symptoms, of infla-
 matory diseases; and a few of the general means
 of treatment. They are generally characterised
 by increased action in the heart and arteries, fol-
 lowed or attended by increased heat, which we
 term fever; and more or less pain especially in
 those ^{organs} which are principally suffering from the
 inflammation. Inflammation or fever may
 be produced, by a variety of causes, such as,



7

cold or wet, or taking any substance into the system; which acts as an irritant or poison to the parts, with which it comes in contact, and producing inflammation in those organs. Other organs will also suffer, either by sympathy or by absorption of the poison; as we see the liver and spleen suffering, from the poisonous influence of malaria; they appearing more susceptible to the action of the poison, than those organs with which it comes in contact. Again we may have violent inflammation, with great febrile excitement, produced by direct exposure to an exciting cause; as inflammation of the respiratory organs, and air passages: such as pneumonia, pleurisy, bronchitis &c, often requiring the most strictly antiphlogistic treatment, if not contraindicated, by some condition of the system which will not bear excessive depletion: We must then vary our remedies, according to circumstances. Sometimes administering tonics and stimulants to our patient, to support the sinking powers of life: while we use depleting, sedative, or nauseating,



remedies to reduce the inflammation, and subdue the disease. Those of an acute character, attended with great pain and febrile excitement; as a general rule we employ antiphlogistic remedies, such as bloodletting, emetics, cathartics, nauseants, anodynes, and such other means as may be required to relieve the patient, and remove the disease.

But we should be aware that many acute and febrile, or inflammatory diseases, will not bear great depletion, especially venesection.

In the treatment of fever, if it be one likely to assume a typhoid form; or where a sudden sinking of the powers, of life may occur: if we employed the lancet, we should use it with the greatest caution; although the febrile excitement may be very considerable, and we might expect to derive benefit, from its employment; yet, we should make use of other means, to subdue the inflammation; and reserve all the strength, we possibly can for our patients, that we may be the better prepared to support them, when the

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stage of prostration occurs. Some of the exanthematous fevers are of this character, among which is scarlatina Maligna, a very common disease; proving very fatal in many cases, where the lancet is too much employed. Again in acute and painful affections, where we might expect to relieve the violent symptoms of the disease, by bleeding; as in acute articular rheumatism: yet when we know there may be a metastasis of the local pains, to some internal or vital organ, and thereby making the case a much more grave one; we should then ^{be} cautious in ^{its} employment, and not hazard so unfavourable an occurrence.

When we are about to prescribe for a patient, suffering from some morbid derangement in the system; we should in the first place ascertain the cause and seat of the complaint.

That we should endeavour to ascertain, whether the parts affected, are suffering from derangement of function, or structural lesion; and to

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what extent the alteration, has taken place.

If we have then made a proper diagnosis of the case, and know the pathology and nature of the disease: then with a proper knowledge of the medicines or means, which are required for its cure; we will be prepared to adopt such a course of treatment, as will be most likely to prove beneficial, and result in a happy issue.

When we have a patient that has suffered from an acute or tedious attack of disease, which has left him very much reduced; we should not trust to the unaided powers of nature, (which are so much exhausted) to restore him again to health: but we should employ such means, as are calculated to give energy and tone, to the system. This is a consideration which seems to be too much neglected, by many Physicians, who permit their patients to linger on for a length of time, without assisting the feeble efforts of nature, to restore strength and tone to the system; which it often fails to do; and some chronic disease becomes established in the system, and ultimately carries off the

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patient, and which might often have been prevented, 11
 if proper means had been employed in time; this we
 believe to be the cause, of so many chronic diseases oc-
 ccurring, after severe attacks of sickness.

The principal means which we employ, as medi-
 cines, to assist the feeble efforts of nature, in restoring
 proper tone and healthy action, to all the organs of
 the body, when great debility exists; are the class of
 Medicines called tonics, which invigorate and give
 tone to all the functions of the system.

These are ^{an} class of medicines, of which Physicians
 entertain very different opinions, in regard to their
 action; some contending that all tonics are stimu-
 lant, and that all stimulants are tonic: now we
 will not pretend to deny, that tonics may not be
 stimulant, or that a stimulant may not be
 tonic; but that they are not necessarily so. Many
 of the substances belonging to the class of tonics are
 possessed of stimulant, and tonic properties combined;
 as in the aromatic tonics: but we may have a
 tonic united with a sedative, as the *Prunus Virginiana*;

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or we may have them united with astringents, 12
 as in the vegetable tonics which contain tannin;
 and also in many of the mineral tonics.

We conceive the action of tonics and stimulants, to
 be very different, though both acting on the nervous
 system. Stimulants excite nervous action, and call
 forth nervous influence; by which means the pow-
 ers of life, are elevated for a time; but will eventu-
 ally sink, below what they were, before the stimu-
 lant was employed: in consequence of the nervous
 influence being exhausted. Tonics instead of increas-
 ing immediately, the energy of the nervous system, or
 exciting it to action; give tone^{to} the nerves which is
 more permanent, by supplying nervous power, up-
 on which all organic ^{action} must depend.

In a practical point of view, it is of the utmost
 importance, to make a proper discrimination, in their
 action; otherwise we might be deterred from using
 them, when they would be of incalculable value;
 if we laboured under the idea, that all tonics were
 necessarily stimulants, and therefore inapplicable.

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In the treatment of all cases attended with debility; Tonics of some kind, are among our most efficient means of cure; combined with such other remedies, as circumstances may require. Remedies which we term antiphlogistic, are those means which we employ for subduing inflammatory, or febrile action, in the system: they are numerous and of various kinds; Some of the most important of which, are blood-letting, cathartics, emetics, nauseants, sedatives, anodynes, revulsives, &c. Blood-letting is one of the most powerful agents, which we possess, for reducing excessive and excited action, in the circulatory system.

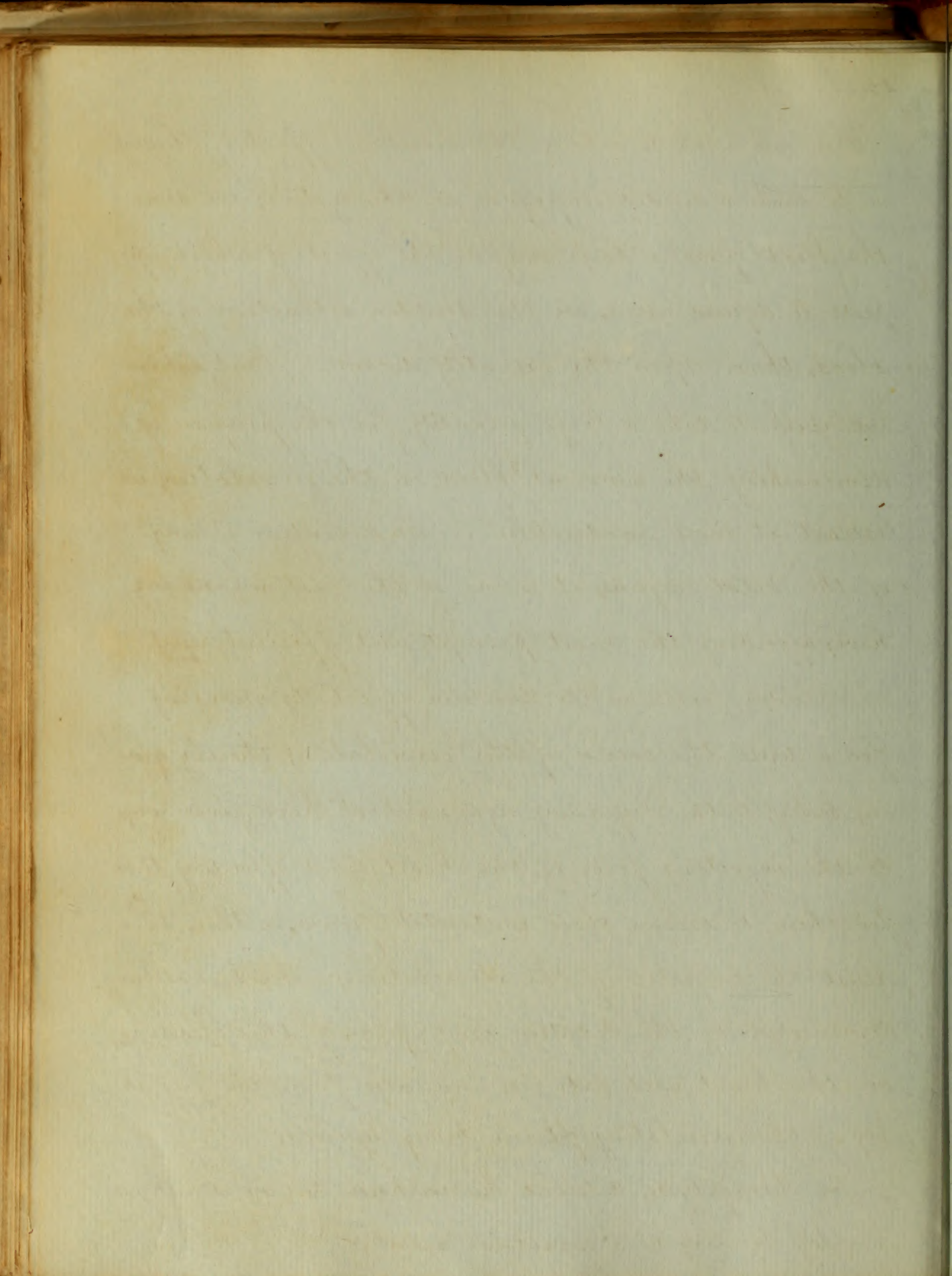
We sometimes employ it for the purpose of producing relaxation, of the muscular system; where there exists great rigidity of the muscular fibre: as in adjusting a dislocation, where the patient is strong and robust, we may use bleeding for overcoming the resistance of the muscles. It is also a valuable agent, in tedious or protracted cases of parturition; where delivery cannot be effected, in consequence of the resistance of the parts.

The first part of the book is devoted to a general
 introduction of the subject, and to a description of the
 various kinds of plants which are found in the
 country. The second part is a description of the
 various kinds of animals which are found in the
 country. The third part is a description of the
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 country. The fourth part is a description of the
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 various kinds of animals which are found in the
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 various kinds of minerals which are found in the
 country. The ninth part is a description of the
 various kinds of rocks which are found in the
 country. The tenth part is a description of the
 various kinds of fossils which are found in the
 country.

When we wish to obtain the revulsive effect of bleeding, or to make a decided impression on the system; we draw the blood from a large orifice, the effect of which appears to depend more, on the sudden extraction of the blood, than upon the quantity drawn. But when we wish to take a large quantity, for the purpose of diminishing the amount of blood, in the circulation, we extract it more moderately. In congestion of any of the vital organs, it is one of the best means we have; affording the most prompt, and efficient relief.

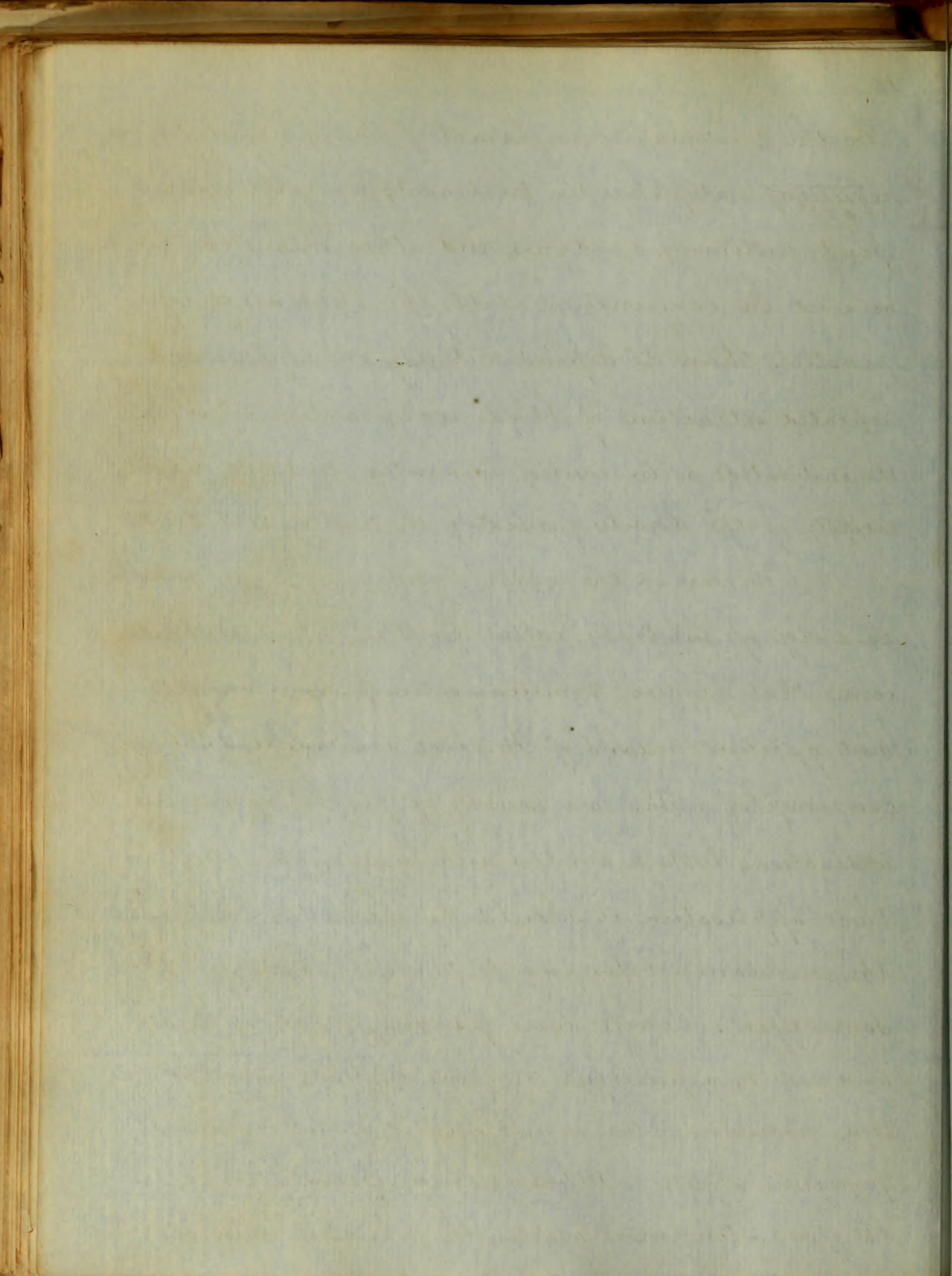
Bleeding exercises its revulsive effect, by changing for a time the course of the circulation; thereby giving relief, to the suffering organs which have given way, to the injecting force of the heart: and affording time for them to recover their contractile power, or tone, to resist the impetus of the circulation; which has been diminished by the sedative impression of the bleeding on the heart and arteries, and also from the quantity of the circulating fluid, being lessened.

In hemoptysis, uterine hemorrhages, &c. we sometimes employ bleeding as a revulsive agent.



In the treatment of inflamatory and painful diseases, 15
 requiring antiphlogistic treatment; we will generally
 find antimony, anodynes, and other means combined,
 or used in conjunction with the bleeding; a safer
 practice, than to depend entirely, on copious and
 repeated extractions of blood: unless antimony is con-
 tra-indicated; as in cases of infamation, tenderness, or irri-
 tability, of the bowels; forbidding the use of that agent.

We come in the next place, to make a few remarks
 on a class of substances called Emetics; which are med-
 icines that produce vomiting, often proving one of the
 most efficient means of Medical treatment, that we
 can employ. They are capable of fulfilling various
 indications, both as emetics and nauseants. But in
 their application it should be recollected, that all
 the substances belonging to the class, have not the
 same effect: While some produce great nausea,
 and excite, a powerful depressing influence on the sys-
 tem, producing often a very decided revulsive, or anti-
 phlogistic effect. Others act more promptly, and are
 therefore often more applicab; where we wish to



empty the stomach as speedily as possible, in cases where some irritating, or poisonous substance, has been swallowed. We often resort to emetics in engorgement of the internal viscera, especially the liver and lungs: where they appear to exercise not only a relaxing influence; but also a mechanical effect, produced by the action of the muscles, exercised in vomiting; the first effect being that of nausea, promotes the flow of ^{the} natural secretions, of the organs. The second or mechanical effect, being that of compression, assists in the expulsion of the morbid or unnatural secretions, which have been collected or retained in the organs;

And the expulsion of which, is often one of the most desirable objects, which we wish to accomplish. In some affections of the respiratory organs, emetics are among our chief means of treatment. Those diseases of the lungs or air passages, where an excessive secretion of viscid mucus is deposited, or retained; or where there is a formation of false membrane, we then wish to procure their full action, as emetics and nauseants, and select such as are capable of fulfilling

those indications. In the choice of the particular substance which we should employ, we must be guided by the nature of the particular case we are treating. When we wish to make a decided impression on the general system, Tartar emetic is one of the most certain we can use. In spasmodic affections of the lungs, as in Asthma, where we desire the nauseating effect ^{of the} medicine, we may employ Lobelia. But where we wish to produce a very prompt, and speedy emesis, for the purpose of expelling the contents of the stomach; the sulphate of Zinc or Copper, may be the most efficient. The substances belonging to this class of Medicines, are capable of fulfilling various other indications, besides that of emetics, and nauseants; according to the manner or doses, in which they are administered.

Cathartics are Medicines of more general application than any other single class of Substances. Some of the most important Medicines, which we possess, belong to this class; and are capable of producing a greater variety of action, and fulfilling more indications,

than any other division, of the *Materia Medica*; many of which our limits will not permit us to mention. 18

Cathartics are substances, which will produce an evacuation of the contents of the intestinal canal, by the natural passage; they are remedies capable of exerting a very decided effect, on the system generally; or merely removing any offending or retained matter, that may be lodged in the bowels. In the treatment of many diseases, purgatives, are our ~~most~~ principal, and most efficient means of treatment. As revulsive or excitant agents, they often prove beneficial, in checking the course of the disease, by ~~the~~ their irritant or excitant action upon the bowels; which revulsive effect may change the tendency of the disease, and thereby enable us to remove ~~it~~ ~~disease~~.

Different substances, belonging to the class of cathartics, are capable of producing very different results.

In the treatment of Hydropic affections, we employ those which are of a drastic character, producing copious and watery stools; and which, by their exciting effect, produce absorption of the watery fluids, which may have been effused, in the cavity of the

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abdomen or thorax, or in ^{the} cellular tissues; when used in conjunction with such other remedies as may be necessary, will often finally effect a cure. Some of the substances belonging to this class, have a specific action on some part of ^{the} intestinal tube, as aloes on the large intestines. Others on some organ or particular part of the system; as Calomel, which has a specific action on the liver, and Salivary glands. Mercury then from its action on the liver, becomes useful in the treatment of inflammatory, or febrile diseases. of a bilious character, to excite action in that organ, and promote its healthy secretions. In all diseases complicated with a biliary derangement, we may expect to derive some benefit, from the use of Mercury in some part of its treatment; either employed as a cathartic, or an alterative. But Mercury should be judiciously administered, and care be taken, that it be not too freely used, as it is a medicine, which exerts a powerful influence on the system; which if incautiously used (as it too often is) may do more mischief, than good.

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In the treatment of all acute affections, we employ purgative Medicines, either as aperients, evacnants, or cathartics, during some stage of the disease.

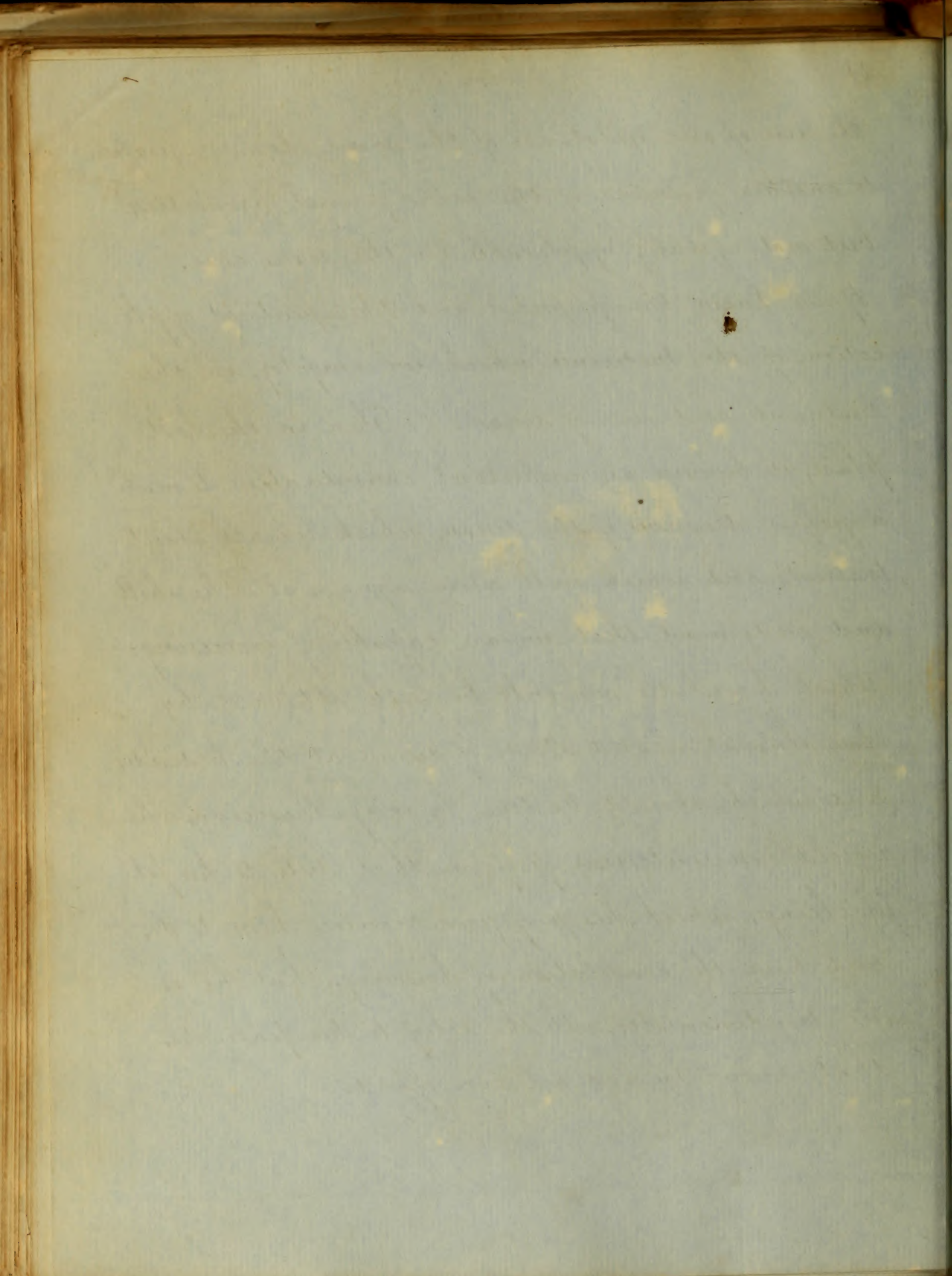
It should not be forgotten in the treatment of those diseases, which are complicated with, or likely to assume any gastric inflammation; as in ~~remittent~~ remittent, and some other fevers, that we should not keep up a purgative action, for too long a time; and should generally employ, principally, the milder cathartics; which are the least irritating; and endeavour to prevent, rather than excite any gastritis, or inflammation of the bowels.

We might go on to notice, various other classes of medicines, their properties, and therapeutical value in the treatment of disease. with some of the indications which they are capable of fulfilling, and the manner in which they appear to produce their effect, on the system. We might also notice various affections or diseases, in which their use would be required; with some of the different circumstances attending particular cases, indicating

The first part of the book is devoted to a general
 description of the country and its inhabitants.
 The second part contains a history of the
 country from the earliest times to the present
 day. The third part is a description of the
 principal cities and towns. The fourth part
 is a description of the principal rivers and
 lakes. The fifth part is a description of the
 principal mountains and hills. The sixth part
 is a description of the principal forests and
 woods. The seventh part is a description of
 the principal minerals and metals. The eighth
 part is a description of the principal
 manufactures and trades. The ninth part
 is a description of the principal customs and
 manners. The tenth part is a description of
 the principal laws and regulations. The
 eleventh part is a description of the
 principal religious and philosophical
 systems. The twelfth part is a description
 of the principal literary and scientific
 works. The thirteenth part is a description
 of the principal monuments and buildings.
 The fourteenth part is a description of the
 principal gardens and parks. The fifteenth
 part is a description of the principal
 curiosities and wonders. The sixteenth
 part is a description of the principal
 antiquities and remains. The seventeenth
 part is a description of the principal
 ruins and vestiges. The eighteenth part
 is a description of the principal
 curiosities and wonders. The nineteenth
 part is a description of the principal
 antiquities and remains. The twentieth
 part is a description of the principal
 ruins and vestiges.

the use of one substance of the same class, in preference to another possessed of the same general properties; but not equally applicable in the same case.

If we know the properties and therapeutical application, of the Medicines which we employ, in the treatment and cure of disease. Then in the last place, it becomes an important consideration, to make a proper diagnosis of the disease, which we are about to treat; and which will often require, all the skill and judgment, that we are capable of exercising: which knowledge can only be fully obtained, by close observation, and study of disease at the bed-side; and which should be done, by every Physician, who would conscientiously perform that duty to his fellow beings, which his profession requires him to do; and have the consolation of knowing, that he is able to administer, all the relief to his patients, that knowledge and art can afford.



Inaugural dissertation
on
Epilepsy
Submitted to the inspection
of the
Regents, Provost and Faculty of physic
of the
University of Maryland
for the
Degree of Doctor of Medicine
by
Benson Bond
of Maryland
Feb. 1848

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It has long been the opinion of
the most eminent of Medical Men,
that more real Knowledge may be add-
ed to Medical Science, by the revision
and illustration of those facts, which
are well authenticated and founded
on observation, than any attempt to
promulgate false Theories, or baseless
Hypotheses. Impressed with the jus-
tice of this doctrine, and the propriety
of acting upon it, I have determined
to confine myself in writing this
essay, to those general facts and most
approved of Theories, that may be col-
lected and culled from the leading
authors of the day: not attempting to
advance any new Speculations that may
be immature or superfluous within
themselves.

The first manuscript of the history of
that man was written by the
and to measure down by the
and illustration of these facts which
are noted on the side and found
in the original manuscript which
is now in the possession of the
British Museum. The paper is
of the color of the parchment
of which it is made and the
writing is in a very beautiful
hand. The paper is of a
very fine quality and the
writing is in a very beautiful
hand. The paper is of a
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writing is in a very beautiful
hand.

2

The subject that I have selected is unquestionably one of the most deplorable and distressing maladies to which the human frame is subjected, when either looked upon in its direct phenomena, or in the consideration of its remote sequelae. Though its tendency is not to the immediate destruction of life, yet its great liability to produce habitude, impairment of the intellectual faculties, total abolition of the reasoning powers, and finally ending in fatuity or dementia, (a condition more appalling than death itself) renders it an object of perpetual terror and dismay to all whom it may attack. I speak of Epilepsy.

It is impossible to give a complete definition of this disease, owing to the numerous and various forms under which it presents itself, and the differ-

ent conditions by which it is modified.

A man - says a recent eminent writer, in the apparent enjoyment of perfect health, shall suddenly utter a loud cry, and fall instantly to the ground, senseless and convulsed. He strains and struggles violently. His breathing is embarrassed or suspended; his face turgid and livid: he foams at the mouth; a choking sound is heard in his wind pipe; he appears to be at the point of death by apnoea. But presently, and by degrees, these alarming phenomena diminish, and at length cease. The patient is left exhausted, heavy, stupid, comatose; but his life is no longer threatened, and in a short time he is, to all appearances, perfectly well. The same train of morbid phenomena recur, however, again and again, at different, and mostly at irregular intervals."

9

This constitutes, I think a good description of the most ordinary forms of epilepsy; but by no means is it applicable to all of its varieties. It cannot be expected, that a disease so striking and frightful in its character, should have escaped the observation of the earliest writers. We find it accurately described by Hippocrates, Galen, Aretaeus, and other of the most eminent of Greek physicians; also by Celsus and other Latin authors. By the Romans, epilepsy was denominated *Morbus Comitialis*, from its frequent occurrence in the assemblies called *Comitia*. Hippocrates ridicules the association of supernatural influence with this disease, though he calls it *Sacred*. He observes, that if it is attributed to the Gods, its cure should be sought in the temples.

The committee have a great
desire of the most accurate
information, but as we mean to
to all of the committee. It is
rather that a review is
proposed in its substance, which
concerns the interests of the
nation. The first is necessary
to the success of the
the great committee of
physicians; also by the
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Epilepsy sometimes comes on without any previous admonition to the patient; but frequently there may be observed, prior to an attack, certain abnormal sensations, which are regarded as premonitory symptoms.

The occurrence of these warnings, are said by the most accurate observers, to take place in about one half of the cases. These premonitory symptoms differ greatly in their nature, and also in regard to the length of time they make their appearance previous to an attack of the disease.

They sometimes appear several hours or a day before; but in by far the greater number of cases, only a few moments; Sometimes giving the patient time to ward off the attack, or to place himself in such a position, that he may not be injured by the fall, or

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against the objects around him. Often they make their appearance such a short time only, before the attack, that the patient has not time to take advantage of them. The symptoms above referred to, present themselves in a variety of forms, and the sensations accompanying them differ greatly.

The patient may not be aware of any disagreeable or altered feelings; but he may, on the contrary, be more than naturally gay, lively, and cheerful; or he may be low-spirited, gloomy, and desponding. There may be increase of appetite, or total loss of it with nausea and vomiting; great activity in the secretion of the kidneys. There may be unpleasant sensations felt about the head, such as, pain with giddiness and vertigo. Often the nerves of special sense seem to

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be influenced by some morbid action,
and the patient sees unreal objects; or
his vision may be greatly impaired
or destroyed. He sometimes hears strange
sounds; unnatural odours are frequently
perceived; vomiting is a very frequent
precursor of an attack of epilepsy.

But the most strange and unnatural
phenomenon, occurring in epileptic
patients, is what has been called *Aura*
Epileptica. This sensation has been com-
pared to a stream of cold air, or the
trickling of cold water upon the
part; or to the sensation of heat,
pain, itching &c. It generally begins
in the extremities, and proceeds towards
the brain, or it may stop at the
stomach on its way from the lower
extremities, and immediately the patient
loses all consciousness, falls, and the
paroxysm commences.

It has long been supposed that this phenomenon is produced by an injury to some external part, and then transmitted along an efferent nerve to the brain; or that frequently the primary injury is seated in some other part, and transmitted sympathetically to the part whence the aura commences. After the appearance of one or more of the above described symptoms, lasting for a longer or shorter time, or without any indication of its approach, the epileptic attack, begins.

The patient falls suddenly as if struck by some unseen hand, sometimes uttering a piercing and thrilling shriek, truly horrifying to all who may hear it. There generally is also violent clonic spasms of the voluntary muscles.

The first part of the paper is devoted to a
general statement of the facts and the
principles of the case. It is then
divided into two parts. The first part
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to a statement of the facts and the
principles of the case.

9
The forehead is corrugated; The
eye-brows knit: The eyes roll from
side to side with great rapidity,
or they are turned up, so as to show
the white Sclerotic only. Frequently
they are fixed and immovable.

The muscles of the face and
mouth are contracted to one side,
presenting to a beholder an object
appalling and ludicrous: The jaws
close with great violence, grinding
the teeth, and the tongue is often
caught and violently bitten, so
that the foam that issues at the
mouth becomes bloody. The neck
is twisted laterally, or the skin is
thrown down upon the breast; these
positions may be assumed with
great rapidity. The arms and legs
are thrown about with great
violence; the thumbs and fingers

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are rigidly flexed; the muscles of the trunk are frequently affected with tonic spasms. Often during the paroxysm the urine and faeces ^{are} discharged, and there is also priapism with seminal emissions. There is paralysis of all the senses; the eyes are insensible to the brightest light; the pupils remaining uncontracted; the loudest sounds, and most fragrant odours are unperceived, and the sense of feeling is entirely destroyed. The circulation is hurried; the breathing difficult and obstructed; the face livid and suffused, and the veins of the neck greatly distended.

The heart palpitates violently, whilst the pulse is frequent, small, and irregular. Generally in the

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course of a few minutes the con-
vulsions and muscular rigidity
cease, the patient remaining coma-
tose, or he may return quietly to
his senses, and then pass off into
a profound sleep. Sometimes neither
coma nor sleep follows the attack;
but the patient returns to his ordi-
nary duty as if nothing had occurred.

Generally when he first becomes
conscious he appears confused in
thought, perplexed, and astonished;
but gradually returning to his natu-
ral condition. But there is another
form of this disease, in which the
symptoms are greatly ameliorated, or
some entirely wanting. There may be
little or no convulsion; no coma;
but mental confusion, giddiness
with loss of consciousness; this
state lasting for a few moments, and

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The patient returning to his natural condition, scarcely aware of the attack.

Sometimes he remains in whatever position he may be in when attacked; his eyes are fixed and staring vacantly; tears flow freely, and there is generally some slight contraction of the muscles of the face and hands.

This condition lasting for a short time, he recovers, and then falls into a deep sleep. That this is a form of Epilepsy, we know by its frequent occurrence in individuals who are affected with the graver form, and the great liability for the two to alternate, commencing in the milder form and passing into the graver, and vice versa. This has been called epileptic vertigo, whilst the severer the epileptic fit.

The duration of a paroxysm of Epilepsy

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differs greatly. In the milder form it lasts only a few moments; whilst in the graver form several minutes to many hours. The average duration is from five to twenty minutes. When it continues for a long time, it seems to be composed of a number of paroxysms following each other in rapid succession. The interval between the paroxysms is as various as the duration of the paroxysms themselves. After one attack there may be no recurrence of the disease at all, or at very long periods; months or years frequently may elapse. They observe no regularity whatever, at times commencing with frequent recurrences, and then diminishing. Frequently several paroxysms occur at short intervals, and then months

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elapse before another attack. In some cases regular periodicity is observed, particularly in females, when it occurs in connection with the catamenial discharge, and in miasmatic districts when it seems to be influenced by miasmatic laws.

During the intervals the patient may appear to enjoy good health; but there generally is something in his appearance, or mental condition to show us that the cerebral functions are more or less impaired. The period of life most common for the commencing of Epilepsy seems to be previous to puberty. During infancy the child is often attacked with convulsions, resembling very much those of Epilepsy, and it is said by some authors that the majority of epileptics appear to have

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been affected with convulsions
 whilst infants. During the periods
 of first and second dentition,
 Epilepsy is very apt to declare
 itself, also about the change of
 puberty; in truth it may begin
 at any period of life. The natural
 tendency of this disease is that
 of deterioration, not that any
 great alteration can be perceived
 after one attack; but that this
 disease is likely to recur again
 and again, increasing in severity with
 each recurrence. As the disease
 advances the brain becomes more
 and more disordered; the memory
 and intellect becomes greatly
 impaired, and at length the
 patient sinks into complete
 imbecility. This change is very
 gradual, and is thought by some

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authors more frequently to be preceded by the epileptic vertigo. There is generally great alteration in the appearance of an epileptic; the face assumes a brutish expression, and the features become enlarged and disproportioned. There is also disorder in the motor functions; paralysis, or permanent contraction of some of the muscles occur.

The organic functions however, remain unimpaired; the appetite and digestion are good, and the generative powers are perfect; conception and gestation are actively carried on.

Its course may be completed in a few months or years; but generally lasts for a long time; the patient may reach old age, and otherwise enjoy good health.

Dissection after death of persons who have laboured under Epilepsy reveals to

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us nothing satisfactory, or to explain the
singular nature of this disease.

We would naturally look to the brain
for some change to account for the
singular phenomena, which are obser-
ved; but there we find no lesion that
is constant or explanatory. The brain
often presents the appearance of chronic
inflammation, such as, congestion, soften-
ing &c. In cases where there has been
much impairment of the mental
faculties previously, the membranes
are often congested and reddened,
and the vessels greatly enlarged; the
white matter is softened, or hardened and
injected; the grey is also altered in its
consistency—pale or slightly reddened.

We frequently find within the
cranium exostoses, tumours, and spi-
cules of bone making pressure upon
the cerebral substance; or a universal

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thickening of the bony walls, and thus compressing its contents. Also thickening of the membranes, abscesses, effusions. The cerebellum is frequently found diseased, and making pressure on the Medulla oblongata. We frequently find lesions in the heart, lungs, alimentary canal, and liver; also gall-stones, calculi in the bladder & cetera. But none of these lesions are constant in this disease, nor would they be sufficient to indicate that the disease had existed.

The causes that have been assigned to Epilepsy are numerous.

Inheritance has been dwelt upon largely by most authors, and with some justice. For it can very often be traced in a direct line for several generations; or it may alternate and leave one or two

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generations free, and then make its appearance again among their progeny. Some peculiar malformations of the head undoubtedly may be considered as rendering one liable to this disease, particularly when it occasions pressure upon its contents. Also, in the same way may any injury done to the brain by external violence occasion it.

An attack of cerebro-meningitis is supposed by some to be among the most efficient causes. The serofulous diathesis is very common in epilepsy, and it is said by high authority, that epilepsy is as true an indication of this diathesis, as tubercular consumption, or peevishness. Any great disturbance of the cerebral functions when long continued, or in excess is apt to bring on an attack.

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Strong mental emotion of any nature, as terror, for instance, frequently induces it. In congenital cases terror in the mother during pregnancy is thought to produce it. The sight of a person in a fit of Epilepsy, particularly, when it occurs in an assembly of nervous females, not only brings on an attack in those subject to it, but frequently occasions the disease in those who were previously healthy.

The force of imitation is said to be capable of inducing it, and persons who have long feigned Epilepsy, have at length actually become affected with the disease. Monism, excess of venery, abuse of alcoholic liquors, have all been accused of producing it.

Frequently it seems to supervene upon the retrocession of cutaneous eruptions; the healing of old ulcers,

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the suppression of discharges; also upon the occurrence of profuse, or unnatural discharges. Irritating substances in the alimentary canal, as worms, indigestible matter, or accumulated faeces have been assigned as causes. The same may be said also of irritants situated in any part of the body.

This disease it appears is seated in the brain, and consists of some unnatural action, or irritation of that organ. This morbid action varies greatly in intensity, and the effect produced is in proportion to the degree of irritation, or the excitability of the brain. It may only suspend or entirely destroy cerebral action. In epilepsy it seems only sufficient to destroy mental action, whilst the motor function

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remains unimpaired, but is acted
upon by disordered volition. The ex-
citability of the brain may be so
great as to be acted upon by ordinary
causes; or the irritation may be kept
up by some unnatural impression
constantly applied, but only show-
ing itself at intervals, the brain
exhausting itself of this irritability,
at each paroxysm, and returning
to its normal condition, but be-
comes again affected as the irri-
tation accumulates. This morbid
impression may arise from some for-
eign matter acting upon the cerebral
substance, or transmitted to it sym-
pathetically from some other part
of the body.

Apoplexy and Hysteria
are the two diseases with which
Epilepsy is most likely to be confounded.

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From the former it may generally be distinguished by the convulsions; but in the latter stages they resemble more. The countenance in apoplexy is generally livid and suffused; but it is pale in Epilepsy. The duration of the latter compared with the former, and the history of the case generally forms evident criterion. In hysteria there is not that suspension of consciousness, which attends Epilepsy - The gloom hysterics, the alternate laughter and tears form distinctions. There is no coma in hysteria, nor do patients injure themselves by falls, or by biting their tongues. The breathing also is easy and smooth, not noisy and difficult as in Epilepsy.

There are various species of convulsions, as in children during dentition,

and during active inflammation of the brain, which resemble this disease, but can be distinguished by accurate observation. This disease for various reasons is frequently feigned, particularly by those wishing to excite compassion, or the pecuniary charity of the public, and by sailors and soldiers desirous of being discharged. But the imposture may be detected; for the impostor is in possession of all of his senses, and they may be variously acted upon. By blowing snuff up into the nostrils, violent sneezing may be produced, whilst in real epileptics it would have no effect. The eye may be subjected to bright light, and the pupil will contract if the disease is only simulated. Attempts may be made in the hearing of the supposed impostor, and some actually carried into execution

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which will evince the reality of the disease. The juggler generally selects the place for his exhibition where he may be seen, and where there is no probability of being injured by the fall.

The prognosis of Epilepsy is most generally unfavorable, though a disease often recovered from. Whenever it can be traced to inheritance, or when any congenital taint of constitution present, such as the Stramonium diathesis, the prognosis is bad. Also when there is associated with it malformation of the head, or when it depends upon lesions of the brain, such as tumours, abscesses, &c, the case is obstinate when the disease has lasted for a long time, or when the fits recur frequently, and is associated with impairment of the mind, or imbecility. The prognosis is more favorable when the disease has its origin from any external

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irritation, and when that irritation is removable, as when it depends upon worms in the alimentary canal, Stone in the bladder, tumour pressing upon some nerve &c. - Also when it comes on anterior to puberty; for at that period it sometimes ceases, as upon the appearance of the catamenial discharge, or after impregnation.

The disease sometimes ameliorates without any assignable reason, giving delusive hope to the patient, but generally recurring again with all of its former gravity. Amendment takes place almost under any new mode of treatment, so that practitioners should be careful, and not come to a hasty conclusion.

The treatment of Epilepsy divides itself into those means, which are adapted to the prognosis, and those which are

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to be resorted to during the interval. 27

The first thing to be done when an attack declares itself is to prevent the patient from injuring himself during the convulsions. He should be placed upon a bed with his head elevated; all his garments should be loosed, particularly those about the neck; a piece of cork should be placed between the teeth to prevent his injuring the tongue, and if the convulsions are violent and dangerous he may be restrained by the aid of assistants. When there is much congestion of the brain, or the tendency to apoplexy great, bloodletting should be resorted to; cups may be applied to the back of the neck, or temples, together with cold affusions to the head.

The extremities if cold may be immersed in warm water if practicable, or Mustard sinapisms applied to the ancles.

It is thought by some that the paroxysm may be shortened by cramping the patient's mouth with salt. Whether this has any effect, I cannot say. During the interval there may be something of more importance done towards the relief of the patient. The first thing to be attended to is to remove any real or supposed exciting cause of the disease. Secondly to attend to the general condition of the health.

If there be any marks of plethora, means should be taken to obviate it. We may in some instances bleed, but with great caution for fear of producing the opposite condition. But local bleeding may frequently be resorted to, together with saline cathartics. Strict attention must be paid to diet, and regular exercise; but should anaemia occur, we must endeavour to correct the condition of the blood by tonics. The mineral or vegetable may be used; but more

dependence is placed in the various salts of Iron, also the nitrate of Silver. But the best of all tonics is the Shower-bath; and when convenient frequent Sea-bathing should be used. The recreation of the mind and body must be obtained.

All sources of irritation must be carefully sought for and removed. The most common is worms in the alimentary canal; among this class the tape-worm and lumbricoides are principally found.

The oil of turpentine will most always effect their removal. When the liver is disordered it must be treated; or when there is gastric disturbance, or uterine derangement, remedies must be employed for their removal. In children during dentition, when the gums are much inflamed and swollen they must be lanced. Surgical operations are frequently required, when

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There are spiculae of bone, or tumours pressing²⁰
upon nerves; or when there is indentation
of the skull, the trephine is often had re-
course to, and in some cases with perfect
success. When syphilitic affections of the
head are present, Mercury and the iodide
of potassium are highly important reme-
dies. Benefit may be derived from counter-
irritants; blisters to the back of the neck,
or behind the ears, or setons and issues.

It has been recommended to make a
deep incision along the sagittal suture,
and to be kept open by means of
spine-pins, so creating a free and copious
discharge. Means must be resorted to
to diminish the excitability of the brain,
and this is best effected by tonics and
narcotics. Among the former, the nitrate
of silver possesses the greatest share of
confidence, given in doses of one fourth to
the third of a grain three times a day.

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But it must always be remembered that this remedy is capable of producing perpetual discolouration of the skin, and corrosion of the stomach. The Sulphates of copper and zinc, or the ammoniated copper may be used without as much danger as the Citrate of silver, and their effect is thought to be greatly increased by the addition of asafetida. Opium should always be combined when these salts are used. The verucate of zinc is a preparation that has become much in vogue of late, and generally found very useful, given in doses of one or two grains, and gradually increased.

The various preparations of iron have been employed; and the acetate of lead has effected many cures. The Sulphate of quinine is the most important of the vegetable tonics, and is particularly indicated when the disease presents a paroxysmal form, and occurring in malarious districts.

The first part of the book is devoted to a general
description of the country, its climate, soil, and
resources. The author then proceeds to a detailed
account of the principal towns and cities, and
describes the manners and customs of the
inhabitants. He also gives a list of the
principal occupations and manufactures of the
country. The second part of the book is
devoted to a description of the principal
rivers and lakes, and the navigation of the
country. The author describes the course of
the principal rivers, and the nature of the
navigation. He also gives a list of the
principal ports and harbours of the country.
The third part of the book is devoted to a
description of the principal mountains and hills,
and the nature of the climate. The author
describes the height of the principal mountains,
and the nature of the climate. He also gives
a list of the principal mountains and hills of
the country. The fourth part of the book is
devoted to a description of the principal
lakes and ponds, and the nature of the
navigation. The author describes the course
of the principal lakes, and the nature of the
navigation. He also gives a list of the
principal lakes and ponds of the country.

27

Valerian, assafetida, musk, camphor, and other antispasmodics have all enjoyed some reputation; but excepting the first two, they are not much employed.

Of the narcotics, Stramonium and belladonna are the most efficient. Opium may be used when there is no tendency to plethora, or congestion of the brain, however with caution. There are a great many other remedies which have been employed in the treatment of Epilepsy, such as indigo, oil of turpentine, oil of caput, phosphorus, strichnia &c.

Each, and all of these, it is probable, you may have an opportunity of trying during your treatment. There are certain precautions which should be strictly attended to in the management of Epileptics. The patient should never be allowed to visit places where there would be danger from a fall, or when there is water, particularly

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 American Board of Commissioners
for Foreign Missions, as they stand
at the present time. The names are
given in the order in which they were
appointed, and are arranged in
alphabetical order of their surnames.
The names of the persons who have
been appointed to the offices of
Secretary and Treasurer are given
in a separate list at the end of
this report.

alone. He should not sleep in a separate
apartment, or when it cannot be avoided, his
bed should be so provided as to prevent
his falling out in case a paroxysm should
occur during the night. The attacks may
be warded off frequently when the premo-
nition is sufficiently long by various means.

One is by dashing cold water over the head
and face - another, by applying ammonia to
the nose, or by interrupting the precursory
symptoms.

An
Inaugural Dissertation

on
Puerperal Fever.

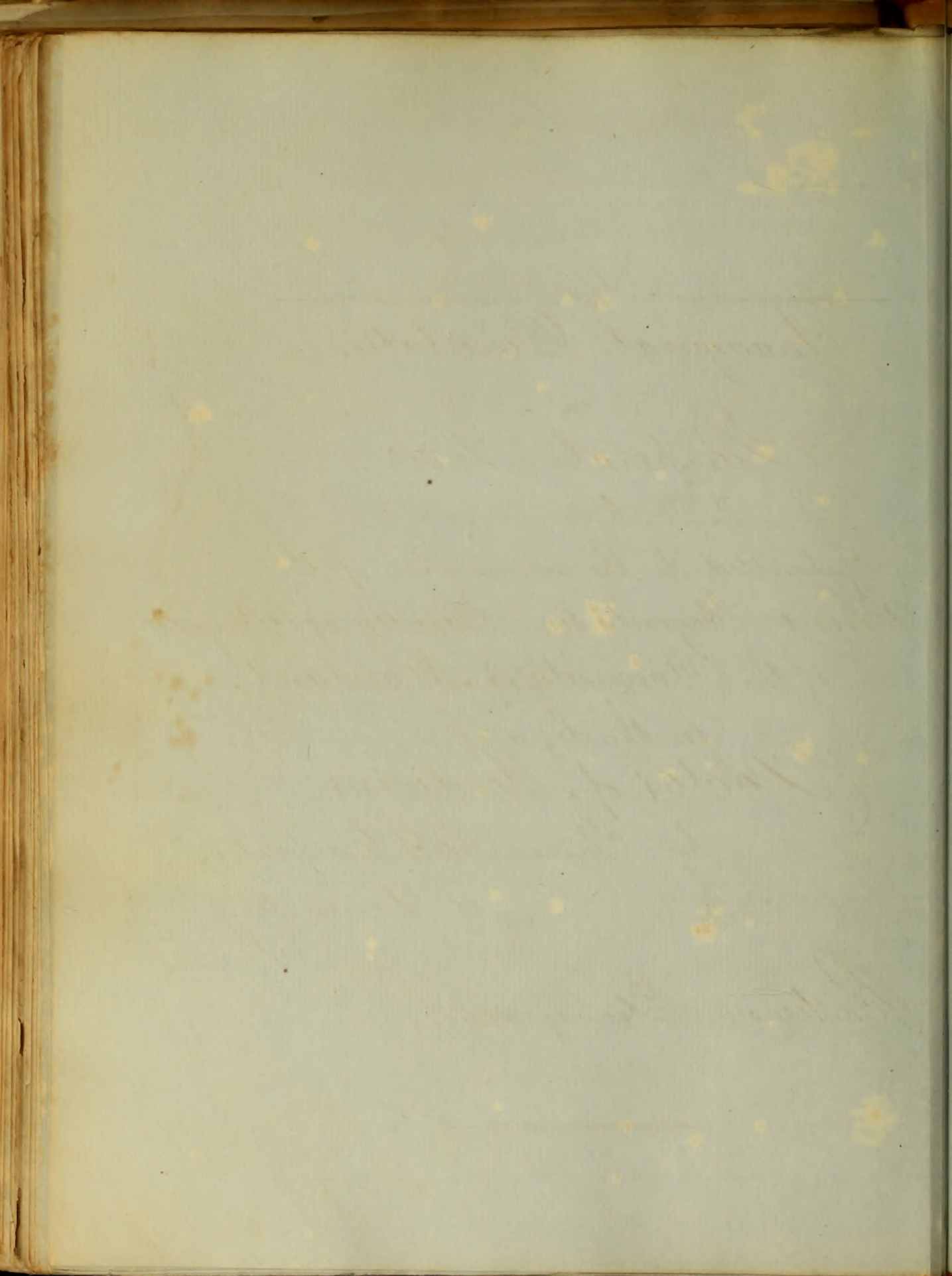
Submitted to the examination of the
Provost, Regents and Faculty of Physic
of the University of Maryland.

For the degree of
Doctor of Medicine.

by James A. S. Carpenter.

of Lancaster,
Penna.

Baltimore February 1848.



To the
Medical Faculty
of the
University of Maryland
this Thesis
is respectfully dedicated
by, the
Author.

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Gentlemen

The period of my pupulage being now about to expire, and it being obligatory upon every student of medicine to present an essay of his own composition on some subject pertaining to medicine, prior to his application for the degree of Doctor of Medicine I have selected Puerperal Fever, for my theme; not that I expect to be enabled to throw any light or advance any new ideas upon a subject, that has been a prolific source of dispute, among the most eminent members of the Medical Profession, but in order to comply with the requisitions of the Faculty of Physic of the University of Maryland.

In presenting this my Inaugural Essay filled as it is with imperfections, yet I do so with confidence, resting assured that you will receive it with kindness, and not subject it to that criticism to which it is open, but freely overlook the errors, that may have been committed by, the

Author

Puerperal Fever.

Of all the dangers to which the lying-in woman is exposed, this is the most formidable. It is fraught with peril, and if the progress of the disease is not speedily arrested, the chances of the patient's recovery are very slight. It is very evident from the writings of the most ancient medical authors, that this disease was known to them although their accounts of it are very short and imperfect. The attention of physicians was particularly drawn to this disease when it appeared as an epidemic in the year 1664 in the lying-in wards of the Hotel Dieu, in Paris; and since that period it has often occurred in the principal cities and lying-in hospitals in Europe. In regard to the contagion or non contagion of this disease, there is a great want of unanimity among those physicians who have had abundant opportunities of seeing and treating this disease, but it is my opinion that after studying the essays of Drs. Gordon, Hay, Armstrong, and other eminent writers, that the disease is

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2

contagious, True it is that "man is liable to en," but such are my opinions at the present time.

Causes. These may be divided into the predisposing and determining. The predisposing causes are errors of diet either of too exciting a nature, or of bad quality, a depressed anxious and desponding state of mind, a sedentary life and the abuse of coitus, Women of a delicate constitution, which have been weakened by previous disease, are more predisposed to this peculiar fever which may depend upon a peculiar noxious state of the atmosphere or to the communication of contagious miasm. The determining causes are, the energetic contraction of the abdominal muscles, upon the uterus in expelling the fetus; long and tedious labour; the influence of the tampon used in arresting haemorrhage; exposure to cold; injuries inflicted upon the womb, during a severe, protracted and instrumental labour; by the forcible introduction of the hand into the uterus to rectify the position of the child, as in turning or removing the placenta when it is adherent; putrefaction of.

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coagula, or of parts of the placenta, which may have been retained within the uterus; the death and putrefaction of the fetus in utero; excessive joy caused by a safe delivery; the reception of news of a depressing character; too much company and conversation, too soon after delivery; rising from bed, and engaging in any exercise before the womb has recovered its position and non-gravid volume; the sudden suppression of some usual secretion, as the perspiration, the milk or the lochia; the application of cold to the whole body, or particular parts of it as the vulva or abdominal muscles.

Symptoms. Puerperal fever generally makes its appearance from the second to the fifth day, after delivery; but it may appear much sooner or later than these periods. It occasionally comes on immediately after labour; and it has been known to take place at the commencement of labor. It is ushered in by rigors, which sometimes are so slight as to escape notice, and at others so severe as to shake the bed, upon which the patient is lying.

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The rigors are followed by high fever; accelerated pulse, either full, hard vibrating, or small sharp and wiry. The skin is hot and dry and the thirst excessive; there is oppression at the praecordia, nausea, retching and vomiting; anxiety of mind, lassitude, uneasiness, weakness, headache and horripilation.

The pain in the abdomen is occasionally very severe; it is sometimes restricted to the hypogastric region at others, to various parts of the abdomen, in circumscribed spots; and very frequently it is felt over the whole of the abdominal region.

The patient compares the pain to a burning, twisting, and laceration of the affected part, which is greatly increased upon motion, coughing or hiccough, or by any thing that disturbs the relations of the peritoneum. The respiration is short, laborious and difficult. The peritoneal coat which lines the diaphragm is sometimes inflamed, in which case respiration will be much impeded, and hiccough results as a natural consequence. The blood presents the buffed coat, and the skin although generally.

5

hot and dry is sometimes moist. Very often the patient is troubled with a short, dry, hacking, cough which causes great uneasiness. As the pain in the abdomen increases, it attains a great size often as large as before delivery which is caused by the effusion of serum or lymph, and also by the accumulation of flatus in the intestines. The patient lies on her back with her head and shoulders elevated and supported by pillows, her knees ^{are flexed,} ~~are~~ in order to relax the muscles of the abdomen, and also to prevent the bed clothes from pressing on the abdomen and by their weight increasing the pain; she tries to keep the diaphragm contracted as much as possible and her breathing is a succession of short, rapid inspirations.

The state of the tongue cannot be depended upon as it is very variable in its appearance, and varies according to the stage of the disease, and the state of the system at the time of the attack. The lochia are generally suppressed or diminished in quantity and their odor is fetid, but in some rare cases they continue to flow naturally; the mammae

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become flaccid and occasionally painful; the secretion of milk is generally suppressed, but in some cases it continues to be secreted until within a short period of dissolution. The urine is scanty and high coloured and (after standing for some time it becomes turbid) and is voided with pain and difficulty. The intellectual faculties are sometimes disordered, but in general they are unimpaired up to the period of dissolution. In some cases, there is total cessation of pain a few hours before death; the patients friends entertain hopes of her recovery but in a very short time their hopes are proved to be fallacious.

Diagnosis. "Milk fever is known, by throbbing irritation and enlargement of the mamma, and by the pain being confined to them, while there is any febrile excitement, while in Puerperal fever the pain commences in the abdomen, and the mammae are neither distended, nor painful, but much more flaccid than natural; the sickness and nausea are more urgent and the pulse is much quicker

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7
Simple hysteritis, may be known, by a burning,
throbbing pain, fulness and oppressive weight in the
region of the uterus, and frequent calls to pass the
contents of the bladder, which is voided with great
difficulty; by the uterus feeling hard and stony,
it is also enlarged and exquisitely tender when
pressure is made upon it; by violent pains darting
through to the back and down to the groin and
thighs and by the soreness and fulness, being more
confined to the hypogastric region, while in puerperal
fever the whole abdominal region may be implic-
ated. The ephemeria called the weed is ushered
in by strong rigors, which generally in less than
an hour are followed by heat, thirst, and general
excitement, which generally terminates in about
twenty-four or thirty hours, by profuse perspiration
and absence of abdominal irritation. will
prevent its being confounded with puerperal fever
In after pains at certain times, pressure can be
borne without uneasiness, while in puerperal fever
the abdomen is sore to the touch, and pressure

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always aggravates the the pain. In the first there is no accession of fever nor accelerated pulse, the pains are grinding like those of labour, and are succeeded by intervals of complete ease; while in puerperal fever there is an accession of fever marked by an uncommon rapidity of pulse, and the pain is without intermission."

False Peritonitis. This disease is some what similar to the malady under consideration but differing from it in its chief feature, there being no tympanitis. It appears a day or two after labour, and is characterized by the most acute pain in the abdomen which in some cases is preceded by shivering or a chilly sensation; its onset is sudden; and it rapidly reaches a degree of intensity, little inferior to the worst forms of inflammation. The secretion of the milk or the lochial discharge are not suppressed, the pulse in general is but little accelerated; the skin not much increased in temperature the tongue natural, the intellect perfect, and though pain in the head and

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9

loins may be present is comparatively trifling
The treatment of this disease is very simple and
will give way to full dose of Opium combined with
a few grains of Calomel and Dr Ferguson was
in the habit of prescribing a full dose of the
Pulvis Specae Compositus, which generally gave
a quietus to this disease. I had almost
neglected to mention a most important diagnostic
Affresure is gradually applied over the abdomen
instead of increasing the pain, but with relief
and the withdrawing the hand suddenly
cause as much pain as sudden pressure

Prognosis, is very unfavorable and leaves but
little to hope for. It may be considered favorable
diminishes in size; when the lochial discharges
and the secretion of the milk are re-established;
when the pain becomes less acute and is only
felt over a small surface; when the pulse loses
its frequency and irregularity; when the respiration
is easy, deep and slow, the tongue clean and
moist, the thirst less ardent, the bowels more

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10

easily acted upon; the patient gets refreshing sleep, and is able to change her position, from her back to her side: this a very favorable symptom, denoting a subsidence of the inflammation. The unfavorable symptoms are a quick weak fluttering and compressible pulse; violent pain and tension of the abdomen; the respiration is laborious; violent rigors, a rough, dry, and brown tongue; the patient vomiting matter of a dark brown color; a cold clammy sweat breaking out over the face and body; there is repeated shiverings; the stools black and passing involuntarily; also a circumscribed crimson blush similar to hectic; subsultus tendinum; picking at the bed clothes; a state of muttering delirium; the patient slipping down from the pillows into the middle of the bed, &c. a cessation of pain.

When these symptoms are present, the case is hopeless.

"The disease may terminate in resolution, suppuration and gangrene, or it may pass into a chronic state,

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11

The termination by resolution, about the fourth up to the sixth day, by the diminution of the pain and other symptoms, by the softness, slowness and fulness, by the re-establishment of the lochia, and of the secretion of the milk, and by the patient being able to lie with ease, either on her back or side.

The termination by suppuration occurs where the pain and tension of the abdomen becomes less; where the pulse though still frequent becomes soft, where the patient has irregular chills, with coldness of the extremities, and where there is a feeling of weight, in the hypogastric region, and when fluctuation is discovered on palpation, no doubt exists as to the presence of fluid in the abdomen.

When the disease terminates in gangrene, the sensation becomes dull, the pain ceases suddenly; the abdomen smaller; instead of burning heat, a sense of coldness supervenes, the pulse is weak and intermittent, and the features become more decidedly altered; attacks of vomiting come on attended by delirium; the sphincters relax and

The first part of the book is devoted to a general
description of the system of the human mind
and the nature of the faculties which constitute
it. The author then proceeds to a detailed
account of the various faculties, and the manner
in which they are exercised. He then discusses
the different kinds of knowledge, and the
manner in which they are acquired. The
book concludes with a chapter on the
education of the mind, and the manner
in which it should be cultivated.

12

admit the escape of insufferably fetid matter, accompanied by a treacherous calm, during which, the patient expires. When an attack of puerperal fever does not increase in violence, but yet continues to prevail, it passes into a chronic form; the abdomen continues somewhat tumid and painful to the touch, or else it becomes more and more tympanitic. Occasionally there are intervals of calm but the pain, nausea and vomiting, recur from time to time; the emaciation becomes extreme; at length a colligative diarrhoea supervenes, attended with a low continued fever, with consumption, and marasmus; the effusion goes on, and the patient after much suffering dies."

Treatment. The most strict antiphlogistic must be resorted to, The patient should be placed in the semi-recumbent position, and the blood allowed to escape in a full stream from one or both arms, until syncope is produced; leeches should be applied to the abdomen and the bleeding from them encouraged by a warm poultice, made of flaxseed

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meal and spread in such a manner, that the pressure ^{of} shall be equal upon every part that it covers. A dose of calomel should be administered, to unload the bowels which are generally constipated, and if its action is ^{not} sufficiently prompt, an enema may be used.

If at the next visit which should be made in a few hours, the pain has returned, venesection should again be resorted to, until the pain has disappeared, and if advisable the leeches may be applied; small doses of calomel and opium should be administered and the system got under its influence as speedily as possible, in order to arrest the progress of the inflammation, to prevent the effusion of fluid into the cavity of the peritoneum, and also to effect the absorption of any fluid that may be effused; and the opium, to prevent the calomel from irritating the bowels and causing excessive purgation, and also to quiet the patient and produce sleep if possible. An occasional saline draught, to determine to the skin, or what is better, or eight or ten grains of the carbonate of potash in solution, may be taken with advantage. Emetics

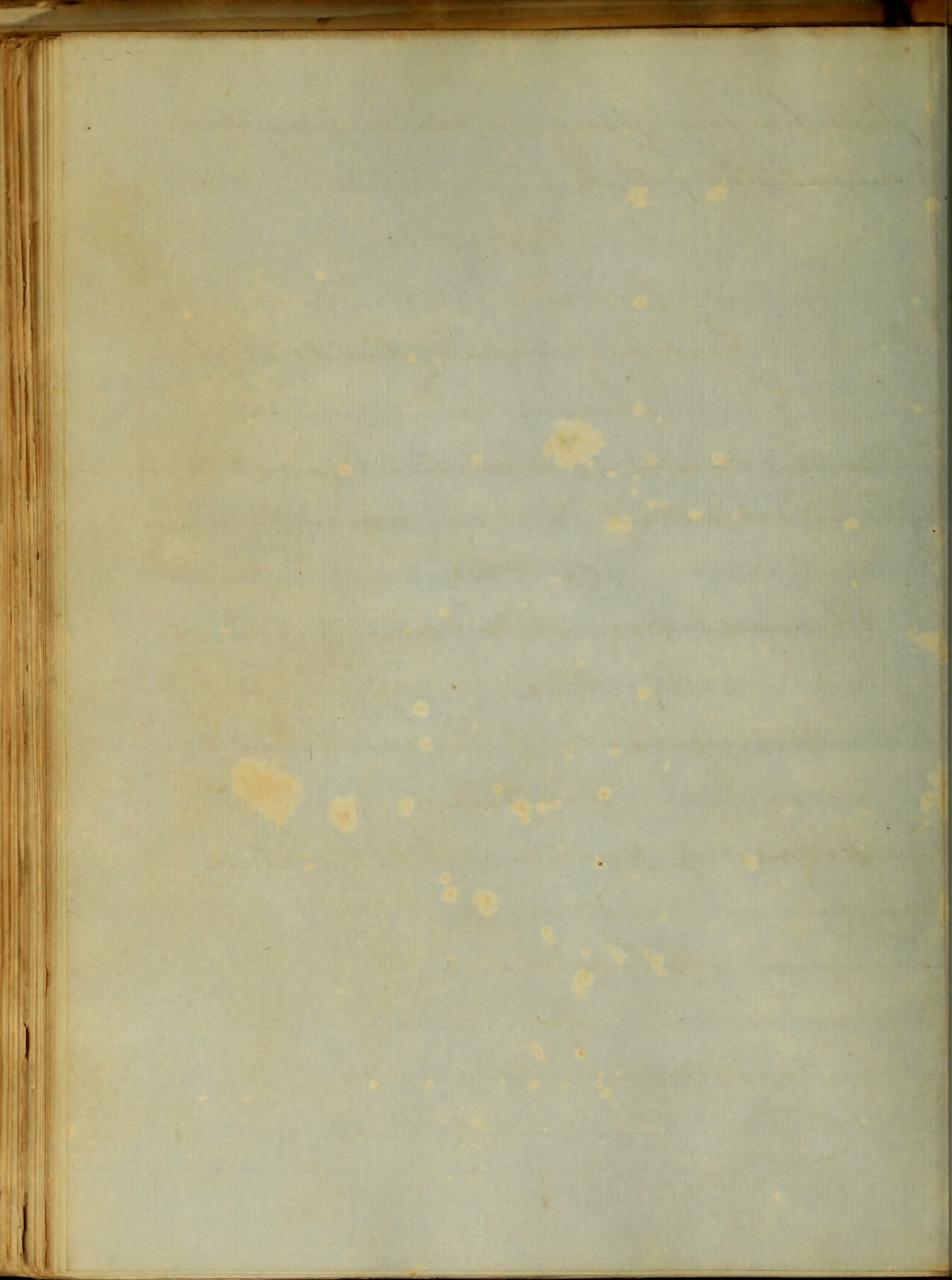
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14

have been recommended by Doucet, but I would think, that the inflammation would be aggravated by their use. The application of blisters to the surface has been highly extolled, but their operation is too slow, and the application of leeches is prevented, and we lose one of our best diagnostic marks, by the surface being denuded of its cuticle, as to whether the affection is on the increase, or decline, The best place to apply them is to the inside of the thighs, to act as a revulsive Antimony in small doses, and also Digitalis, have been used with advantage, in conjunction with the other antiphlogistic means, to subdue the inflammatory tendency. The oil of turpentine may be used with benefit, when there is tympanitis. Ice has been found of benefit, applied in a bladder over the abdomen, and Prof. Michalis of Keil has used it both internally and externally, with success. In the second stage, the strength of the patient should be supported stimulants, cordials, and of easily assimilated nourishment, Brandy, wine, ether, ammonia, opium, quinia, and aromatics, may be used, but if any

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fluid has been effused, art can be but of little
service to the patient.



An
Inaugural Dissertation
on
The method of Medical Investigation
Submitted to the Examination
of the
Provost, Regents & Faculty of Physic
of the
University of Maryland
For the
Degree of Doctor of Medicine
By
Alfickes
of
Maryland

A Synopsis of the General &
Clinical principles kindly
nunciated by ^{D^{rs}} Chew and Power

A list of names of the persons
who have been admitted to
membership of the Society

1

" Medical Investigation, its Past and Present "

Wide spread gentlemen is that collection which your general regulations place before the graduate: unbiassed as also uninstructed in his choice he selects from the accumulations of olden lore, or pines upon the feast of modern fantasies;

Yet with all submission it does appear this extended scope of subject matter, a very desert to honesty, but a fairy garden to others not perhaps over fastidious.

Consequently gentlemen I advise at this time ^{to} avoid all discussion of specific disease, and avoid the derangement of countenancing and lifting for novel truths where experience has not vouchsafed them, and where imagination would yield her products plausible though dangerous, amusing though useless.

The matter to which I would call attention is general though not the less interesting

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I would take a most concise glance of the grand and comprehensive methods of Medical Investigation since the time of Hippocrates: Look at the rapidity with which the pendulum of its Theories swings from one point of the Segment to its opposing: by the application of common sense ask why these revolutions? and institute the question to what do they lead, where in truth at present do they point us: Call it the Philosophy of Science or what not, Language is conventional truth its object, yet the subject of our present inquiry presents food for long, judicious, and unabating investigation, it is the substance of Medicine, its majesty, in fact the economy of the human mind.

The universality of Medicine, the many and varied theories of its essence

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The diversified aims to which its
 application has been made subser-
 vient politically and religiously point
 out its inherent worth, and testify the
 reality of that which these men and
 ignorant abuses evidence and stand
 so vividly exponential of. The strong
 spiritual and worldly arm of the
 ancient magi, the glowing forebodings
 the fair and fatal prognostics of
 the American medicine man, the
 medical fanaticism generated
 midst the chaos of revolution in
 France - all point out the extent
 of this extraordinary science, the sam-
 ility of man's own study, mentally
 as well as physically; Now it is
 not paradoxical to hold with Dr
 Johnson that the universal belief
 of a combination of facts or principles
 is sure and unequivocal evidence

The following is a list of the names of the
persons who have been admitted to the
membership of the Society since the
last meeting. The names are given in
the order in which they were admitted.
The names of the persons who have
been admitted to the membership of
the Society since the last meeting are
as follows: [The following names are
faded and illegible.]

of truth from which these combinations
 spring and upon which they are based:
 And from this we must assuredly hold
 that the impositions and absurdities of
 a system from the beginning of time ex-
 ercising an influence socially and ci-
 villy stand the surest circumstantial
 and direct evidence of its actual exis-
 tence. The mind of the dark and Mid-
 dle ages was acute and painful yet
 to this science it knelt in homage and
 reverence: yea the keener eye of ad-
 vancing civilization has not disper-
 sed the charm, but placed it on the
 eternal basis of truth and nature.
 The modern ministers and members
 of this system of physics are the sciences
 of the universe. Chemistry, Physique,
 astronomy all palpably aid its wants,
 and strongly corroborate its pretensions:
 The arts indeed we call as witnesses

and act as proofs by antagonising its Hygienic aims or verifying its predictions: Common sense, experiment, reason comparative and special stand likewise its opponents. Before extending this inquiry let us for a moment ask what is science? - Science properly so called is the knowledge of the laws of phenomena and its tests a power to predict when the circumstances are known, the association of these facts - and their derivative laws constitute the system, not indeed that every truth of possible existence as regards the particular science must be known since then it would be the counterpart of our wisdom, and not the subject matter of man's origin.

But say our opponents take for granted there exist your laws of phenomena, can possibly the name of science be ascribed when those laws seen in fact are subject

To change and modification under cir-
 cumstances of apparently the same char-
 acter: This indeed at first sight is a plau-
 sible objection, since Science assumes
 as its basis that the laws of her exis-
 tence are constant; not only so but
 this principle is the foundation of all
 scientific reasoning, is collected from
 all experience, taught by all observation,
 and is an original propensity of the
 human mind. The bulwark of this
 objection is found in the ultimatum
 of Medicine the application of remedial
 measures to specific disease, and
 the strength of the attack in the varying
 character of the therapeutical principles
 upon which medicines are adminis-
 tered to maladies of a like nature, or
 origin & principle: - Thus "Malignant Chol-
 era" presents a barrier to the action
 of remedies, absorption is prevented

The following is a list of the names of the
persons who have been appointed to the
various offices of the Board of Education
for the year 1880-81. The names are
given in the order in which they were
appointed, and are arranged in alphabetical
order of their surnames. The names of
the persons who have been appointed to
the offices of the Board of Education
for the year 1880-81 are as follows:

and death the consequence; also the specific effects of mercury are often unpossessed in the gastro enteric patient; yet cannot these seeming anomalies be explained, is not the absorption of mercury based upon a given condition of the mucous membrane of the intestinal canal from the fact that it is through the surface of this canal that internal absorption must progress: but in the aforesaid diseases this given state is not only modified, but totally changed. In the low forms of Typhoid Maladies, the nervous influence, the creator of vital action is so depressed and numbing that the stimulating influence of applied remedies, fails in producing that excitation absolutely required by organic life for the exercise of its peculiar functions

The first part of the paper is devoted to a
 description of the general principles of
 the theory of the subject. It is shown that
 the theory is based on the assumption that
 the system is in a state of equilibrium.
 The second part of the paper is devoted to
 a description of the experimental apparatus
 used in the investigation. It is shown that
 the apparatus is of a simple and elegant
 design, and is well adapted for the
 purpose. The third part of the paper is
 devoted to a description of the results
 obtained in the investigation. It is shown
 that the results are in good agreement
 with the theoretical predictions. The
 fourth part of the paper is devoted to
 a discussion of the results, and to a
 comparison of the results with those
 obtained by other investigators. It is
 shown that the results are in good
 agreement with those obtained by other
 investigators. The fifth part of the
 paper is devoted to a summary of the
 results, and to a few concluding remarks.
 It is shown that the theory is well
 supported by the experimental results.

and thus we fail in accomplishing often the constitutional efficacy of Mercury & its compounds. Again the mechanical or philosophical principles of Exsiccation teaches us that a membranous tube filled with liquid of nearly a solid consistency will remain unchanged if in contact with that ^{ever} of less consistency much more so if possessing qualities more allied to solidity. Not only will this kind of dead matter maintain its influence in Cholera, but under these circumstances if indeed absorption takes place, the removal of the remedy absorbed to the varied parts of the animal frame is prevented by the impossibility of this consistent fluid circulating through the capillary system. — Such is the condition of the intestinal canal

during Malignant Cholera or its later stages, under its excitation the watery particles of the blood are exhaled, and it is left ^{so} drained of its serum as to create the physical impossibility of passing through its vessels.

The ~~apparent~~ inconsistency; Thus the failure attending oft repeated and allidum trial of mercurial agents in these diseases presses not a contradiction to the general principle - since it is a law that an active inflamm^matory ^x stage of mucous membrane interrupts glandular, membranous & circulatory absorption. The apparent inconsistency of the cases but now cited does not in reality exist, but is merely the consequence of incapacity on the part of those daring to act the interpreters of nature; as simulating diseases partially resembling the one the other, yet so modified by

concomitant circumstances as imper-
 atively to demand the development of
 new scientific laws for these new phe-
 nomena. The many shackles which
 have embraced this science & from the
 beginning of time she is now disrobing
 one by one: The Rosicrucian doctrine
 of sympathy is long exploded; and
 the denunciations of the Rationalist
 and Empiric are fading ^{individually} ~~one by one~~,
 by the stronger light of their continued
 lustre. Anteriorly to the age of Hippoc-
 rates medical philosophy did not exist,
 The superstitious Priest drew from his
 sacred temple the vestive tablet of Em-
 piric medicine; But the Father of phys-
 ick saw indeed the majesty of this
 Empiricism: he it was who by the as-
 sociation of these facts drew general-
 izations and from these latter deduced
 the first laws of truth. although as must

The first part of the paper is devoted to a
 general consideration of the subject, and
 to a statement of the objects which
 it has in view. The second part
 contains a description of the
 various species of the genus, and
 of the characters which distinguish
 them from each other. The third
 part is a description of the
 habits and manners of the
 several species, and of the
 manner in which they are
 distributed over the globe. The
 fourth part is a description of
 the various diseases to which
 they are subject, and of the
 manner in which they are
 cured. The fifth part is a
 description of the various
 uses to which they are
 put, and of the manner in
 which they are prepared for
 use. The sixth part is a
 description of the various
 medicinal properties of the
 several species, and of the
 manner in which they are
 used. The seventh part is a
 description of the various
 medicinal preparations which
 may be made from them, and
 of the manner in which they
 are administered. The eighth
 part is a description of the
 various medicinal preparations
 which may be made from them,
 and of the manner in which
 they are administered. The
 ninth part is a description of
 the various medicinal
 preparations which may be
 made from them, and of the
 manner in which they are
 administered. The tenth part
 is a description of the various
 medicinal preparations which
 may be made from them, and
 of the manner in which they
 are administered.

He admitted the just association of
 classified facts with experimental
 deductions constitutes the only scien-
 tific method of medical investigation,
 yet a too great & isolated reliance on the
 processes of reasoning is dangerous
 in the extreme and absurd in its
 consequences: ignorance and pre-
 sumption stare it boldly in the face,
 and the corruptions incident to ra-
 tional Logic must ever be guarded
 by the sternest experimental tests.
 Facts indeed substantiate our fears
 since the absurdities and abuses
 engendered by this system induced
 a thorough revolution and produced
 a sect of medical inquirers - the
 Empiric - diametrically opposed
 to the Dogmatists: They deemed closet
 abstractions the essence of folly, and
 stamped the character of distrust upon

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all experience & are that derived from direct observation: The causes of disease they would discard, anatomy was contemned, Pathology and morbid phenomena utterly disregarded.

I aim not gentlemen to recall the many ancient and modern theories of medicine, but merely speak of those comprehensive plans and processes followed at different periods for its study and development; of the general state of the medical mind during those periods, and of the influence of this mental disposition upon the investigations of physics for benefit or injury. I dare not attempt our inquiry into the explanations and principles of specific diseases: - The Humeral pathology advocated by Hippocrates and Galen its modification by Boerhaave, or ~~of~~ the theory

of solidism advanced by Hoffman
and strengthened by Cullen, the no-
tions of Brown Broussais, Rush &c.

This would require extended knowl-
edge nurtured by deep reflection.

In reviewing the previously mentioned

plans of medical investigation

the most superficial observer

must be struck by the thorough

and radical change - Now ac-

knowledging the influence of Dog-

matism, we see it again in a new

light diametrically opposed - The

Empiric Philosophy, If either we

strod or can stand the embodi-

ment of Medical Science, why

this shifting character, & can

it be ascribed to man's constitution,

is it the result of ever wished

for change, - No these are absurd-

ities, the true cause is the intrinsic

with the purpose of either singly and its
 total incapacity to answer the ends of
 true science: The pendulum has
 swung from one point to its opposite
 and meeting in a common centre
 now points with dual truth to sure
 medical wisdom. We all must
 admit that Empiricism in union
 with the Dogmatist-plan, or facts
 as observed by the senses experiment
 with judgment forms the only process
 of scientific study. Such in fact
 is the present state of the medical
 mind. Louis and his followers
 stand the exponents of this system
 and by the continued evolution of
 new truths proves its efficacy.
 The maxim of Rosseau may well
 represent its true basis "That all
 science is in the facts and phenom-
 ena of nature and their ^{ship} relation."

The science of the human mind
 is a subject of great importance
 and interest to all who are
 concerned with the welfare
 of the human race. It is a
 subject which has attracted
 the attention of philosophers
 and scientists for many
 centuries. The progress of
 the human mind is a
 continuous process, and it
 is the duty of every
 individual to contribute
 to its advancement. The
 study of the human mind
 is a study of the soul, and
 it is a study which should
 be pursued with the same
 earnestness and devotion
 as the study of any other
 science. The human mind
 is the most precious of all
 possessions, and it is the
 duty of every individual
 to protect and cultivate it.
 The human mind is the
 source of all knowledge,
 and it is the duty of every
 individual to seek for
 knowledge and wisdom.
 The human mind is the
 foundation of all civilization,
 and it is the duty of every
 individual to contribute
 to its progress and
 advancement. The human
 mind is the most wonderful
 of all creations, and it
 is the duty of every
 individual to study it
 with the same reverence
 and awe as the study of
 the works of God. The
 human mind is the most
 valuable of all possessions,
 and it is the duty of every
 individual to protect and
 cultivate it. The human
 mind is the source of all
 knowledge, and it is the
 duty of every individual
 to seek for knowledge and
 wisdom. The human mind
 is the foundation of all
 civilization, and it is the
 duty of every individual
 to contribute to its
 progress and advancement.

and not in the mind of man
 who discovers and interprets
 them" They were upon the strict
 principle of observation, and
 reject all opinion reasoning.

The scrutiny of morbid phenomena,
 the analyses of disease by the senses,
 the disregard of all opinions un-
 less verified by direct experience
 constitute the mode of their in-
 vestigations. The Traditions of the fath-
 ers they reject as apocryphal,
 holding that medicine as other
 kindred sciences has and professes
 in reality - but one aim the determi-
 nation of truth; they maintain in-
 dependence to the result of researches
 that the issue be so near as pos-
 sible the approximation of truth.
 The science and practice of physic
 is prosecuted not as it may be

not as it was but as it is.

Thus the aid of imagination is totally scouted, and the abstractions of reason disregarded as dangerous and pregnant with error!

That man in the seclusion of his closet should faithfully decipher the cause origin & nature of disease as well as its treatment & prognosis is a doctrine equally injurious as false.

To appreciate the physiological action of remedies demands experiment and observation, these being instituted there to deduce a similarity of action in all diseases is a religion worthy a juror perhaps, but unprofitable to the patient, and contradicted by experiment and pathological truths. The medical philosophy of the present day

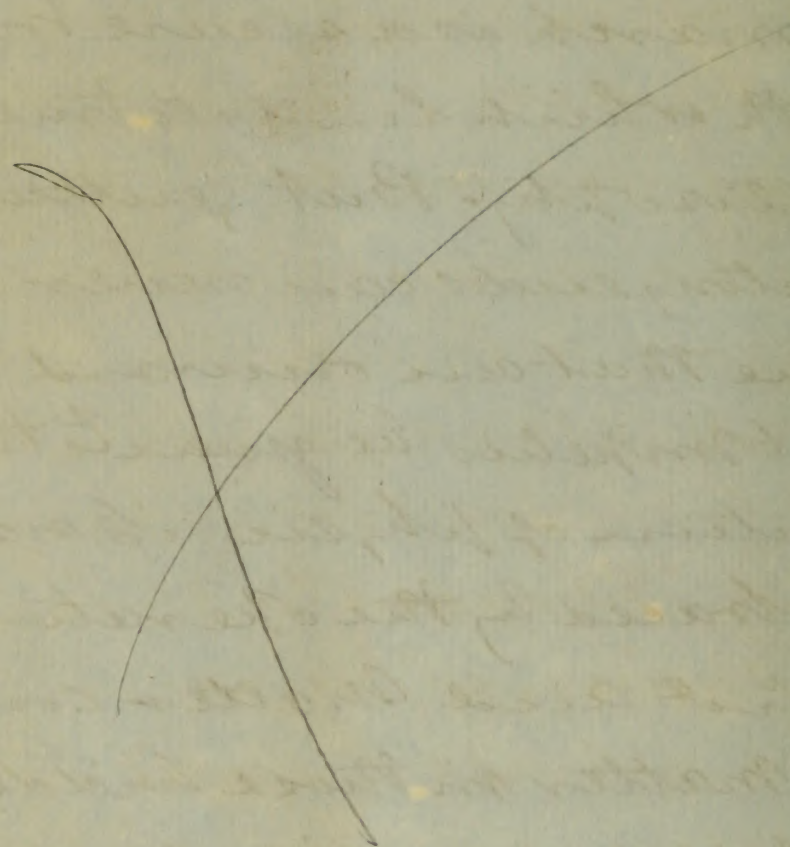
rejects all deductions made
 from external nature, such
 a process would indeed be
 contradictory to itself since
 deductions emanate from
 established laws *not* "per se",
 although Chemistry may teach
 us that the pathology of di-
 sease and the Therapeutical
 application of remedies suc-
 ceed in a measure to the
 operations of dead matter. -
 Yet the supreme and primary
 governing force from which
 the substance of a science
 must be formed are the vital
 laws: the laws which direct
 regulate and extend human
 life; laws which have surely
 existed in the wall and
 shadow of darkness, yet which

are now passing above this horizon in the beauty, usefulness and lasting truth of their character: It is to appreciate justly these laws that the present mine of medical investigation has been opening, and it is from the intricacy of these laws that the rebuke of returning empiricism has been cast upon Jurin and his school - although the Empiric plan be followed thus far that the proofs of reason be regarded as unprofitable unless substantiated by experience - Yet mark the issue, the experimental tests are made with impartiality, the observation of these experiments is strict, and from unequivocal and numerous observations a rational Induction is made

For example the administration of a neutral salt was known to prove beneficial in Enteric fever, this long existed as an Empiric fact, yet by extended observation in this disease and by the application of Medical Chemistry, the blood was found deficient in its salts; Thus was not only a physiological fact firmly established but its cause reasonably evolved. In my preceding remarks mention is made of that process now so prevalent, namely the necessity of repeated and numerous observations prior to a result; Numerical methods and averages now in fact constitute medical development, and supply vacant speculation by statistical certainty and mathematical truths

its tendency is the total destruction of all abstract inquiries, and its march is a secure branch of that path which leads to true medical philosophy. But gentlemen Satisfaction ends can never be determined save that an onward straight and just impetus be given to the prosecution of physic: its nature is embraced by the operations of Mind and Matter conjointly - by Matter in those hidden and intricate organizations whence spring vitality and its functions - by Mind in its mysterious relations to this organization, its varying influence over its every action and relationship: Now we hold that it is by a just consideration of these functions and their phenomena in health

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and disease, by seeing each indi-
 vidually and in their varied
 combinations, by a careful anal-
 ysis of these phenomena by the ac-
 tion of our senses, by a strict es-
 timate of their individual val-
 ue and relation. - not only ap-
 plied to the symptoms of disease
 but to its pathology, etiology
 and Therapeutics, - That these
 ends must be accomplished.
 Do we not all admit that this
 matter of medical inquiry
 is too lightly weighed by mem-
 bers of the profession? if not
 account for the many vaunted
 remedies continually promul-
 gated, remedies the result of
 their application merely be-
 ing entitled to a repeated ex-
 periment, and the issue of

and likewise of being used
 indirectly used in their
 construction, of a certain
 kind of these phenomena, the
 form of our bodies, of a certain
 form of their organization
 we are not related, but only
 related to the organization of
 but to the pathology, etiology
 and therapeutics. That these
 and more may be seen in
 Do we not all admit that the
 matter of medicine is
 in the first instance of
 part of the profession of
 account for the many
 results, and especially
 part, because the results
 the more extensive
 my studies in a
 form of, and the

which test is a forgetfulness as sub-
 der as their origin. Look at that
 which in strict reason and ex-
 perience is necessary to attest
 the action and value of a new
 remedy or method of treat-
 ment. The identity or exact re-
 lation of the case in which
 it is employed - a right es-
 timate of the habits, and tem-
 perament moral as well as
 physical of the subjects of ex-
 periment - due observation
 of the indirect or secondary as well
 as direct effects - and such ob-
 servations applied not to one
 organ or function alone, but
 to the many which constitute
 the material of life". Yet
 is there not one other circum-
 stance which in its bearing

has much retarded medical
 advancement - a desire ever
 to explain & synthetically the
 nature of disease negligent
 of its treatment: had the same
 mental strength they exhausted
 in the theory of contagious mal-
 adies, whether they be attributa-
 ble to a disturbed equilibrium of
 atmospheric electricity, to the de-
 velopement of vital animal-
 culae or vegetable spores, or
 again to the fermentation of the
 fluids, been bestowed upon
 their treatment or prevention
 the issue might have been
 a mitigation as in varioloid,
 a complete or partial exent-
 tion as granted by the industry
 of Seuer and the result of
 his assiduity; Had the moments

passed in vain discussions as
 to the theoretical character of In-
 flammation, its dependence on the
 debility or morbid effort of the
 capillaries, been yielded to its
 treatment. The antiphlogistic
 regimen might now exist more
 sure than its present reality -
 A fact of untried relationship
 must not be accepted, a phe-
 nomenon of single existence
 should not be too credulously
 entertained, or its mental
 association be grounded as
 a principle. Thus gentlemen
 have gazed at the state of
 the medical mind at different
 periods the fascinating glare of
 Rational Physic and the mor-
 bid struggle of Empiricism,
 we have hastily traced the

The first part of the paper is devoted to a
 general consideration of the subject, and
 to the determination of the principles
 which should govern the conduct of the
 government in the management of the
 public affairs. It is shown that the
 government should be conducted in
 accordance with the principles of
 justice and equity, and that it
 should be conducted in a manner
 which will promote the welfare of
 the people. It is also shown that
 the government should be conducted
 in a manner which will promote
 the interests of the nation, and
 that it should be conducted in a
 manner which will promote the
 interests of the world.

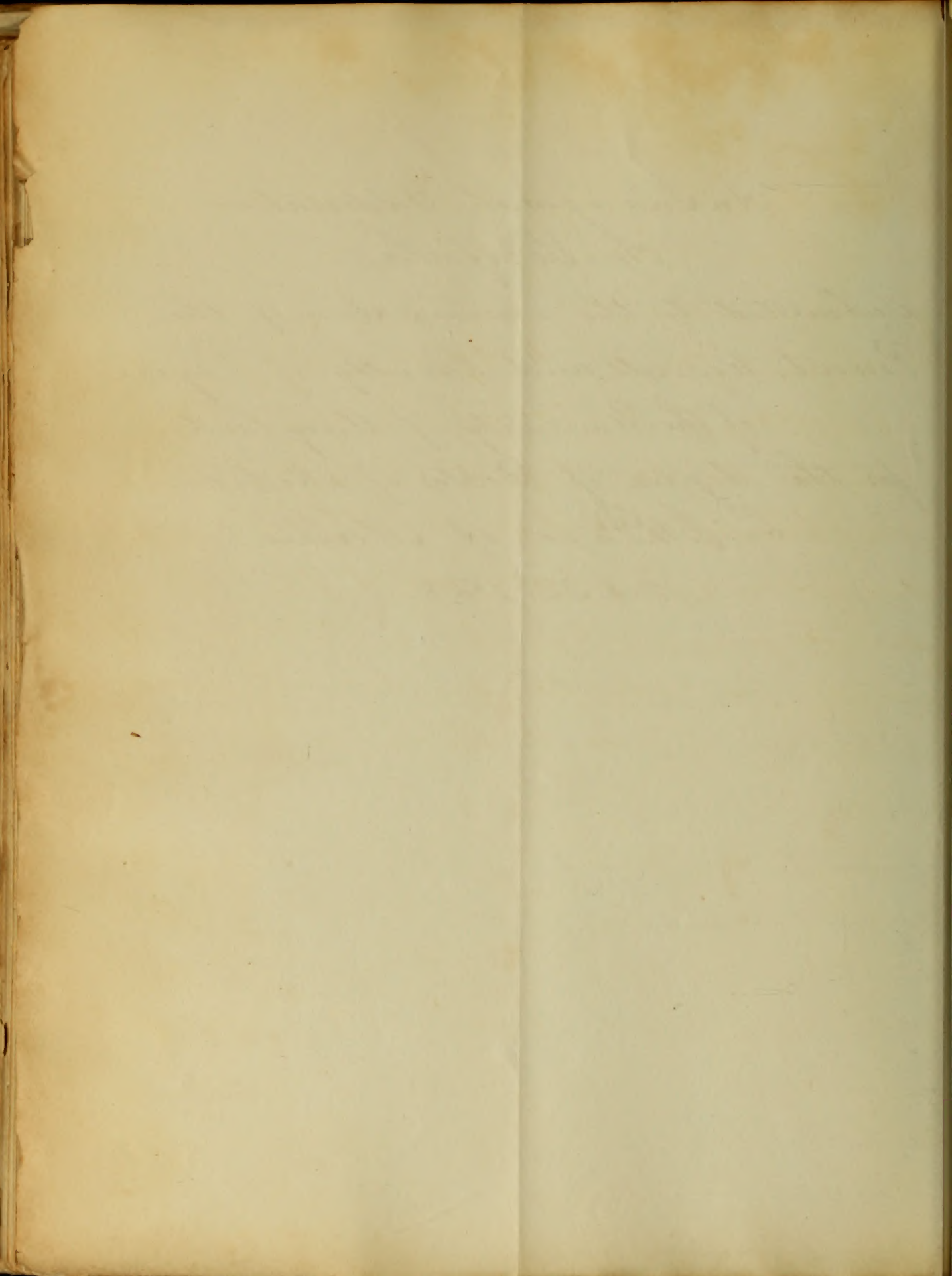
effects of each upon the true ad-
 vancement of our profession
 and have attempted to
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 deeming it equally impor-
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of medical knowledge, the in-
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from you we have gained
that instruction by which
our after studies must be
regulated -- I conclude
gentlemen feeling grati-
fied in my connection with
this institution, wishing for
your individual happiness
and prosperity, and the suc-
cess of our Aliver Mater

An Inaugural Dissertation
on Scrofula.

Submitted to the examination of the
Provost, Regents and Faculty of Physic
of the University of Maryland.
for the degree of Doctor of Medicine
by J. W. Page of Maine.

Feb. 22. 1848.

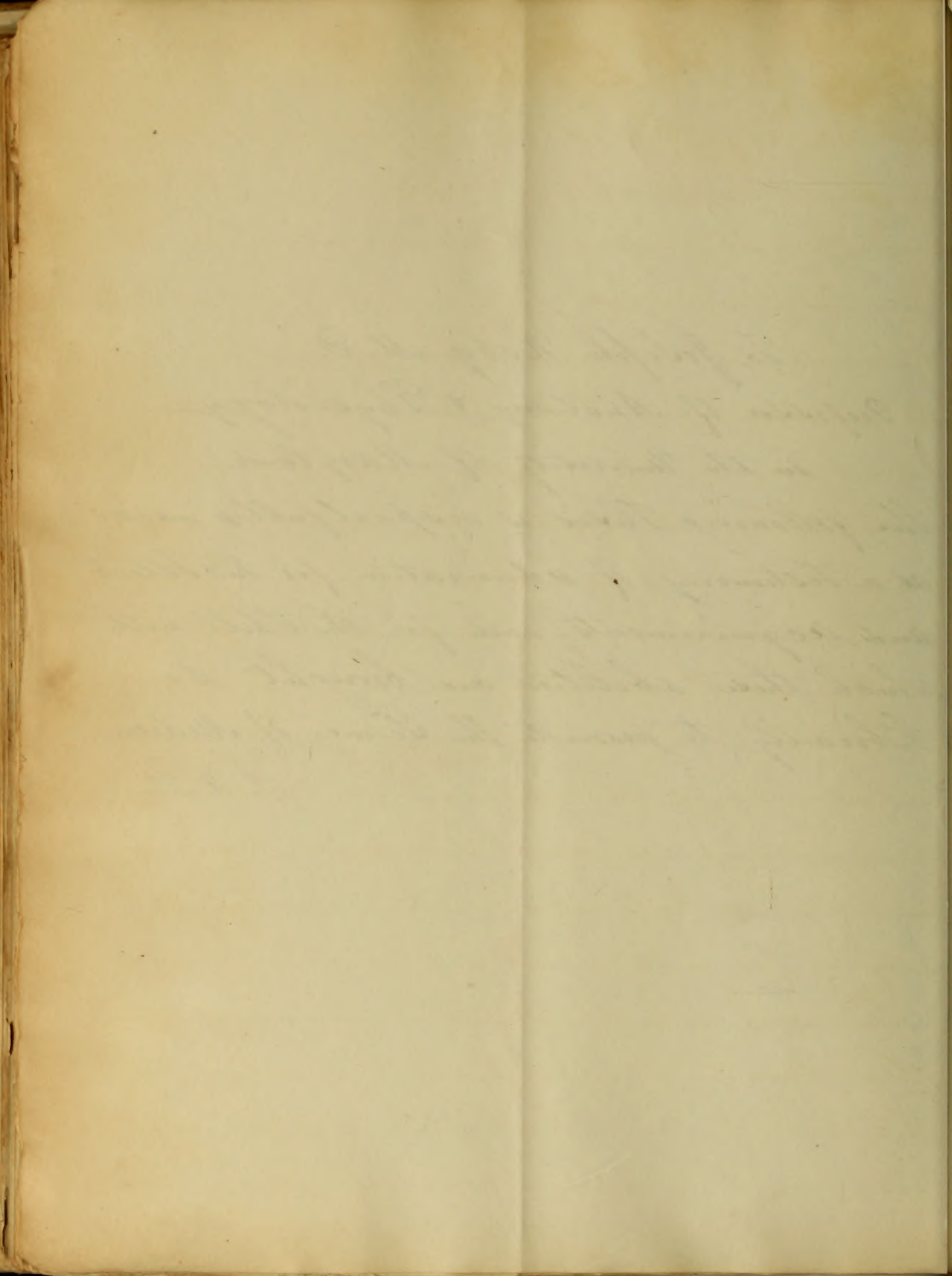


To Joseph Roby M. D.

Professor of Anatomy & Physiology
in the University of Maryland,

The following Thesis is respectfully inscribed
as a Testimony of admiration for his Talents
and Acquirements - and for the Skill with
which these abilities are brought so
liberally to promote the Science of Medicine.

J. W. P.



1
Scrophula is a disease of the constitution characterized in its development by an albuminous secretion.

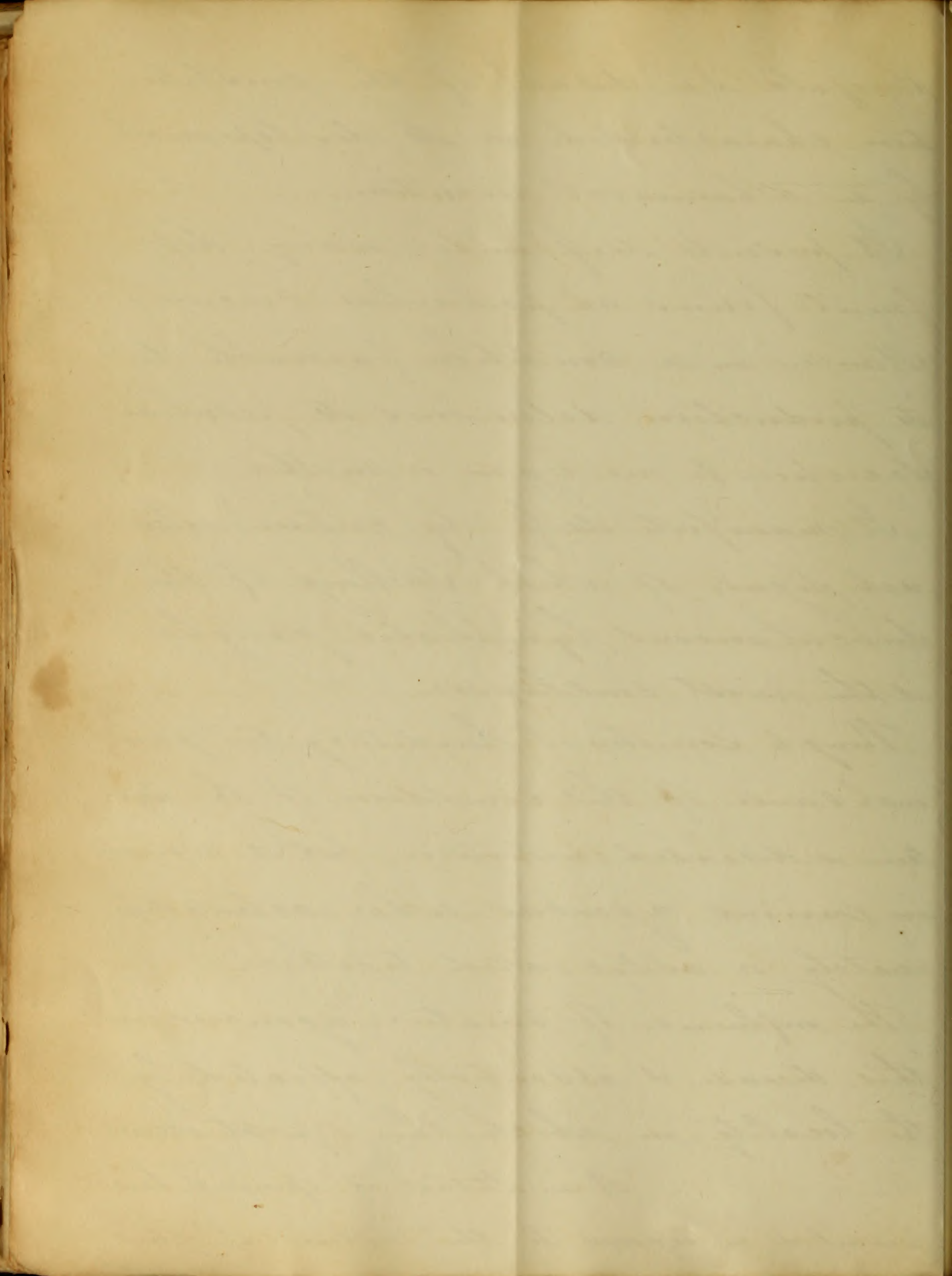
It presents itself under many different forms, as particular circumstances in a condition favorable to its production determines its peculiar secretion to one organ or another.

It manifests itself by certain external signs, of which swelling of the subcutaneous lymphatic ganglia is the most conclusive.

Though sometimes hereditary, the general cause of this condition of the system is diseased nutrition, but it originates in various agencies, either acting separately or associated together.

The influence of curative agencies on this disease is essentially affected by the locality in which the deposit occurs.

A multitude of opinions have prevailed in regard to the nature of this



disease. Theories based upon an imperfect knowledge of the relation of organs, upon the assumption of organic changes which did not exist, or upon a fancied virus have from time to time been promulgated by the ablest men of our profession, and supported by ingenious argument to sustain the sect or school in which they originated. Many of these have given rise to corresponding modes of treatment, and have obtained a wide diffusion, but not one has stood the test of later scientific investigation - all have been proved destitute of any foundation upon well established facts. Until a comparatively recent period the malignity of the disease was supposed to be exhausted in the production of the glandular tumor and to it all remedial means were applied. But the progress of the knowledge of pathological anatomy - the more rigid investigations of the symptoms of the disease during life, and of the internal disorganizations after death, has demonstrated

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the characteristic phenomena of Scrophula displayed so generally among the different organs of the body as to indicate beyond doubt a tainted constitution. This morbid state of the system denominated the Scrophulous diathesis is characterised by a peculiar deposition, displaying itself in different forms according to the seat of the deposit; but every where identical in character. In the human Subject "says a writer of extensive observation" it appears to me that crude tubercular matter, from whatever organ obtained, differs as little in its microscopic as in its general and chemical characters. When examined by the aid of the microscope, crude tubercular matter can scarcely be said to present any regular structure, as it is merely made up of minutely granular matter, oily spherules, some shapeless albuminous flakes, or shreds, and a few irregular corpuscles" while all who have submitted it to minute chemical analysis, have found it mainly composed of albumen, fat or oil globules, and certain alkaline

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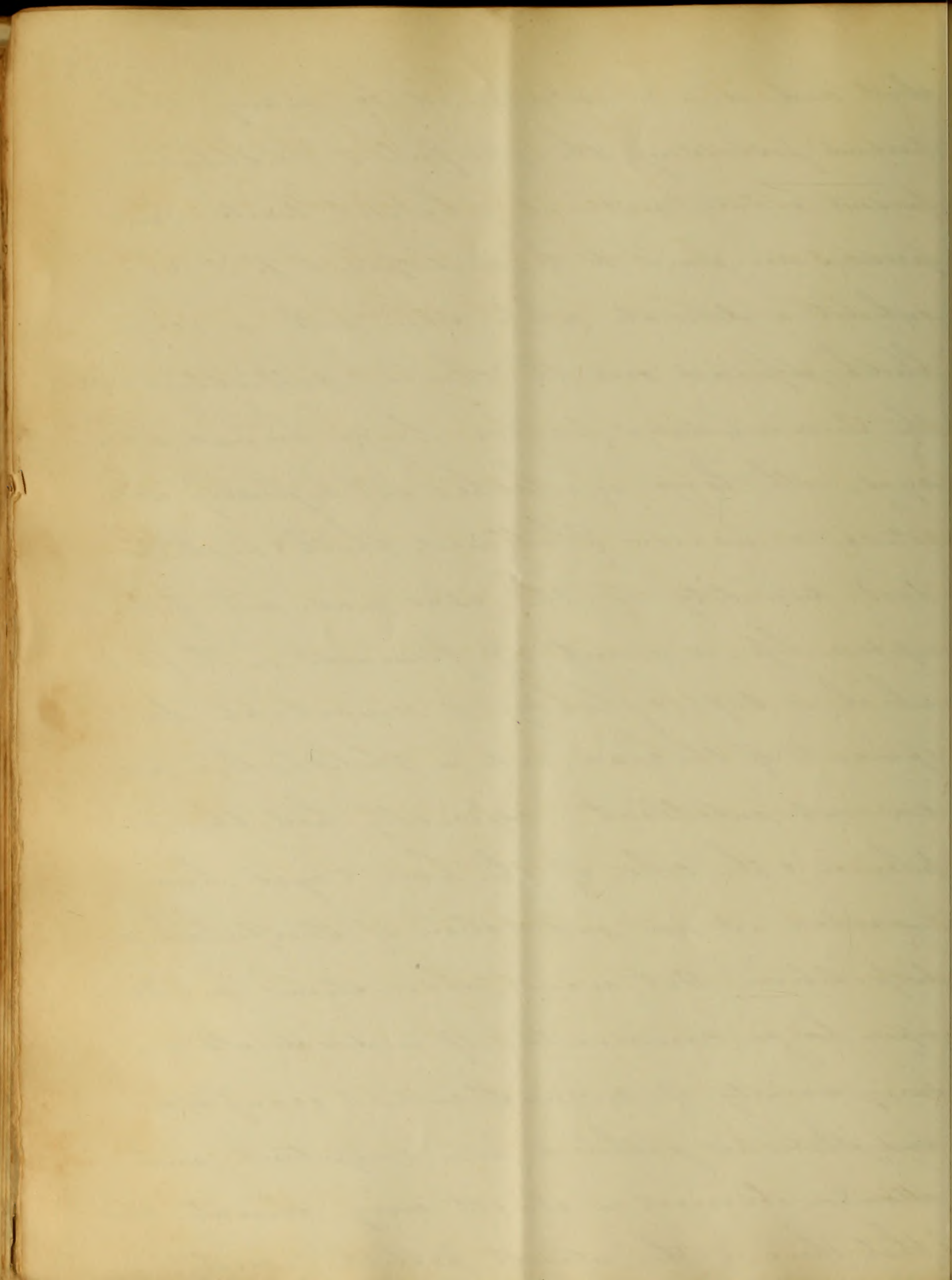
Salts. The Scrofulous diathesis is also characterised by the peculiarity of the inflammation which it produces, which generally assumes a chronic form, is attended with little heat or pain, and after suppuration leaves abscesses which heal very slowly. This is distinguished by the name of Scrofulous inflammation, and the purulent discharge occasioned by it is frequently mixed with broken down tubercle in the form of curdy matter.

"What is the nature of this affection?" says a medical writer - "is a question which cannot be fully answered, in the present state of our knowledge. We know that, generally, the vital energies are enfeebled, and the blood impoverished or depraved. It is highly probable that the tendency to the tuberculous deposition is due directly to the condition of the blood. But the state of the blood must itself be dependent upon some deficiency or deprivation of the functions by which it is elaborated, and we are thrown back upon some original vice in the organic constitution."

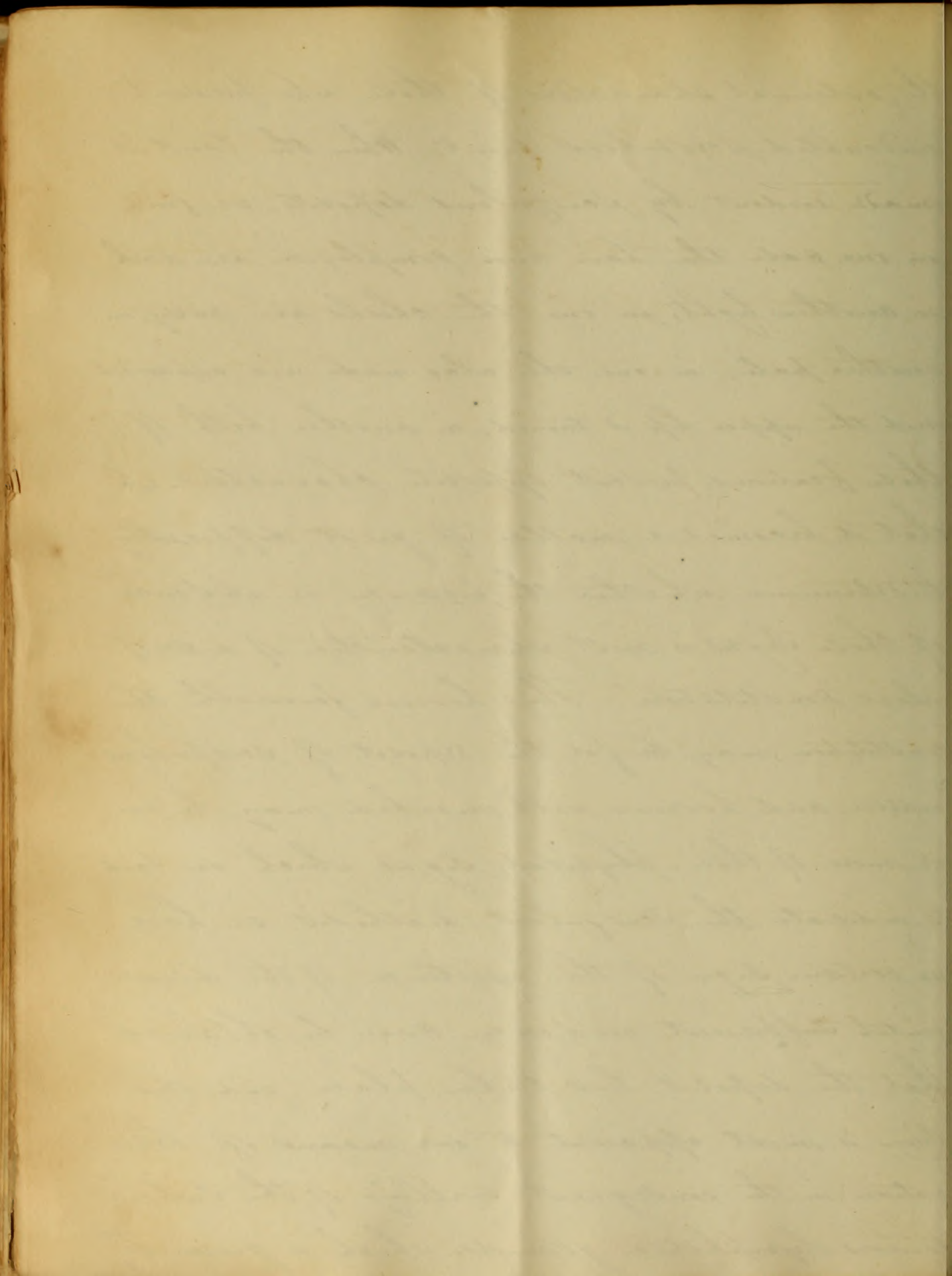
The opinion has long been prev

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alert and is now entertained by many, that persons possessing the Scrofulous constitution present certain natural physical traits. Thus persons are said to be predisposed to it, who exhibit a delicate white skin, with a rosy blush, spread over the cheeks & contrasting with the surrounding pallor, large humid blue eyes, with long eye lashes and a pearly sclerotics, a narrow flattened chest & high shoulders - tumidity of the alae nasi and of the upper lip - a want of firmness in the flesh, which is soft & flabby - a remarkable development of the head, and in childhood a precocious intellect. especially has the complexion & the color of the hair & eyes been regarded as an indication of Scrofulous predisposition. But recent observations made upon large communities of individuals and in every variety of circumstances & occupation, and statistics gathered from competent and attentive observers in almost every climate. Show "that there is the utmost possible variety in



the external characters of those who present undoubted scrofulous taint. When the taint is made evident by scrofulous deposits, we find in one case the hair and complexion are dark, in another light; in one the cheeks are rosy, in another pale; in one the alae nasi are expanded and the upper lip is turned, in another both of those features present opposite characters. So that it becomes a matter of great difficulty to determine whether the presence or absence of those signs is most characteristic of a scrofulous constitution." Thus however favourable the constitution may be for the deposit of scrofulous matter, and however well marked may be one or more of those physical signs which are said to indicate the scrofulous diathesis, we have no certain sign of the existence of the disease until sufficient evidence can be obtained that the deposit has taken place, and this sign is most apparent to our means of observation in the consequent swelling of the subcutaneous lymphatic glands, which is generally



the first symptom that attracts attention. When however the Scrofulous tendency is strong: the apparent symptoms of the disease are not confined always to the glands. The Skin & cellular tissue become morbidly affected. Indolent Swellings abscesses and obstinate ulcers form in these tissues. The conjunctiva is subject to Scrofulous inflammation, and the mucous membranes generally are more or less morbidly affected. The same condition of the System which indicates a predisposition to Scrofulous affections of the external glands and tissues favours also a similar condition of the internal glands, and the deposition of tuberculous matter in the vital organs and their purifying membranes. It is at present a subject of controversy among medical writers whether Scrofula & Tubercle are to be considered as identical diseases. And many distinguished authorities are arrayed on either side. By some there is held to be several distinctive marks. That Scrofula generally attacks the age before puberty, Tubercles after. That Scrofula is developed in the form of

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Swellings of single glands, attended with no colligative secretions, and for a long time no change in the bulk of the body, while the contrary takes place in the Tubercle disease. That with Scrof. is the character of torpidity, with tubercles the character of excitement of the circulating system prevails. That Scrofula appears chiefly in the glands of the lymphatic system, whereas tubercle appears in the substance of the organ, and there is less affection of the lymphatic glands. That Scrofula pours purulent in all forms, Tubercles almost in none; Scrofula lasts a long time, Tubercles hasten quickly to an issue. Now, whatever important differences these distinctive marks may indicate in the treatment, they need not necessarily indicate any difference in the nature of the disease. For by chemical analysis the tubercle in its elements is found to be identical with the Scrofulous deposit in the glands & elsewhere. That the disease should attack different organs at different periods of life, is only in accordance with the well established fact that the tendency

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of disease at different periods of life is to different organs. That in the different organs the deposit should present different forms. The development of the disease be accompanied by different symptoms and the prognosis & treatment be widely different. is to be ascribed to the structure of the tissue, and the importance of the organ affected. The distinctions result from the seat and not from the nature of the disease. The parts most frequently affected are, according to Louis, first, the lungs; then the lymphatic glands, the pleurae, the intestines, the spleen, the liver, the peritoneum, the brain & membranes, and lastly the pericardium, stomach, kidneys, pancreas &c. Thus this peculiar secretion may be deposited in almost any portion of the body & often in many parts at the same time, giving rise to morbid affections, which have received different names according to their seat & character. In the lungs they produce phthisis; in the pleurae, chronic pleuritis; in the peritoneum, chronic peritonitis & abdominal dropsy; in the mesenteric

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glands, tabes mesenterica, in the arachnoid, hydrocephalus; in the lymphatic glands, external scrofula; and in the bones, white swellings, caries, necrosis &c.

Children often exhibit the characteristic marks of Scrofula at so early an age as to lead to the inference that their damaged health was derived from the parents. Whether the disease is directly communicated from the parent to the child seems doubtful for it is rare that a child presents any marks of Scrofula at birth, though the disease is often rapidly developed soon after, indicating certainly a scrofulous cachexia, or a constitution favourable to the development of the disease. Such children are generally feeble - the offspring of feeble or diseased parents - circumstances which seem to favour the development of Scrofula, but which are far from invariably producing it. Nor is it evident what kind of disease or feebleness in the parent tends most to induce the development of Scrofula in the child. Besides this hereditary influence,

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many other causes favour the development of the disease, almost all of which are of a character tending to depress the powers of the system, and to impoverish the blood. Very many of the alleged causes of Scrofula have been found by recent investigations to have much less efficiency in the production of the disease than had for a long time been ascribed to them. And of those which do possess an influence, it is difficult, not to say impossible, to estimate the force of any one, as others are almost sure to be intimately associated with it. Recent & extensive statistical information shows, - contrary to long prevailing opinion - that the development of Scrofula is not so influenced by climate or temperature, as to bear any definite relation to the warmth or coldness of the country in which the disease is found. - That the deaths from Scrofulous diseases bear no definite relation to the closeness with which the population is crowded together - that particular occupations & social conditions exercise

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a greater influence on health & the duration
of life than is produced by impure air, but
do not operate in the production of Scrophula as
a specific agent, or a direct cause. These in-
direct causes however do act in connection with
diseased nutrition, which is the general cause
of that condition of the system which we
term Scrophulous. Diseased nutrition in a vast
majority is produced at an early period by in-
sufficient food, or improper feeding. It is sup-
posed that the most influential cause of
Scrophula in our large cities, is the use of the
milk of cows fed on distillery slops, and con-
fined in close stables. Under these circum-
stances nearly all the animals become tubercu-
lous, and the milk undergoes important chan-
ges in its composition. So as to contain so little
of the nutrient properties, as to be incapa-
ble of making butter or cheese. It is such
milk that forms a considerable portion of the
food of a majority of the children of our
cities. Diseased nutrition may arise too from

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an impaired digestion, dependant on a feeble
Constitution - or some of those indirect agencies
may be sufficiently active or by being associated
together may so impair the functions of diges-
tion as to lay the foundation of Scrofula, even
though the food may be judicious in kind
and abundant. So that the disease may
as frequently be found in the pampered child
of luxury as in the cottage of the peasant.

There cannot be a doubt that
if proper preventive precautions were taken Scrofu-
la would be less frequent & less formidable than
it is. To insure a healthy constitution, there should
be a sufficiency of appropriate nourishment, and
that this may be properly assimilated pure
air should be freely supplied to the lungs and ac-
tive exercise taken to such an extent as to insure
a vigorous circulation. In other words, those
measures which are the essentials of good health,
are the great preventives of this protuberant disease.

The preventive treatment of Scrofula has always
been involved in great doubt & obscurity.

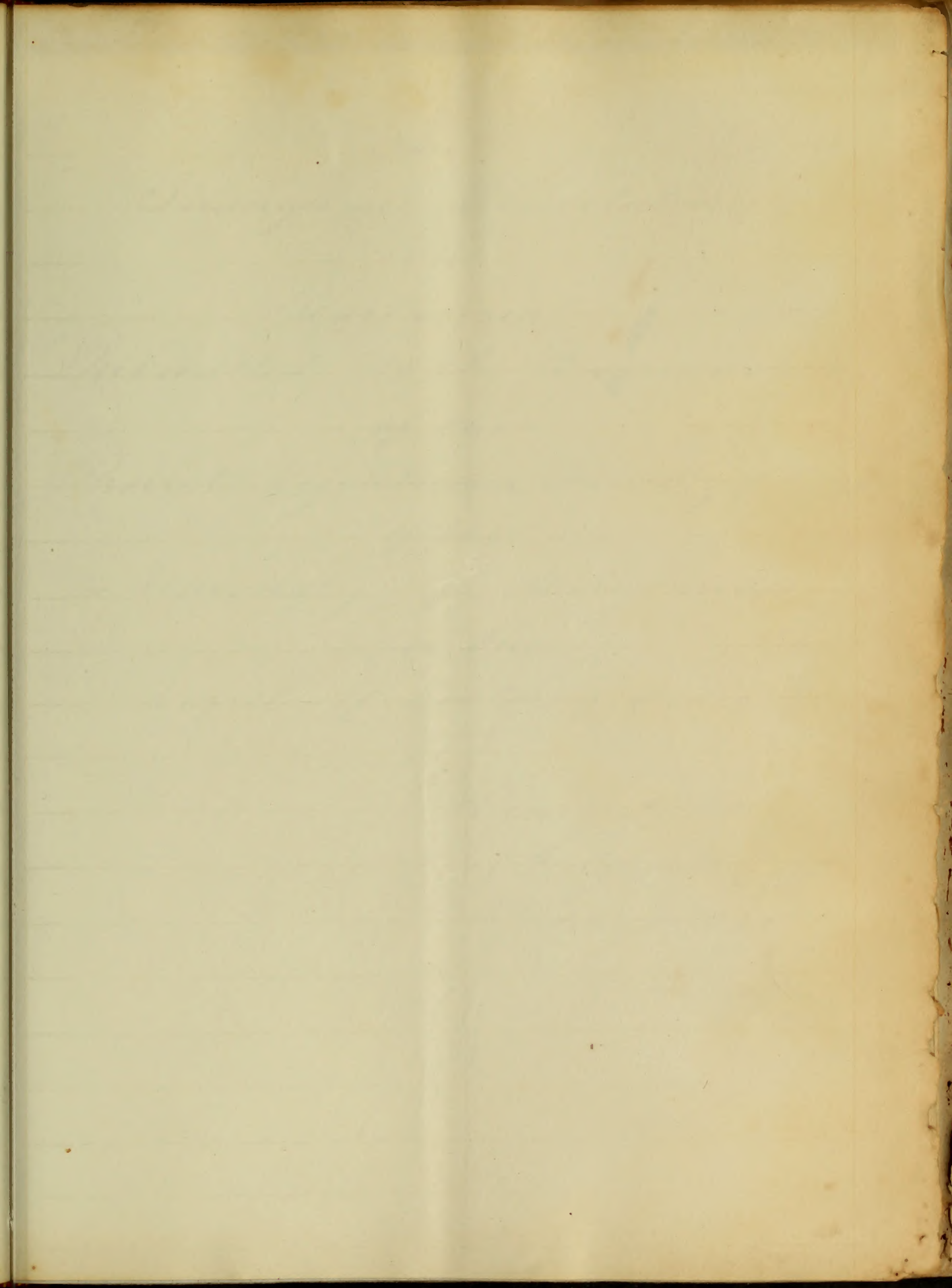
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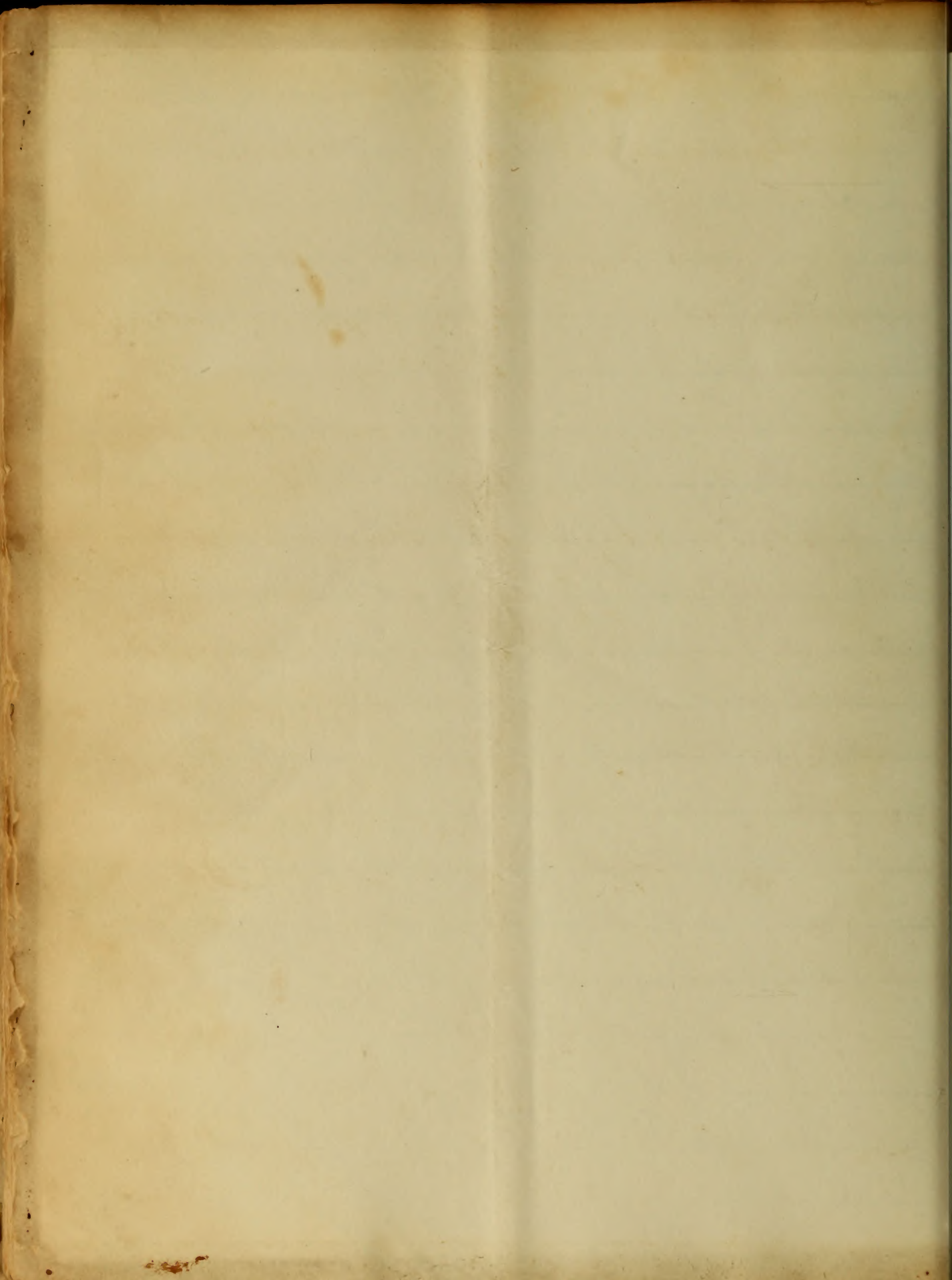
Influenced by the doctrine "that all disease is finally
to be brought under the control of art; - that there
is no malady to which the human body is liable,
for which a preventive or a cure does not lie some-
where concealed in the unexplored recesses of nature"
there has been from the earliest ages a search for
Specifics for scrofula. The claims of a legion of
agents have been advanced. Some of them coupled
with the superstitions of the times have held the
human mind in strong subjection. But to the
present day none has been discovered upon which
we can rely for the cure of the disease - none which
are proved to have any specific action. Of all
the remedies offered, none perhaps have been
more fairly tested, or employed with results
so satisfactory as Iodine - a principle obtained
from the common seaweeds so abundant on
the sea coast and which have been for ages
synonymous with every thing most useless - "bilis
algâ" was with the ancients an expression
of utter worthlessness. This agent, though not
an absolute cure of the disease - has in its

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various combinations. by its alterative action upon the economy. Such a control over various forms of the disease, as to prove its discovery one of the greatest triumphs of modern art over disease. Though Leprosy in some of its forms has been thus subjected to the dominion of medicine - in others it is entirely beyond its control. "It is a disease" says Boz, "in which death & life are so strangely blended, that death takes the glow & hue of life, and life the gaunt & grisly form of death - a disease which medicine never cured, wealth warded off, or poverty could boast exemption from - which sometimes moves in giant strides, and sometimes at a tardy, sluggish pace, but slow or quick, is ever sure and certain."

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An
Inaugural Dissertation
on
Scarlatina
Submitted to the Examination
of the
Provost Regents and Faculty of Physic
of the
University of Maryland
for the
Degree of Doctor of Medicine
by
Henry Austin
of England
Feby 8th 1848

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Scarlatina or scarlet fever is a contagious febrile disease, characterised by inflammation of the fauces, and attended generally during some period of its course, by an eruption of a bright scarlet colour, resembling that of rubella, with this distinguishing characteristic, that in scarlet fever, the rash is lighter, and has been compared to a boiled lobster, while in measles, it resembles more the tint of the raspberry. This eruption may also be known from that of the latter disease, by its being more diffused, and feeling smooth to the fingers, and from its appearing on the second day, and sometimes at the very commencement of the fever, while that of rubella does not appear till the fourth, and frequently

as late as eighth or tenth day. Scarlatina was, for a long time, confounded with measles, and from the description of its phenomena, by the older authors, the two would seem to have been considered by them, as a variety of one and the same disease.

Ingrassias has the credit of being the first, who alluded to it as a distinct affection; in a work published in the year 1556. It was afterwards noticed by Coytar in France, and by Norton in England; but Dr Withering has the honor, among British physicians, of being the first, who fully and distinctly pointed out the differences between the two diseases.

Most authors make three varieties of scarlet fever; first scarlatina simplex; in which variety, we have the rash, with little or no sore throat: secondly, scarlatina anginosa; in which, both the skin and throat are decidedly implicated; and scarlatina maligna;

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which, as its name implies, is the most terrible of all its forms.

The symptoms of these three varieties are essentially the same, differing only in degree and intensity. The disease usually sets in with shivering, lassitude, and rigors with pains in the back and limbs; frequently, with severe headache; sometimes with delirium; and occasionally with nausea and vomiting. The fever comes on with a quick pulse, hot dry skin, flushed face, furred tongue, considerable thirst, and great muscular debility.

With the fever, we have inflammation of the fauces, which are often red and swollen. Sometimes this symptom comes on after the fever. Upon examination we find this redness diffused over the interior of the mouth. The tongue, though coated with a white or yellowish white fur, presents projecting papillae upon its surface, while its edges

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and tip one red. The rash, as I have before stated, makes its appearance on the second day of the fever, earlier or later. It is generally seen first upon the neck, face, and breasts, and then gradually spreads over the trunk and extremities.

The colour is said to be deeper about the groins and flexures of the joints.

Its time of diffusion occupies about twenty four hours. Sometimes the eruption appears in minute red points, which rapidly coalesce into broad red patches, and, in the course of a few hours, form a scarlet blush all over the surface of the body.

But great diversity exists, in the amount and extent of the eruption.

Sometimes, we have very little, presenting only a few scattered points, here and there, but more frequently, we have it well diffused over every part of the surface.

The colour disappears under pressure, and

returns, when the pressure is removed. Whatever increases the general excitement tends to deepen it; hence the colour is most intense during the exacerbation of the fever, and is increased, whenever the patient cries, or is otherwise agitated. This red^d surface is not generally elevated, but sometimes, it has a rough feel, owing to the enlargement of the papillae.

We, not unfrequently, observe, upon the neck, in the axilla and bend of the elbow, a crop of small milium vesicles, which make their appearance, at different stages of the com-
-plaint. Minute pimples and pustules some times mingle with the eruption, during its de-
-cline. The cutaneous affection is attended with a sense of burning or itching or other irritation, which is very distressing to the patient, and often interrupts his sleep.

The fever is more intense towards evening, occasionally attended with delirium, and

Comatose symptoms. The bowels are generally constipated, but in the more advanced ^{stage}, we have diarrhoea, and sometimes, irritability of the stomach. The disease attains its height, from the fifth to the ninth day, when, in favourable cases, all the symptoms begin to decline, the heat of the skin diminishes, the pulse becomes fuller, the tongue throws off its fur, yet remains red and glossy.

About this time, desquamation of the cuticle begins to take place. It falls off in scurf or scales, from the face and body, and in large flakes, from the extremities.

Sometimes a glove or slipper of cuticle comes away at once.

Scarlatina Simplex is the mildest form of this disease, and, as Sydenham has said, seldom proves fatal, except, through the officiousness of the Doctor.

The fever, in this variety, manifests itself,

about the third, or fourth day, after exposure to the contagion. The rash makes its appearance, on the second day after the fever sets in. Sometimes, this rash is very limited in extent, being confined to the face and neck, amounting to nothing more, than a scarlet blush, which is accompanied by a slight febrile movement.

An entire exemption from inflammation of the bowels is very rare. With proper management, no danger is to be apprehended, from this variety of the disease, unless from some ^{intercurrent} ~~intercurrent~~ inflammation, or unpleasant sequela.

Scalatica Anginosa. This form of the complaint comes on, with soreness of the throat, which is one of its most prominent symptoms. Stiffness of the jaws, difficulty of deglutition, are often complained of, at the commencement of the attack.

The eruption is generally later, in its appearance

- and, than in the simple form, which shows itself, on the third day, instead of the second; and as a general rule, is not so copious or diffused, being confined to the hands or arms, at other times, to the trunk, where it is seen in small patches.

Still, in many cases, it is as intense and diffused, as in the simplex variety.

The fever is usually more severe, and the pulse more frequent, than in the form, we have already considered. There is also a greater tendency to delirium or stupor.

The inflammation advances with the march of the disease. The eyes are often red and irritated, though not suffused, as in measles.

The tonsils and velum palati are red and swollen; hemorrhage also, from the nostrils, sometimes occurs, and patches of concrete exudation, resembling false membrane, are generally seen upon the tonsils, at an early period of this affection. These patches are of a white,

yellowish colour, and are often very extensive, covering the whole surface of the fauces and running down into pharynx, as far as can be seen.

These exudations are generally very soft, so that they may be scraped off, with a paper knife, or spoon handle. They were, formerly, thought to be the gangrenous portions of the mucous membrane, but when removed, they leave the surface, for the most part, merely reddened, without any organic change.

Sometimes, they really do cover ulcerated surfaces, and may even be gangrenous. At times, they extend down into the larynx, giving rise to pseudomembranous croup, but this is a very unrequent occurrence. This condition, of the throat, gives a very offensive odour, to the breath. As there is, almost always, a swelling in the region of the parotid and submaxillary glands, it has been thought by some, that the ^{parotid} is the seat of inflammation. This may sometimes

be the case, but more frequently the cellular tissue, or the lymphatic glands (these being external) become hard and painful, so much so, that the patient is prevented from opening his mouth. Deglutition becomes both difficult and painful, so that liquids taken into the mouth, will be returned through the nostrils. There is too, at times, swelling which becomes so great as to impede respiration.

The nasal passages are often closed, by the swelling of the mucous membrane.

This adds to the suffering of the patient, by compelling him to breathe through his mouth exclusively, producing dryness of the tongue and lips. At a more advanced stage, a yellow and very offensive discharge takes place from the nostrils. This discharge is often very acid, and excoriates ^{the} orifices and upper lip. A similar secretion is ^{also} swallowed, and probably gives rise to gastric irritation and diarrhoea, which frequently occur, towards the close

of the disease. The alvine discharges are so acid, as to excoriate the anus, recovery being very much retarded, by the suppuration, which follows, and ^{adds} much to the danger of the complaint. The fading of the rash begins a little later, than in the simple form. The fever and sore throat continue sometime after desquamation commences, the incrustations, upon the ^{fauces,} either separate spontaneously, or are gradually absorbed. Sometimes this anginous form of scarlatina takes on the typhoid character, which event, the physician will regard, with the greatest solicitude, being fraught with the most foreboding consequences, yet recovery does sometimes take place, even under these discouraging circumstances, but it is after a long and tedious struggle in the repairs and resistance of organic mischief. However, in the majority of cases, the patient does well.

Scarlatina Maligna. This is the most formidable

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of all the varieties of the disease, now under consideration. Sometimes, the fever sets in, with extreme violence. Typhoid symptoms rapidly come on, and the patient sinks at once, under the virulence of the poison. Death takes place in children, about the third day.

The symptoms, in this type of scarlet fever, are the same as those, of the two varieties already discussed, but are of a more intense and alarming character, the pulse being quick and irregular, the tongue dry and red, the eyes look muddy.

There is a very acid and foetid discharge, from nose, and a tendency to hemorrhage, from the nose, bowels, and kidneys. Some times, we have no eruptions at all, if any, it is faint and partial, and soon fades away. Still we have some desquamation, about the seventh day, the condition of the patient being of the most alarming character, and

full of pus. As the disease proceeds, the rash may continue unchanged, the throat becomes foul and sloughy, the maxillary glands sometimes swell enormously, and the fever is considerably increased.

This swelling causes constriction of the fauces, and stiffness of the neck.

A tendency to coma is produced, by its pressure upon the Jugular veins, preventing the return of venous blood, from the head. Thus it appears, the system is re-inoculated with the poison.

The mucous membranes, ^{subter,} in every direction; we not only have those of the nose, mouth, and fauces, taking on inflammation, but, those also of the stomach, and intestines, giving rise to a very foul, smarting diarrhoea.

In some cases, where the disease is less violent, or the powers of the system are greater, the symptoms are those, of the anginous variety. The signs, by which, the violence of

The disease may be suspected, on pains in the loins and extremities, a greater tendency to delirium, or stupor, a weaker, but not slower, pulse, and a later appearance of the eruption, which is delayed till the fourth day.

As the disease advances, the symptoms assume a more decided typhoid form, the pulse becomes weaker, the skin is irregularly heated, the rash either disappears, or changes to a purple colour.

Sometimes ecchymosis and petechiae are seen; the throat is of a dark red or mahogany colour, the teeth and lips are covered with sordes, and there is considerable destruction of the soft parts.

Gangrene and deep ulcerations often form about the throat, palate and tonsils, and an exhausting diarrhoea sets in, bed sores form about hips and sacrum, at length collapse takes place, with a fluttering pulse, cold clammy skin, and involuntary stools,

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 last meeting of the Board, on the 1st of January, 1880. The names are given in the order in which they were admitted, and are accompanied by the date of their admission, and the name of the person by whom they were recommended. The names of the persons who have been re-elected to the office are given in italics. The names of the persons who have been elected to the office for the first time are given in plain type. The names of the persons who have been elected to the office for the second time are given in bold type. The names of the persons who have been elected to the office for the third time are given in plain type. The names of the persons who have been elected to the office for the fourth time are given in bold type. The names of the persons who have been elected to the office for the fifth time are given in plain type. The names of the persons who have been elected to the office for the sixth time are given in bold type. The names of the persons who have been elected to the office for the seventh time are given in plain type. The names of the persons who have been elected to the office for the eighth time are given in bold type. The names of the persons who have been elected to the office for the ninth time are given in plain type. The names of the persons who have been elected to the office for the tenth time are given in bold type.

and death closes the scene, about the end of the second day.

The sequelae of scarlet fever are perhaps as distressing, as those of most contagious diseases; in fact there are few maladies, to which, human nature is liable, that leave, behind them, a longer train of evils.

Among the most common, are very troublesome abscesses, which form about the parotid and submaxillary glands.

Sometimes the discharge of pus, from these sources, is of such an exhausting character, that the patient, after having struggled through an attack of scarlet fever, dies of hectic. Under the most favourable circumstances, the constitution is a long time recovering its wouted tone.

Occasionally, an abscess opens in the ear, and causes a long, continued and obstinate discharge. We also may have necrosis of the bones of the ear. In some cases, the Eustachian

tube becomes closed, either by the inflammatory thickening of its coats, or by union after ulceration. Dr Watson tells us, that he has known pain and swelling, of the larger joints, to supervene on the disappearance of the eruption, simulating, very closely those of subacute Rheumatism, with this distinguishing characteristic, that they were eased and benefited by friction, and that the heart was in no way implicated. But the most common sequela, of Scarlet fever, is anasarca, serous infiltration into the submucous areolar tissue, attended often with dropsy of the larger serous cavities.

This is the most serious, of all evils resulting from this disease. It appears to follow the milder, rather than, the severe cases, which may be owing to bad management, by exposing the patient to cold, too soon after desquamation commences, or

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before he has entirely recovered. This sequelae is generally, in the form of anasarca, but occasionally in that of ascites, hydrothorax, hydropericardium, and even hydrocephalus. This affection generally yields to treatment, unless the heart, or brain, is involved.

Usually, the urine presents the appearance of ale, and contains albumen, and is said to be associated with that condition of the kidneys, which has been observed, in the early stages of Bright's disease.

As to the pathology of Scurlatinus, I shall say but ^{very} little, as our knowledge, of this part of the subject, is of a very limited extent.

So far however as anatomical research has gone, we find congestion of the capillaries of the skin, ulceration of the tongue, tonsils and puces. Sometimes the rash entirely disappears after death, leaving no lesions of any kind discoverable, which throws any light upon the disease, or explains its results. —

The prognosis, of this complaint, is very uncer-
 -tain. The mildest cases, apparently, often
 assume the most malignant type, and
 the patient appearing free from danger and no
 unpleasant symptoms present, ^{ing} & themselves, he
 suddenly dies from cerebral derangement,
 while some cases, of the most unpromising
 and malignant kind, get well.

Still, after the patient has convalesced, un-
 -der the most ^{favorable} circumstances, there is great cause
 for apprehension of the serious, secondary
 results. There is, in some people, a certain
 predisposition to the most violent forms
 of scarlet fever, and even in some members
 of the same family, we find this aptitude
 to take on the worst form of ^{the} disease, while
 others will have the mildest attacks.

Puerperant women are liable to this affection,
 and in most cases it proves fatal.

We should, however, be guided in our prognosis,
 by the character of the prevailing epidemic.

The first part of the book is devoted to a general
history of the world, from the beginning of
time to the present day. The second part
contains a detailed account of the
civilization of the ancient world, and
the progress of the human mind from
the earliest times to the present day.
The third part is a history of the
modern world, from the discovery of
America to the present day. The fourth
part is a history of the world from
the present day to the end of the world.
The fifth part is a history of the world
from the end of the world to the
beginning of the world.

If the symptoms are mild, we may, with some degree of confidence, predict a favourable termination. When, however, the eruption is late in coming out, or is very scanty, or suddenly retrocedes, in connection with other unpleasant symptoms, profound coma, ecchymosis, or hemorrhage, a livid, or purple colour of the rash, great prostration, indicated by a very feeble pulse, cold skin, and involuntary discharges, we should be very guarded in giving our prognosis.

With respect to the treatment of scarlatina, no definite rule of practice can be laid down. This, like many other idiopathic fevers, seems to have a course of its own to run, and that course, it will run, in spite of all, medical science can do.

Nothing appears to cut short the disease, yet we can do something for the patient, which may add considerably to his comfort.

We should be constantly on the alert for the

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symptoms, and treat them, as they develop
themselves. In the early stage of the complaint,
an emetic, followed by a purgative, seems to be a
favorite mode of treatment, pursued by many
eminent practitioners. Dr. W. Rush, in an
^{article} on *scarlatina*, published in the year 1789, tells
us, that in every case that he was called to, he
began the treatment, by giving a vomit, joined
with calomel. This vomit was either tartar
emetic or ipecacuanha, according to the prej-
udices, habits, or constitution of his patients,
and so highly was, this method of treatment, es-
timated at that time, that it was adopted by
most of the physicians in New York, New
Jersey and Delaware, with the happiest re-
sults. The same authority adds, that in no case,
where the vomit mixed with calomel was
given, did ^{it} fail of completely checking the
disorder, or of so far mitigating its violence,
as to dispose it to a favorable issue, in a few days.
Bleeding is not advisable, except in the most

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inflammatory type, and even then should
be resorted ^{to}, with great caution.

Cups, or leeches, applied to the throat, rather
than the temples, will afford great relief
to the head, as well as the fauces and tonsils,
which are generally swollen.

We may also do much for the throat and
mouth, by the use of gargles, such as the
following, chloride of soda in solution,
^{dilute} muriatic acid, given in flaxseed tea, or
gum water, nitrate of silver, from ten to thirty
grains to the ounce of water, or a solution of the
sulphate of zinc, or copper, which may be applied
by means of a camels hair pencil, or a mop of
cotton. The muriated tincture of iron is also
a valuable astringent, and highly useful in
this affection, as a gargle.

The offensive odour of the breath, may be cor-
rected, by the use of chloride of lime, or
dilute pyroligneous acid or creosote.

The bowels also demand attention, and should

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by no means ^{be suffered to} remain costive. In the milder forms of scarlet fever, all that is necessary to do, is to keep the bowels ^{open,} by mild laxatives; the patient may take saline draughts, which are grateful and cooling; the citrate of ammonia thus administered is highly recommended.

Dr Watson speaks very highly of the Chloride of potassa, in the proportion of a drachm to a pint of water, the whole to be taken during the day. Whenever debility comes on, we must endeavor to sustain the strength of the constitution, by the administration of tonics, such a quinine infusion of Peruvian and oak bark, spiritus mindereus, compound-nitrous powder. In the accidental diarrhoea, castor oil, combined with opium, will be found very useful.

When the patient is recovering, he should be watched, till the period has gone by, when the dropsical symptoms are likely to appear. He should be well protected from all exposure

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to cold, wet and fatigue. It is generally, by neglect or imprudence, that these symptoms are brought on.

When dropsy does occur, it may be treated with purgatives, or diuretics, and the warm bath. But should there be any indication of inflammatory disease within, we must adopt the most active measures.

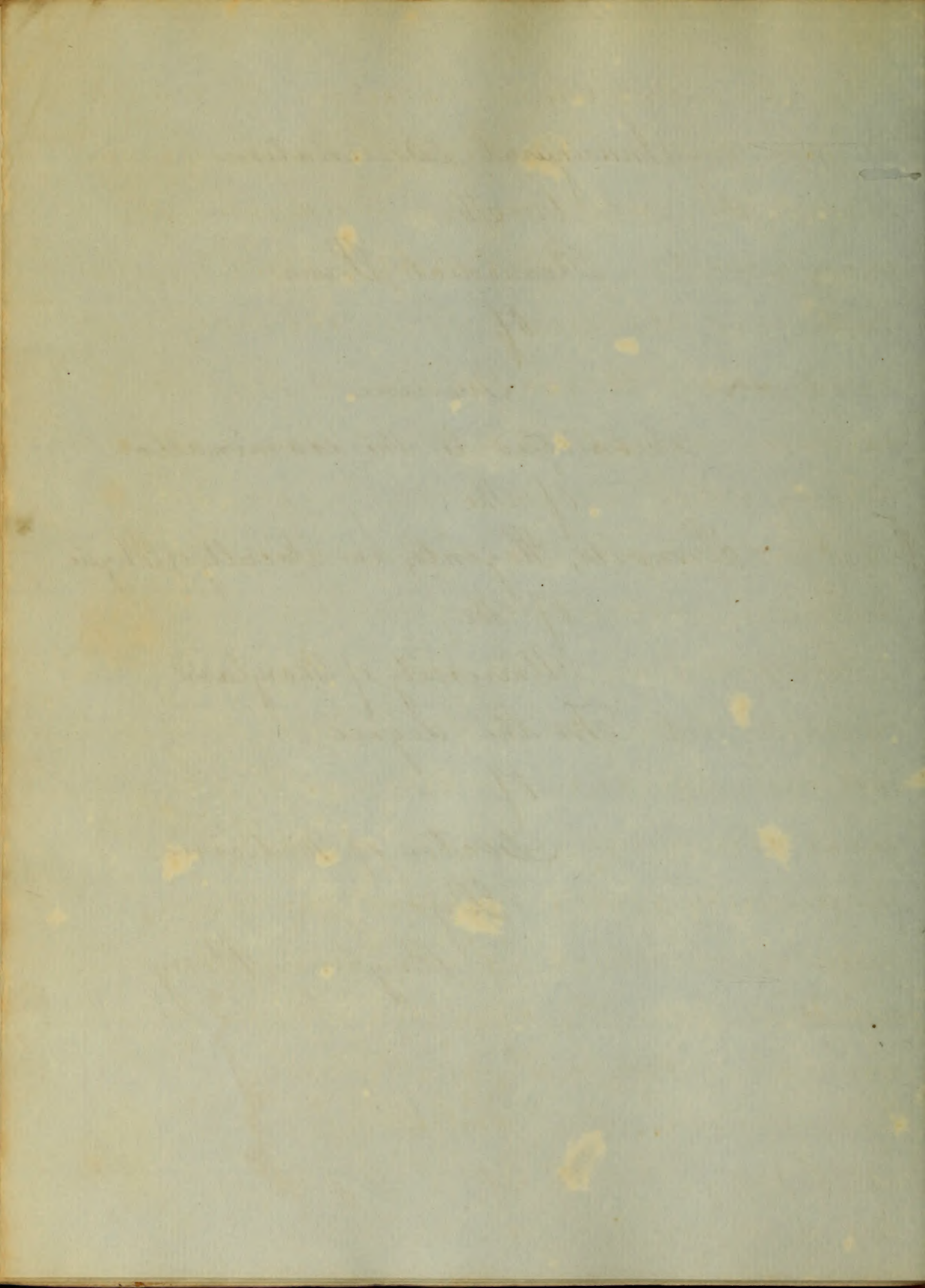
We have not to contend with the original poison, but with acute inflammation, with the sudden effusion of fluid, the mere presence or pressure of which, upon vital organs may prove fatal, we must try to arrest the inflammation by purgatives, and the use of mercury. Belladonna is believed, by many, to exert a protecting influence, against the contagion of scarlet fever.

But this is a disputed question, some physicians speak of it in the highest terms of praise, while others have no confidence in its prophylactic virtue.

The first part of the paper is devoted to a general
discussion of the subject, and to a statement of the
principles which should govern the selection of
the material to be used. It is then shown that
the most important consideration is the
quality of the material, and that this should
be determined by the nature of the work to
be done. The next part of the paper is
devoted to a description of the various
methods which have been used for the
purpose of determining the quality of the
material, and to a comparison of the results
obtained by these methods. It is then shown
that the most reliable method is the
use of a standard material, and that this
should be used in all cases where the
quality of the material is of importance.

an An
Inaugural Dissertation
On The
Remedial Powers
Of
Quinine

Submitted to the examination
Of The
Provosts, Regents, and Faculty of Physic
Of The
University of Maryland
For the degree
Of
Doctor of Medicine
By
Benjamin Berry



In the catalogue of medicines to none has nature assigned greater virtues than to the substance in consideration, in every quarter of the Civilized World, its benign influence has been felt and acknowledged; hundreds and thousands of lives which would have been sacrificed to the poisonous exhalations by which we are encompassed, have by its kindly influence been preserved. All previous medicines registered in the annals of medical lore, for the extirpation of this acrid morbid poison from the system, sink into insignificance in comparison to the great boon conferred upon humanity in the discovery of this magical substance. The country in which we live. The great South and West, teeming ^{with} enlightened inhabitants, animated ~~with~~ manufactures, enriched by commerce, and smiling in agricultural beauty, owe much of its prosperity to this simple powder. How earnest then,

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 Treasury
for the year 1850. The names
are given in the order in which
they were appointed. The names
of the persons who have been
appointed to the various positions
in the office of the Secretary
of the Treasury for the year
1850 are given in the order in
which they were appointed.

Should be the call for each labourer in the field of medicine to cooperate in efforts to elucidate the subtle principles which regulate the perfect action of this medicine and to reveal to the world its intrinsic excellence and value. And although the subject presents a wide field for speculation, still we are compelled to eschew as far as practicable theory and rest satisfied with such facts as come well authenticated or such suppositio^{ns} as at least carry a degree of probability with them. And here may I venture a few suggestions in explanation of its modus operandi; may it not act by immediately decomposing or neutralizing the malaria or whatever we may consider or term the poison which generates fevers; thus the antidotal effects of ammonia to the poison of serpents and spiders may be considered as illustrative of its action. That Quinine cures fevers, by repairing the losses occasioned to the venous

System by the poisonous causes of fevers, I think much less probable, since the action of quinine is too rapid to admit of its assimilation with the vital organism. It has been observed that it is a medicine whose action is sui generis, altering or modifying the vital organism in such a peculiar manner as tends to restore health. That it exercises some inscrutable, mysterious influence on the system, of which we only know the result, defies contradiction.

With these preliminary remarks, I shall proceed, not without some diffidence, to notice more particularly, the uses of the sulphate of quinine as a remedial agent. I shall speak of it as a tonic, anti-periodic, and sedative, as we can present all that is desirable on the subject, most advantageously, under this arrangement.

On the tonic power of the sulphate, it is not needful to be at all prolix. We give it, in convalescence, as a remedy for pure debility, from any and every cause. We say it is tonic, because it obviously augments the general tone and vigor of the system. It displays this feature very frequently, in the stomach, before we perceive any decided constitutional manifestations.

The appetite is revived, the digestive powers excited into more healthy action, and the work of assimilation is more complete and natural. It might be affirmed, that the remedy in these developments is truly an alterant, because it is gradually effecting most happy changes. We are aware, that ^{every} tonic is necessarily an alterant, and the persistent use is essential to the desired result. Hence we give the sulphate, as a tonic not for a few days but for weeks, in small doses at first and then gradually augmented. Ordinarily, we prescribe from half a grain ^(to a grain) per day, or oftener

according to circumstances; and slowly increasing, we give it, at length in doses of two or three grains. This course of procedure is safe and successful, in ordinary cases

As an antiperiodic we hold the sulphate in much higher estimation. But in the first place, we may be asked what we mean by antiperiodics, and I must beg leave to reply by reference to palpable facts. Ague and fever is held to be a periodical disease, or disease of periodicity; this no one doubts, an individual has a chill succeeded by a hot fever, which conduces to bring on a sweating stage, and in this way the natural secretions may be restored at least for a time. The individual now experiences a complete intermission, untill the third ^{day}, brings ^{again} with it a recurrence of the preceding phenomena. And so the chain continues for months, unless

According to the experiments on the
top, the gas is at night in excess of
three grains this excess of gas is
and dissolved in the water.

It is an antiseptic and kills the
to in some higher animals. But in
the first place, we may be asked what
we mean by antiseptic, and I must
begin to say of experience. It is
the fact, when we find in the
microscopic disease, a disease of
this we are told, an individual
is necessary of a that force which
to keep in a state of
may the natural selection may be
to be at last for a time the individual
then a specimen is brought in
under the microscope, and it is
one of the interesting phenomena
to the cause of disease for the

you strike out a link or two by remedial agency, the patient takes the sulphate and a link is stricken out, a thousand do the same all with a like result, the facts prove that periodicity was the grand basis of the morbid action some how or other, and they equally prove that the sulphate of quinine, being its proper antidote, has broken the morbid associations, by its action through the stomach on the nervous system. From these facts may we not proclaim that the true mode of meeting all fevers that are stamped with periodicity whether more or less palpable is by remedies that so affect the organism, as to meet precisely this state of things, and to these remedies are wisely given the title of anti-periodics.

Experience and observation of the many eminent Physicians of our country, have long since convinced them, that, the fevers of the United States, are essentially periodical, and if you would treat them success

your interests and a link in the chain of
empire, the present takes the shape of a
in which you, a thousand in the same old
a like result, the fact is that the
city is on the ground basis of the
some more or less, and they equally
multiplicity of operations, being its
has been the result of association
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other cases facts may be not
that the same mode of including all
are identified with present
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=fully the doctrine of periodicity must never be forgotten; no not for an hour. In short I feel no hesitation in affirming that periodicity can be detected in a very large majority of those fevers not characterized by obvious organic lesions, and that it, is, the most tangible basis for successful remedial efforts.

We are told that, the anti-periodic power of the Sulphate is variously developed. Where the morbid agency is comparatively feeble, and the diseased associations not bound as by an iron band, small doses generally answer all desirable ends. But where the opposite state is present, the success of the medicine will depend very much on the size of the dose, and the quantity introduced into the system, in a given time. By this I wish to imply the endermic use as well as that by the mouth and rectum.

I beg leave just here to introduce the following case furnished by Doct. Mitchell

of Madison; ^{which} I think is in point, it occurred in his practice in the summer of 1845

" Mr. L. aged 35 returned from the South to Madison, and was attacked a week after with a slight chilly sensation, succeeded in a few minutes by an intense and long continued chill, little subsequent fever, and no perspiration. I did not arrive while the patient was in the paroxysm, but learned from those present, that throughout the whole of it there was scarcely any pulsation at the wrist, the countenance was cadaverous, tremors constant, a total lack of motive power, and the entire surface of an icy coldness.

"The aspect of the case was very much that of a dead or dying man. Calculating that it was a case of severe intermittent. I left twenty grains of the sulphate of quinine, to be taken in five grain doses, every hour. I was summoned on the next day, with the tidings that the paroxysm had recurred with great

of medicine; but I think in a point, it resembles
his practice in the treatment of this
case. It was after a week after with all
eight pills, resolution, succeeded in a few days
into of an ordinary and long continued bill
with subsequent fever, and no perspiration.
It did not rise while the patient was in the
hospital, but came from that point
that the original the subject of it was
scarcely any fluctuation at the time the
operation was commenced, it was rather
a total lack of motion, fever, and the
transfer of an eye to the
In respect of the case, it was very much
of a slow or rising course, extending up to
then a case of severe inflammation, with
the pains of the eye, which appeared
taken in few days, and even
disappeared in the next day, with the
that the operation had succeeded with great

serenity; and finding the symptoms much more appalling, I became alarmed for his safety. I determined to remain all night, as the paroxysm began about ten P.M. and fearing another would prove fatal, it was my fixed purpose to put the sulphate to the test, at 5 in the evening, I began with thirty grain doses, and repeated them every half hour, as the untoward effect was manifest, these were continued until 9 P.M.; and now, having administered 240 grains. I thought if the patient was not safe from another fit, medicine could not save him. I discontinued the sulphate, and watched the case till the dreaded hour passed by, there was no recurrence of the paroxysm, and I retired to rest. On the next day, the sulphate was renewed in small doses, and continued for three days, with the effect of complete restoration to health."

The writer continues; This case is a good illustration of some points made and forcibly expressed by

the late Dr. Johnson in his excellent work on the diseases of tropical climates. The patient from residence in the south, had acquired a fixed predisposition to fever. The elements thus far, were incorporated with his being, and all that was needful to display morbid phenomena, was a sufficient exciting cause that was realized in a change of residence to a region decidedly more salubrious. Had the man remained in the South it is more than probable he would have escaped the severe attack which nearly destroyed him. The case teaches moreover, that when ever the evidence of the paroxysm is above the ordinary grade of intermittents. We can scarcely give too much of the sulphate during the intermission.

We may also cite the case reported by Dr. Cobbin, of Virginia, in Dunglison's Medical Intelligencer, of August 1841: It has a very direct application—

The first section of the report is devoted to a
general statement of the facts and circumstances
of the case. It is then followed by a
detailed account of the proceedings in the
court, and a summary of the evidence
adduced on both sides. The report
concludes with the opinion of the court,
and the reasons therefor. The report is
written in a clear and concise style,
and is well adapted for use as a
text-book in the study of law.

The patient had an ague of eighteen months standing, that had resisted various medicinal efforts. Dr. G. applied a blister to each extremity, and one over the epigastrium, an hour before the expected paroxysm. To the denuded surfaces, an ointment was applied, made by rubbing five drachms of the sulphate of quinine with four ounces of simple cerate. The whole of this was spread on cloths, and laid on the blistered surfaces, eight hours after the blisters had been applied. These dressings were not disturbed until the parts had healed. The result was a perfect cure, and that, too, without a single inconvenience.

Associated with the antiperiodic property of quinine, it possesses diaphoretic properties, which latter, not doubt, enhance its value as a febrifuge. it does not probably exert an immediate action on the cutaneous vessels, but possibly, in

The present has an equal of eight or ten
standing, that has never been in
at 1800. Dr. D. applied a liberal
religiously, and in view of the
on how before the reported
thanked the paper, on a
most striking first in a
act of government with
to come. The state of
of the and also in the
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these things are not
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not part of the
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overcoming the diseased action, establishes indirectly the secretory function. By combination with diaphoretic medicines, we may frequently improve this property of Quinine; where gastro-enteric symptoms do not forbid, I believe it is sometimes given in conjunction with the nitrate of potash, with the effect of increasing diaphoresis, and of lessening arterial action.

The question that next arises is, can Quinine be given with safety or advantage at any other stage of fever than during the apyrexia, Many Individuals at the head of whom is Dr. Dudley of Kentucky, censure the practice of using quinine at any other period than during the intermission of fever, I am convinced however, that it may be used with advantage frequently in the other stages, but that proper judgment and discrimination are required, to know when

concerning the observation, that the
indirectly the essential function of the
abstraction with diaphanous medium,
may frequently improve the quality of
the air; but the question of its
value is not yet settled, and it is
not in comparison with the indirect effect
of the effect of increasing the
air, and of increasing the air.
The question that arises is
whether to give with soap, a
at any other stage of the
the apparatus, which is
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because the process of
at any other stage of the
intermediaries of the air,
However, that it may be
stages frequently in the
but that the process
intermediaries are required, the

it may be safely ^{and} judiciously given. In the hot stage of fever, when a very short intermission or remission is expected, or a violent exacerbation is anticipated at the succeeding paroxysm, Quinine I believe may and should be given. Preliminary measures should however be always taken, to obviate, any hurtful tendency that it might at the time exert. These precautionary steps are all such as reduce excitement and counteract local hyperæmia. In this too, we are seconded by those who give quinine in large doses, since they advise anti-phlogistic measures, persuasive to the administration of the sedative doses of quinine. We must of course, deprecate its constant employment in fevers without regard to the period, or other concomitant circumstances. In the cold stage. I have seen it given without, apparently any decided action.

When it is given, in this case, to counteract depression, ammonia, camphor, and warm drinks, are decidedly better. In short, I hesitate not to say, that no state of the system whatever can present a reasonable objection to the use of the Sulphate, unless it be decided gastro-duodenitis, nor am I willing to concede, that even inflammation of the stomach and bowels themselves, should present an insurmountable barrier to its administration.

In corroboration of the foregoing remarks, I beg ^{leave} to make a quotation from, the American Journal of the Medical Sciences, of a case furnished, by Dr. Holmes of Florida, it occurred in his practice in the summer of 1846.

A person in whose recovery great interest was felt by a large circle of Friends, was attacked by a dangerous remittent disease, with signs from the

it may be necessary to provide
 the best stage of preservation
 and to ensure a sufficient
 a certain reaction is maintained at all
 the existing for example, the
 may and should be given. The
 measure should be taken to
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When it is proved in this case, the grounds
of objection, are decided, & it follows that the
fact, that the law, that in state of the
the matter, own, present a reason, &
pardon, to the use of the subject, under
it is not a question of law, & it is not
ing to be proved, that even in the
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Administration.

In continuation of the foregoing
remarks, I beg to make a quotation from
the American Journal of the Medical
Science, for the purpose of showing
of which, it occurs in the
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of which, it occurs in the
great interest was felt, & a large
of which, it occurs in the
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first day of inflammation, and congestion
 in the stomach and intestines. So great
 was the inflammation, as lead one to ~~be~~
 doubt whether it did not take precedence
 of the disease peculiar to the climate, un-
 der which the patient was suffering; the
 evacuations from the bowels were frequent,
 the pain so great on pressure that the wei-
 ght of the bed clothes could scarcely be borne,
 the throbbing of the abdominal aorta could be
 as distinctly counted at the umbilicus as
 over the course of the carotids; the consequ-
 ent weakness peculiar to all such irritati-
 ons of the small intestines was great,
 this irritation had held out against all act-
 ive agents, for six days, with scarcely any
 abatement, but conjoined with this, was the
 disease under which the patient was said
 to be suffering; towards nightfall of every
 day, the extremities would become cold, wh-
 ile the heat of the abdomen was always alone

first day of inflammation, and continues
in the stomach and intestines. It gives
rise to the inflammation, and from the
heat which it sets out the pressure
of the disease. According to the observation
we make, the patient has suffered, the
inflammation from the stomach and
the pain is great in pressure that the
part of the stomach and intestines
the thickness of the abdominal wall
is distinctly visible at the umbilicus
over the course of the vessels, the
and another pressure, to all such
one of the small intestines
The inflammation had been repeated
for several days, with
abatement, but continued with
these marks, and the patient
to be suffering, towards the
day, the inflammation was
to the part of the abdomen

its natural standard; the crown of the head, and lips, the fingers, the feet and limbs would be all cold and livid; this would be succeeded by a fever during the night, which at last attained its acme about ten o'clock on the ensuing morning; during the day, the patient would lay in an exhausted state, until the evening again would bring about the same alarming cold stage, from some access of which so great was the prostration, that it might reasonably be feared a rally could not be made. The physician who had from the first attended the patient, a gentleman of skill in his profession, but impressed with the idea of the irritating power of quinine, had directed his whole efforts towards the irritation of the intestines, letting the fever run its course unchecked, lest the irritating power of the agent in dispute would ~~to~~ aggravate every symptom, being called in consultation; I took the liberty of asking the

Physician in attendance, on the seventh day, how long he thought the patient could exist, with the fever at such a height as it had now attained, his answer was, not for ~~for~~ forty eight hours; and how soon would the simple irritation of the intestines terminate in death, if as uncontrollable as it had heretofore been, "Probably in three or four days" Why not then run this risk of inflammation, check the fever instantly by a large dose of quinine, and have but one disease to contend with, with great hesitation, forty grains of quinine were allowed to be given in two doses in twenty four hours, the next paroxysm of the fever was trifling, and on the ensuing day banished, every effort was now directed to the inflammation, which proved severe and obstinate, but from which, in the course of six weeks the patient recovered. With this we conclude with the anti-periodic powers of the

Sulphate; and now, let me say, if we never know ~~do~~ what is the essence of periodicity, we know what is far more important, viz., the practical fact, that sulphate of quinine is the grand anti-periodic with ^{which} no other agent can be compared, but to be consigned to insignificance.

As a Sedative

I am not aware of any facts, that would positively sustain the sedative action of this remedy. Some intelligent practitioners think it acts thus, even when given in large doses in the stage of high febrile excitement, they suppose it abates the excitement, and thus controls the morbid action. Others regard it as a sedative, when it succeeds in allaying high irritability of the stomach, as seen in ordinary remittents, and in the most malignant form, known as yellow fever. That it has acted most happily in such circumstances, there can be no doubt, and it would

seem to operate then, either as a counter-irritant, ~~or~~ contra-stimulant, or sedative. Nausea and vomiting have been arrested by it, as occurring in most ordinary remittent fevers, and even the black vomit of yellow fever has yielded to its potent sway.

Some of the German and Spanish physicians at Harana give the sulphate of quinine ~~at~~ at a very early period of yellow fever, as soon, in short as they observe any thing like a remission, and they speak favorably of its operation when thus exhibited. In these cases the sulphate of quinine was freely given and with a success so marked, that we should feel justifiable in resorting to it as an invaluable and essential adjunct. Nor is it at all difficult to reconcile the declarations of those who believe in the power of the sulphate to allay this gastric irritability of yellow fever, with the statements of others who laud the value of the remedy, when given in

the earliest remission perceptible in that dreadful malady. We have only to suppose, that the sedative and anti-periodic powers cooperate, to bring about the happy results.

A few remarks on the administration of the Sulphate and I shall dismiss the whole subject

We are told, that the best period, to administer the quinine is, immediately succeeding the decline or abatement of the paroxysm, and at intervals during the intermission or remission. Bearing in mind however that the force of the medicine when properly given in very large doses, is spent in the morbid action to be subdued, in the absence of which the same dose would most probably be injurious. Now we know it is not uncommon for the chill or fever to return at the first accustomed period after the exhibition of the quinine, but it more rarely happens that a second

accession occurs; showing that the ~~xx~~
 medicine required a greater length of time
 to affect the system; and hence this is
 proof that the administration of the
 medicine immediately after the subsi-
 =sidance of the fever is the best period
 for its use. How frequently do we see
 buzzing in ears, & dizziness, take place
 after giving the quinine without arres-
 =ting the chill. Now if these are the spe-
 =cific effects of quinine, why is not the
 paroxysm prevented? It is stated by
 Physicians of eminence, that the full
 effects of quinine are not manifested
 until about eighteen hours after its ad-
 ministrations; This is probably correct. We
 know that in treating quotidian fevers
 if we give quinine on the day the parox-
 ysm occurs, the quotidian will come
 on the succeeding day at the same time,
 despite the quinine; Both the chill and

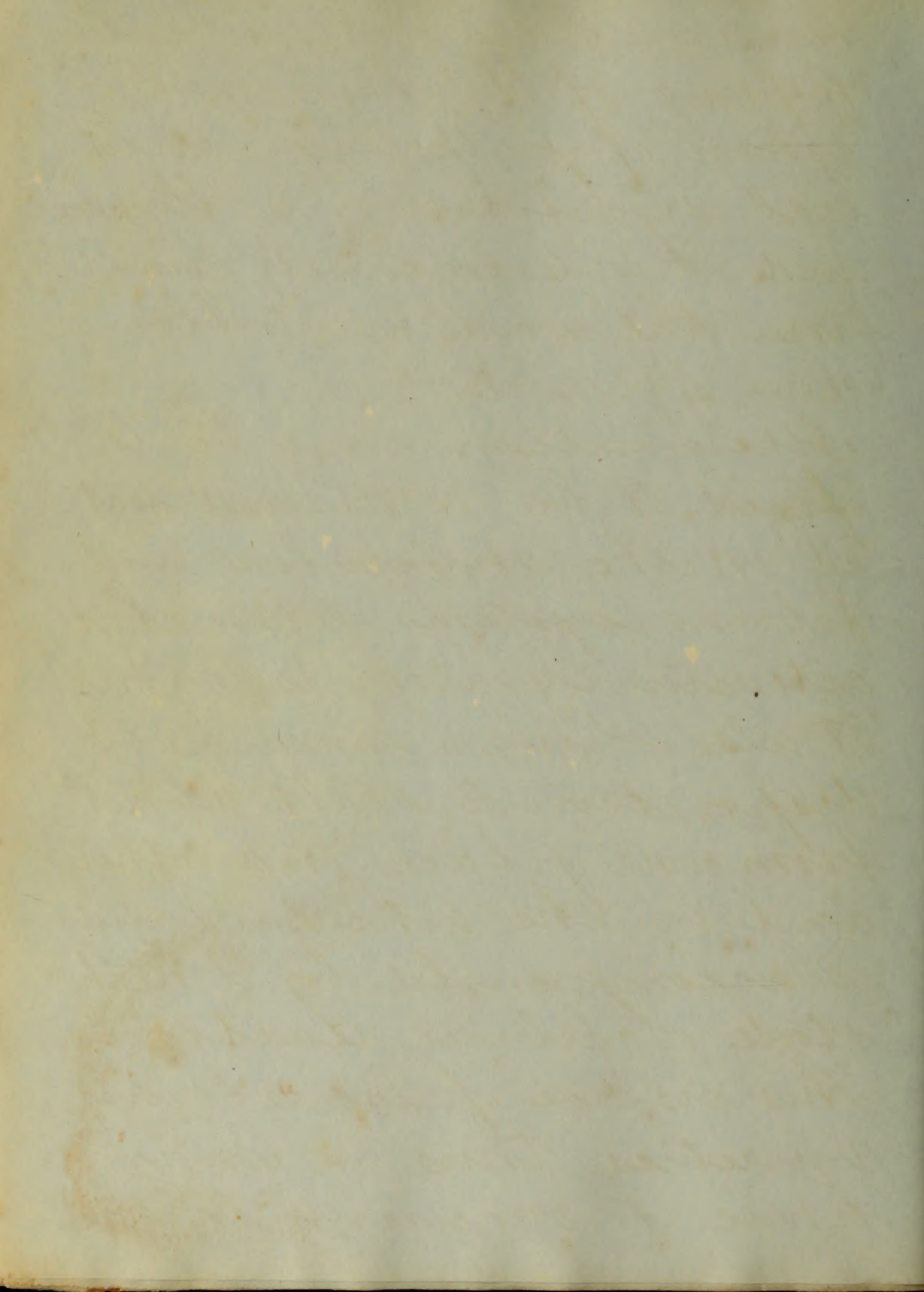
fever, will be of a lighter grade, but will be as distinctly marked, and will remain as long, But on the third day the patient will be entirely free from the disease, and will not experience during any part of the day the slightest symptom of it. In conclusion, I may add, in reference to intermittents and remittents, ^{that} it is said that their prompt arrest, by the liberal use of quinine, is rarely if ever, followed by drop-sy; an event often seen, when those diseases were treated with feeble doses of bark and Snake-root.

An
Inaugural Dissertation
on
Rheumatism
Submitted for the Examination
of the
Provost, Regents, and Faculty of Physic
of the
University of Maryland
for the degree
of
Doctor of Medicine
By
Thomas Daugherty
of Maryland
Feb'y 1848.



The word Rheumatism is the offspring of the humoral school of pathology. Its literal signification is "fluxion," and it is primitively derived from the word "πεω," to flow; "ρευμα", a fluxion.

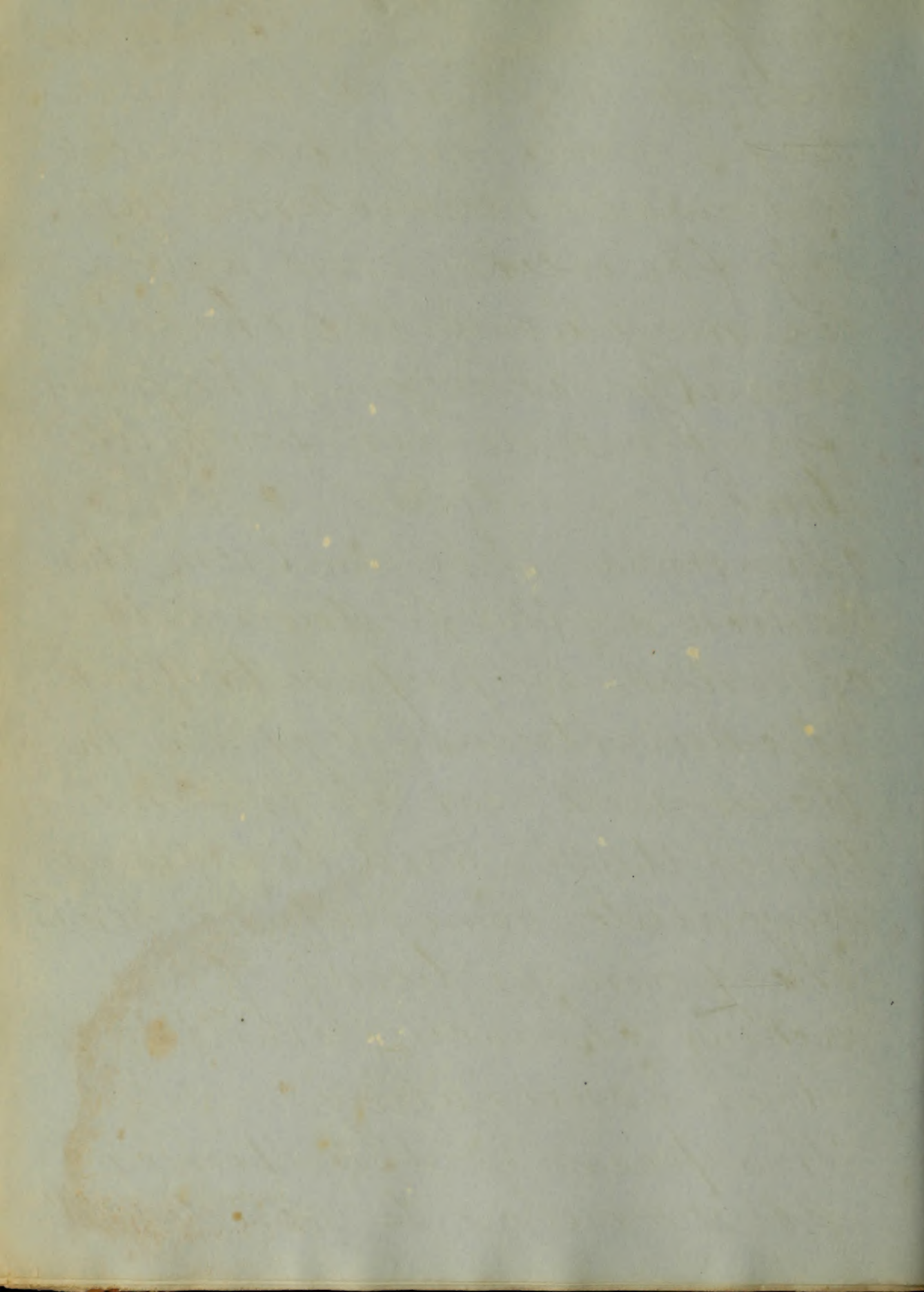
Rheumatism may be defined to be, a disease seated in the muscular and fibrous systems, whose characteristic symptom is pain. It also shows a remarkable disposition to shift about from one place to another; and in the articular variety is accompanied by a high state of febrile reaction. This disease presents several varieties: thus we may have it occurring in the



simple muscular form, and
lasting only a few hours or
days; or we may have acute
articular rheumatism last-
ing for weeks; and again,
we may have the chronic
variety, annoying the patient
for years, or even for a life
time.

Muscular rheumatism, then,
which is the first variety
of which we propose to speak,
is characterised by pain in
the muscle, which is some-
times dull, and sometimes
very acute. Some patients describe
the pain as being of an
aching character; others say
it is lancinating.

This pain is sometimes
so severe as to render all



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motion utterly out of the ques-
-tion: it is diffused, and is
very much increased by
pressure. Now in Rheumatism
when pressure is made, pain
is only developed in certain
points, whereas in the malady
before us, as we have just
seen, it is diffused over a
considerable space.

In this variety there is no
alteration of the skin over the
affected part: there is neither
redness, heat, nor swelling.

In the majority of cases of
Muscular Rheumatism there
is no accompanying fever,
and after death no anatom-
-ical lesions are discovered.
We have no general disturbance
of the system, except, watch-

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-fulness and wakefulness, occasion-
-ed by the pain.

As this disease attacks muscles in different parts of the body, we will have different sym-
-toms. When the muscles of the chest are the seat of the af-
-fection, respiration is inter-
-fered with; the patient being afraid to breath freely and fully on account of the ex-
-quisite pain produced in the muscles. If the abdom-
-inal muscles are affected the patient breaths entirely with his thoracic muscles.

Now this disease may last a few hours, or it may exist for months. It may exist alone, as a distinct malady, or be con-
-joined with articular rheumatism.

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When it is complicated with articula rheumatism, we always have fever.

We have already intimated that any muscle may be the seat of this disease, but it has been observed, that, the muscles of the trunk, and those near the trunk, are much more liable to be attacked than those of the extremities.

This disease is common to old persons, but not often^{met} with in children. It is more common to men than to women, because, perhaps they are more exposed to the causes which produce it.

With regard to the causes producing this disorder we may enumerate cold and moisture,

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as the most common. Luxury
and idleness, also may give
rise to it, or it may arise spon-
taneously or from bodily fatigue.
Treatment. When the pain
is very acute our most efficient
means is the local abstraction
of blood by means of cups
or leeches. This is the most
certain remedy, often effecting
an immediate and perfect
cure. If the symptoms are not
entirely relieved by its first
employment, it will be very
proper to repeat it. When
the pain is not so acute, we
may use revulsive means:

apply stimulating liniments
to the integuments covering
the muscle. We may employ
diaphoretic drinks; a decoction

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

of *Eupatorium perfoliatum* [?]
or common boneset will answer
as well as any other. We may
employ warm fomentations;
cloths wrung out in warm wa-
-ter, which may be qualified
with an anodyne, as the watery
solution of opium. We may
use as an alterative, Iodide
of Potassium, or we may give
Phosphate Ammonia. The bowels
should be kept regular and
if necessary rest should be enjoin-
-ed. These means together with
the employment of the warm,
the vapour, and the sulphur
bath, will generally be found
all sufficient to bring about
a cure.

We have already remarked
that this disease may affect

any muscle in the body: Now
it may seize upon muscles
in certain regions of the body,
and give rise to symptoms
which are characteristic of
serious maladies, seated in
the same regions: and then it
becomes a disease of very
great interest, and it is im-
portant that our diagnosis
should be correct in such
cases.

Let us then before leaving
this part of our subject
examine some of the more
important seats of the dis-
ease.

In the first place we may
have it seated in the tho-
-racic muscles; it is then
called Pleurodynia. This

form is characterised by an acute pain, which has usually the seat and character of the pain of pleurisy. It is felt a little below the breast, and is increased by pressure or the least motion of the body. It is very much increased by breathing, and if cough be present it is almost intolerable. An effect of this state of the muscles is, that inspiration is less full on the affected side, and consequently the respiratory murmur is not quite so loud. When we take into consideration the entire absence of fever and the want of the physical signs, we will not be likely to confound pleurodynia with pleurisy. In pleurisy

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fever is rarely absent, in pleuro-
-dynia seldom present.

In this form the great resort
is to local depletion.

Another seat of this disease,
though, perhaps, not so com-
-mon as the form we have
just been speaking of, is in
the abdominal muscles, now
when thus seated, the least
motion inflicts upon the
patient the most exquisite
pain: he lies upon his back
like a log, and looks very
much like a person labour-
-ing under peritonitis. The
bowels are apt to be constipated
from the fact, that, the patient
is afraid to make the move-
-ments necessary to evacuate
them, so excruciating is

the pain occasioned by every motion. Constipation may lead us to suspect colica pictonum; but when we remember that the pain of colic is relieved by pressure, whereas in the disease before us it is very much increased, we will not be likely to make the mistake. Again peritonitis is accompanied by fever, and this will prevent us from mistaking it for abdominal rheumatism; which, latter is not attended by febrile reaction. Local depletion, warm fomentations, &c are the means to be depended on in this form. Another form of this variety of rheumatism is called Lumbago. The pain is seated in the muscles on one or both

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sides of the spine, in the lum-
-bar region, and is very much
aggravated by every motion
of the body. The patient is
stretched upon his back, and
is incapable of any motion,
the slightest change in posture,
producing pain which is
almost insupportable. Some-
-times the pain may be less
acute and then the patient
is able to walk, but his body
is perfectly stiff, and he is
unable to stoop or to turn un-
-less by a movement of the
whole body. How many
febrile disorders, especially
the exanthematous, are pre-
-ceded by severe pains in
the loins, but we must recol-
-lect, that they are accompan-

- red by other symptoms which indicate their true nature, and are scarcely or not at all aggravated by motion. Affections of the kidneys and uterus have peculiar symptoms by which they may be distinguished. In affections of the spinal cord, the lesion of sensibility and mobility in the lower extremities will prevent us from thinking we have a case of lumbago. Lumbago is sometimes very obstinate and is also apt to return. As in the other cases we resort to cups, the use of which must be persevered in until the symptoms are alleviated. We also employ narcotic liniments, keep the patient in bed, use mild purgatives, and order low diet. If the sym.

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-toms persist after a fair trial of
the aboved named means, we
may apply blisters to the loins,
and dress the blistered surface with
Muriate of Morphia.

The occipito-frontalis muscle may
be the seat of this disease, giving
rise to severe headache. If we make
pressure ~~on~~ the anterior and posterior
bellies of the muscle we increase
the pain; frowning also gives rise to
intense pain. It is distinguished
from painful syphilitic nodes, by
the rough prominens these make
upon the head; and from erysipelas
by the doughy feel which it com-
-municates. It must also be treated
by local bloodletting and the
internal administration of alteratives
The last muscle which I shall
designate as the seat of rheumatism

is the sterno-mastoid, giving rise ⁷⁵
to that slight but vexatious af-
-fection commonly called crick
of the neck. This is generally caused
by exposure to a draught of cold
air, or by awkward position, or it
may be produced by an abrupt
turn of the head. The head is
drawn to the side affected, and any
deviation from that position is
accompanied by so much pain,
that the patient carefully avoids
all motions of the neck: keeping his
head in a fixed and characteristic
attitude. This is a trivial complaint
and generally yields pretty prompt-
-ly to frictions with the hand or
with warm laudanum: If these
means fail, as sometimes happens,
a few leeches will give relief.
Rheumatism of the muscles of

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the extremities is not so common,
nor generally so severe as the varie-
ties we have been considering. When
it does occur it is most frequently in
those which are near the trunk, as
the Deltoid, and should be treated
by stimulating and opiate liniments.
Local bleeding is not advisable.

A more serious variety of Rheuma-
-tism, than the one we have had
under consideration, is that, which
is called Acute articular rheumatism
or Inflammatory rheumatic fever.
This variety is seated in the fibrous
tissue, and is essentially an inflamma-
-tion of that tissue; but the in-
-flammation is of a peculiar or
specific kind. Doubtless other
tissues also surrounding the joint
may be involved; but then, it is
through what is styled contiguous

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sympathy. The terminations of
common inflammation are
not found to be the same as
those of inflammation of the
fibrous tissues, and this is a point
of some practical importance

The symptoms of this variety
are redness, heat, pain, and
swelling, with fever. Now this
fever is of a high inflammatory
kind: the pulse is full and bound-
-ing; the cheeks are flushed:
there is headache; and copious
drenching sweat of an acid
smell. These perspirations are ex-
ceedingly distressing and weak-
-ning to the patient, but afford
him no relief. The tongue is
covered with a thick, white, dirty
-ish fur, and is red at its tip
and edges: the bowels are consti-

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-pated; the urine is scanty and high coloured and deposits a brick dust sediment on standing. The blood is cupped, and presents a buffy coat, which lasts throughout the disease, and cannot be removed by the lancet.

I should have remarked, that, the large joints are more frequently the seat of this disease; though the small ones are by no means exempt from it.

There is one peculiarity, which is perfectly characteristic of this disease, and which serves to distinguish it from all other inflammation; and that is, its remarkable tendency to change its position. Now this metastasis, as it is technically termed, generally takes place in the night; we may leave our

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in the evening suffering with acute pain in a certain joint, attended by all the other signs of inflammation, and in the morning find that joint entirely well, and another in a different part of the body suffering. In this way all the joints of the body may be attacked successively. But, there is a large internal organ, for which this disease shows a decided partiality, and that is the heart. Now when the membranes of this organ are implicated the disease assumes a very serious aspect. We have here a vital organ, and when its motions are arrested, life ceases. This migration, therefore, should constantly be suspected and watched for; in order that it may be attacked by the proper remedies at the

start.

Of all the local symptoms, pain is the most constant; and next perhaps, is the swelling. This swelling differ in different cases; and indeed two varieties of acute rheumatism have been made out; to which, the names of fibrous or diffused, and synovial rheumatism have been given.

In the first, the inflammation commences in the neighborhood of a large joint; at first there is not much redness or swelling, but after awhile the parts become puffy, owing perhaps to turgescence of the blood-vessels; and at length oedema occurs from effusion into the surrounding areolar tissue.

In the synovial variety the swelling comes on soon after the pain is felt, and is due in this

21
case to fluid poured out into the
cavity of the joint. The form
and character of the swelling
indicate that the synovial Mem-
-brane is distended; it protudes
through the spaces between the
tendons and ligaments, and upon
applying our hands we detect
fluctuation.

It is in the fibrous form, that we
have such high fever, (and I
should have observed, that, this fever
may last after all the local sym-
-toms have disappeared,) and other
constitutional disturbances: when
-as in the synovial variety all
the symptoms, are less intense, and
there is not half so much danger
of the heart being complicated.
This variety, though perhaps, the
safer to the patient, as far as

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Life is concerned, is nevertheless very tedious, and sometimes rather unmanageable, and may degenerate into structural disorganization.

Acute articular rheumatism may be transferred to any fibro-serous membrane. We may have it complicated with pleurisy - peritonitis - or acute meningitis; but the most common and serious complication is the membranes of the heart. We may also ^{have} pneumonia; not so much from metastasis as from the operation of the exciting cause of rheumatism, cold.

The duration of this disease varies. Under judicious treatment it may get well in ten days, but a more common duration is three weeks. It may last three months. It may occur at any period of life, but

is most common from puberty to the thirtieth or fourtheth year.

When it occurs in children, we are almost sure to have the heart complicated. Men are more liable to it than women, for a reason we have already assigned. About one half of the cases are owing to an hereditary taint, but no one enjoys an immunity from its attacks.

Cold combined with moisture is its most common exciting cause.

Fatigue also may operate as a cause to produce it. Persons who have suffered one attack are forever after liable to a recurrence of the disease.

They seem to be peculiarly irritable and sensitive; the least atmospheric vicissitudes being felt by them, and changes of weather, predicted

with remarkable precision. This 24
disease may occur in any climate,
but is more commonly met with
in our variable and temperate climate.
In cold and moist climates as
England and Holland it is very
common.

Treatment. We need no other proof,
than the many plans, and exclusive
treatments of Rheumatism, which have
been recommended, and adopted
and again fallen into disrepute,
to convince us that there is no
specific, no absolute treatment
for this disease. Whatever plan
of treatment we may see fit to adopt,
the sooner we begin it, the greater
will be our chances of success.

The first means that will claim
our attention is bloodletting. Now
whether we employ this means or

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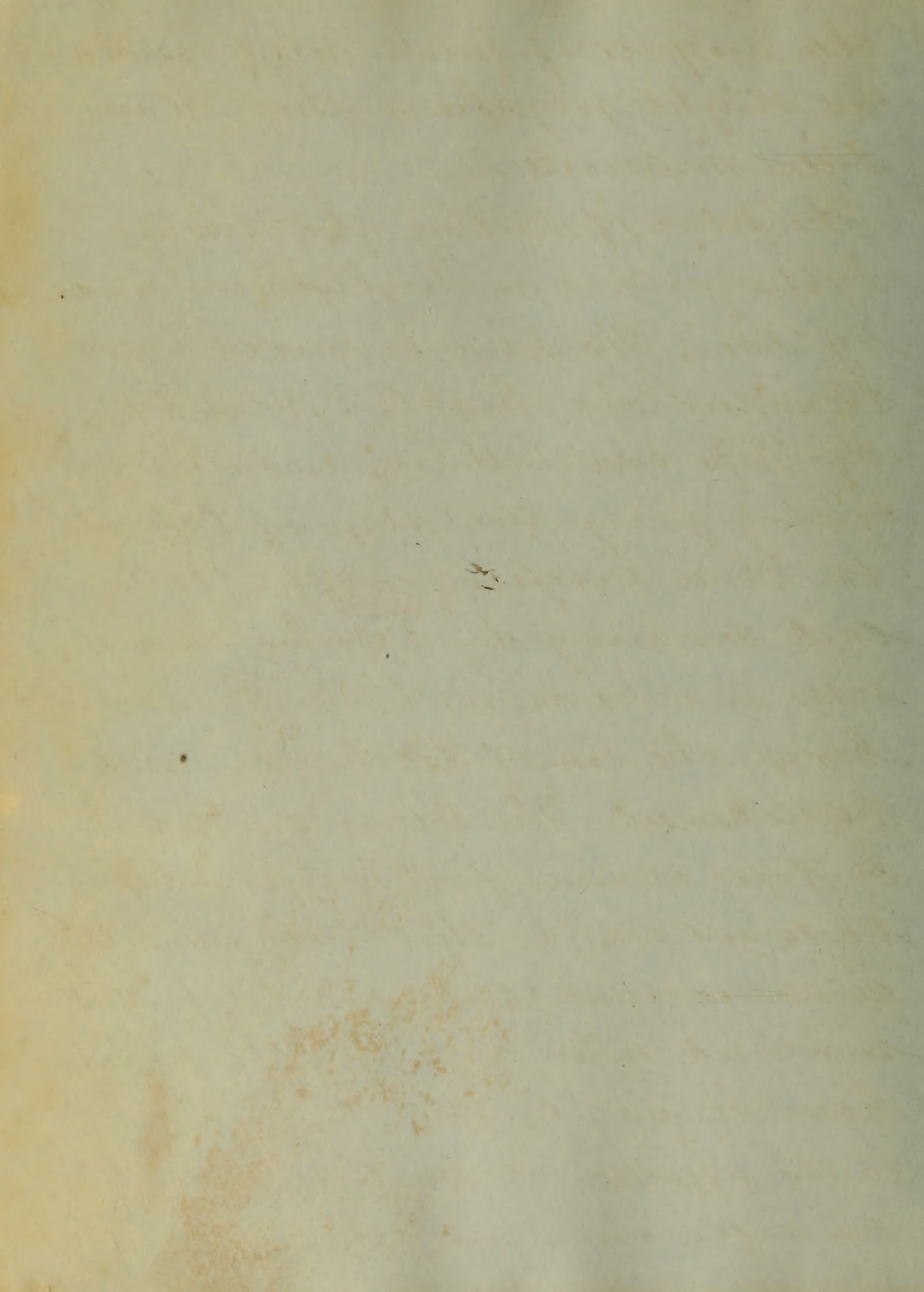
not will depend altogether upon
the condition of our patient.
In robust and plethoric patients
blood letting practiced early will
be serviceable. When the patient is
weak and delicate we must be ~~careful~~
-tions how we employ the lancet.
We cannot depend upon bloodletting
alone to cure the disease: it can ~~only~~
be considered as a very useful ad-
-juvant to other judicious treatment
It has been noticed that profuse
bleeding, favours metastasis to
the heart. Local bloodletting is of
very little value: we only cure the
disease in one joint to have it appear
in another. If the disease is confined
to one joint we may then resort
to local depletion with some hope
of doing good. Respecting local means
generally, I had as well observe

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here as elsewhere, that they are not to
be relied upon in this variety of the
disease.

We have seen, that the joint is ex-
-quisitely tender and painful, so
much so indeed as to deprive the
patient of sleep; now to mitigate this
pain, and to procure sleep, we employ
anodynes; Opium or Dover's powder, and
it is really surprizing to see what
large doses are borne in such cases.
Some rely upon opium as an exclu-
-sive means; but we only view it as
we did bloodletting, as an auxiliary.
In cases attended with much suffering,
when the use of opium is indispen-
-sable, after judicious depletion with
the lancet and with purgatives, the
Calomel and opium practice may
be adopted with the effect of
affording present comfort, and

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the prospect of future relief, as soon as slight ptyalism shall have been induced.

The plan of treating the disease by purgatives, is highly recommended by some. The plan proposed by Dr Chambers and highly extolled by Dr Hope and Latham, consists in giving purgative doses of Calomel for three successive nights, followed each morning by a strong dose of salts and senna; with this is combined the use of Colchicum and Dover's powder. The advantages which Dr Hope claims for this plan of treatment are; 1. That the patient is generally sound, well and fit for work in a week or ten days after the pains have ceased. 2. That the gums are rarely affected. 3. That it is rare to see inflammation of the heart if



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this treatment is early begun. 4. That
If the slightest symptoms of endo- or
peri-carditis do supervene, a few doses
of calomel and opium, given every
four or six hours, will generally ef-
fect the constitution in twenty or thirty
hours, which, with two or three cup-
pings or leechings on the region of
heart, almost always place the patient
in a state of safety. Notwithstanding
such good effects are said to result
from such a course, a serious objection
is the pain inflicted on the patient
for the necessary motion, for such
frequent evacuations, and also his
exposure to cold. Doubtless however, this,
combined with other judicious treat-
ment, would be followed by happy
results.

Another plan of treatment is by
alkalis, and this is considered a

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very judicious plan. They should
be freely administered throughout
the whole course of the disease.

We may give Acetate Ammonia,
Nitrate Potash, or Phosphate Ammonia
as recommended by Dr Buckle of
this city. With the use of alkalis
we combine the use of Colchicum.
This latter remedy is looked upon as
having a specific action in the cure
of Rheumatism. Its good effect cannot
for a moment be doubted.

The patient should be covered
up in bed, and his supply of
diet cut off. Diaphoretics are
to be avoided; we have already
seen, that the patient has profuse
sweats.

Bark used to be highly thought
of, for the cure of Rheumatism,
but it is only during convalescence

70
or when the disease is strictly in-
- termittent, that we may expect
any benefit from it. It is useful
when in fortifying the constitution
against a relapse.

Wine is another remedy, which
has recently been depended upon
as an exclusive means.

In the chronic form of the disease,
we find it necessary to sustain
the patients general health by
allowing a generous diet, and to
use medicines of a warm or stim-
- ulating character.

As in the acute so in the chronic
variety, Mercury is found to be useful.
We may exhibit it internally, and
also rub the affected part with
the compound liniment of Mercury.
Hydriodate of potash is another
of the remedies, from the use of

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which, we may expect happy results.
Use it both internally and externally.

In this variety, surprising results are
said to follow the free use of Phosphate
ammonia.

Guaiacum is a popular remedy in
chronic rheumatism. In cases of
great debility, with coldness of surface,
and in old persons the ammoniacal
tincture will be found beneficial.

To the list of medicines we have named
we may add, Cod liver oil. This
oil contains Chloride of calcium, Chlor
of sodium, Sulphate of potash, Iodine
and Bromine. Some refer its good
effects to the Iodine, which it con-
tains; while others denying, that
Iodine is its active principal,
say, that Bromine is the useful
element



An
Inaugural Dissertation
on
Phthisis Pulmonalis

Submitted to the Examination
of the
Provost, Regents & Faculty of Physic
of the
University of Maryland
for the
Degree of Doctor of Medicine
By
Elias C. Price

of Maryland
" " "

Feb 1st 1848
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<sup>W</sup>  
O  
William Power M.D.

Professor of the Theory & Practice of Medicine  
in the  
University of Maryland  
his Essay

Is most Respectfully Dedicated,  
as a Mark of respect and  
admiration for his high Professional  
attainments; and for his kindness  
to the

Author  
~~~~~


Phthisis Pulmonalis.

The disease of which I propose to treat, may well be called one of the scourges of our land. It is a disease concerning which much has been written, and much has been said. It has afforded an extensive field of investigation for the Pathologist, and an almost extensive one, for the speculations of the Physiologist; and it will still remain an inexhaustible subject, so long as it remains incurable. Perhaps in no subject is the happiness of mankind more deeply involved, than in the investigation of this disease; for what is most to be lamented is, that it is generally, the young, the fair and the beautiful, and those that have a precocious intellect, and highly cultivated mind, that the fell destroyer marks for his prey. Thus is Society deprived of many of its most promising and useful members, some of whom fall in their pathway

in the prime of life, while others are mis-
ferred ere the bud has fairly bloomed.

It is not a disease of any particular sit-
uation; but appears to be known (with per-
haps a few exceptions) throughout the civ-
ilized world. I should judge that savages are
not so prone to this disease as their more del-
icate and civilized neighbours; for where the
luxuries of a civilized life are multiplied,
there are diseases multiplied also.

It seems to be almost inseparably con-
nected with the scrofulous diathesis, though
the scrofulous diathesis, may, and does occur,
without phthisis, yet I believe that phthisis
seldom occurs, without this diathesis.

It prevails to a great extent in low, cold
and damp situations, especially along the
sea-coast where persons are exposed to the
damp wind that sweeps over the ocean:
for instance, it is a very common disease along
our New England coast. So prevalent is
this disease, that there is scarcely an individual

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who has not had to mourn the loss, of either
a relative or a friend, by this fatal malady.
The prevalence of the disease would be a mat-
ter of but small consideration, were it not
for the almost certain fatality that attends
it.

It is startling to read the assertions made
by physicians, as to the mortality by this
disease; the average appears to be about one
fifth; others that are more incredulous are
willing to acknowledge that at least one sixth
of the human family die of this fearful
malady. In looking over one of the bills
of mortality in August, I noticed the aver-
age of deaths set down under the list of
consumption, was about the former num-
ber. This account was taken when sum-
mer diseases had been, and still were quite
prevalant.

Causes— This disease like Scrofula is frequent
ly hereditary; but it is not a necessary con-
sequence that a man shall die of phthisis

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because one of his parents have died of that disease; but if they both die of it, his chance of escape is very small. Certain occupations appear to predispose to it; some by debilitating and lowering the general tone of the system, others by keeping the patient constantly exposed to the direct application of local irritants to the lungs themselves; as, Stone-cutters, Miners, Metal-grinders &c. Also those that are employed in a bending posture, as shoemakers tailors &c. Depressing mental emotions are said to produce it; as disappointed love, grief, fear and the like. It frequently follows as the sequelae of some depressing or inflammatory disease; of the former typhoid fever seems to exert the greatest influence in producing it; probably by changing the properties of the blood. But we do not wish to be understood to say that inflammation will develope tubercles, but if they are present we believe it will hasten the fatal catastrophe

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When phthisis follows small pox or measles, perhaps it is not owing so much to the inflammation, as to some change which they have produced in the constitution.

Formation of tubercles—The tubercular matter is deposited from the blood, owing perhaps to an undue elaboration of the fibrine thereof, which being deficient in quality, is unfit for the formative process which is constantly being carried on in the human body; for we are aware that all parts of the body are continually being absorbed, and carried off by the blood, upon the one hand; while upon the other, it is continually being repaired and built up by the same fluid. We can understand, therefore, that such constant deficiency in plasticity, must affect the ordinary nutritive process; and that there will be a liability to the deposit of cacoplastic products, instead of the normal elements of tissue; which having no vitality degenerate into tubercles. Whenever tubercles are

deposited, they are liable to increase in size by the continual accretion of matter of the same kind, and which not unfrequently causes several of them to coalesce together.

The true tubercles as they have been called, are of a yellowish color, friable, opaque, non-vascular, and about the firmness and consistence of cheese. There is also another variety, which Dr Carpenter in contradistinction to the above, has called the aplastic tubercle. They have been called by others miliary tubercles.

In this form we find traces of organization in the form of cells and fibres, more or less obvious; they never undergo further organization and are thought by some to be capable of being transformed into the crude cheesy tubercle: at all events, they appear to be very closely connected, for one seldom occurs without the other.

They are of a bluish-gray color, semi-transparent and almost as hard as cartilage. They are less prone to soften than the other form.

Softening - After the tubercles have laid

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in the lungs for a longer or shorter time, owing to some cause which is not very well understood, they begin to soften; this mostly takes place in, or near the centre.

Simultaneously with this change, and owing perhaps to the irritating properties of the confined matter, inflammation and finally ulceration is set up in the adjacent parts, which thus opens a direct communication from the matter to the bronchial tubes. By the compression which takes place in the act of coughing, the tubercular matter is dislodged, thrown into the bronchial tubes, coughed up and expectorated: thus leaving a cavity in the part which they occupied.

These cavities we are told are sometimes lined by secreting membranes formed of fibrous exudation: sometimes there is no membrane intervening, nothing but the rough ulcerated edges of the parenchyma of the lung.

These cavities are seldom empty as we might by their name, be led apriori to suppose:

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Their contents consists of pus secreted by the lining Membrane or from the surrounding tissues, which is sometimes mixed with a small quantity of blood, and occasionally with tubercular Matter.

Large blood vessels are seldom laid open by the ulceration. Nature seems to anticipate the consequence, and therefore, take the precaution to obliterate their calibre, and render them impermeable to the passage of the blood. They are frequently found looking like a hard cord, stretched across the cavity. But when they do get laid open (which very rarely happens) fatal haemorrhage is the consequence. Sometimes an oozing, or exhalation, of a small quantity of blood takes place from the surface of the cavity, which tinges the expectoration.

Generally after this change is ^{once} set up in the lungs; it progresses until so large a portion of the lungs is destroyed, that it becomes incompatible with the longer existence of life.

Over the left, when a single vomica occurs, the sides may unite together and cicatrize, and the patient be restored to a state of comparatively good health. Again, the watery and albuminous portions may be absorbed, leaving the earthy or saline portions, which may be converted into calcareous concretions, and lie dormant in the lungs for years, or even for life, giving the patient but little uneasiness.

The cavities vary very much in size, some of them will scarcely contain a pea, while others may be as large as a goose's egg, or even larger.

It is said that when the tubercles are few in number, they seem to occupy by preference, the upper, and back part of the upper lobes of the lungs; and also that it is the left lung that is affected (when only one lung is diseased), in a large majority of cases. Now the knowledge of this fact is of no small importance to the practicing physician, for when he is

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apprehensive that his patient has incipient phthisis, it is only requisite for him to examine the upper part of the Thorax, and if he is well versed in the physical signs, he may soon either quiet or confirm his fears.

Adhesion of the pleura is almost a constant concomitant of phthisis; especially if the disease be very extensive. Sometimes though very rarely perforation of the same membrane takes place. The adhesion of the pleura frequently affords a valuable diagnostic symptom; for as the upper portion of the lung wastes and shrinks away, it carries down with it the adherent portion of the pleura; and it being firmly attached to the parts above, carries them down also; frequently forming quite a fossa, in the clavicular and acromial regions.

The bronchia are always more or less inflamed in the advanced stages of phthisis; especially those that communicate with the tuberculous cavities. Frequently there is ulceration of

the larynx and trachea, or of the mucous membrane lining those parts. It appears that ulceration of these parts, are peculiar to this disease, and syphilis only.

From the text it would appear that this is exclusively a pulmonary disease; but this is by no means the case; tubercles not unfrequently occupy, to a greater or less extent, the intestinal glands. Here as in the lungs, they pass through their different stages, soften down, and escape, leaving a ragged looking ulcer. Perforation into the serous sac of the peritoneum is very rare, owing to the adhesive inflammation that is set up in this membrane, glueing it to the surrounding parts, and thus forming a wall which prevents the escape of the contents of the bowels. I might here remark, that ulceration of the intestinal glands seems peculiar to this disease, and typhoid fever.

Again we sometimes have miliary granulations or (as Louis calls them,) tubercles, deposited in the omentum; sometimes with

and sometimes without corresponding tubercles in the lungs. 12

There is also serofulous tubercles sometimes situated in the brain, but whether they are always connected with phthisis pulmonalis, I am unable to say. In fact there seems to be scarcely a living tissue in the human body which is not liable in a greater or less degree to this deposit.

Sometimes small spherical bodies are expectorated (particularly in the morning) bearing some resemblance to the tubercles of phthisis. They sometimes very much alarm the individual. They are secreted by the mucous follicles of the tonsils, and may very easily be distinguished from the tubercles of phthisis, by simply rubbing them between the fingers, when they emit a very foetid and disagreeable stench.

Dr Watson says "the stomach is often much enlarged and thinned in those who die of consumption; and that the liver is apt to under-

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- go a remarkable change, almost peculiar I believe, to this disease. It too, enlarges, and becomes full of adipose matter, greasing the hand and scalpel of the anatomist, and yielding, when heated, an oily substance, which makes a grease spot on paper placed in contact with it. The whole gland partakes in the alteration, is of soft consistence, loses its natural red tint, and assumes a pale fawn color."

This degeneration is denominated the "fatty liver."

This disease appears most commonly to assail its victims in the prime of life.

It is less frequent in old age, and its fatality seems to diminish according to the advanced age of the patient before he is attacked by it.

It most frequently occurs between the age of twenty and thirty; but it is by no means an uncommon disease in infancy, and from that time up to the period of puberty. My Preceptor,

Dr. Mahlon C. Price, performed a post mortem on a child but a few weeks old, and found its lung literally stuffed with tubercles.

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Women appear to be more liable to this disease than men: it appears in them at an earlier age, and is generally more rapid in its march.

The duration of phthisis is exceedingly variable. Sometimes it runs its course in a few weeks; again it has been known to last for many years. I am acquainted with an elderly Lady who tells me that she has had the disease for about twenty-five years, and that her mother had it about the same length of time. She enjoys a moderate share of health, and is able to attend to her domestic affairs: though she has a very harassing cough, and sometimes hectic fever.

Symptoms—The incipient stage of phthisis may frequently pass, unnoticed and unknown, both to the patient and his physician; unless it is scrupulously searched for. Cough is generally the first thing that attracts the patient's attention; it is at first dry and hacking, and only harassing the patient at intervals, or when he makes violent exertions: it appears to him

to be caused by some irritation about the throat. It frequently leaves the patient during the summer, and returns again with the approaching winter. After running on for a longer or shorter time, it begins to trouble the patient through the night; and is attended with more or less expectoration. The cough is not however always present; but is generally the most distressing symptom.

If we find tubercular matter in the sputa, we may be certain as to the nature of the disease. The rummular sputa of the French, is said to be characteristic of this disease; but to this there appears to be a few exceptions.

Dyspnoea is not a very important symptom, as it is frequently present in other diseases, and sometimes not very marked in this.

Pain is sometimes felt between the shoulders, in the side or near the sternum, but sometimes it is absent. "When sharp pain occurs in the side, it may be supposed to mark the occurrence of adhesion of the pleura to the painful

part. There is however one contingency, of which the two last symptoms are very significant. When, during the progress of phthisis, violent pain of the side, and extreme dyspnoea and anxiety set in suddenly, they denote, with much certainty, ^{adhesion} of the pleura and its serious consequences.

Haemorrhage is also an important symptom, when it occurs unconnected with injuries of the chest, disorder of the uterine functions, or diseases of the heart. Blood may sometimes come from the posterior nares and fauces; but its quantity in this case is seldom sufficient to create alarm. At all events its source can generally be ascertained.

All these symptoms are frequently present before the physician is consulted: and then but too frequently he is only to be a spectator to sufferings which he can but partially alleviate.

It was a happy era for the science of medicine when auscultation, percussion and palpation were discovered, and finally united in exploring the

healthy and diseased conditions of the hidden regions of the human body. But it is not our business to eulogize those discoveries, it doubtless long since has been done by an abler pen than ours, we will therefore proceed with our subject.

Physical signs. And first inspection. Simple inspection of the chest may teach us a great deal in this disease. If the disease is far advanced we have emaciation; depression above and beneath the clavicle, which ^{causes} the clavicle of the affected side to look more prominent than natural. Sometime also there is depression in the intercostal spaces

But before we proceed further, we must lay down something as a landmark, to guide us in our description of the symptoms. Louis following the example of Laennec, has divided phthisis into two principal stages; "the one anterior, and the other subsequent to the softening and evacuation of the tuberculous matter of the bronchia". Physical signs of the First Stage. In the early part of this stage

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Auscultation gives us but little information; but when the tubercles become more developed, respiration becomes rude, expiration is prolonged, & there is a blowing or tuber sound.

Percussion, also at an early period gives but information, but as the disease advances it gives a dull sound over the affected region.

Palpation comes to our assistance earlier and consequently teaches us more. By laying the hand upon the chest and getting patient to speak we perceive the vocal thrill.

Second Stage. Auscultation now gives us bronchial sound and absence of vesicular murmur. If there is a cavity we have a splashing or gurgling sound; if the cavity be empty there is what is called cavernous respiration; if it be very large there may be pectoriloquy.

Percussion - ~~increased~~ increased, unless cavity very large.

Palpation - increased vocal thrill. If the cavity contains much liquid we feel a splashing sensation.

Diagnosis. The diagnosis is not always very easy yet by grouping the foregoing symptoms together we can generally make out the

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character of the disease. We will not take the trouble to recapitulate the symptoms.

Differential Diagnosis. We may have several of the physical signs I have mentioned present in pneumonia, but other pneumonic symptoms are generally wanting. One very important point in making up our differential diagnosis is the knowledge of the different places of selection of the two diseases. We should bear in mind, that phthisis almost invariably first attacks the upper, and pneumonia the lower portions of the lungs.

The disease with which incipient phthisis is most likely to be confounded, is chronic bronchitis: yet the leading features of the two are well contrasted: by the haemoptysis that attends the one, by the expectoration that attends the early stage of the other: by the pain of the former being situated in the side and between the shoulders; that of the latter beneath the sternum; and also by bronchitis generally attacking the lower lobes of the lungs.

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Symptoms that come on in the Second Stage. As the disease advances hectic fever usually supervenes. This is a very distressing symptom, and it very rapidly reduces the strength of the patient. It usually comes on towards evening with a chilly sensation, followed by fever and a burning sensation of the palms of the hands, and soles of the feet; and in the morning, is followed by a profuse perspiration.

Sometimes aphonia takes place, it may last for a long time before death. Frequently there is only a partial loss of voice, or hoarseness.

The pulse is generally frequent it often amounts to 120, sometimes to 130 or even more in the minute. In some cases however it remains unaffected as to frequency, during the whole course of the disease.

Another symptom is the curved or bird's claw-nail, which is caused by the emaciation and is liable to occur in other wasting diseases: It cannot, therefore, be looked upon being entirely pathognomonic.

Diarrhea is frequently present in this disease, I have seen two cases of phthisis during the past spring and summer, in the practice of my Preceptor, both of which were complicated, and both of which proved fatal. One was complicated with typhoid pneumonia, the other with hypertrophy of the heart. In the former case diarrhea came on a few days before the patients death: for a time medicine seemed to exert some influence over it; but finally it triumphed over remedies, and went on rapidly exhausting the strength of the patient, until at length death ended the scene.

Edema of the ancles, face and hands, is a symptom that tells of approaching dissolution, unless there is some disease of the heart present, or the patient in the first stage of the disease. In the latter case I mentioned, general dropsy came on before death, this was attributed to the disease of the heart; but it was no less a fatal symptom.

Having mentioned the ^{most} prominent symptoms 72
I shall pass on to the treatment of the
disease.

Treatment. We may see almost daily,
nostrums advertised to cure the consump-
tion: but I fear that there is too much truth
in the old Song, which says;

"Here's Doctors will cure be the matter what will,
And empty your pockets with wonderful skill."

The latter is but too frequently the great object
of the vendor.

Notwithstanding the fatality of the dis-
ease there appears to be a great many cases of
undoubted cure: but the cure is to be attributed,
more to nature, than to medicine: yet by a
judicious treatment both in respect to medi-
cine and hygiene, we may assist nature in
sometimes, in bringing about this desirable
change. But we must acknowledge, that in by
far the largest number of cases, our best meant
endeavours will prove of no avail.

Dr. Watson says, "the treatment to be adopted,

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and the plan of regimen to be observed, in respect to tubercular phthisis, resolves themselves into the methods of prevention when that disease is incipient or limited in extent; and of alleviating the most distressing symptoms, when no hope remains of stopping its course, or averting its fatal close.

With regard to the first we should advise the patient to avoid all exciting causes, and point out such occupations as are most suitable to his condition &c. The employment of grinding bark has been said to cure the incipient stage of this disease. If so, I would advise those in whom it was about to occur, to try the experiment; or if this was not convenient, let him take the bark internally, or what perhaps would be better, keep a large pile of it in his garter, and go every day and shovel it about and thus inhale the fine particles of dust which if it acts at all, must act by means of its tonic properties. Reasoning a priori we would suppose that the irritation it would

produce would more than counter^{balance} its good 74
effects. This is the time to try the effects of a
winter in some Southern Country; or a sea-vo-
yage in some mild latitude.

Certain accidental circumstances appears
at times to arrest its progress. The occurrence of
pregnancy for instance in women. A woman
became my patient during the latter part of
the past summer. She was labouring under
several of the symptoms of incipient phthisis.
Her sister had died only a few months previous-
ly of the same disease, and I was apprehensive
that she too would soon meet a similar fate.
About that time she became pregnant, the dis-
ease was arrested, and has made no progress
since: perhaps after her delivery, it may return
with increased violence, as was the case with her
sister who died a few week after being delivered.
Here's was the second case, to which I have before al-
luded.

But to return, we are more frequently call-
ed upon to treat the disease after it has bona fida,

Made its appearance than to prevent the disease
before it has occurred

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Can there be any thing done to relieve the in-
cipient stage of this disease? I believe there can; but
hygiene, traveling and exercise will do more than
medicine. Let the patient take horse back
exercise, use nourishing but unstimulating diet,
and perhaps it would be better for him to seek
a more congenial climate. Spain Italy,
Switzerland, Madeira, and in our own country,
Florida and New Orleans are the most noted

There is a long list of medicines recommen-
ded for this disease, which goes at once to prove
that there is no certain remedy. Prussic acid
was at one time highly spoken of; but is now
seldom used with a view to its curative effect;
it may sometimes be used to alleviate the symp-
toms. Hydriodate of Pottassa, steel, Creasote,
Inhalation of the vapours of tar &c. have been
highly recommended.

After the vomica have formed the some
times cicatrize; again the tubercles sometimes

turns to a chalky deposit, and lie dormant
in the lungs without any further inconveni-
ence. By slowly and cautiously introducing
into the system the Carb. of Lime, might
we not assist nature in bringing about this
happy issue? Limestone water might be a
convenient form if strong enough, if not
we might add occasionally a small quantity
of the carbonate. Aqua Calcis might be a con-
venient substitute, but it should be given in ^{small}
doses and not continued too long at a time, for
obvious reasons.

Counterirritation may sometimes be useful
by establishing a drain in a different part of the
body.

In the more advanced stages all we can do
is to alleviate the most distressing symp-
toms and smooth the patient's downward
path to the grave.

One very distressing and weakening symp-
tom is the night sweats; perhaps the best
remedy for this is the dilute sulphuric acid,

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but if the patient has diarrhoea, it is not generally well borne: the dose is from twelve to twenty drops. The elixir of vitriol, acetate of lead and opium, sponging the surface with ^{tepid} vinegar and water, also the compound kino powder, Dovers powder &c. are highly spoken of. When one of these remedies fails, we should try another.

For the paroxysms of hectic we may give quinine, or Griffiths Antihetic Myrrh mixture, Mur. Tinc. Ferri. Steel if it is well borne &c.

If the cough is very troublesome, we may give some of the preparations of Opium, as Morphia, or the Camphorated Tincture &c. Hydriodic acid is also sometimes used for the same purpose.

If the nausea and vomiting should become troublesome, and if attended with Gastritis apply a few leeches, fomentations and blisters. If no inflammation, give prussic acid and soda, the effervescing draught, carbonic acid water, creasote &c.

If the diarrhoea becomes very bad, and is likely

to exhaust the patient, we give Opium, Kino, Catechu, the Official chalk Mixture &c: or several of these combined together. Also starch and sandarum injections to sooth the irritability of the bowels and thus suspend their action for a time.

By means like these, we may endeavour to smooth the couch of the dying patient, and give him a short respite from pain and suffering, which is of great consideration where we can do no more.

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An
Inaugural Dissertation
Submitted to the Examination
of the
Provost, Regents, & Faculty
of Physic
of the
University of Maryland,
for the
Degree of Doctor of Medicine,
By
William Oates Sumson of Maryland,
February,
1818.
— 000 —

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What the custom is that should
be observed under the circumstances which
now impel me to act — whether unknown
or otherwise; form in its distinct application,
only respects the modes of acting and speak-
ing, adopted by society at large, in every
transaction of life; so that something
more specifick than this appears requi-
site: ceremony will do provided it is
that ceremony which respects those forms
of outward behaviour made the express-
ions of respect and deference.

It is in this way that
the instructed can have access to the in-
structor — the scholar commune with
the teacher — the benefits wisdom,
learning, and experience confer can
be acknowledged by the recipient.

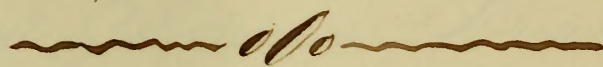
Ceremonies too numerously multiplied, to be sure, destroy the ease of social intercourse; the absence of ceremony however destroys all decency.

Lord Bacon, it was he I believe, has said: — Not to use ceremonies at all, is to teach others not to use them again, and so diminish respect to himself.

Of course it is not to flatter, (this would be most egregious folly, even downright arrogance,) I now introduce myself, — it is respectfully to ask attention to what follows as being required of one occupying the position now assumed towards

The Faculty of Physick
of the
University of Maryland.

Acute Articular Rheumatism.



Undoubtedly the phrase here employed can be truly defined pain. Requiring a shivering pronunciation to express it. Old times call it a tormenting distemper, reckon-ed to come from acrid humours.

By many it has been attributed to the prevalence of matter in the system morbidical in its nature. There are those whose opinions now embrace the existence of lactic acid and lactates of Soda and Ammonia in the circulation as originating this painful malady, the blood retaining them after the perspiration has been arrested by external cold. Although this idea is regarded by some as being merely hypothetical, most respectable authorities entertain it. Generally allowed to be characterized by a

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specifick inflammation or irritation, there are no parts of the system which can claim exemption therefrom.

Acute Articular Rheumatism is justly regarded as being admirably, perhaps it should be said wofully calculated to produce pain — pain in quantum sufficit to answer the purposes intended by a probational mode of being in which may shine the graces of resignation, of patience, of all the powers of endurance, without complaint or vociferation.

Take into consideration,
The parts assaulted.

These are exquisitely sensitive. What is said of Gout is applicable here. Derived from a word in Latin denominated gutta, i. e. Drop, its origin being ascribed to an opinion long entertained, that a peculiar liquid matter, upon w^c it was supposed that the disease depended, fell drop by drop into the affected joint.

As parts affected, the fibrous tissues of

5

The joints may be enumerated — The synovial membrane — muscles or their aponeurotic coverings — The periosteum, membrane investing bone, and even the neurilema, the sheath investing the nerves.

No want of pain in Rheumatism — The acute articular furnishes a full supply thereof.

Among the victims selected, the knee is often the first to be seized, sometimes both of the knees suffer at once. From the knee it descends to the foot, or mounts to the hip, to the loins, the shoulder blades, elbow, wrist, nape of the neck; thus manifesting a disposition to migrate.

Occasionally a truce ensues or signs of intermission appear, they are signs; like a change of horses on a mail coach line, the interval is atoned for by increased rapidity in future travelling.

Notice,

The mode of its attack. This is rather progressive than sudden. Accompanied in its

advance by contusive pains — soreness in the
limbs — pain in the head — restlessness — great
complaint of being unwell — stiffness; these
symptoms sooner or later usher in more com-
pletely the painful malady. In almost
every case, fever attends the acute form of
rheumatism. In some instances it has
been known to anticipate the inflammation;
such however is rarely the case.

It should have been remarked that this
disease as an inflammation is manifested
by fever, preceded by shivering, subsequent heat
and a hard pulse.

The individual having this disease is
doomed to be a sufferer.

Only to think that when one part is re-
leased from pain, then another is arrested —
many parts in some instances seized in the
same moment, every joint afflicted at once —
involving almost the whole exterior of the
body. There can scarcely be imagined a

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more terrible situation than this.

Incapable of helping himself, the patient even dreads the assistance necessarily rendered by his attendants, the slightest touch can scarcely be admitted without a sensible aggravation of his pains. The weight of bed clothes is hardly endurable - to avoid their pressure a contrivance is resorted to by which they are arched over his limbs. Even the motion occasioned by walking across the chamber or resting against the bed post, increases his torments.

The Danger Threatened is another particular belonging to this disease, which should be carefully considered.

"Complications kill - not the disease."

Confined to external parts merely - the surface only being affected - however painful his condition, the patient is in no imminent danger, if he be properly treated.

It is when the disease begins to travel -

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when a tendency to what is commonly de-
nominated metastasis appears, then the most
serious apprehensions may be indulged.

The heart ought always to be enquired
after.

By far the most serious and danger-
ous leap which the diseased action is apt to take,
is to the membranes of that organ.

The most unremitting attention is abso-
lutely required.

Whenever symptoms indicate se-
rious organic disease of the heart as being
associated with rheumatism, a patient investi-
gation by means of auscultation and percussions,
should be instituted in order to ascertain, if possi-
ble, the facts in the case.

As a guide under such circumstan-
ces the particulars that follow have been de-
signated. They are: —

Pain and oppression in the precordial region.
Difficult or hurried breathing with or without cough.

Palpitation, increased frequency of pulse,

An anxious, disturbed, or peculiar expression of countenance.

The effects which ensue when the ligamentous structure of joints is attacked, are more liable (so it is supposed) to reach the heart, than when the synovial membranes are involved.

When this Disease selects the stomach and bowels as places of resort, (this occurs according to the impression of some more frequently in other varieties than in the acute) it occasions the most excruciating sufferings - the inflammation when violent, resulting fatally.

A case of this sort has been related by a physician very old in his profession. It was that of a robust man whose guts were in a gangrenous state, the consequence of a Rheumatism, first felt in an arm, then in the knee. A cure had been attempted by sweating the patient with some hot remedies.

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Profuse perspiration ensued; the inflamma-
tory humour however seized the intestines, de-
generated into a gangrene, and after a season
of most indescribable suffering which lasted
thirty six hours, the patient expired.

The importance of Acute Artic-
ular Rheumatism on account of the affec-
tions that supervene, renders more appa-
rent

The Danger implicated.

Although in itself a trifling disease, life not
being often curtailed thereby, yet when the heart
becomes concerned then is the danger.

Cardiac complications are greatly to be
dreaded.

In children more particularly these
are to be expected.

According to the experience of Dr. Wat-
son, the chance of the joint affection being
complicated with rheumatic carditis is the greater

in proportion as the patient is the younger. 11
He never knew the Disease occur in an un-
equivocal form before puberty, without being
attended with inflammation of the living
or investing membranes of the heart.

The caution cannot be too frequently in-
sisted upon — Watch the heart. —

Ages between fifteen and thirty five or
forty constitute the period, so it is supposed, at
which the complaint is most common.

Instances have occurred in which children
not exceeding the third or fourth year have
had these rheumatic attacks. —

The liver may be deranged by the
inflammation of Rheumatism, and when this is
the case distressing effects occur.

This has been recognized as the bilious, and
most usually found in those Districts of country
where miasmatic influences prevail.

This form of the Disease is characterized
by bilious vomiting.

In some cases yellowness of the tongue-
conjunctiva and skin is usual, together with bil-
ious urine and clay colored stools, from a sus-
pension of the secretion, as in jaundice.

The Disease sometimes becomes ady-
namic in its nature, the fever being accom-
panied by great prostration. Now it is char-
acterized by diminished force and increased fre-
quency of pulse, by copious sweats during sleep,
by great lassitude, and tendency to transposi-
tion.

These indications however strongly mark-
ed are not sufficiently so to be considered ty-
phous.

The Disease may be regarded
as to

The period of its continuance.
Of course this cannot be definitely determined.

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Under proper treatment its progress has been arrested in a week or two. Again the time of cure may require three weeks. In some instances it runs on for a period of three months, and even longer than that.

Its Diagnosis is generally considered easy, gout being the only complaint which may be mistaken for it.

As among the causes likely to produce it, it may be remarked that it is especially liable to occur as an effect of cold where the body is fatigued with much muscular exertion.

The limbs mostly exercised are likely to be affected by it.

Over exertion alone, it is thought, may in some cases occasion it.

Moisture, exposure during the relaxation excited by previous exercise, sleeping in damp sheets or upon the damp ground, wet clothes when continued to be worn, remaining in a damp room

are apt to bring on an attack of the Disease. 14

Sometimes it is hereditary in its Descent. Whether this is the case or not, members belonging to the same family are apt to be attacked by it.

A previous attack is good security for a succeeding one.

The diathesis when strong, it is said, is alone sufficient to originate the Disease, without the aid of exciting causes.

In the way of Remedies Provided, no malady can be said to have warmer or more numerous friends.

What could be brought together from the various sources that supply them, prescriptions in sufficient number might be found to make almost a *Materia Medica*.

Still there is no absolute treatment—no heroic remedy—no positive antidote.

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Bloodletting is indispensable when a full, tense pulse, and high inflammation indicate its employment.

To bleed for the pain alone, it should be remembered, is never proper.

Condition of the patient ought always to be consulted.

In anemic persons bleeding is inadmissible.

From a person of strong habit xvj or xx $\frac{3}{4}$ may be taken, some say from xij - xxiv.

Caution must be observed in the employment of this remedy.

Purgatives are thought by some equal in importance to venesection. When used they should be active but not drastic.

Salts & Senna, or Senna with Sulphate of Magnesia - Calap and Bitartrate Potas.

When the liver becomes torpid, Calomel, alone or in combination will be generally found

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suitable.

There should be a suspension of purgation when the bowels become irritable.

Refrigerant diaphoretics are considered applicable to the early stage of the disease, particularly if there be much inflammation.

$\frac{1}{12}$ — $\frac{1}{6}$ gr. Tar. Emet.

v — x gr. Nitre dissolved in water

} given
at intervals of
1, 2, or 3 hrs.

When the pulse is rather feeble — Pow. Guaiac with
Dover's Pow.

At the close of ten days or two weeks, provided threatening symptoms divulge themselves Cal. as a alterative is recommended. Colchicum may be given before the mercurial, or as an adjuvant thereto, combined wth one of $\frac{1}{2}$ salts of Morphia,

XX or XXX gtt. Wine Colchicum Root } every 4, 6, or
{ 8 hrs.
{ 3iss Sulph. Mor. Solut^m

When heart or brain implicated — lancet freely as possible — leeches or cups freely, quickly succeeded by large Olisters.

Moderately administered Sulph. Qu. has
proven beneficial. 17

Phos. Ammonia, X — XX grs. from iij
to vj times in twenty four hours. This is the
well known prescription of Dr. Buckler.

Acute Articular Rheumatism has
sometimes a way of its own and will not be
restrained by interference.

Time may be put down as a remedy—
Six weeks said one.

The disease often will run on to

The End.

— do —

