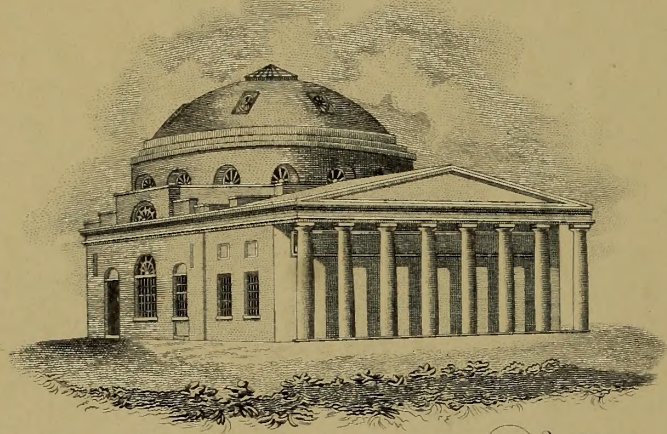


Rebound :

JAN 16 1941

LIBRARY
OF THE
School of Medicine



University of Maryland

University of Maryland Theses

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

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

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

These dissertations were digitized in 2011-2012 and are available at the UM Digital Archive (archive.hshsl.umaryland.edu) and the Internet Archive (www.archive.org).

Department of the Interior

United States Geological Survey
Washington, D.C. 20508

This document contains information on the geology of the area shown on the map. The information is based on the geologic map of the area, which was prepared by the U.S. Geological Survey. The map shows the distribution of the various rock units in the area, and the locations of the various faults and folds. The information is intended to provide a general overview of the geology of the area, and is not intended to be used as a basis for engineering or other professional work.

The geologic map of the area was prepared by the U.S. Geological Survey, and is available for purchase from the U.S. Geological Survey. The map is available in both printed and digital formats. The printed map is available in a standard size, and the digital map is available in a variety of formats, including PDF and GIS files. The map is available for purchase from the U.S. Geological Survey, and is also available for purchase from various online retailers.

For more information on the geology of the area, or to purchase a copy of the geologic map, please contact the U.S. Geological Survey. The U.S. Geological Survey is a federal agency that is responsible for providing scientific information on the geology, biology, and other natural resources of the United States.

Geologic Map of the Area



U.S. Geological Survey

(CORRECTED TABLE OF CONTENTS)

UNIVERSITY OF MARYLAND

THESES

1845 (a)

Author	Title
Jamison, William D.	Typhoid Fever
Warfield, Evan W.	Carcinoma or Cancer
Kent, Daniel	Gastroenteritis as it Occurs in the Malarious Districts of Maryland
Owen, Charles W.	Physiology of the Iris
Frick, Charles	Observations on Puerperal Fever
Moran, John J.	Pneumonia, Typhoides
Ragan, William	Injuries of the Head
Wigman, Herman	Rubeola
Hill, Joseph H.	Sympathetic Inflammation
Cronise, J. Stoll	Hemorrhage
Colburn, Edmund F.	Dislocation of the Patella
Gordon, John S. M.	Erysipelas
Hughes, Joseph C.	Dysentery
Owings, S. Kennedy	Pleurisy
Motte, Francis Marion	Lactation
Hobbs, Warner	Elements of Diagnosis
Crawford, James V.	Scarlatina

UNIVERSITY OF MARYLAND

THESES

1845 (a)

Jamison, William D.	Typhoid Fever	24p.
Warfield, Evan W.	Carcinoma or Cancer	36p.
Kent, Daniel	Gastro-Enteritis as it Occurs in	24p.
<i>Charles</i>	the Malarious Districts of Maryland	
Owen, E. W.	Physiology of the Iris	23p.
Frick, Charles	Observations on Puerperal Fever	28p.
Moran, John J.	Pneumonia, Typhoides	19p.
Ragan, William	Injuries of the Head	24p.
Wigman, Herman	Rubeola	23p.
Hill, Joseph H.	Sympathetic Inflammation	32p.
<i>Cronise</i>		
Cronite , J. Stoll	Hemorrhage	31p.
Colburn, Edmund F.	Dislocation of the Patella	20p.
<i>John</i>		
Gordon, A. S. M.	Erysipelas	21p.
Hughes, Joseph C.	Dysentery	15p.
Owings, S. Kennedy	Pleurisy	17p.
<i>Motte</i>		
Mottu , Francis, Marion	Lactation	18p.
Hobbs, S. Warner	Elements of Diagnosis	33p.
Crawford, James V.	Scarlatina	36p.

721
P. 45

THE HISTORY OF THE
CITY OF
NEW YORK

1	THE CITY OF NEW YORK	1
2	THE CITY OF NEW YORK	2
3	THE CITY OF NEW YORK	3
4	THE CITY OF NEW YORK	4
5	THE CITY OF NEW YORK	5
6	THE CITY OF NEW YORK	6
7	THE CITY OF NEW YORK	7
8	THE CITY OF NEW YORK	8
9	THE CITY OF NEW YORK	9
10	THE CITY OF NEW YORK	10
11	THE CITY OF NEW YORK	11
12	THE CITY OF NEW YORK	12
13	THE CITY OF NEW YORK	13
14	THE CITY OF NEW YORK	14
15	THE CITY OF NEW YORK	15
16	THE CITY OF NEW YORK	16
17	THE CITY OF NEW YORK	17
18	THE CITY OF NEW YORK	18
19	THE CITY OF NEW YORK	19
20	THE CITY OF NEW YORK	20
21	THE CITY OF NEW YORK	21
22	THE CITY OF NEW YORK	22
23	THE CITY OF NEW YORK	23
24	THE CITY OF NEW YORK	24
25	THE CITY OF NEW YORK	25
26	THE CITY OF NEW YORK	26
27	THE CITY OF NEW YORK	27
28	THE CITY OF NEW YORK	28
29	THE CITY OF NEW YORK	29
30	THE CITY OF NEW YORK	30
31	THE CITY OF NEW YORK	31
32	THE CITY OF NEW YORK	32
33	THE CITY OF NEW YORK	33
34	THE CITY OF NEW YORK	34
35	THE CITY OF NEW YORK	35
36	THE CITY OF NEW YORK	36
37	THE CITY OF NEW YORK	37
38	THE CITY OF NEW YORK	38
39	THE CITY OF NEW YORK	39
40	THE CITY OF NEW YORK	40
41	THE CITY OF NEW YORK	41
42	THE CITY OF NEW YORK	42
43	THE CITY OF NEW YORK	43
44	THE CITY OF NEW YORK	44
45	THE CITY OF NEW YORK	45
46	THE CITY OF NEW YORK	46
47	THE CITY OF NEW YORK	47
48	THE CITY OF NEW YORK	48
49	THE CITY OF NEW YORK	49
50	THE CITY OF NEW YORK	50
51	THE CITY OF NEW YORK	51
52	THE CITY OF NEW YORK	52
53	THE CITY OF NEW YORK	53
54	THE CITY OF NEW YORK	54
55	THE CITY OF NEW YORK	55
56	THE CITY OF NEW YORK	56
57	THE CITY OF NEW YORK	57
58	THE CITY OF NEW YORK	58
59	THE CITY OF NEW YORK	59
60	THE CITY OF NEW YORK	60
61	THE CITY OF NEW YORK	61
62	THE CITY OF NEW YORK	62
63	THE CITY OF NEW YORK	63
64	THE CITY OF NEW YORK	64
65	THE CITY OF NEW YORK	65
66	THE CITY OF NEW YORK	66
67	THE CITY OF NEW YORK	67
68	THE CITY OF NEW YORK	68
69	THE CITY OF NEW YORK	69
70	THE CITY OF NEW YORK	70
71	THE CITY OF NEW YORK	71
72	THE CITY OF NEW YORK	72
73	THE CITY OF NEW YORK	73
74	THE CITY OF NEW YORK	74
75	THE CITY OF NEW YORK	75
76	THE CITY OF NEW YORK	76
77	THE CITY OF NEW YORK	77
78	THE CITY OF NEW YORK	78
79	THE CITY OF NEW YORK	79
80	THE CITY OF NEW YORK	80
81	THE CITY OF NEW YORK	81
82	THE CITY OF NEW YORK	82
83	THE CITY OF NEW YORK	83
84	THE CITY OF NEW YORK	84
85	THE CITY OF NEW YORK	85
86	THE CITY OF NEW YORK	86
87	THE CITY OF NEW YORK	87
88	THE CITY OF NEW YORK	88
89	THE CITY OF NEW YORK	89
90	THE CITY OF NEW YORK	90
91	THE CITY OF NEW YORK	91
92	THE CITY OF NEW YORK	92
93	THE CITY OF NEW YORK	93
94	THE CITY OF NEW YORK	94
95	THE CITY OF NEW YORK	95
96	THE CITY OF NEW YORK	96
97	THE CITY OF NEW YORK	97
98	THE CITY OF NEW YORK	98
99	THE CITY OF NEW YORK	99
100	THE CITY OF NEW YORK	100

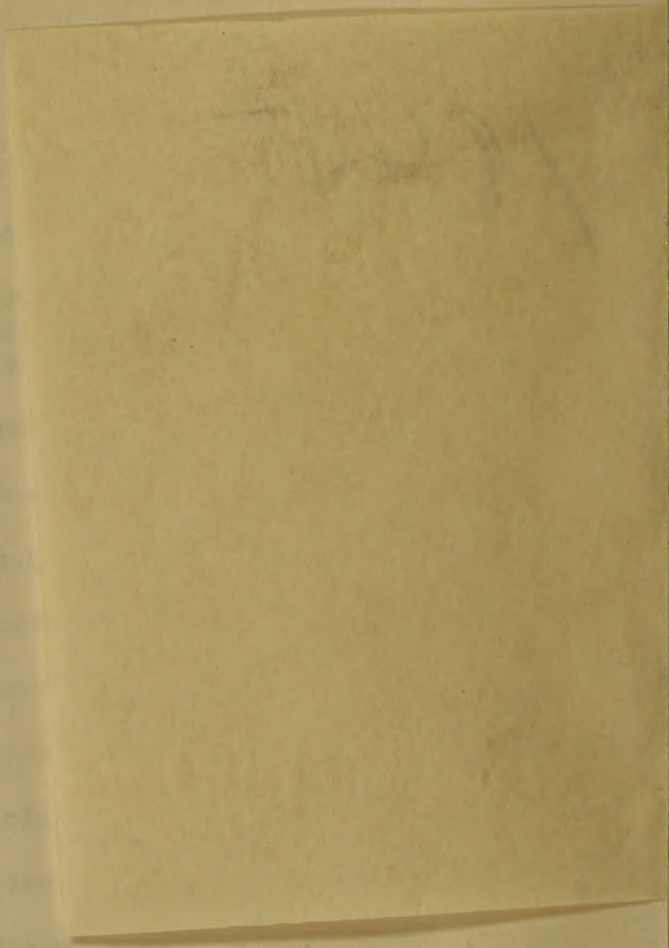
1845

THE COTTON CENTER

Spencer

721
B.45

[Faint, illegible text, possibly bleed-through from the reverse side of the page]



An
Inaugural Dissertation
on
Typhoid fever
Submitted to the
Examination
Of the Provoost, Regents, and
Faculty of Physic
of the
University of Maryland
for
The degree of Doctor of Medecine
in the
Session of 1844/45
by
William D. Jamison
of
Baltimore

140
18884



Mr

George Washington

in

Virginia

June 17th 1776

Dear Sir

I have the honor to receive your

letter of the 10th inst

in relation to the

business of the

Department

of the Treasury

and

to inform you

that I have

been

2
To

E. Bartlett M.D.

Professor of Theory and Practice
in the

University of Maryland

This thesis

is respectfully inscribed

as a small tribute of respects
by the

Writer

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

A question of late has presented itself to my mind, on what branch, or what particular species of disease, shall I venture to take up, and submit to your consideration, feeling well impressed with a conviction of my inability to do any thing like justice to a theme, I long yearned after, nothing is left me, but to try one fraught equally with as much pleasure and interest, and perhaps nearer within the compass of my comprehension.

The subject therefore I have selected for the objects of my remarks, is a disease perhaps, more generally diffused throughout the United States than any other not resembling the fever of the South, or the Intermittent of the malarious districts, which we know to be of the endemic type, but a disease "sui generis"

Aware of the bounds your clemency extends, due

[The text on this page is extremely faint and illegible due to fading or bleed-through from the reverse side. It appears to be a continuous paragraph of handwritten text.]

4

allowance will be made for all erroneous or ill founded opinions I may have brought together in my attempts to treat of Typhoid fever.

I do not know any disease more difficult to speak of, and about which, so much has been written on, or one concerning which, there is such a diversity of opinions, as that of Fevers

History

With regard the history of this disease, we have no very authentic accounts, neither of the period in which it first exhibited itself, or the manner of entrance, excepting traditional accounts, which say, a disease similar to this "had afflicted mankind from time immemorial" It having raged with great and almost unsubdued violence for centuries back, appears to be well established -

Cause

"The actual, producing, efficient cause of Typhoid fever as of most other diseases is entirely unknown to

...us" although we say (perhaps hypothetically enough) the chief cause of its production is thought to arise from the air overcharged with human exhalation.

This disorder has often been considered as originating in jails, or in small and confined places, as in closed hatches of transport vessels. Magendie indeed has indisputably proved (as he thinks) that animal matter in a state of putrefaction, inhaled, or injected into the blood, will produce death, with what are called putrid symptoms. Granting such to be the case, such symptoms may or may not be associated with Typhoid fever. Again on the other hand we find this disease proceeds not from filth and dirt alone, as above represented, for by looking at the mode of living of the Russians, Greenlanders, and Esquimaux, who we know to be proverbial both for indolence, and the gout they display in eating the flesh scarce cold from the half killed dog, or drinking the oil from the whale, while in a true

I have the honor to acknowledge the receipt of your
 letter of the 11th inst. in relation to the
 purchase of a quantity of the same for the
 use of the Department. I have the pleasure
 to inform you that the same has been
 ordered and will be forwarded to you
 as soon as it can be procured. I am,
 Sir, very respectfully,
 Your obedient servant,
 J. B. ...

6

: state of putrefaction, and yet to go further, we find them crowded together in holes underground their provisions occupying the same apartment, with all this, this class of persons does not suffer from Typhoid lesions.

We must therefore look to other causes for the production of this species of fever. what has been stated may prove to be the exciting cause, but I think the predisposing causes, are often the result of great mental depression, fatigue, privations, and cold, all have a long catalogue of ills attributed to them, which help indeed to propagate Typhoid fever.

Upon reviewing that excellent work of our Professor of Theory and Practice, he who has done so much, and laboured so assiduously for the advancement of Science, whose name is now enrolled, and become familiar with a class ever to be perpetuated, says, "Mental anxiety and distress seem to predispose to a grave form of the disease".

The first of these is the fact that the
 second is the fact that the
 third is the fact that the
 fourth is the fact that the
 fifth is the fact that the
 sixth is the fact that the
 seventh is the fact that the
 eighth is the fact that the
 ninth is the fact that the
 tenth is the fact that the
 eleventh is the fact that the
 twelfth is the fact that the
 thirteenth is the fact that the
 fourteenth is the fact that the
 fifteenth is the fact that the
 sixteenth is the fact that the
 seventeenth is the fact that the
 eighteenth is the fact that the
 nineteenth is the fact that the
 twentieth is the fact that the
 twenty-first is the fact that the
 twenty-second is the fact that the
 twenty-third is the fact that the
 twenty-fourth is the fact that the
 twenty-fifth is the fact that the
 twenty-sixth is the fact that the
 twenty-seventh is the fact that the
 twenty-eighth is the fact that the
 twenty-ninth is the fact that the
 thirtieth is the fact that the

The Irish writers have generally observed, that fathers of families, and others, whose character, and circumstances in life were such as to occasion great depression of spirits and apprehension for the future, were more subject to severe and dangerous attacks than those of a different temperament, and in different situations. Dr. Edward Peveral remarks that "fevers which had been preceded by great bodily fatigue, and mental anxiety were uniformly hazardous"

Mode of Invasion

To this disease belongs a peculiarity different from that of any other, its admission into our frame, is not ushered in and announced by a prostration of bodily vigor, by any symptom or set of symptoms indicative of its duration, or even of its ratio of fatality -

Our daily vocation is pursued, with its accustomed zeal, except perhaps with some slight rigor or headache not often in its early career do we find any irregularity of bowels, which is generally supposed to be the pre-

The first section of this paper is devoted to a
general consideration of the subject, and
to an outline of the principles which should
govern the selection of materials, and the
manner of their use. It is intended to be
a practical treatise, and not a theoretical
one. It is written for the benefit of those
who are engaged in the practice of
architecture, and who wish to acquire a
correct and complete knowledge of the
principles which should govern their
conduct in this respect. It is written in
a plain and concise style, and is
intended to be a complete and
practical treatise on the subject.

cursor, or any deviation from a long routine of
 health. In many instances it is difficult for the
 patient to fix upon any particular day or time for his
 supposed indisposition, he observes a want of ability
 or inclination to pursue his customary labor, a feeling
 of inactivity seems to have gotten the better of him,
 he complains of drowsiness, similar to that he has often
 times experienced. "This obscure and indefinite cond-
 = ition of ill health may continue for more than a week
 occasionally for two or three weeks even, with but
 slight changes from day to day" Its premonitory
 signs are exceedingly insidious, although in some
 cases very clearly defined. We find few persons
 effected in precisely same manner, it varies according
 to habit, temperament, climate, and the numberless
 complications of local disease. Thus ¹one will first ⁵patient
³complain of head disturbances, another
 abdominal lesions, and a third from affections of
 the chest. A great deal depends upon the state of

[The text on this page is extremely faint and illegible due to the image quality. It appears to be a single paragraph of handwritten text.]

9
= their general health anterior to the developments of
this disease -

Contagion.

Our next object of inquiry is whether or not, it is
capable of being communicated by contagion.

Numerous and conflicting opinions are, and have
been advanced in support of contagionism. The host
of names I might mention of men, who stand on the
highest pinnacle of fame, speak indisputably of the
fact that Typhoid is readily communicable during
life, while again we look with equally as much
pleasure on the other hand, cases, and proofs are made
so palpable as leaves not a loop whereon to hang a doubt,
that the power of infection is, and does not exist.

I am aware of no way by which my aim can be
attained, and set before you in stronger light than
presenting a few cases, all within the limits of your
recollection, and then in my own defence, give my
views, humble as they may be to prove the fallacy of

Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 25 horizontal lines across the page.

contagionism - "It is undoubtedly a matter of great difficulty to prove whether the spread of an epidemic arises from one atmospheric cause, affecting all simultaneously, or whether in a crowded community the poison is propagated from one individual to another" Repeated experiments, as you are aware, have been made on the living subject by inoculation, and the result has been, like disease has shown itself.

Again, clothes, it has been said have been taken from the body of a person labouring under Typhoid fever, and after the expiration of a few days, symptoms characteristic of this form have been made manifest.

In jails or crowded or ily ventilated places, where it is supposed this fever rages with more violence, there we can conceive, that, did any infectious disease germinate (owing to the confinement, accumulation of offal, or mode of living) it could be conveyed to persons similarly situated.

Persons who have been incarcerated in solitary

[The page contains approximately 25 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper.]

11
cells, beyond the rage of any supposed epidemic, having no communication personally, by letter, or by clothing, with any one, except the persons belonging to the establishment, who were all free from disease of every kind, was attacked by a complaint, well known to be contagious, going to shew that the infectious matter can be conveyed through the air, and sometimes to a very considerable extent, as, during the volcanic eruption at Sumbawa, ashes were carried by the wind in such quantity to the Island of Java, a distance of 300 miles, that the darkness during the day was more profound than ever had been witnessed in the most obscure night. If as we have seen, ponderable substances, such as ashes, can be carried the distance spoken of, with how much greater facility, can aeriform bodies be distributed, and become more generally diffused or mingled during the process of respiration.

The cases enumerated above you must not think a fair criterion by any means, a body nearly exhausted,

12

whose recuperative powers are fast on the wane, whose spirits broken down by the "ills which flesh is heir to" are we know far more susceptible to disease of all kinds, and therefore when within the influence of one much more mild, in all probability its non-contagiousness would be exhibited as distinctly as the most pesti-
-fential.

Although this is a doctrine peculiar to itself (you may say) and require facts more closely inter-
-view to support so tottering an assumption, I will end-
-eavor to show that persons in the full enjoyment of health, although similarly situated, escape with like impunity. We see every day, nurses whose duty it is, to be in the same apartment, and surrounding the beds of the sick, administering to him, breathing the same charged atmosphere, and yet from viewing the statis-
-tics, the majority of those who die, I believe were pre-
-disposed to some grave affection.

Let us look to the case of a healthy person

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

who perhaps is lending his aid, and constantly at the bed side of a dear brother, subject to all exhalations, dressing and undressing, and in fact leaving nothing undone, which, were the disease at all contagious, similar indeed would be his fate.

The cases which are weekly brought to our Infirmary, and after a thorough and impartial examination, are pronounced to be true and well marked cases of Typhoid fever - a change is brought about in their system by proper medicinal means, preparatory to the treatment of such fevers, any amelioration or departure from health, is steadily and anxiously watched, not by the attendant Physician alone, but by a host of followers, all anxious and eager by their close attention and minute examination to qualify themselves for the arduous task they have undertaken, examining all physical signs - propounding questions, hoping by their response, to catch some new idea, upon to build

The first part of the book is devoted to a general
 description of the human mind, and its various
 faculties, and the manner in which they are
 exercised. The second part is devoted to a
 description of the human body, and its various
 parts, and the manner in which they are
 connected together. The third part is devoted
 to a description of the human soul, and its
 various faculties, and the manner in which
 they are exercised. The fourth part is
 devoted to a description of the human
 mind, and its various faculties, and the
 manner in which they are exercised. The
 fifth part is devoted to a description of
 the human body, and its various parts, and
 the manner in which they are connected
 together. The sixth part is devoted to a
 description of the human soul, and its
 various faculties, and the manner in which
 they are exercised. The seventh part is
 devoted to a description of the human
 mind, and its various faculties, and the
 manner in which they are exercised. The
 eighth part is devoted to a description of
 the human body, and its various parts, and
 the manner in which they are connected
 together. The ninth part is devoted to a
 description of the human soul, and its
 various faculties, and the manner in which
 they are exercised. The tenth part is
 devoted to a description of the human
 mind, and its various faculties, and the
 manner in which they are exercised.

- their hope upon - and yet with all these cases so infallibly stamped - surrounded by persons, all of whom are then resting, and looking forward to the morrow with bright anticipations for a hasty restitution to health - we find no propagation of this disease -

Duration

The period or the length of time occupied by the disease now claims our attention -

The average duration was by some formerly thought to occupy about twenty days, while Chomel divides the time requisite for the full development of the disease into three periods each of which comprises a week, and are known as septenary periods, and remarks that the majority of cases tended to amelioration from the 17th to 20th day - M. Louis considers the duration to be about 25 days, but perhaps owing to the great frequency of abdominal complications, it may have proved some hindrance to an earlier state of convalescence

So common is it for this complaint to run its course in a definite time, that the familiar appellation of the one and twenty day fever has been given to it.

The period of recovery must necessarily depend upon the severity of the attack, the general state of his health anterior to his present disease, and no little upon the climate, whether it be that of the arid heat of the Torrid, or the tempestuous and chilly blast of the Frigid zone.

It is I believe a prevailing opinion, that this disease like the exanthemata give to the patient a hope of its non-recurrence. From that excellent Monograph of the late Professor Smith on Typhus, he says "I have never known, nor heard of its recurrence in the same person" - This conclusion is formed after a close observation of twenty five years, and carries with it great weight, from the knowledge we have of the soundness of his judgement, and the great success that attended his practice -

The manner in which the copy was made is so
in a different manner that the printer's impression of
the title is not correct and has been printed
in the place of every word necessary to
show the nature of the matter in hand
in printed matter to be printed in this
book upon the title, which is the title of the
author of the work, in the first edition, and
that of the printer, in the second edition
and a Latin epigraph, in the third edition
for the author's name, in the fourth edition
is also accompanied with the name of the
of the late printer, in the fifth edition
and the name of the printer, in the sixth edition
and the name of the printer, in the seventh edition
and the name of the printer, in the eighth edition
and the name of the printer, in the ninth edition
and the name of the printer, in the tenth edition

Symptoms.

The precursory symptoms are languor, lassitude, and prostration of strength, a feeling of mal-aise, without decided pain, sense of chilliness or coldness along the spine amounting to shivering or rigors, a sense of weight or confusion of the head, indifference to pleasure or business, disturbed or unrefreshing sleep, frightful dreams, nausea, tongue coated, red, dry and shrunken, tongue sticks to roof of mouth, mouth more red than in any other fever, sordes on teeth, corner of mouth & lips, specks on inner surface of mucous membrane of the mouth, cracking of the angle at the mouth and surface of tongue, these taken in consideration, with the general condition of patient, import a very dangerous situation. dry, brown or black tongue is often present, dry state of tongue from the commencement of the attack is supposed to be a bad prognosis, Beefsteak tongue is sufficient to awaken the utmost alarm in Physician for recovery of patient - Tongue is thought to hold no

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

- specific relation to condition of the mucous membrane of stomach, loss of appetite, dizziness brought on by being placed in a sitting from a recumbent posture -

There is another sign very common in fevers of this type that is, the appearance of purplish spots in the skin, technically known as petechiae - Petechiae may appear very early, but are generally observed about the middle stage - great thirst is a usual attendant, which is made manifest by patient making frequent demands for cold, sometimes for warm drinks - You will generally find Intestines or swelling of the intestines on the right side, which is ascertained by pressure. Epistaxis is an important circumstance, and its frequent occurrence is peculiar to this affection - Tinnitus-aureium or buzzing in ears is observed in a large majority of cases, and associated sometimes with deafness. Cough though a general attendant does not require immediate attention, slight palliatives do well, sometimes complicated with acute Bronchitis, terminates frequently in Pneumonia.

The first part of the manuscript
contains a list of names of
persons who were present at
the meeting on the 1st of
January 1794. The names
are written in a very
small hand and are
not very distinct. The
names are as follows:
John Adams, Thomas
Jefferson, James
Madison, Alexander
Hamilton, George
Washington, and
others. The names are
written in a very
small hand and are
not very distinct.

18
development of tubercles in many parts of lungs at once
blood expectorated, respiration almost always increased,
somewhat interrupted, when so generally found to ter-
minate fatally. Alae nasi act freely, upper lip contr-
acted, slipping down to foot of bed is a sure indication
of great debility, many patients refusing to be made more
comfortable, fearing the shock occasioned by moving -

Distention of bladder, all control over bladder is lost,
and for the greater comfort of patient urine should be drawn
off with a catheter - Vomiting a very unfavourable
symptom, Tuberculous meningitis, dysphagia, Ulceration
of Intestines, the ratio in which this symptom is said
to show itself, is about one in six, no particular day
is fixed for its appearance, although very serious sym-
ptoms announce its presentation, as a sharp rending
pain, experienced suddenly in the abdomen, soon followed
by a loss of expression in the features - nausea, usually
accompanied by chills, and all the most characteristic
symptoms of an intense acute peritonitis. We may judge

- with some accuracy of its event by an increased number
 of dejections, the certainty of its appearance is rendered
 more apparent by pressure, which causes pain to extend
 nearly over whole surface of body. pain in right iliac region,
 gurgling sound when pressure is made upon the lower
 part of the belly. effusion of sero-purulent fluid, patient
 can hardly bear weight of bed clothes. Diarrhea is one of
 the most common symptoms, is supposed to shew itself in
 early stage of disease, the faeces generally are very thin, having
 a brownish tint resembling that of coffee grounds, the danger
 in this disease is thought not to be in proportion to the amount of
 diarrheal discharges, but I think the weakness and great
 debility brought on by an increase of evacuations, must
 certainly tend to retard his recovery, if not hasten his dis-
 -olution. Contraction of intestines is looked upon as an
 ominous sign. Pulse very variable, if too frequent, &
 does not diminish, it is an unfavourable sign, if pulse is
 frequent when patient stands, and not when he lays down, it is
 regarded as a favourable sign. Cold extremities are present,

[The text on this page is extremely faint and illegible. It appears to be a dense paragraph of handwritten text, possibly a letter or a manuscript page. The characters are barely visible against the background of the paper.]

= whether dying or convalescing. Somnolency presents itself in its various stages, very nearly in all cases, when in this condition patient manifests no disposition to converse, difficult to rouse, and when questioned gives evidence of displeasure by some distortion of countenance, shewing a total disregard for all around, refusing even to look upon any member of family. Sub. guttur-tendinum. hic =
 =ough, grinding of teeth, deafness, sometimes strabismus these are symptoms of last stages, intolerance to light, exquis=
 =ite sensibility in lower extremities, oedema during conva=
 =lesence, desquamation of cuticle, enlargement of spleen, change of colour with some induration, are seen after death, sibilous or mucous râle, may be heard in nearly every case.

Treatment

It is to be regretted that medicines however judici=
 =ously administered, have in no instance the power to cut short this form of fever, a certain period is marked out for its duration, and to that end will

The first part of the paper is devoted to a general
description of the country, and to a notice of the
principal towns and manufactures. The second part
contains a list of the principal commodities, and
a description of the principal manufactures. The
third part contains a list of the principal
industries, and a description of the principal
industries. The fourth part contains a list of the
principal occupations, and a description of the
principal occupations. The fifth part contains a
list of the principal occupations, and a description
of the principal occupations. The sixth part
contains a list of the principal occupations, and
a description of the principal occupations.

Conclusion

It is to be regretted that the present paper
contains many errors, and is in many respects
incomplete. It is, however, believed that it will
be found to contain much valuable information,
and to be of great use to those who are
interested in the history and geography of the
country.

- it run. The mode of treatment, is as different, as it is uncertain, some using depletory measures in every case, while others lock up the vital fluid, and perhaps give stimulants &c. However pursue what course we will, pursue the direct opposite treatment in every alternate case, and the chances of recovery are very much against the patient. So, very often, the less we do, the greater is the probability of his recovery.

Treatment of first stage, Obtain a free evacuation, if state of bowels, do not contra-indicate it, a single day is of great importance in regard the propriety of administering cathartics. Venesection is thought to be admissable by some, but that condition which would demand the lancet, is secondary to the amount of muscular strength kept up or retained by non-depletion - If patient is seen on the very first or second day of his attack, the loss of blood to the amount of from xij to $xvij$ might be followed with benefit.

Empty Stomach with Tart Antimony or Specae, after obtaining an emesis, it is proper to give very mild solution of Tart Antimony

it was, the mode of treatment of the different
of a number, some being slightly diseased
and others the full of the fever, and a
one attended to. The fever however was
with, but the treatment of the fever was
and some, and the amount of recovery was
with the patient. It was of the nature, the
in the probability of recovery.
Treatment of the fever. It was a
state of health, but in the treatment, a
great importance is given to the
collaboration between a number of
but that condition which is the
leading to the amount of recovery, and
attainment of the patient, and a
higher state of health, the
of the patient, and the
of the patient, and the
of the patient, and the

= just in nauseating doses, when we will have arrived at second stage. which is beginning of second week. we are to make use of no active medicaments. It is in this middle stage, where constantly local symptoms present themselves, if patient complains of thirst, let him have ice or cold water slightly acidulated. at this period, patients have to Dr. Poly the odour closely similar to a sour Irish baby, ablutions are very grateful and should be done with sponge dipped in vinegar and water, during diarrhea give lime water mixture with any preparation of opium & should be not tolerate this, give an enema composed of starch and opium, Astringents are thought not to be advisable, If dysuria be present, use catheter two or three times daily or as often as occasion may demand.

Sometimes delirium is present to an alarming extent, & should be treated by the application of pounded ice in a bladder to the head, with head shorn of its hair, and the application of a small blister to back of neck, although blisters are not advised except to answer this end,

Pneumonia will be found complicated with this disease,

[The text on this page is extremely faint and illegible due to extreme fading and bleed-through from the reverse side. It appears to be a continuous block of text.]

- generally known by the rusty col^d sputa.

Local abstraction of blood, as the application of cups, or leeches to surface of chest is preferable to general depletion giving also Calomel say $\text{gr} \text{ij}$ or combined with chalk & opium. Be particularly careful to avoid exhausting patient by drastic cathartics. Symptoms of Arachnitis will shew themselves, which will be treated by leeching & cupping, cold applications, internal administration of alteratives as James Poudre, making use of venesections over surface of body.

Patient is annoyed by a short dry cough, resembling Bronchitis, for the removal of which, venesection early in stage and use of Ipecac or Tart Antimony -

Phlebitis makes its appearance during convalescence, commencing in intense pain in calf of leg, Saphena vein presents a red streak & feels like a hard knotted cord, Treatment. apply leeches to limb freely, then foment limb constantly, small portions of sleep Morphia given to allay pain and also in conjunction with Protochlor Hyd to produce slight turgidity of gums. External applications of Iodine

The cause of some things being done in haste
is that the time is short. It is in the last days
and the administration must be conducted with
great haste, the time is short, be careful not to
the amount of things that are done. But the
the administration is a matter of great haste.
As the friends of the cause are so few, and
must be taken that the cause is not
lost, guarding against all kind of opposition,
and maintaining their reputation to the end.

An Inaugural Dissertation
on
Carcinoma or Cancer
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
Evan W. Warfield
of
Howard District Maryland.
February 1845.

An Experimental Dissertation

on

Curcuma or Cassia

Submitted to the Examination of

the Most Excellent and

Academy of Physicians

of the

University of Maryland

For the Degree of

Doctor of Medicine

by

John W. Welford

Howard District Maryland

February 1845

In 1861 the British Museum acquired
 a copy of the University of Maryland
 and the University of the District of Columbia
 the University of the District of Columbia
 and the University of the District of Columbia

2

To Nathan K. Smith M.D. Professor of
Surgery in the University of Maryland
and Surgeon to the Baltimore Infirmary,
this dissertation is most respectfully
dedicated by the Author.

Faint, illegible text at the top of the page, possibly bleed-through from the reverse side.

To Mr. Robert H. Smith, M.D. Professor of
Surgery in the University of Maryland,
and Surgeon to the National Dispensary.
This certificate is most respectfully

submitted by the Doctor. In the
case of the patient, the following
is the result of the examination.
The patient is suffering from
the disease of the stomach, and
it is my duty to advise you
of the state of the case, and
of the results of the treatment
which has been pursued.

Cancer is a disease with respect to the nature and cure of which, the enlightened and Experienced practitioners of all ages, have confessed their extreme ignorance, whilst bold and ignorant Empirics have at various periods, confidently avowed the efficacy of their respective Specifics, in all the stages and forms of that terrible malady; and unfortunately, despair of receiving aid from regular practitioners, continues to drive the persons who are afflicted with that affection into the hand of unprincipled pretenders.

If we may credit the accounts published by various authors, it appears that there is scarcely any part of the body which is wholly exempt from the attacks of the cancerous affection; but it has been ascertained by reiterated observation, that glandular parts are much

[The page contains extremely faint and illegible handwriting, possibly bleed-through from the reverse side of the paper. No specific text is discernible.]

more liable to this disease than any others.

The parts most subject to this disease are, the breasts of women, the womb, tongue, mouth, lips, nose, face, skin, testes, penis, prostate gland, stomach, liver &c. No part of the body is more subject to cancer than the breasts of women, the small glands of which are so liable to obstruction.

It may occur at any period of life, but it seldom appears till about the time at which the menses usually disappear. Tumours arising in the breast previous to this period, have been considered by some authors as being only of a scrofulous nature, and it is probably owing to this circumstance that several cures have been made on tumours of the breast by mercurial friction, and other remedies.

This destructive disease excites the contiguous parts, whatever their nature may be, to the same diseased action. The skin, the cellular substance of muscles,

There is little to be said in regard to the
the first most important in the disease are the
presence of common, the virus, fungus, mould, &c.
and, first, which is the most frequent, is a
small, soft part of the body, which is
found when the disease is in its
early stage, and is called the
It may occur at any period of life, but it
is most frequent in the young at birth
the disease usually disappears, however being
in the best form, is the most frequent
prevalent in some parts, as being very
common, and it is probably very
this is common, that is, the
more so, because of the
and other diseases, which
the disease is the most frequent
the disease is the most frequent

and the periosteum of bones all become affected, if they are in the vicinity of cancer. This very striking circumstance in the history of carcinoma, distinguishes it from most other diseases.

Cancers are generally divided by authors into occult and open, of which varieties we shall speak more fully hereafter.

General History.

In its early stage cancer has the appearance of a small hard tumour, for the most part round, sometimes irregular, and has been compared, both from its size and figure to a hazelnut. Its increase is usually slow, unless exposed to irritation;

"When slow," says Mr. Abernethy, "it is in general unremitting, at least I am inclined to think the disease though it may be checked, cannot be made to recede, by that medical treatment which lessens the bulk of other sarcomatous tumours." The same gentleman adds, "I state this opinion however

but the possibility of having all become affected
of the air in the vicinity of the same. This has been
discussed in the history of the various epidemics
of the year 1802 and other years. It is well
known that generally speaking epidemics are
propagated by the breath of infected persons
in a direct or indirect manner. In the
case of the small pox, however, it is not
impossible to suppose that the virus may
be conveyed to a distance of many miles
from the source and appear as a epidemic in a
remote place. This is particularly true of
the "green" fever, the yellow fever, &c. in general
communicating it to a great distance is
these epidemics may be propagated by means
of the air. It is also true that some of
the best of these epidemics have been
observed in the air. It is the opinion of

7
with some hesitation, for I have been informed by surgeons, that diseases, the event of which proved them to be carcinomatous, have suffered a considerable reduction in size, by a peculiar local treatment. "This circumstance," he further adds, "affords, in my opinion, another criterion by which it," that is cancer, "may in general be distinguished."

As the cancerous tumour enlarges, it generally, though not constantly, becomes unequal upon its surface, so that this inequality has been considered as characteristic of this disease, and it is a circumstance which deserves much attention.

A lancinating pain in the part, frequently accompanies its growth; but in some cases this pain is wanting. It attends also on other tumours, the structure of which are unlike carcinoma; this pain cannot therefore be considered as an infallible criterion of the nature of a tumour. This pain when present

is of a peculiar kind; it consists either of sharp lancinating throbs, of deep shootings, or, in absence of these, of a constant gnawing, or sense of burning heat diffused over it; or of a prickling like the thrust of needles. At first it prevails chiefly on the changes of weather, but, in process of time, it becomes almost constant, independently of any external cause, and is then spread round the seat of the disease.

As the disease increases it acquires an additional incompressible hardness, and protuberance in the middle, while the surrounding subcutaneous vessels assume a varicose state, or feel thick and knotty.

The diseased skin covering a carcinomatous tumour sometimes ulcerates, before the tumour has attained any great magnitude; the skin begins gradually to change colour, it becomes first red, then purple, or red coloured,

and a perfect line; the contact of which
the contact of the plates of the
of the of a constant pressure, in the
that sufficient weight, in the
the least of matter. All that is
chiefly in the shape of matter
appears of atoms, it becomes almost
independence of any external force, and
this sphere covers the rest of the
As the matter increases it appears
in the possible, the particles
in the matter, the particles
in the matter, the particles

the least of matter, the particles
in the matter, the particles
in the matter, the particles
in the matter, the particles

9

and so the shade advances, being marbled as it were, with varicose livid veins, until it ends in black; but before this last colour appears, the integuments generally give way, and the contents of the tumor fall out; particularly when cells, (filled with pulpy matter, of different degrees of consistency, and of various colours) within the tumour are by this means laid open; from the sides of which an excreting ichor copiously distils. On the bursting of the integuments, the disorder becomes what is called an open or ulcerated cancer, and presents a new series of phenomena.

Open, or Ulcerated.

The following definition is given by Mr. Pearson, who says, "A cancerous ulcer is attended with a constant sense of ardent pain; it is irregular in its figure, and commonly presents an unequal

and as the above advances, being made as
it may be to discover their (and their
insects, but before this last volume appears
the experiments generally give way, and the
contents of the former fall out, particularly
then called, filled with the history of
different species of Genetivus, and of various
others) within the former are by this
volume laid open, from the sides of which
an extraordinary color copiously distils. The
the breeding of the insects, the
the disease what is called an open
related parts, and presents a new scene of
the anatomy. The disease is
and is called the
the following description is given by the
the disease is called the
a constant source of which is the
the figure, and contains the

10

Surface; it discharges a sordid, sanious and foetid matter; the edges of the sore are thick, indurated, and often exquisitely painful; they are sometimes inverted, at other times retracted, and often exhibit a serrated appearance. The ulcer, in its progress, is frequently attended with hemorrhages, in consequence of the erosion of blood vessels."

From the body of the sore, or its edge, a kind of spongy sprouting flesh, or growth, takes place, which soon assumes symptoms of gangrene or decay, and falls off, while the same appearance is successively renewed.

The progress of the disease is various; in some cases it advances rapidly, and then prevails, along with it, considerable inflammation; but more frequently it advances gradually, by an almost imperceptible corrosion of the adjacent parts. The direction of this corrosion is generally

in the course of the lymphatics, and the glands in the vicinity of the diseased parts successively assume the diseased action.

During the use of remedies, the thin ichor often assumes the appearance of pus, at least of a white sordes resembling pus, which adheres closely to different parts of the surface of the sore, this change however divests it of no portion of its acrimony, nor imparts to it any of the properties of real pus. In the progress of the ulceration, the sore acquires a peculiar, and intolerable stench whereby it may be readily distinguished, by practitioners conversant with the disease. It is more offensive than the odour, from any other species of ulcer; and is equally loathsome to the patient, and to the bystanders. This factor is increased by the use of greasy applications.

12

When the diseased actions have, as it were, exhausted themselves by their vehemence, an attempt at reparation appears to take place, similar to that which occurs in healthy parts. New flesh is formed, constituting a fungus of peculiar hardness, as it partakes of the diseased actions by which it was produced. This Fungus occasionally even cicatrizes. But though the violence of the disorder is thus mitigated, though it may be for some time indolent and stationary, it is never spontaneously cured, nor does the part ever become healthy.

In general, however, the disease continues to extend and the glands at a considerable distance from the original tumour become affected. The progress of carcinoma in an absorbent gland is the same as that which has been already described. The disease is

When the disease occurs here, as it does
in the West Indies, it is characterized
by a profuse eruption of small
pustules, which are attended with
a burning heat, and a swelling of
the glands, and a general
tendency to suppuration. In
the progress of the disease, the
system is affected with a
fever, which is attended with
a general debility, and a
tendency to suppuration. In
the progress of the disease, the
system is affected with a
fever, which is attended with
a general debility, and a
tendency to suppuration.

communicated from one gland to another; occasionally a gland or two become diseased out of the ordinary route of the absorbed fluid. In the advanced stage of the disease a number of small tumours, of a structure similar to that which has been noticed to exist in the incipient state of cancer, are formed at a distance from the chief tumour, so as to form a circle round it.

As the loss of substance proceeds, the functions of the body become disturbed, the appetite fails, and the strength gradually decreases. hectic fever is formed, with strong evening exacerbations, but before it can prove fatal, the patient is generally cut off by haemorrhage, the corrosion of the larger blood-vessels being one distinguishing characteristic of the buds of cancer; or by a fit of convulsion, and thus a miserable and painful existence is terminated.

Communicated from the
necessarily a part of the
rest of the ordinary
the other advanced stage of the disease
of small tumours of a tubercular
that which has been noticed in
occasional state of cancer, are
the same as the chief tumour, as
from a single nodule it
the loss of substance, because the
of the body become distant, the
and the strength gradually
found in former, with a
before it can have fatal
the rest is generally cut off
the character of the
characterizing character of the
of cancer, and the
necessity of the disease

14

Such is the general appearance of this disease, one of the most painful and loathsome that ever attack the human system. The patients existence is often protracted under the most excruciating torture, until the body has fallen into a state of extreme emaciation, receiving little alleviation from any treatment hitherto adopted,

Although we are fully warranted, by the testimony of the most respectable writers on this subject, in considering the above as the usual phenomena presented by this disease, it must be admitted that there are frequent variations in particular cases, and these variations are the sources of much perplexity to practitioners, when called on to decide as to the nature of tumours and ulcers.

There is another circumstance in the history of cancer which deserves attention and inves-

Looking at the general appearance of this species, we
find it most singular and distinctive. The
color of the plumage is brown. The feathers of the
wings are of a fine pinnated under the most
exquisite texture, and the body is
filled with a state of perfect
resembling little elevations from soft
textures of the feathers, and
Although not so fully ornamented by the
the wing of the most perfect feathers, and
the first, in considering the color of the
the numerous feathers of this species, it
is not difficult to see that there is a
in the number of feathers, perfectly
can be called out to show that the
of the plumage is brown. The
that is another common name in the
of some which is described in the

-tigation; that is, whether a disease not originally cancerous can become so, in its progress? We

can only form our opinions on this subject from analogy and observation. Analogy leads us to believe, that such an alteration in the diseased actions may readily take place. Venereal buboes often change their nature, after the administration of mercury, and become troublesome sores, to which that medicine is rather detrimental than beneficial. Injuries induced inflammation and enlargement of parts, which afterwards degenerate into scrofulous diseases.

"But though analogy seems so strongly to favour the opinion, I cannot" says Mr. Abernethy, "take upon myself to say, that my observations have confirmed it. When tumours have been removed, the history of which corresponded to that of cancer a cancerous structure was observed in them;

lightness; that is, whether a disease is originally
benign or becomes so, in the progress of it.
The first form of pneumonia is the most violent
of any variety and obstructions. The first stage
is to believe, that such an obstruction in the
lungs is not a disease, but a symptom of some
other disease, which may nearly kill the patient. The
lungs often change their nature, after the
administration of mercury, and become too firm
and solid, so that the medicine is taken without
any effect. This is a disease, which is
not to be cured by any medicine, but by
the use of mercury, which is the only
remedy that will cure it. The first stage
of this disease is to believe, that such an
obstruction in the lungs is not a disease,
but a symptom of some other disease, which
may nearly kill the patient. The lungs
often change their nature, after the
administration of mercury, and become too
firm and solid, so that the medicine is
taken without any effect. This is a
disease, which is not to be cured by any
medicine, but by the use of mercury,
which is the only remedy that will
cure it.

16

and, on the contrary, in disease of an apparently different nature, a different organization has been found. I once, indeed, assisted at an operation where the tumour was of that kind which I have denominated pancreatic; and I heard afterwards, that the patient died in the country of a disease which was reputed cancerous?"

When a hard tumour, which has existed a long time in a gland, without either diminishing or increasing, and without giving any pain, begins at length to grow uneasy, to extend gradually in its dimensions, and to be affected with occasional pungent and lancinating pains, there is reason to suspect, that it is taking on the cancerous action; this is not, however, invariably the case; since many instances have occurred, where the tumour has fallen into a state

and on the contrary in diseases of an inflamed
andly different nature, a different regimen
is to be used. Thus, in the
of an operation where the tumour was of
that kind which I have recommended
cases, and I had afterwards that the
patient died in the course of a disease
which was reported to me
that a great tumour, which has existed a
long time in a great, without other
circumstances, but without giving
any pain, began at length to grow
in great abundance, and
the patient with various symptoms
and a considerable quantity of
the patient that it is taking in the
state, this is not however, in
the case, some more violent, and
where the tumour was for

of inflammation, and even been attended with that peculiar kind of pain which most of all is to be suspected, and yet the disease has not proved to be of that fatal nature, but the patient has received a certain, though tedious cure. These instances, when they do occur, are eagerly laid hold of by quacks, and the vendors of nostrums; and are advertised as instances of the efficacy of their plans, which unwary persons, really affected with cancer, are sometimes drawn in to make trial of, at the expence, perhaps, of the only resource which remains for their security. This disease, as before observed, does not put on the same appearance in every instance, but, in common with some other local affections, is so far influenced by the peculiarity of structure, of the part affected, as to exhibit very different appearances.

of inflammation, and even been attended with
that peculiar kind of pain which usually
attends to be expected, and yet the disease
has not proved to be of that fatal nature,
but the patient has received a certain though
temporary cure. These instances, when they do
occur, are especially less liable of pyrexia, and
the number of hostilities; and are attended
with a mitigation of the severity of their pain,
which usually increases, and is affected
with cancer, or sometimes even in the
kind of, at the expense, perhaps, of the
resources which remain for their recovery.
This disease, as before observed, does not put
on the same appearance in every instance,
but is common with some other kind of
fever, as in the inflammation of the
viscera of structure, of the part affected, as
to exhibit very different appearances.

These, indeed, have borne so little resemblance in some cases, as to have tempted authors to deny that the general term cancer could be strictly applied to them. Mr. Adams thinks the cancer of the uterus, at least, a very fair exception; and not only that of the rectum, but every carcinomatous affection which begins on the skin, or parts superficially situated, seems clearly distinct from the same disease in the breasts or other secreting glands. The incipient state of cancer has been distinguished by the ^{name} of scirrhus by authors. The scirrhous state of a gland is that in which the tumour gives no uneasiness, and in which the skin does not lose its natural colour. Every indurated and insensible tumour in a gland is, therefore, strictly speaking a scirrhus: the term, however is never applied to such affections, unless they threaten to terminate in cancer.

These indeed have done so little resemblance
in some cases, as to have tempted authors
to say that the general term Cancer does
not strictly apply to them. Mr. Adams
thinks the cause of the tumor, at least a
very fair exception; and not only that of
the texture, but every circumstance affecting
which begins on the skin, or parts superficial
of situated, seems clearly distinct from the
same disease in the breast or other seatings
of glands. The insipient state of Cancer has been
distinguished by the term of Scirrhus & Carcinoma.
The insipient state of a gland is that in which
the tumor gives no resemblance, and in which
the skin does not lose its natural colour.
Very indurated and immovable tumors in a
gland is, therefore, strictly speaking a Scirrhus.
The term, however is never applied to such
affections, unless they threaten to terminate in Cancer.

Anatomical Structure.

It is difficult to convey correct ideas of the structure of carcinoma by words, or even by drawings. In the generality of instances the diseased part is peculiarly hard, and there are intermixed with it firm whitish bands, There is indeed no other striking circumstance, which can be mentioned as constantly claiming attention, except perhaps the smooth and solid appearance which has been said to resemble that of a raw Irish potatoe when cut. These firm whitish bands sometimes extend in all directions from the middle towards the circumference of a carcinomatous tumour, having little intervening matter. Sometimes they intersect it irregularly; having interposed between them a firm brownish substance, which may be scraped out with the finger. Sometimes they form cells, containing a pulpy matter of various

Colony of *Stratocoma* *stratocoma*

It is difficult to convey correct ideas of the
structure of *Stratocoma* by words or even by
drawing. In the possibility of *Stratocoma* the
essential part is peculiarly hard. And these
are intertwined with it from which the
There is noted an other striking circumstance,
which can be mentioned as constantly occurring
attention, except perhaps the smooth and soft
appearance which has been said to resemble the
of some kind further when cut, their form
which have sometimes extend in all directions
them from the middle towards the circumference.
case of a carcinoma tumor, having little
containing matter. The structure they interest
it irregularly; having irregularities between them
a firm brownish substance, which may be broken
not with the finger. Sometimes they form
cells containing a pulpy matter of brown

Colours and consistency; and sometimes these bands assume an arborescent arrangement, ramifying through the diseased substance.

Firm white bands, like thickened and compact cellular substance, are seen as the disease advances, to extend themselves from the original tumour amidst the fat in which it is occasionally imbedded, intercepting portions of fat in the irregular areolae which they form.

This circumstance deserves consideration on account of its practical application; for if after removing a carcinomatous tumour, the surgeon attends to the part which has been taken away, he will see if any of these bands have been cut through, and, consequently, whether some of this diseased substance, which ought to have been removed, has not been left.

This circumstance can only be observed by examining the part which has been removed.

colours and consistency; and sometimes these have
assumed an abundant arrangement, resembling
through the disease substance.
Thin white bands, like thickened and compact
cellular substance, are seen as the disease ad-
vances, to extend themselves from the original
tumour so that the fat in which it is so
essentially imbedded, intercepting portions of
fat in the irregular order which they form.
This circumstance becomes considerable on
account of its practical application; for if of
the removing a carcinoma tumour, the
surgeon attends to the part which has been
taken away, he will see if any of these bands
have been cut through, and consequently, whether
some of the diseased substance which ought
to have been removed, has not been left.
This circumstance can only be observed by exam-
ining the part which has been removed.

These are the chief circumstances, which characterize cancer, and distinguish it from other diseases. The account of them is brief, because it was designed merely to point out its distinguishing characters.

Causes.

The want of familiar acquaintance with the diagnostic signs of cancer, has been a most fertile source of error and deception; and, "while we remain unfurnished with authentic standards," or established data, by which all observations may be examined, it ought not to excite surprise, if the same name be applied to two complaints, the histories of which are different from each other, or if opposite modes of treatment be directed for diseases of the same nature.

After all that has been written, and said on this subject, it must be admitted however,

There are the chief circumstances, which
characterize cancer, and distinguished it from other
diseases. The account of them is brief, because
it was necessary merely to point out the
distinguishing characters.

The most of familiar experiments with
the diagnostic signs of cancer, has been a
most fertile source of error and deception;
and, which we remain unacquainted with
the "standard" or established state, of
which all observations may be compared, it
ought not to excite surprise if the
name be applied to two complaints, the
nature of which are different from each other.
As if opposite modes of treatment be directed
for diseases of the same nature.
After all that has been written, and said
on this subject, it must be admitted however

that we are still in the dark concerning the cause of scirrhus and cancer, or the nature of that peculiarity of constitution in different persons, which predisposes them to this malignant derangement of animal structure.

We do not even know what changes constitute the cancerous state of an organ; and it is yet debated in the medical world whether the disease be local or general.

Cancer, occurs most commonly in elderly persons, but no age is exempt from it.

Predisposing causes.

The period of life at which it most commonly occurs, and the circumstances of its progress, seem to indicate that the causes, whatever they are, must be of a sedative or debilitating nature, and that they are such as are capable of giving rise to, and actually do give rise to general cachectic state.

that we are still in the dark concerning the
causes of leucinae and cancer, or the nature of
that peculiarity of constitution in different
persons, which predisposes them to this or
that kind of derangement of animal structure.
We do not even know what changes constitute
the cancerous state of an organ; and it is
not debated in the medical world whether
the disease be local or general.

Cancer occurs most commonly in elderly
persons, but no age is exempt from it.
Predisposing causes.

The period of life at which it most com-
monly occurs, and the circumstances of
its progress, seem to indicate that the cancer
whether they are, must be of a debilitated or
debilitating nature, and that they are such
as are capable of giving rise to, and actually
to give rise to general cancerous state.

It is this state, perhaps, on which the obstinacy of the disease depends; and its appearance in the form of cancer is particularly favoured by the minuteness and peculiarity of glandular organization, whose circulation, at all times, depends much on the irritability of its own vessels. Any diminution of the general tone of the animal fibre, must, on that account, display itself by a stronger tendency to obstruction in such parts.

As cancers occur much more frequently now, than in former times, we must admit the existence of causes, which, cannot be otherwise than general in their nature, as external circumstances or accidents, must have been about the same formerly as at present. We must therefore look for these causes in the body itself. Perhaps some light might be thrown on the subject by comparing the modes of

It is the state of the world, and the
of the various objects, and the appearance of the
form of matter, as far as they are concerned by the
movement and rest, and the possibility of generation or
destruction, and the circulation, at all times,
of the various kinds, in the possibility of the same
being. The determination of the general laws
of the various kinds, must be the result
of the study of a change, tendency to
destruction in each part.
The various kinds, must be properly named,
then in former times, the most exact of the
specimens of nature, which, cannot be obtained
than preserved in their nature, as they are
circumstances or accidents, must have been
about the same form, as it is possible
to find them, but for their case in the
world itself. Perhaps some light might be thrown
on the subject by comparing the number of

24

life in former times, with those which are adopted at the present period. The differences are chiefly referable to the two following general heads: Increase of Luxury in the higher ranks of society; and the immoderate use of spirits, and other articles producing indirect debility, joined to the want of a due quantity of nourishment, in proportion to the labour undergone, in the lower orders of society.

Some difficulty may, perhaps, attend the precise application of these general causes, to any particular modification of disease; but still the circumstances seem probable, and the more the subject is studied, the greater influence will the causes seem to possess, in accounting for this and many other forms of diseases now so prevalent.

The exciting or occasional causes may be referred either to: Accidental impressions producing injury

life in former times, with those which are at
present at the present period. The differences are
chiefly referable to the two following general heads:
1. The increase of luxury in the higher ranks of society;
2. The immoderate use of spirits, and other
articles producing indirect debility, joined
to the want of a due quantity of amusement,
as respects to the laboring classes, is
the lower order of society. The
same difficulty may perhaps extend to the
higher application of their moral senses, to
any particular modification of disease; but
with the circumstances seem favorable, and
the more the subject is studied, the greater
confidence with the cause seem to possess,
and consequently for this and many other forms
of disease seem a prospect.
The exciting or recessive causes may be divided
into: 1. Acquired or professional, producing injury

of the part. Changes altering the course of the regular circulation, and determining to the seat of the disease. or, to both these causes combined. Of the former are all External accidents, as blows, contusions, preceding inflammation, &c. Even the practice of wearing stays, in the manner commonly practiced by females, must greatly expose to obstructions by resisting the passage of the fluids through the minute vessels. Of the others are all suppressed discharges, affections of the mind, &c.

Those women who are attacked with this disease in early life, we find, for the most part, irregular; hence we may with propriety consider the cessation of the regular menstrual discharge, as a cause of cancer in the females of advanced life; as well as the suppression of haemorrhoids in the male, when long accustomed to them. Indeed, out of ^{twenty} ₁ women affected with

of the part. Change of the nature of the
regular motions, and determining to the best
of the power. It is not that these cases can
be seen of the power in all of these accidents
as they are to be seen, preceding inflammation,
and the practice of evacuating stops, in the
course commonly practiced by females, but
greatly expose to obstruction by resisting the
passage of the fluids through the minute vessels
of the uterus in all suppurated discharges,
affections of the mind, &c.
Those women who are attacked with these diseases
in early life, are first, for the most part, to
be regarded, hence we may with propriety con-
sider the cessation of the regular menstruation
itself, as a cause of cancer in the females
of advanced life; as well as the suppurations of the
mammary in the breast, which may occur
to them. These out of number affections with

cancer, fifteen of them will be at this critical age. The pressure of grief long continued, by producing a powerfully sedative effect, has been said by many to have caused this disorder. So sudden and violent emotions have been also sometimes suspected of producing the same effect.

Cure.

It cannot be doubted that numerous cases on record, denominated cancer, and perhaps all those in which, cures of this disease are said to have been performed, without destroying or removing the part affected, were complaints of a very different nature. Many hard tumours of the breast, especially those of a scrofulous kind, and such as appear after child bearing, have been mistaken for cancers, but they may generally be dispersed by the early and repeated application of leeches, bathing with Camphorated

Caner, fifteen of them will be at this critical
age. The pressure of grief and excitement, by
producing a powerfully sedative effect, has
been seen by many to have caused this kind
of sudden and violent convulsions have been
a commoner sequel of producing the
same effect.

Cure.

It cannot be doubted that numerous persons
suffer, dissipated cancer, and perhaps all
those in which, cure of the disease are said to
have been performed, without destroying or
removing the part affected, more complaints
of a very different nature. Many hard tumours
of the breast, especially those of a scirrhous
kind, are cured or appear after child bearing
have been mistaken for cancer, but they may
generally be distinguished by the early and repeated
application of leeches, but they will not

Spirits, soap liniments, hemlock poultices, saturnine lotions, or gentle friction with mercurial ointment. It has been justly observed by Mr. Home, that the success met with in some of these cases, is often productive of material mischief, by inducing practitioners to be too sanguine, and to go on with the use of the same means in other cases, encouraged by this former success, till the disease has arrived at the state of a true cancer, and has advanced beyond that stage in which it might have been thoroughly removed by an operation.

It is of great importance, on the one hand, not to alarm our patients prematurely, by giving a hasty and unfavourable opinion; but on the other hand, practitioners would do well to weigh all the circumstances which may enable them to decide on the nature of such tumours, and if they are confident of their

the state of a true cancer, and has advanced
beyond that stage in which it might have
been thoroughly removed by an operation.
It is of great importance in the ear, but
is almost unalterable, and truly, by giving
a sharp and unobtrusive opinion, but on
the other hand, practitioners would do well
to weigh all the circumstances which may
enable them to decide on the nature of such
tumors, and if they are confident of their

being carcinomatous, to lose no time in advising the only step which can be taken for the security of the unfortunate sufferers.

The chief difficulty on this subject, is to discriminate between scrofulous indurations, and scirrhous tumours; and it is a point of great importance to be correctly settled, as on this depends the comfort and safety of patients. If a cancerous affection is decided by the surgeon to be a scrofulous tumour, the patient may indulge a fatal and delusive hope of perfect safety until the disease has made so great progress, as to be without the reach of surgery. If on the other hand a scrofulous tumour is judged to be cancerous, the patient is unnecessarily subjected to a formidable operation, and according to the opinions of some respectable pathologists, rendered particularly liable to phthisis pulmonalis.

being characterized by no tumor in the
the body of the subject can be taken for the
of the important symptoms.
The chief difficulty on this subject is to
examine between the two kinds of
and benign tumors; and it is a point
of great importance to be carefully studied
as on this depends the comfort and safety
of patients. If a cancerous affection is
by the surgeon to be a scrophulous tumor
the patient may undergo a fatal and
dangerous effect until the disease has
made so great progress as to be without
need of surgery. If on the other hand a
solid tumor is supposed to be cancerous
the patient is unnecessarily subjected to
painful operation, and according to the
opinion of some respectable pathologists
sometimes fatally.

To discriminate between these two affections is sometimes very difficult; "So much," says Mr. Home, "does the same disease differ in its appearances, in different patients, from the endless peculiarities of their constitutions, by which every part of their body must be more or less influenced, that it is not possible in practice to distinguish, in all cases, between carcinomatous and scrofulous tumours, after they have advanced to a certain size; and I am ready to confess that, in many instances, I have mistaken the one for the other and have removed, by operation, the tumours which at the time had the appearance of being cancerous; and upon examination, after their removal, found them of a scrofulous nature. On the other hand, I have neglected to remove tumours, from the circumstances making it probable that they ^{were} scrofulous; which afterwards became cancerous,

...the same disease differ in the
appearance, in different patients, from the
another characteristic of their constitution, by
which every part of their body must be
affected in the same manner, that it is not possible
in practice to distinguish in all cases, between
...and ...
they have assumed to a certain degree, and I have
ready to confess that in many instances I have
mistaken the one for the other, and have
been misled by operations, therefore which of
the times had the appearance of being ...
and which ...
them of a ... On the other hand,
there is noted in some tumours, from the
... making it probable that they
... but ...

and destroyed the patient?" In all such doubtful cases, it is the safest rule to advise the removal of the tumour, if it be situated fairly, for the operation; as it is a much less serious inconvenience to lose a scrofulous gland, than to retain a cancerous tumour, which probably might cost the patient his life.

Palliative Treatment.

As the disease, when arrived at the open, or ulcerous state, cannot be successively combated through the medium of the constitution, and as none of the remedies proposed have, on trial been found to merit our confidence, it would be a waste of time even to enumerate them; we shall, therefore, briefly mention those remedies from which we may hope to procure for the patient some temporary advantages.

The Topical Applications to an open cancer, which have been found most useful to alleviate pain,

cleanse the sore, or to correct the foetid smell arising from it, are: Fresh bruised hemlock leaves. Scraped young carrots. The fermented poultice. Finely levigated chalk. Powdered charcoal. Carbonic acid gas. A watery solution of opium. Liquid Tar, or tar water.

The internal remedies which have been most beneficial are: Very small and long continued doses of arsenic. Liberal doses of cicuta. Free use of opium. Aconitum. Hyosciamus. Belladonna. Solanum. Nertial flowers. Corrosive Sublimate. Nux Vomica; &c. The chief object the surgeon has in administering these remedies, is the alleviation of pain. It is to this property alone, in different narcotic vegetables, that many authors attribute their supposed virtue in cancerous affections. Pain not only abstractly, but relatively, impairs the body. Its stimulus is not merely attended with direct morbid

The most common cause of this disease is
 the use of opium. It is also caused by
 the use of other narcotics, such as
 alcohol, tobacco, and hashish. The
 disease is characterized by a
 peculiar state of the mind, in which
 the patient is often delirious, and
 sometimes even violent. The
 disease is also attended with
 various other symptoms, such as
 vomiting, diarrhoea, and
 prostration of the body. The
 disease is not always fatal, but
 it is often attended with
 great suffering.

32

consequences, but tends also indirectly to the patient's injury, by destroying the appetite, and producing the most afflicting state of mental dejection.

The remedies capable of alleviating the violence of pain, are both general and local. Of the former kind, not only opium, but most of the inferior narcotics, have been administered with considerable temporary benefit.

It is generally expedient, indeed, to carry the use of these remedies as far as the immediate safety of the patient will admit; not forgetting, that in the alleviation of pain is, perhaps, involved the prolongation of life; for debility, the gradual increase of which marks the progress of cancer to its fatal termination, is greatly increased by long continued and violent pain.

...but these also naturally to the
patentee's injury, by destroying the effect
and producing the most affecting state of
mental depression.
The numerous cases of alienating the mind
of persons in both genders are well known. Of the former
kind, not only specimens, but most of the in-
famous Marston, have been administered
with considerable temporary benefit.
It is generally experienced, indeed, to carry the
use of these remedies as far as the immediate
safety of the patient will admit; but I regret
that in the administration of them, it is
often overlooked the preservation of life, for
ability, the gradual increase of which makes
the progress of cure in the fatal termination
is greatly increased by long continued use
of these remedies, and it is a common opinion
that the patient will be cured.

Exterpation).

But neither the external nor internal remedies, however apparently useful for a time, can be depended on, for the cure of a genuine confirmed cancer.

Scirrhous tumours and cancerous excrescences may be removed from almost all the external parts of the body, but no surgeon perhaps could now be found to undertake the excision of any internal organ; for example the uterus.

The circumstances which indicate the propriety of an operation are these:-

When a cancer is so situated as not to expose any large blood-vessels or nerves to be cut in the operation. When the whole of the morbid parts can certainly be removed. When the disease has been excited into action by external accidental causes. When the patient is other-

... of an operation or the...
... cancer is so situated as not to...
... large blood vessels or nerves to be cut in...
... the operation. When the...
... can certainly be removed. When the...
... has been operated into...
... cancer. When the patient is other...

-wise healthy. and, When the Cancer has not shown evident symptoms of considerable malignancy during its progress, and does not seem to have involved the adjacent glands, or absorbent vessels. The two first of these requisites are not to be dispensed with; for, unless we can dissect out all the morbid parts, without incurring the danger of dividing important nerves; or arteries which could not be controuled by ligatures, the operation must never be attempted.

The general rules for the performance of the operation are:

To make the external wound nearly in the direction of the subjacent muscular fibres, and to make it large enough for the removal of all the morbid parts. To save, if possible, as much sound skin as will neatly cover the surface of the wound

... healthy. Now when the cancer has not
... symptoms of carcinoma
... during its progress and does
... the adjacent
... the first
... of these symptoms are not to be depended
... for unless we are direct out all
... the morbid parts, without involving the
... of dividing important nerves; or
... which could not be removed by
... the operation must never be attempted
... for the performance of the
... operation is
... to make the operation most nearly in the
... of the adjacent muscular fibres
... it is large enough for the removal
... of all the morbid parts. In case of failure
... as much blood as will nearly cover
... of the surface of the wound.

To secure, by ligation, every bleeding vessel, which might hazard a subsequent hæmorrhage.
 To retain the lips of the wound in close contact, without interposing any dressing or extraneous substance between them.

To preserve the parts in an easy and steady position for some days, before they are looked at or opened. To use no other than mild and cooling applications during the cure.

~~When~~ I to conclude this dissertation without expressing my thanks to the professors who fill their respective chairs, with so much honour to themselves and advantage to their pupils, I should consider myself guilty of ingratitude.

In taking leave of my medical teachers in the college, I beg leave to assure them of my high respect for their talents and enterprize, and of my ardent wishes that this school may

to receive by signature, every blank sheet,
which might be used as a subsequent document.
to return the title of the record in class
contact, without interfering any dressing
or otherwise substance between them.
to preserve the parts in an easy and steady
position for some days, before they are
in contact. It is no other than mild and easy
application during the cure.
There is to consider this situation without
expressing my thanks to the professor who
fill the respective chairs, with so much
honor to themselves and advantage to
their pupils. I should consider myself
guilty of ingratitude.
In taking care of my medical studies in the
College, I had been to receive them of my high
respect for their talents and enterprise and
of my ardent wishes that the school may

soon attain the rank to which the merits
of its professors and the liberal principles
on which it is established entitle it.

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

Now obtain the rank to which the merits
of the professor and the liberal principles
conferred it is established and it.

An
Inaugural Dissertation
On
Gastro-Enteritis

As it occurs in the
Malarious Districts of Maryland
Submitted
To the examination
of
The Provost, Regents, and Faculty of Physic
of
The University of Maryland
For
The degree of Doctor of Medicine
In the session of 1844-5.

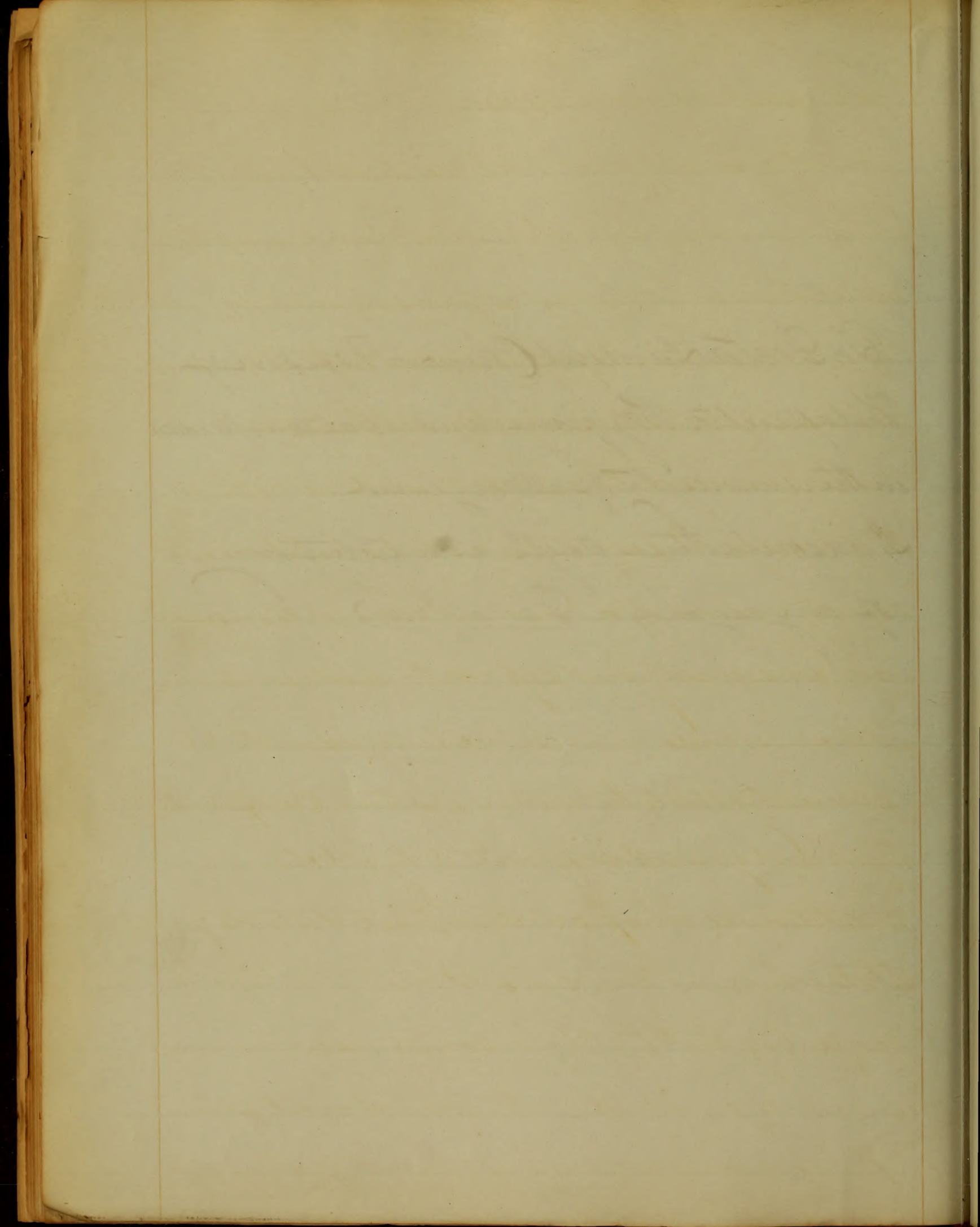
By
Daniel Kent of Anne Arundel Co., Md.

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

2

To Doctor Samuel Chew, Professor of
Therapeutics, Hygiene, and Materia Medica
in the University of Maryland.

I inscribe these pages, as a testimony
of my regard. D. Mitchell



The frequent occurrence of Gastro Enteritis in the district of country in which I reside and indeed in all the malarious districts of Maryland; and the maltreatment to which it is often subjected by Empirics both within the profession and without, induce me to select it as the Subject of my Thesis. —

Whatever may be the essence of malaria, or whether there be any such particular morbid exhalations as are usually contended for, I shall not here stop to enquire, and consequently shall pass over the mode in which such an essence, (its existence being admitted) primarily affects the human system. One fact I think will generally be admitted by all observant practitioners, who practice in those districts of our State where intermittent and remittent fever occur. viz. that the Chylo-poitic viscera are most frequently involved in the morbid excitement. There are some causes sufficient perhaps to

[The page contains approximately 20 lines of extremely faint, illegible handwritten text. The ink is very light and the script is difficult to decipher.]

4

account for this morbid ^{action}, without admitting the existence of any particular malarial, and true philosophy requires us when we have a cause sufficient to account for a given phenomena, not to trouble ourselves in seeking out other and hypothetical ones.

Our location is in the neighborhood of large collections of water, the evaporation of which under the burning rays of the sun, keeps our atmosphere constantly charged with an excess of humid vapour. Such an atmosphere is not so well calculated to remove the products of cutaneous transpiration as an arid one kept in continual circulation by constant winds, consequently there is a determination inwards and particularly to the minute vessels or exhalents of the Gastro Enteric mucous membrane, and to the kidneys which are obliged vicariously to assume the functions of the skin.

Our people too, are high livered they consume

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

vast quantities of nitrogenous food, and that of the
 most stimulating kind, bacon, salt fish, fresh fish,
 oysters, poultry, fat mutton &c. Now the lungs in
 consequence of the rarefaction of the air by the heat, and
 of the large quantities of moisture it contains, are
 unable to throw off this excess of carbon, the liver therefore
 the compensating organ, is obliged to assume an addi-
 tional office in changing the economy of its excremen-
 tions; hence arises superexcitement on the part of that
 organ. Now the physiological relation between the
 liver and the mucous membrane of the alimentary
 canal, is an intimate one, and they reciprocally act
 and react upon each other. Thus if the duodenum is
 morbidly excited, the irritation extends to the liver and
 supersecretion is the consequence, just as in the natural
 physiological state, the stimulus of food in the duod-
 enum excites the afflux of bile, its chemical precipitant
 When the liver from other causes becomes excited

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

6

and stimulated by hyperemia to secrete unusual quantities of bile, it acts as an irritant to the Gastro-Enteric mucous membrane, just as an unusual effulgence acts as an irritant to the eye, to which a certain quantity of light is the natural stimulus — In proof of these positions I appeal to the fact verified by the experience of every one, that in cool, dry, and windy weather, such as we have had during the past summer, the health of people has been unusually fine. When however the system is predisposed to morbid action by the operation of the above causes, all that is needed to kindle a fever in the system is an exciting cause, and this is generally applied to the Gastro-Enteric mucous membrane. A full meal, a large quantity of cold water taken when the system is overheated, or some one of the many indigestible substances that are so inconsiderately swallowed by the impudent, is the torch that sets fire to the combustible materials already accumulated. A fever acts in

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

7
of a remittent perhaps, but more usually of a continued
type. Hence the disease bears some resemblance to what
is vulgarly called bilious fever, and by unprofessio-
nal people and Empirical practitioners, the mistake
is easily made. The consequence is, that the patient is
led to believe that he is "Chock full" of bile, and mis-
-erably recommended to take a dose of calomel and
jalap, or calomel and tartar emetic, with this advice
he is sure to comply, but alas! he finds his fever increa-
-sed as well as his pain by the very means he took to
alleviate both, his tongue is red, breath foetid, he has
great thirst, continual vomiting, epigastric tenderness
and dark coloured, or perhaps bloody motions. So far
however from attributing this increase in the severity
of the symptoms to his injudicious selection of reme-
-dies, he attributes the whole to an "overflow of bile", and
repeats the irritating cathartic. Finding his patient
getting worse, the Doctor bleeds him perhaps, then

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

5

gives a dose of morphia to allay the pain, next day finding his patient weak, he gets a blister over his whole abdomen, which as the disease is a strong one, it is allowed to remain on eight, ten, twelve, or perhaps twenty four hours. The patient grows weaker, the extremities cold, delirium, a coma supervenes, and cups are applied back of the neck. A liberal allowance of food, brandy, and quinine closes the scene. His friends declare he had a tremendous attack of bilious fever, which carried him off notwithstanding all the strong medicine he took.

Thus many a victim is immolated on the shrine of "bilious fever" The high priest who officiates at the sacrifice, having his mind filled with an overflowing gall bladder and a stream of calumny sweeping the bile from the clogged mucous membrane. Shade of the departed Rush, if thou couldst but see how the ignorant, or half informed practitioner, perverts

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

your doctrines and founde miserable practice on thy
 good precepts, what anguish would fill thy humane
 heart! If the sufferer happens to be a child, the poor
 little creature is obliged to undergo the operation of an
 endless list of remedies, which are declared to be "good for
 worms", till the cerebro-spinal axis is drawn into the
 morbid concatenation, and convulsions or coma
 place the patient, when the ignorant cease to trouble.

Having thus sketched the diseases with which
 Gastro-Enteritis is most liable to be confounded, and
 the injurious consequence of such a blunder; I shall
 next proceed to state the

Symptoms. A dull and
 heavy sensation in the Epigastric region, particularly
 after taking food, listlessness, inactivity, headache, rigors
 or only slight chillings, pain in the limbs, fever of a remit-
 tent, or continued type, great prostration of strength
 , injected conjunctiva, which has at times a yellowish

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

tinge; the countenance assumes an expression of anxiety and depressed state of the mind, the respiration is hurried, and at times there is a slight cough, breath foetid, the pulse is frequent, somewhat full, usually compressible, though at times tense, tongue loaded and white in the centre, red at the tip and edges. There is loss of appetite, nausea, retching, or perhaps vomiting, the ejected fluid being of a greenish or yellow colour, there is a heavy, dull and aching pain in the epigastric region increased on taking a full inspiration, while in the umbilical region there is a sense of uneasiness which can scarcely be said to amount to positive pain; the epigastrium is at times so tender that the patient cannot bear the application of the hand, an almost quenchless thirst accompanies the disease and induces the patient to take large quantities of water which by distending the stomach, soon brings on

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

emesis. The bowels are at times constipated, occasionally the patient is teased by the frequent passage of bloody mucus, it will generally be found that the operations contain no bile. The urine is scanty and red, the skin hot and dry, with great restlessness and jactitation. In short each and every organ of the system seems to have forgotten its function, innervation is sluggishly performed, nutrition is not performed at all, and secretion is arrested, or its products so changed that instead of accomplishing the object for which they were designed, they become irritants to the parts with which they are in relation. —

The opportunities for post-mortem in our section of country are very rare, because the disease if judiciously treated, seldom proves fatal, and when it does, there is so strong a prejudice against the operation that we can scarcely ever surmount it, even when our patient is a servant. The disease however

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

has been so thoroughly investigated by Broussais and his disciples, that little further can be said, as it relates to the gastro-enteric mucous membrane; if we add that the condition of the liver and spleen is such as is generally found in malarious districts, a very good idea may be formed of the disease as it occurs amongst us.

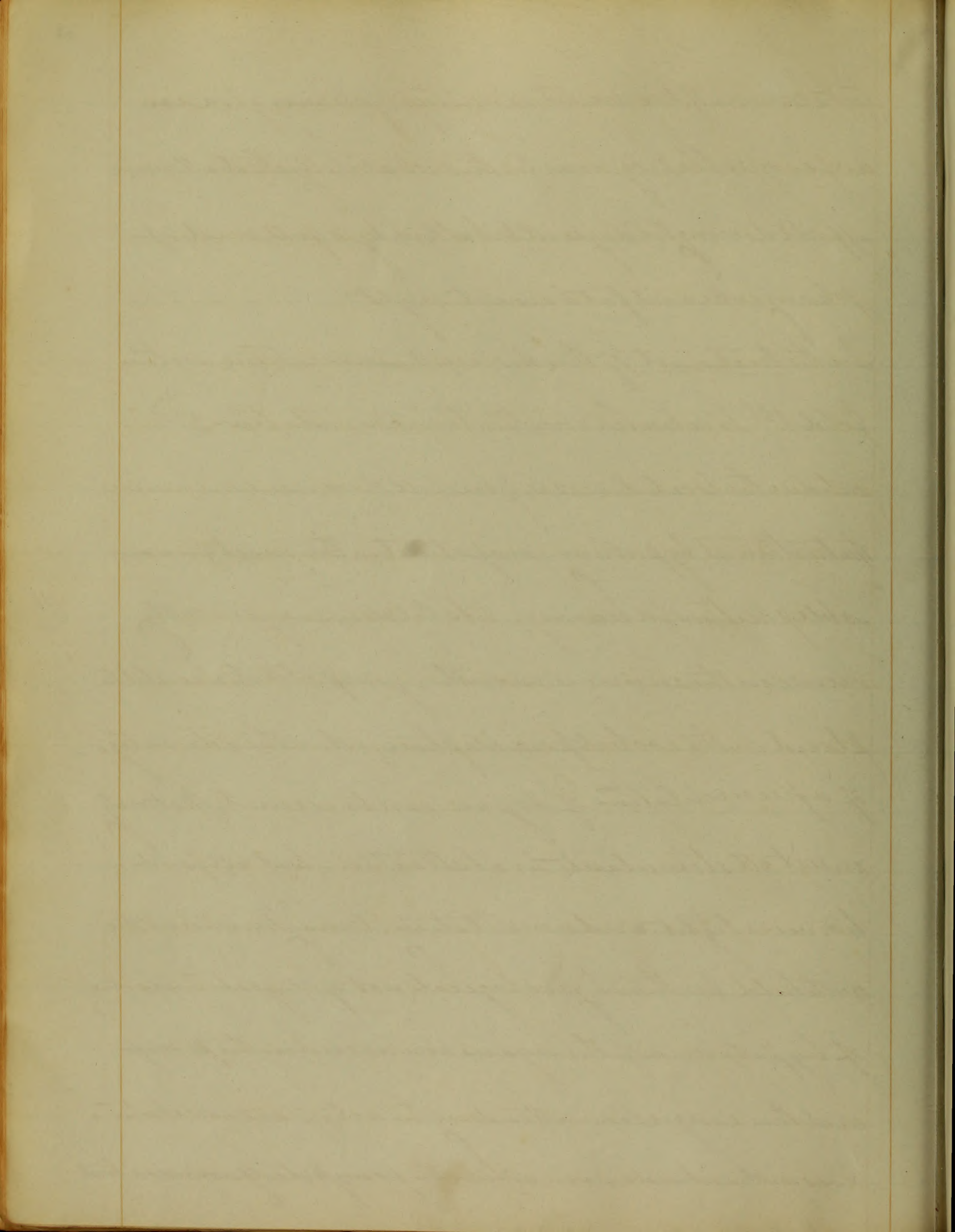
As to the Diagnosis, there is no difficulty attending it; indeed in most instances, the character of the disease is so strongly marked, that there is scarcely a possibility of its being mistaken, even by the inexperienced.

The prognosis though generally favourable, must not be given without taking into consideration the constitution of the patient, and the circumstances by which he or she may be surrounded. If as is not unfrequently the case, your patient be a negro in an outhouse, where he is not subjected

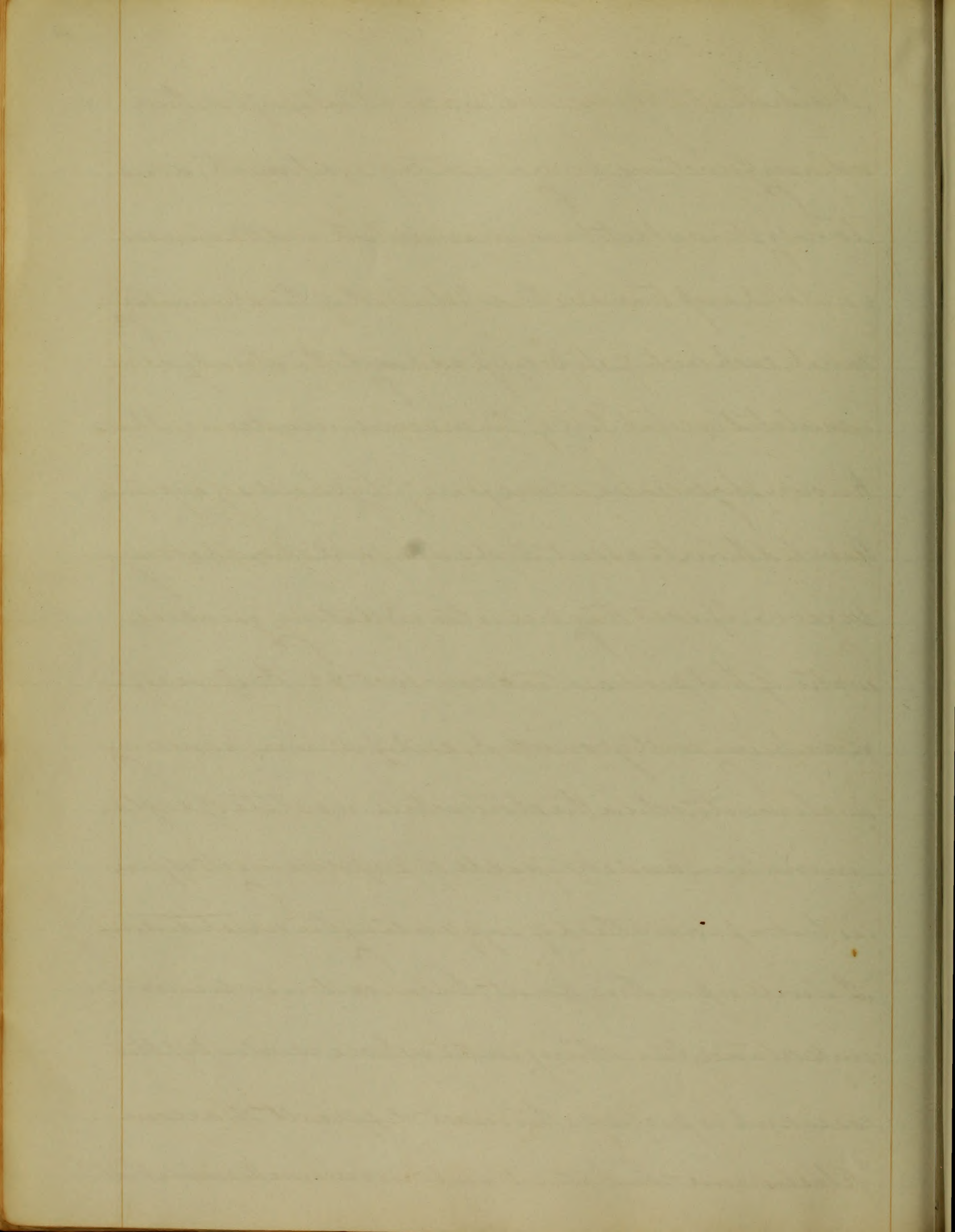
[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

to the control of his master, or mistress; you may give an unfavourable prognosis, for the probability is that all your efforts during the day will be balked by a full meal of Johnny cake and fat bacon at night.

In the treatment of this disease the indications are two - 1st To calm the constitutional irritation - 2nd To subdue the local disease. You will of course commence the treatment by putting your patient in the most favourable position for recovery. As the disease generally occurs in the summer months, your patient should be placed in the coolest possible place, where the advantages of a free circulation of dry air can be secured. Not only must all stimulants be abstracted, but all food however light, and unstimulating it may be, must be withheld, for the physiological act of digestion is one of hyperemia of the organs concerned in the process and this congestion attending the act of assimilation does not subside, even when the process itself is finished



besides this the organs are not in a condition to perform their ordinary functions, being in a state of excitement; a customary stimulant becomes an irritant, and the unassimilated mass traverses the whole tract of the alimentary canal, each inch of its progress adding to the already accumulated excitability of the mucous membrane. I have known physicians whose fears of typhoid symptoms have led them to assert, that some food should always be given. If said they, rice is too irritating, give rice water, if that proves so too, arrow root &c. This fear is far from being well grounded, and if it were, pouring in aliments, when the stomach is in a state of inflammation, and incapable of performing its office is but a poor method of supporting the constitution. I dwell upon this point, because it is inferior in importance, to nothing in the whole conduct of the case, and is perhaps the most difficult of accomplishment. The patient and his friends presume that



he is weak, and this weakness is always attributed to the withdrawal of food, and they combine to urge upon the

of the necessity of allowing the patient nourishment; if now you have to deal with intelligent persons a very little pains will soon convince them, of the true situation of the patient and of the inappropriateness of all food.

when however as frequently happens your patients are ignorant, and are surrounded by ignorant friends, you cannot be too positive in your injunctions

, or too watchful to see them carried into effect, and at times your best efforts are destined to failure and

your patient is lost through the officious and injudicious kindness of those by whom he is surrounded.

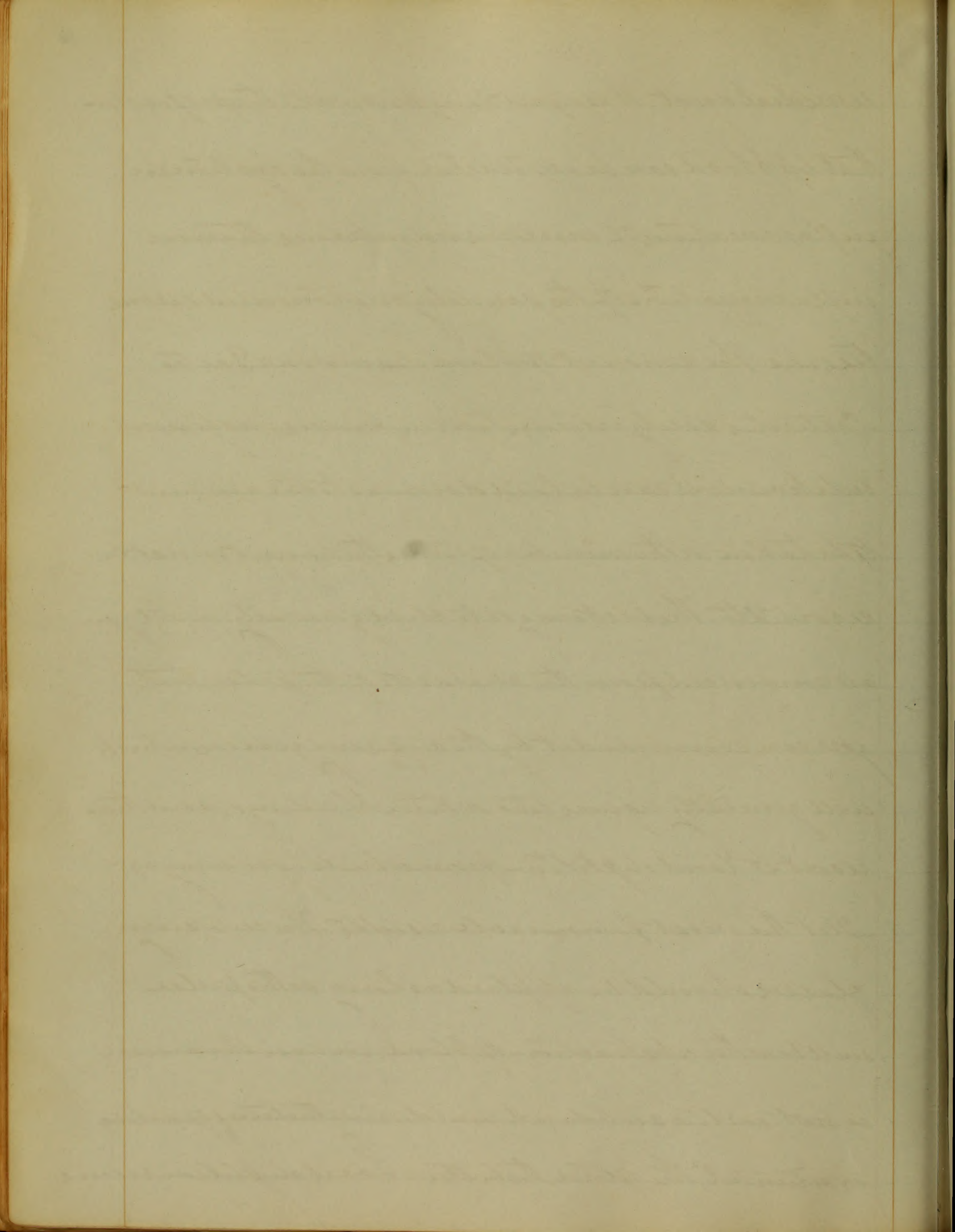
Having thus placed your patient in favourable circumstances, and abstracted all stimulants

, you must next consider the remedies to which we must resort for a cure - Bloodletting, general

and local is undoubtedly the most important

Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

remedial agent. It is a fact long known to the profession that less blood can be abstracted from the system in inflammations of mucous membranes than in inflammation of the parenchymatous and serous tissues. The amount of blood drawn in a Gastro-Enteritic rarely exceeds twelve ounces; no general rule however can be laid down as to the amount to be taken, or the number of times the lancet must be resorted to. The best way is to bleed generally, until you are convinced from the character of the pulse, that you can command it by the cupping glasses, which will generally require two or three bleedings, and then resort to local depletion, from which you may expect the most favourable results. The cupping glasses should be applied as long as the pulse will bear the abstraction of blood, in case the disease is not earlier subdued, and during the times of active excitement, the longer, the better. Local depletion seems



to be even more efficacious in relieving the disease than any other remedy, after the constitution is prepared for it by general depletion; the patient often after the application of the cups, expresses himself relieved of the uneasiness, and nausea which renders the disease so unpleasant. During the treatment, it will be found that hot poultices have a remarkable efficacy in soothing the system and subduing the local excitement. Dr Stokes disapproves of the poultices on account of their weight and heat: I have met with a very few cases in which the patients themselves objected to the poultices on these grounds, cases where they object, are exceedingly rare, and in general the patient is anxious for their application, and continuation. I have seen them applied when the skin was exceedingly hot, and dry, and after a few moments, or hours, I should have said, of active poulticing, a general perspiration takes

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 two parts, the first of which is devoted to
 the consideration of the subject in general, and
 the second to a more particular consideration of
 the subject in relation to the objects which it
 has in view. The first part is divided into
 three sections, the first of which is devoted to
 the consideration of the subject in general, and
 the second to a more particular consideration of
 the subject in relation to the objects which it
 has in view. The second part is divided into
 two sections, the first of which is devoted to
 the consideration of the subject in general, and
 the second to a more particular consideration of
 the subject in relation to the objects which it
 has in view.

place with great relief to all the symptoms.

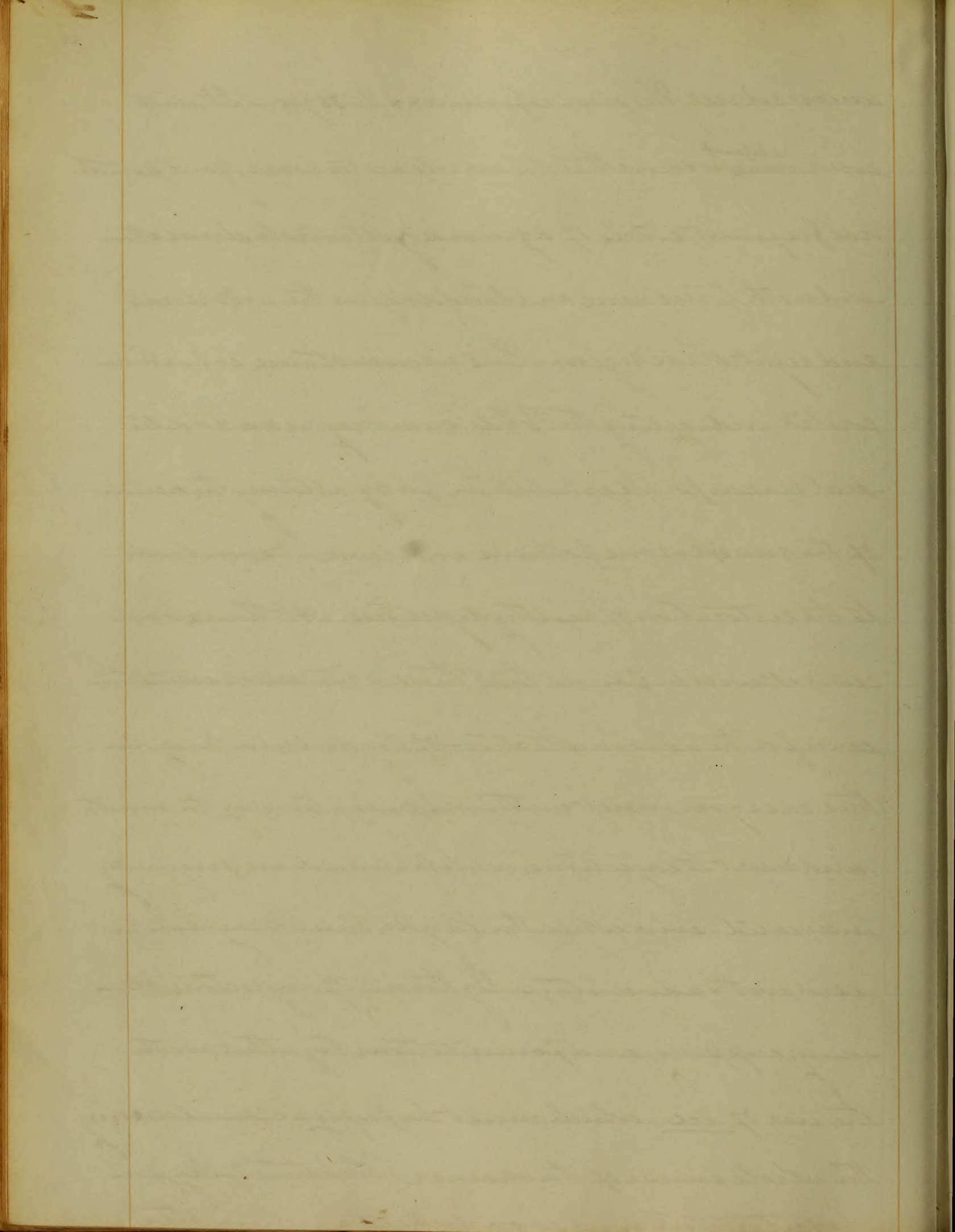
With respect to purgatives to which Broussais and his disciples object in toto, I wish to observe that their use is absolutely indispensable. When I say this, I do not mean that cathartics are to be given with the idea of depleting the general system by them, but that they should be given of a mild and unirritating nature as is consistent with the very important indication of thoroughly clearing out the alimentary canal. It must I think be obvious to any one who reflects upon the nature of such cases, that acrid and indigestible substances in the alimentary canal, are the sources of more irritation than can possibly result from the action of such a cathartic, as I have indicated. In our section of country it is important, not only to evacuate thoroughly the alimentary canal, but likewise to bring on secretions from the liver, which for the most part is torpid. To accomplish these

[Faint, illegible handwriting on lined paper]

indications, I know of no remedy half as efficient
 as that in constant use by my preceptor - J^r. B. Carr
 of Ann Kendall Co. I allude to the Neydragyrum
cum Magnesia. A medicine in every way superior
 to the Neydr, cum Creta, which is so generally popular
 as an alterative. Doctor Carr, having frequently used
 the Neydr, cum Mag, in the bowel complaints of infants
 with such decided advantage, was led to infer its value
 in the present disease among adults. A trial soon
 convinced him, of the correctness of his reasoning
 and since that time he has used nothing else in the
 Gastro Enteritis of the District in which he resides
 I can of my own experience attest its efficiency as
 a purgative, I have often used it in my own person
 It has never failed to operate mildly but effectually
 in every instance, cleaning out the canal, and bring-
 ing on secretions from the liver. In fact I am convinced
 that it needs only to be known, and tried, to insure its

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

universal use. The dose is from xxx, to ʒss — It will
 sometimes, ^{be found} however that the bowels are too loose, your patient
 has frequent stools of a green or yellowish slime atten-
 ded with tenesmus and tenderness in the umbilical
 and right iliac region. This circumstance, so far from
 contra-indicating the Hydr, cum Mag, is an additio-
 -nal reason for its exhibition, for by altering the action
 of the muciparous follicles, and liver, it soon leads
 to the restoration of healthy dejections. At times how-
 -ever it will be found that there is too much irritation
 even for the administration of Hydr, cum Mag, In
 this case you must withhold purgatives by the mouth
 , and resort to injections, which indeed are frequently
 indicated, even when the Hydr, cum Mag, can be
 used with advantage. By the use of injections, blee-
 -ding, cupping, and fomentations, together with
 the use of ice, which must be freely allowed during
 the whole course of the disease: this state of hyper-
 -excitement will soon subside when the



21
Hydroc. c. mag, may be given with safety and
advantage. You will frequently find your patient
exceedingly nervous, restless, and in a state of continued
morbidity, here an anodyne would be of the greatest
service; but opium in all its forms is contraindicated
by the burning fever, the hot and dry skin of your patient.
Fortunately we have in the Hydrocyanic acid an
agent precisely adapted to the circumstances. It does
not like opium dry up the secretions, nor its first
action stimulant. It calms the pulse, lessens nervous
irritability, stops the nausea, and relieves the sense
of uneasiness under which the patient is suffering
by a purely sedative action. Dose 1 to 3 drops *ter in die*.
It is not however till the excitement of the system
has been in some measure relieved by bloodletting, that its
favourable action is seen; when given at the proper juncture
of affairs its action is almost heroic. When the skin is moist
& cool, and the bowels not confined, Morphia may be given

[Faint, illegible handwriting on lined paper]

with advantage. As it regards blisters I agree entirely with Broussais, that their action is less favourable in inflammations of the abdominal viscera, than in those of either the other great-cavities, when however, in spite of all your efforts to the contrary, the disease continues to harass your patient after you have carried depletion as far as it can be carried with prudence, and the skin is cool and moist, you may then apply a blister and sometimes with good effect.

As evulsives, they may be applied to the inside of the thigh or the calves of the leg, when as sometimes happens, the congestion of the viscera of the abdomen leaves the extremities cold, in consequence of being robbed of their circulating fluid. Siniapisms and mustard rubbed on the extremities however, will generally be found more applicable.

There is nothing perhaps in the whole practice of medicine that is more difficult to learn than the proper use of blisters, when as not unrequently happens, they are

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

injudiciously applied, this action is very pernicious. It should always be remembered that they are stimulants of the organs over which they are, and consequently, this aid should never be invoked till stimulation may be deemed advisable.

When the disease has been subdued, and your patient be found emaciated and much prostrated in strength, the stomach is weak, and you cannot be too cautious with respect to his diet, and with all your caution, you will sometimes have to contend with cases of severe colic, brought on by indulging too freely in improper food. In this case you may resort to anodyne, or as I have seen done with the most beneficial effect, give some brandy, the stimulant, appearing in this case to assist the stomach in the performance of its long interrupted functions; after the pain is relieved, give a dose of oil, to remove the half digested aliments.

[Faint, illegible handwriting on lined paper]

To invigorate the stomach and bowels, it is well to give some of the simple bitters. Eupatorium Perfoliatum is perhaps best adapted to the case.

I have seen too, the following prescription used with advantage

R Ferri Sulphatis - ʒij

Ex. Gentian - - ʒj

Ex. Tarax, - - - ʒj. M. d. q. s. Fel LIX.

One before breakfast, and one at eleven o'clock, or an hour before dinner — Sometimes a little port wine may be of great service.

[Faint, illegible handwriting on lined paper]

22

1850

In
Inaugural Dissertation
on
The Physiology of the Iris.
Submitted
to the
Examinations
Of the
Provost, Regents and Faculty of Physic
of the
University of Maryland,
For the Degree of
Doctor of Medicine
By
C. W. Owen
of Maryland.

Feby 1845.

Observations on the

the Philosophy of the

Substance

of the

Constitution

of the

Human Body

of the

University of Cambridge

for the Degree of

Doctor of Medicine

by

J. W. Jones

of Cambridge

1710

The
Functions,

and
Use of the
Iris.

The structure, expression, and physi-
-ology of the eye, has occupied a large share of the
attention and study of scientific men. - the admi-
-ration and wonder of every enthusiastic student
of nature's handiwork, It is conceded, to be the
most beautiful and complex organ among the
many which we find in the animal economy.
To the Anatomist, Physiologist, & Philosopher, its
structure and function is perhaps more interesting than
that of any other part of the system. Here the anato-
-mist has a fair field for the exercise of his skill in

[The text on this page is extremely faint and illegible due to fading and bleed-through from the reverse side. It appears to be a continuous block of handwritten text.]

displaying its delicate fibres and vessels, every part of it is rich with mystery for the Physiologist, - it is a model for the Philosopher in constructing an instrument by which he is enabled to hold communion with the rolling worlds, and trace them in their rapid flight. Its structure and design, is the invincible argument in the hands of the natural Theologian, by which alone he can beat back the blasphemous attacks of infidelity and establish the supremacy of the great God of the universe.

Indeed if we consider the various parts that enter into its structure. - the beautiful adaptation of these to the object for which they were designed, - the utility and pleasure proceeding from its exercise, and the pain and unhappiness resulting from its injury or destruction, we must be deeply convinced of the consummate wisdom, and exquisite skill of its maker and acknowledge it to be worthy of most unbounded admiration.

5
But the Physiologist cannot stop here; he is not satisfied with admiring the external structure and action - the beauty of construction: he passes behind the screen and seeks to unravel the mysteries of nature. - and it is only the physiologist, who can wholly appreciate this wonderful exhibition of consummate skill. For he views it not merely as an isolated organ, but as one possessing the greatest extent of sympathy with other parts remote from it in the animal system. For it is not only the index - the barometer of the mind by which the coming storm is predicted, or the mild and placid calm, but also, it often on account of its sympathies sounds the alarm of approaching or existing disease.

As it would be difficult, not to say impossible to give a clear and intelligible description of the structure and uses of an isolated part of a complicated piece of machinery, so we find it

But the physician cannot do
more than to assist nature
in its efforts to overcome
the disease. The physician
must be guided by the
laws of nature, and not
attempt to force it. The
physician must be guided
by the laws of nature, and
not attempt to force it.
The physician must be
guided by the laws of nature,
and not attempt to force it.
The physician must be
guided by the laws of nature,
and not attempt to force it.
The physician must be
guided by the laws of nature,
and not attempt to force it.
The physician must be
guided by the laws of nature,
and not attempt to force it.

in attempting to treat of the iris, our entering into a brief description of the other parts of this organ, should not on this account, be deemed superfluous and unnecessary.

The most important and especial part of the organ of vision is the Retina. this is an expansion of the optic nerve, it constitutes a mirror which reflects in most beautiful and accurate miniature all external objects, it is evident that in order to the production of this miniature, it is necessary that rays of light proceeding from any object should not come in parallel lines, but should be refracted, or changed in their direction, so that they may be converged before striking upon the Retina. this is effected by three transparent humours in the form of lenses of different convexities so admirably constructed as to bring the focus upon the retina, the humours have their names and positions as follows, The Aqueous, which is placed in the anterior part of the

...attempting to reach the end, we comprehend a
brief description of the other parts of this organ, which
not on this account, to demand a separate account in
...
...the great importance of the end, and especially part
of the organ of vision, in the ... this is an ex-
-pression of the spirit of the animal, it constitutes a ...
which reflects in most beautiful and accurate man-
-ner all external objects, it is evident that in
-due to the production of this sensation, it is necessary
that rays of light proceeding from any object should
not come in parallel lines, but should be refracted
or changed in their direction, so that they may be con-
-verged upon one striking upon the Retina, this is effect-
-ed by three transparent humours in the form of
lenses of different consistencies so admirably contrived
as to bring the focus upon the Retina, the humours
have their names and positions as follows. The ...
-glands which are placed in the outer part of the

eye, the Crystallin, behind the eye, and the Vitreous posterior to the Crystallin, and occupies the greatest part of the globe of the eye, all these are sustained and kept in form by their own peculiar enveloping membranes or capsules, and preserved from injury by the sclerotic coat and the Cornea.

The former is a white, firm & fibrous membrane, which extends from the insertion or entrance of the optic nerve, to the margin of the cornea occupying at least five-sixths of the eye-ball.

The cornea is the transparent crystal of the eye, horny in its consistence, yet as transparent as the clearest flint glass. — It is admirably adapted by its transparency to transmit the rays of light, and by its firmness and resistance to guard the delicate membranes and humours. — Under the sclerotic we find a black coat called the Choroid, which is stained by a colouring matter or pigment, this being situated exterior to the Retina is well calculated to

Page 10
The first part of the paper is
concerning the nature of the
mind and its powers. It is
divided into three parts. The
first part is the nature of the
mind. The second part is the
powers of the mind. The third
part is the faculties of the
mind. The first part is the
nature of the mind. The second
part is the powers of the mind.
The third part is the faculties
of the mind. The first part is
the nature of the mind. The
second part is the powers of
the mind. The third part is
the faculties of the mind.

6

absorb all the Superfluous rays of light which would otherwise by over stimulation, injure its texture, or impair its functions, from this our astronomers borrowed an idea, in the construction of the telescope, and finding that some of the rays of light which entered the tube instead of passing directly through the different glasses to the eye struck against the polished sides of the instrument, there - by confusing the object by the multitudinous reflections the inner surface of the tube was blackened, when it was found that the former difficulty was obviated.

The quantity of light admitted into the eye is very varied, - being sometimes quite small and at other times much greater in degree: it is therefore obvious that some means must be provided for the more perfect regulation of the number of rays which should be admitted to the Retina.

The Iris was placed in the organ for this purpose. - This may be described, as being a thin, flat, circular membrane, or curtain, stretched

The text on this page is extremely faint and illegible, appearing to be a handwritten document or letter. The ink is very light, making the words and sentences nearly impossible to decipher. The layout suggests several lines of text, but no specific content can be extracted.

across the eye, having a circular aperture near its centre, it floats in the aqueous humour, this opening is observed to be nearer to its nasal than temporal portion, - this curtain assumes different colours in different individuals, being in some grey, in others blue and frequently almost black - these are the most usual primary colours, there are besides an almost infinite variety of shades between them.

It divides the anterior portion of the eye into two cavities or chambers, The space between the posterior surface of the cornea, and the anterior surface of the Iris being the anterior chamber of the eye: while that space which exists between the posterior surface of the iris, and the anterior surface of the crystalline capsule is the posterior chamber, the aqueous humor fills both of these chambers and can pass freely from one to the other through the perforation in the iris. this is called the pupil and is observed to vary greatly in appearance

in different animals; in man it is nearly circular,
in the ox a transverse oval;— in the cat a vertical one.

The greater circumference of the iris is at-
tached by the ciliary ligament to the choroid
coat, this ciliary ligament is a soft whitish ring or band
also connects the choroid to the sclerotic coat. Its
nature is not ascertained, altho' it is commonly be-
lieved to be cellular, Ciboquet, thinks it probably
a nervous ganglion, inasmuch as it sends filaments in-
to the iris. The outer border of the iris is much strong-
er than its inner margin, which surrounds the pu-
pil, and which here forms a very thin edge, It has
been a matter of dispute whether the iris on its outer
surface be flat or convex. Meckel says, it is flat,
but W. Lawrence maintains that it varies in differ-
ent subjects. It is on the anterior surface of
the iris that the peculiar colour of the eye resides
which as before observed is very different in differ-
ent persons. It even varies in the same individual

The paper is very faint and the text is illegible. It appears to be a page from a book or manuscript, possibly containing a list or a series of entries. The handwriting is cursive and the ink is very light, making it difficult to read. The page is numbered '1' in the top left corner.

the right eye is sometimes of another shade than the left, the superior half of one is sometimes differently coloured from the inferior, and there ^{are} spots of various hue dispersed along the whole circumference of the membrane. Lawrence remarks that the colour of the iris is unvaried in all wild animals of the same species and we know that when they are domesticated, that, both the general hue of the eye and the colour of the iris become changeable, tho' not to the same extent as in human subjects.

The colour of the iris seems in some degree to depend on that of the whole body. Thus in persons of fair complexions & light hair, the iris is usually found to be blue whereas in persons of dark and swarthy skin, we usually find darker shades, and sometimes almost black this is so much the case with negroes, that it is sometimes difficult to distinguish the pupil.

The colour of this membrane seems to

be one of the distinguishing traits of various nations. The Germans have generally fair complexions, light hair and blue eyes; while the Turks, Celts & Slavonians have very dark hair & dark Iris. The posterior surface of the iris is covered by a very dark pigment, analagous to the pigmentum nigrum and the Choroid. but in some animals, as the white rabbit, and in some people called Albinos, this pigment is wanting both in Choroid & Iris, and it is from this deficiency that we can see the red vessels of these membranes through them giving the iris a rose colour. In this variety of the human species, the skin is of a morbid sickly whiteness, and the hair also of a dead white. These persons have almost always defective sight & always avoid exposure to a strong light.

The Iris is very plentifully supplied with blood vessels & nerves, its arteries are derived from the ophthalmic, and are termed ciliary. They arise below the ciliary ligament, and form arches upon the iris. the veins which return the blood correspond with the arteries, but

The first of the...
the second...
the third...
the fourth...
the fifth...
the sixth...
the seventh...
the eighth...
the ninth...
the tenth...
the eleventh...
the twelfth...
the thirteenth...
the fourteenth...
the fifteenth...
the sixteenth...
the seventeenth...
the eighteenth...
the nineteenth...
the twentieth...
the twenty-first...
the twenty-second...
the twenty-third...
the twenty-fourth...
the twenty-fifth...
the twenty-sixth...
the twenty-seventh...
the twenty-eighth...
the twenty-ninth...
the thirtieth...

11
some pour their contents into the *vasa vorticososa*. When we examine the nerves of the iris, we shall find them to be exceedingly numerous: more so, perhaps, than in any other part of the human body. These are derived from the ophthalmic ganglion, which is seated on the outer portion of the optic nerve, and which sends out sixteen or twenty filaments that pass between the choroid & sclerotic, and penetrating the ciliary ligament are distributed to the iris.

This ganglion receives filaments from the third & fifth pairs, and it is supposed by some to be constituted by these nerves, but it is very obvious however to any one who examines the subject carefully that it belongs to the sympathetic system.

This conclusion is warranted by the appearance of the ganglion itself, not only, but also from the fact that it is connected with the superior cervical ganglion by means of a branch which it sends off to the nasal nerve. This latter also sends two or three fila-

Faint, illegible handwriting at the top of the page, possibly including a date or header.

Main body of faint, illegible handwriting, consisting of several lines of text.

12

ments to the iris which are not connected with the ganglion, and in cases when persons have been able to control the motions of the iris it is probable that sensation was conveyed by these filaments to the 5th pair.

With regard to the structure of the iris there has been great diversity of opinion. Meckel remarks that after the most perfect injections it seems to be composed of more, or less yellowish white fibres, which appear to be the seat of motions executed by this membrane. In living subjects these fibres are very apparent and seem to be divided into an external & internal circle, the latter appearing to be the most highly coloured. The fibres in the external circle are straight and run from its outer circumference to that of the inner. These are very strong in the eye of the ox. Dr Jacobs says, the opening is immediately surrounded by a well defined circle almost the twentieth part of an inch in diameter. — This is what has been called or de-

[The text on this page is extremely faint and illegible due to fading and bleed-through from the reverse side. It appears to be a single paragraph of handwritten text.]

scribed as the orbicular muscle of the pupil, When we place the eye in a strong light the iris contracts and the pupil is diminished in size, but in a darkened room it is enlarged. How shall we account for this phenomenon. It is evidently owing to the action of the abovementioned fibres, but there is much dispute as to their muscularity. — some contending that the enlargement or diminution of the pupil is to be ascribed to the contractility of the fibres, while others believe it to be owing partially to elasticity and thus explain the dilatation. If the latter was the case, as elasticity is a property of dead as well as living matter the pupil should always be dilated after death, which is not so, — In general the contraction of the iris, or diminution of the pupil is regarded as an active and the dilatation as a passive state, tho' some think them both active, and Meckel supposes, dilatation to be the active and contraction the passive state. — Are these fibres really muscular: in order to satisfy this question we

[The text on this page is extremely faint and illegible, appearing to be a series of approximately 20 lines of handwritten script.]

14
must consider what are the properties of muscular fibre, or in other words what properties or qualities must be present in order to entitle a part to the appellation of muscular. As colour sufficient: if we examine parts whose muscularity all admit, how different do we find them in this respect: the muscles of animal life are red, the involuntary ones, as the bladder, intestines &c. though well supplied with blood are pale. in the muscles of inferior animals whose systems are supplied with white blood the same difference is observed.

The appearance of the fibre seems to afford little evidence of its muscularity, since the anatomists of the present day are not agreed as to the nature of the fibre of the uterus, although from their great size a proper determination would not appear to be a matter of much difficulty. there is the same difference of opinion with regard to the arteries, some have attempted to solve the difficulty by endeavouring to ascertain whether the organ in dis-

-pute contained fibrin, this it is true is the characteristic constituent of muscular fibre, but when we consider the difficulty of analysing organic compounds and particularly in small quantities, and also reflect that albumen, gelatin, & fibrin pass into each other by insensible gradation it is easy to perceive that chemistry can give little aid in ascertaining the presence of muscular fibre. Do not some muscles at first exist in an imperfect or rudimentary form, this is certainly the case in the unimpregnated uterus, although its function in pregnancy, reveals its muscularity some organs acquire a great increase of fibrin in hypertrophy of the part, as the bladder from stone &c. Sometimes the fibrine becomes so much wasted by disease that a muscular part loses in a great degree its appearance, so as scarcely to be recognized.

Would all the usual appearances of muscle warrant us in pronouncing a part to be muscular, were that part destitute of contractility? certainly not. And hence it

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher due to its orientation and fading. It appears to be a continuous paragraph or list of points.

14
would appear we should look to this characteristic of muscle in
fixing the nature of any part suspected to be muscular
every muscle voluntary or involuntary has its contractility
thrown into exertion by stimuli — the muscles of animal life
respond to volition, exercised through the nerves of the brain
and spinal marrow. — The muscles of organic life on
the contrary are entirely regulated by the great sympathet-
ic, and each organ has its own appropriate & peculiar
stimulus. — Thus the blood stimulates the heart, urine
the bladder, food the stomach, & light the iris. This
last may be considered as belonging to the sympha-
-thetic, as it receives nerves from it & its motions are in-
-voluntary like those of muscles supplied from it.

It would seem sufficiently evident, that the
motions of the iris are in every respect analagous to those
of other muscles, thus strong light induces it to contract,
narcotics which destroy and enfeeble contractility in
other muscles affect it in the same manner. Bella-
-donna will so enlarge the pupil that the iris will form

17

only a narrow ring behind the cornea, so narrow, that it is sometimes scarcely perceptible. In cases of profound drunkenness, when from debility, all the muscles are relaxed, the pupil dilated, this too occurs in Hydrocephalus & Apoplexy, where from pressure on the brain, the nervous influence is not transmitted to the muscles, & paralysis is induced, as was remarked before, the iris belongs to the class of involuntary muscles, these though not subject to volition are nevertheless under the influence of the passions, thus the heart by anger is stimulated to increased rapidity of contraction, while fear and anxiety interrupts its action & also the function of digestion. Fear especially affects the kidneys causing increased secretion whilst grief exerts a more pernicious influence over the biliary secretion.

I have seen the pupil greatly enlarged under the influence of fear, the two great nervous

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

18

systems are intimately associated in many respects, we often see how readily irritation excited in one system of nerves extends to the other - When the abdominal viscera are disordered how quickly does the iris evince its sympathy & reveal the derangement of the distant organs, of this fact we have familiar illustration, in case of worms! We occasionally find the iris subject to volition, as is sometimes the case with other involuntary muscles, as the heart &c. In the case of the iris it is most probable that volition is transmitted through the nasal twig of the 5th pair. I have seen an individual who possessed the power of dilating or contracting the iris at pleasure in a very striking degree. It has already been sufficiently proven that the iris is muscular and like all muscles has its state of action & relaxation, that it responds to certain stimuli, & that agents producing certain effects on other muscles, have similar effects on it, it is moreover sometimes subject to volition

[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper.]

and we know of no part which can be contracted or relaxed at pleasure that is not muscular.

The iris of one eye is intimately associated with that of the other both contracting and dilating the same time: but when the parts are influenced by diseases this sympathy is destroyed, thus in paralysis of the retina, the iris is usually insensible, but may be made to contract by stimulating the retina of the healthy eye, light thrown on the iris alone will not cause its contraction, but it is necessary that it should impinge upon the retina, hence if we may so speak the iris plays the porter to the retina & admits only that quantity of light which may be necessary for the painting of a perfect image upon it,

It has been a question with Physiologists whether the motion of the iris is independent of the retina, or is merely caused by the sensation produced in this latter membrane by light & consequently to be classed with sympa-

[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper.]

-thetic action. Baron Larrey supports the former opinion & adduces many instances to sustain himself. It would appear from the fact above stated that in the healthy & natural condition of the eye, that the motions of the iris depend on the iris retina, but in disease, the retina often loses its power & vice versa. Baron Larrey relates two very interesting cases of injury done to the retina & iris of two soldiers, who had been observing a solar eclipse one of them used a darkened glass with a small transparent spot in the centre, through which the rays falling with intensity upon the retina alone destroyed it without injuring the iris. The other soldier used glass darkened in the centre & transparent in the circumference here the motion of the iris was destroyed, whilst the man's vision was only slightly impaired, the retina being protected from the rays by the blackened centre, Another case is related by the same author, of paralysis, of the iris produced by a blow on the orbit, where the vision still remained perfect, In another instance where the individual saw well, the iris could only be

[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. The ink is very light and the lines are closely spaced.]

made to contract & then feebly, by exposure to intense light. — In some cases of cataract when from the great opacity of the lenses, the light cannot reach the retina the pupil remains immovable & it is then recommended not to operate, such advice has probably been given from the Idea of that the iris has lost its action in consequence of the insensibility of the retina. But such counsel is not always judicious, for Baron Larrey has successfully operated in several cases of this nature, in many cases of cataract also, where the blindness is almost entire the iris preserves its motion, From all these facts it is evident that in the perfect & healthy condition of the eye there is a strong and intimate sympathy between the retina & iris, but that in disease this association may be destroyed and that one of these membranes may retain its functions, while the other is paralysed and useless.

By what means then is the stimulant impression of light on the retina, conveyed to the iris? It is im-

[The text on this page is extremely faint and illegible, appearing to be a handwritten document. It consists of several paragraphs of text, but the characters are too light to transcribe accurately. It appears to be a letter or a formal note.]

-possible ¹ to answer this question in the present state of our
 science. it is probable however, that it is by means of the
 sympathetic nerve which accompanies the ophthalmic
 artery into the eye, & which probably extends its influence
 to the nervous expansion of the optic nerve. — The sympa-
 thetic nerve is connected with the ciliary ganglion
 and from this, branches are sent to the iris as before
 stated. The impression on the retina is thus convey-
 ed by the nerves surrounding the ophthalmic artery
 to the ciliary ganglion, from this to the ciliary ner-
 ves and by these to the muscular fibres of the iris,
 when a contraction of these fibres is occasioned, &
 a consequent diminution of the pupil produced.

possible to answer the question in the present state of our
science. It is probable however, that it is by means of the
graphite the more exact a correspondence the electrical
contact with the eye is which probably retains its position
to the nervous apparatus of the eye. The graph-
ite more is connected with the retina and
not from the branches are sent to the eye as before
stated. The impression in the retina is thus conveyed
by the nervous system to the optic nerve
to the retina graphon from the eye to the brain
and by there to the cerebral cortex of the eye
when a contraction of these fibres is occasioned
a consequent diminution of the pupil produced.

A very proper Dissertation

Inaugural Dissertation

containing

"Observations on Puerperal Fever."

Submitted to the Faculty of Physic,
of the University of Maryland.

For the degree of

Doctor of Medicine

by

Charles Frick,

of

Baltimore, Maryland.

Balt. Almed. Trade,

January 1st 1845

[Faint, illegible handwriting on lined paper]

To

Thomas W. Duckler. M. D.

As an expression, of my remembrance, of the value
of your instruction, and my attachment as a friend,
I respectfully inscribe, the following remarks.

Sept. 1844.

Chas. Frick.

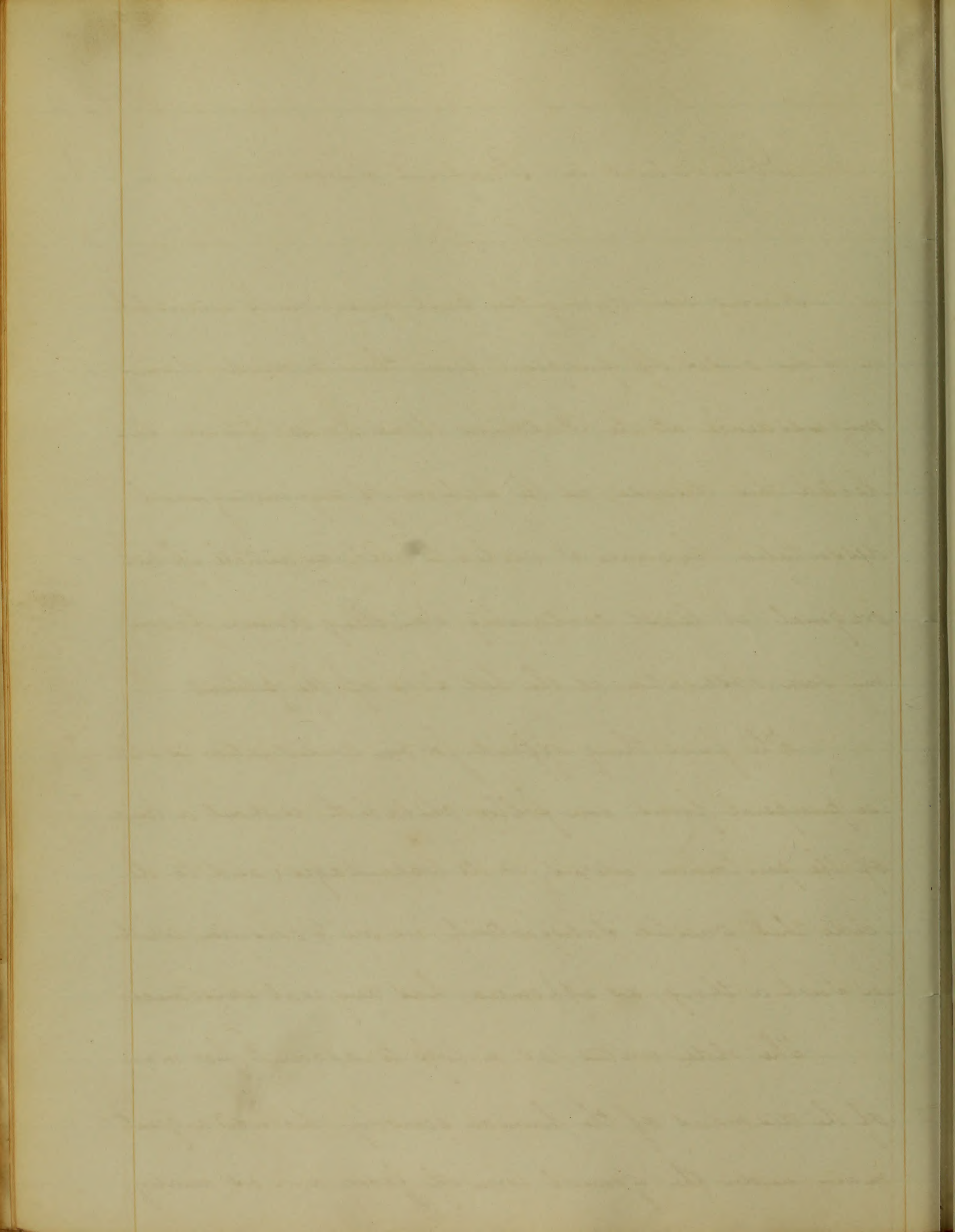
[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

"Observations on Puerperal Fever."

Having been, during the past year, much interested in some cases of puerperal fever, that occurred during my residence at the Baltimore Alms House, I have selected this disease, as the subject of my inaugural dissertation, because I wished to offer an article if not original, at least containing something drawn from my own observation, at the bed side of the patient.

The first thing, offered for our consideration is whether puerperal fever, ever follow childbirth, without a lesion of the peritoneum, uterus, or its appendages; and to decide this question satisfactorily, we are to consider, whether such a thing, as ephemera, has any real existence.

The older writers, at a loss to account for many of the disorders of the human economy, included a great many, under the general term of fever, and as many



of these, was of course slight, as regards their duration, ephemerical fever, was one, which was universally recognized. Modern, and certainly improved pathology, has taught us, that mere fever, without local disease, is of very rare occurrence; and that fevers are but of two classes, primary, and Symptomatic. The first must have a regular increase, and decrease, and the whole system is involved, altho' local disease often springs up in its course. In the last, it is merely an expression of a local disturbance.

Under the first, are included, Typhus; Typhoid; Remittent, and its variety Intermittent; and Yellow fever. Consequently, when these symptoms of ephemerical arise, we endeavor to ascertain the local lesion, of which it is Symptomatic; and if we fail, we ascribe the failure, rather to our imperfect diagnosis, than to the existence of another unrecognised form of essential fever.

A late writer, on this subject says, "Adults Sometimes in consequence of great, or protracted fatigue, and children

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

still often from inappreciable causes, are attacked with head-ache, loss of appetite, debility, and general febrile excitement, not referable to any local lesion; which symptoms, after rest of from one, to two, or three days, either with, or without medicine, usually subside, leaving the individual in good health. But whether, this kind of disorder, should be looked upon as a distinct, established form of fever, seems to me, to say the least of it, very doubtful. "+

In no condition, was this ephemeria supposed so frequently to arise, as in the Puerperal state; and we find, but a century since, in speaking of the sequelae of labour; the differential diagnosis, given from milk fever, and nothing said about any other disturbance. After these came a host of other writers, who detecting the violent, and dangerous inflammation, that sometimes supervenes, and the proper means, for its removal, still looked upon it, as distinct, from the so called ephemeria, and even in the more recent works of Midwifery, it is spoken of in the same way.

+ Preface to Parlett on Typhoid, and Typhus Fevers.

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

Now we advance, that no such thing, as puerera, has any real existence; and of course, admitting, that if exposed to any of the predisposing, and exciting causes, any of the above mentioned essential fevers may arise; yet, that all others will be symptomatic, and of those connected with the state of child birth, but two can be distinguished; these depending, on the irritation caused by a disordered secretion of the mammary glands, and the distention of the breasts; the other, an inflammation of the peritoneum, the uterus, or its appendages.

This last, has been included under the name of puer. peral fever. The frequency of its occurrence, in proportion to the births, it would be impossible to know, from anything but numerical statistics, and I am not aware, that enough of these have been registered, to give us correct data. The disease depends so much on contagion, and an epidemic influence, that its prevalence is exceedingly variable. It usually commences with a chill, from one to

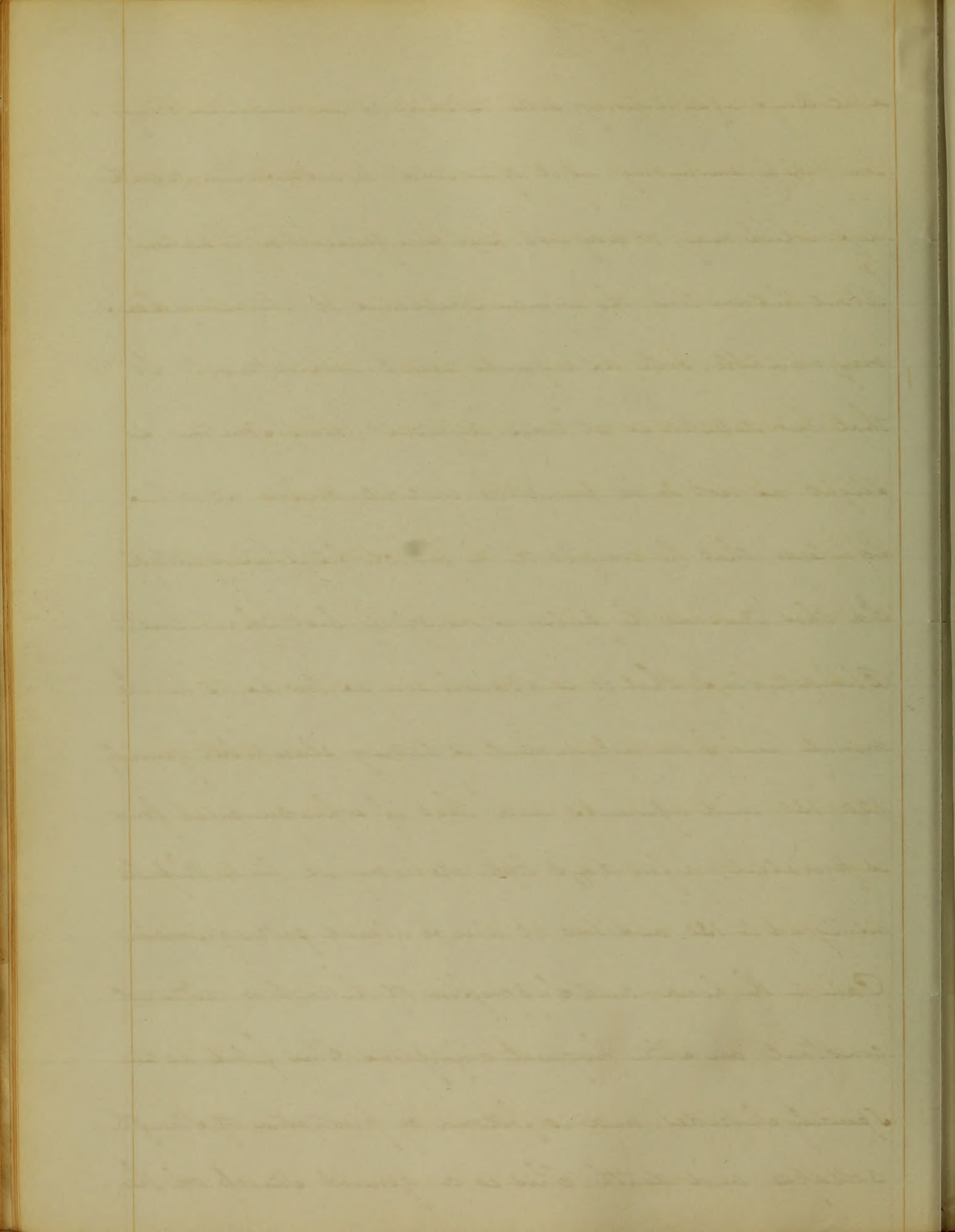
[Faint, illegible handwriting on lined paper]

eight days, after delivery; altho' the chill is an uncertain symp-
tom, merely amounting, as it often does, to a sensation of cold-
ness, which may, or may not, have been perceived by the patient.

About the same time, the woman complains of abdominal pain,
very variable, both as regards extent, and intensity, so
that their detection is at times difficult; being sometimes, so
slight, as not to be perceptible without pressure, at other
so intense, that the weight of the bed clothes is insupportable.

In this disease the pulse is one of the best characteristics,
Blundell says, that it is scarcely ever as low as 115 in the
minute, unless an improvement is taking place: but generally
120, 130, and upwards, and "that if when puerperal fever
is prevalent, a few days after delivery we find the pulse
rising up to 130, and 140, it will be almost pathognomonic.

Pain in the head, and suppression of the lochia, altho' not
constant, are still frequent symptoms. This febrile action
speedily subsides, and is followed by prostration of strength,
collapse, and death. This is a general sketch of the



disease, but post mortem appearances shew us, that different parts of the uterus, or, its appendages, may be involved separately, and on closer examination, we find that these will give rise to some constant alteration in the symptoms. Lee has divided them into four different heads.

- 1st An inflammation of the Peritoneal covering.
- 2^d An inflammation of the uterine appendages.
- 3^d Inflammation, and suppuration, of the abdominal vessels, and veins.
- 4th Inflammation of the proper tissue of the uterus.

In the first, the pulse is more tense, small, and frequent, than in the other varieties. The countenance expresses great prostration, and the patient lies on her back, while her legs are drawn up, to relax, and prevent the tension of the abdominal muscles. The pain is felt on a more extended surface, and the abdomen is almost always tympanitic. It is apt to be confounded with intestinal derangement, or after pains. But the first is not so frequent in its occurrence, as some writers have represented,

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

and is more apt to occur after the lapse of a week, or ten days. The pain is not so acute, as in peritonitis, but more like cramp, and is generally preceded by evidences of intestinal derangement, as diarrhoea, vomiting &c. The pulse is scarcely ever altered, at least if it is, it wants the characteristics of peritonitis. The same is the case, with the fever, and there are also complete remissions in the pains, which is never the case in the disease we are considering. The post mortem appearances are very uniform. The peritoneum is vascular, red, and apparently thickened, and the viscera adhere to one another, by an effusion of lymph, or there is an effusion of serum, with flakes of lymph, or pus, in the cavity of the peritoneum. In some cases, "the intestines are agglutinated, including the omentum, which is often of a deep red color, and highly vascular."⁺

In considering the second form, we find that although the peritoneal covering of the uterus, is rarely inflamed, without the appendages being involved; yet the reverse
 + Dr Clarke, See Munnely, page 54.

Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

does not hold true; for there may be extensive disorgan-
 ization of the last, without the other participating. The
 surface of the broad ligament, ovaries, and fallopian tubes,
 are found red, vascular, and embedded more or less, in
 lymph, and pus. The loose extremities of the fallopian
 tubes, of a deep red color, softened, and deposits of pus,
 in their subperitoneal tissues, as is also the case with the
 broad ligaments. The stroma sometimes enlarged, inflamed and
 containing pus. The diagnosis of this form, from the preceding,
 is difficult, but the pain is generally less acute, and
 seated in one, or the other of the iliac fossae, extending
 thence, to the loins, arms, and thighs, while the symptoms
 remain the same.

The third division, is so infrequent, that a diag-
 -nosis can scarcely be formed, but we find on exami-
 -nation after death, the large absorbent vessels, passing
 upto the receptaculum chyli, filled with pus.

Lee's fourth division, inflammation, and softening,

the most perfect form of the human mind
is that which is most free from all
of the passions and appetites which
are the source of all our misery and
pain. It is a state of perfect
tranquillity and peace, in which
the soul is united to God, and
enjoys the highest happiness.
This is the true end of all our
actions, and the only way to
attain it is by the practice of
virtue and the study of God's
word. We must also be free from
all sin, and have a pure heart,
that we may be able to love
God with all our heart, mind,
and strength, and our neighbor
as ourselves. This is the
sum and substance of all the
commandments of God, and the
only way to eternal life.

11

of the proper tissue of the uterus. This I have placed last, be-
- cause I think that more than any of the other forms, it is lia-
- ble to be mis-called ephemera. Considering the violent, and sud-
- den change, that the uterus is subjected to, at the period of
- parturition, it would seem that scarce a birth can occur, with-
- out some lesion to this organ. Some are so slight, that they run
- their course without being perceived, others ~~are~~ so violent, that
- they are immediately recognised as of grave import. This le-
- sion is distinguished from the other varieties, by the more fre-
- -quent alteration in the lochia, both as to quantity, and na-
- -ture, and the pain being only perceived, when deep pressure
- is made, so as to reach the uterus itself. The tongue is
- more to be relied on, than in the other forms. The stomach seems
- to sympathize with the inflammation to a great degree; there is
- generally nausea, and sometimes vomiting; the prostration is
- more complete, as evidenced by the expression of face. The
- mode of attack differs from the other forms: when the peri-
- -toneum, or the appendages of the uterus are involved, the attack

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

is generally sudden. We leave the patient doing, as we think well, and return in the course of a few hours to find the patient diseased, already far advanced. But the last, commencing, as it necessarily does, from the first moment after the expulsion of the child, has always been present, and increased gradually, and if we fail to recognize it at first, it is the fault of our diagnosis. We find a parallel to this, in bronchitis, pneumonia, and pleurisy. In the first two, as when the uterus, and its lining membrane is involved, the pain comes on gradually; but in pleurisy, as in peritonitis, the pain is almost always sudden, and felt at the commencement of the attack. The diagnosis of this form, is important, in regard to one point of the treatment. We wish to produce the same impression on the disease, in both cases; but as an inflammation of a serous membrane seems to afford a protective influence, we would not arrive at a correct result, by drawing blood in both cases, while the patient is in the same position. Consequently when the peritoneum is inflamed,

[The text on this page is extremely faint and illegible, appearing as ghostly impressions of handwriting.]

we may bleed in the sitting posture, but when the uterus, or its lining membrane is involved, while she is lying down. Nearly all the well marked cases of this variety have proved fatal, and the autopsies, have revealed to us, both, the mucous lining, and serous covering of the uterus in a state of inflammation. In the last, an effusion of lymph, or unacid fluid, which is sometimes infiltrated between the fibres of the muscular substance, which is disorganized, and broken down. The most common place for inflammation to arise, is where has been the attachment of the placenta, and next the cervix uteri.

How many cases do we find, in which there is slight acceleration of pulse, with pain in the head, and limbs. Slight pain over the hypogastrium, and the lochia somewhat altered in quantity, which are called ephemera, and treated as such. If the mucous lining, constitutes a principal part of the lesion, the constitutional disturbance, may be but small, as is the case often in bronchitis, or intestinal derangement. The pain over the hypogastrium, may be mistaken for

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

increase after delivery, and the quantity of the lochia, so slight-
 ly changed in quantity, as not to be remarked. But the thirst
 which is always out of proportion to the febrile symptoms,
 ought to put us, on our guard. Most of these cases would
 get well under negative treatment, and the practitioner goes
 away, not knowing he has been treating a metritis, instead
 of an imaginary disease. From my own observation, I do
 not hesitate to say, that meeting with the symptoms above
 described, however trivial they might be, I should suspect
 an inflammation of the uterus, or its surrounding membranes,
 and treat it accordingly.

Another form of puerperal inflammation, is when
 the uterine veins become inflamed. The symptoms differ but
 little from the preceding, but there is more tendency to delir-
 ium, and incoherence of speech. Generally too the other or-
 gans, as the Lungs, heart, liver, and Spleen, sympathize
 more quickly, with the disease, than in the other forms. In
 some cases, destructive inflammation of the eyes has occur-

Faint, illegible handwriting, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

red a few days before death, and Cruveilhier reports a case, wherein the nose became black, and gangrened.

Fortunately for us, practically speaking, the treatment is nearly the same as the other, the indication being to treat the inflammation actively, from the onset. In post mortem examination, the uterine veins are found filled with pus, and sometimes the cavities, and joints of the body, containing more, or less, of the same substance.

Still another form of purulent fever, is when the symptoms are latent, when the disease creeps on in an insidious manner, and the abdominal inflammation, is totally masked by an oppressive languor, and a diminished sensibility of the nervous system; yet, in these cases, altho' the patient complains of no pain, the danger may generally be detected, by the great frequency of the pulse, quickened respiration, uneasy sensation at the pit of the stomach, and by the patient's shrinking, when pressure is applied to the abdomen. I have even heard one, or two,

[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. No specific words or phrases can be discerned.]

cases spoken of, so wasted, that the pulse was scarcely at-
 tended, either, as regards frequency, or force. Some practitioners
 place great reliance on the alvine evacuations, and have at-
 tempted to diagnosticate this form of the disease, from these
 alone; and when they observe dark discharges, resem-
 bling somewhat coffee grounds, when they have reason
 to suspect putrid fever, they are confirmed in their
 opinion. This appears to me a very unsatisfactory, and
 certainly a very unphilosophical means of diagnosis, for
 there is not, and cannot be, any safety, in practicing
 medicine by a rule, and of those cases, that have fallen
 under my observation, I have remarked the discharges
 as often of another color, as the one above mentioned.

Dr Bird, in the Edinburgh monthly Journal, has
 lately communicated some cases, of neuralgia of
 the uterus, simulating very much putrid fever, and
 which have no doubt, often been mistaken for it, an
 error of immense importance, as it would seem, that

[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper.]

the measure, adopted for the one, would be highly injurious to the other. In the first place, the pain is always present in paroxysms, and usually occurs in a female, who had been previously the subject of uterine irritation, as leucorrhoea, painful menstruation, &c. The pulse may be small, and rapid, yet it will not be tense. The lochia may be stopped, and the tongue coated, but we will find the pain on the uterus only imaginary. This is almost diagnostic, for it will be complained of as much, when pressure is about to be made, as when it actually is made, and if the attention be directed, it may not be perceived.

Having spoken of gonorrheal fever, and its different varieties, I will now give an account of two of the cases, that fell under my observation, during the past year; the one of inflammation of the peritonaeum, the other where the uterine appendages, with the uterus, was involved.

Mary Foot, colored, aged 25, was confined on Tuesday night, with her second child, and appeared to be doing

Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side. The text is arranged in approximately 20 horizontal lines across the page.

well, until Thursday morning, when she complained of great pain, and tenderness, on the slightest pressure, over the lower part of the abdomen, intense headache, and hot burning skin. The expression of her face indicated great anxiety, and the pulse was small, rapid, and wiry. Great thirst, tongue slightly furred, and red at tip, and edges. She was bled, cupped, and calomel, and opium administered, and in the evening, being no better, she was bled again. The next morning, her symptoms, continued nearly the same. The lochia were almost entirely suppressed, and the alvine evacuations of a natural color, but more fluid than in a healthy state. Saturday morning, there being no improvement, she was bled again, and appeared better. but the next day, she commenced to subs, and continued to do so, till Monday evening, when she died.

On examination, the intestines were found much distended with gas. Their peritoneal coat, as well as that lining the lower anterior part of the abdomen, as ^{with} well as that

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

on the posterior part of the uterus, was in many places vascular, but more generally pale. In the cavity of the peritoneum, rather more than a pint, of yellowish serum was found, containing numerous flocculi of lymph. The interior of the uterus, was of a slate color, hue, and thus, dotted with red, the mucous membrane softened, and easily reduced to a pulp, by one or two passes of the Scalpel. The ovaries and broad ligaments, much injected, and swollen. The uterine veins enlarged, some to the size of a goose quill. The inferior cava, the iliacs, and femoral veins, deeply dyed of a purplish hue, containing no clots, nor anything but a little reddish serum.

Susan Cook, unmarried, aged 20, and of a particularly nervous temperament, was delivered on Sunday morning, after a painful labour, of her first child. In consequence of a flooding, her hand, and arm were introduced to restrain it, She had the next day, some headache, slight increase in the force, and frequency of her pulse,

Faint, illegible handwriting on a page with horizontal lines. The text is mirrored across the page, suggesting bleed-through from the reverse side. The lines are evenly spaced and run horizontally across the page.

and great thirst. On Tuesday night, she was found with a small, rapid, tense, and wiry pulse, 135 in the minute, headache, an anxious expression of face, lying on her back, with her legs drawn up, with great tenderness, and pain in the left iliac region, and hypogastrium, so that she was unable to bear the pressure of the bed clothes. These symptoms, had been preceded by a slight sensation of chilliness in the morning. She was bled, till her pulse responded, and calomel, and Opium, given. After the lapse of two hours, she was seized with convulsions, followed by so much prostration, that powerful, and repeated stimulation, became necessary to keep her from sinking. The next day, she complained of no pain, except a deep pressure, over the region of the uterus, and that but slightly. Her pulse was nearly natural, but rather frequent. At night, the convulsions again occurred, and afterwards, the same stimulation, had to be resorted to. The lochia al- tho' not diminished in quantity, were of a dark color, and a foetid smell, the stools loose, and of a light greenish

[Faint, illegible handwriting on lined paper]

color. The next morning, she appeared better, though very weak. She now complained of pain in the right iliac region. From this time, she complained of great prostration, commenced to sibilate, and expired on Sunday night, in spite of every kind of stimulation.

Autopsy, ten hours after death. The omentum tucked into the pelvis, was much injected. The rest of the abdominal peritoneum, was unaltered, except a small part, adjoining each ovary. That covering the uterus was unaltered. The sac contained an ounce of red liquid, and its lining membrane was covered with an extensive layer of lymph. The previous situation of the placenta, was seen more elevated, than the surrounding portions of tissue, and was loose, and spongy, in arrangement. Both ovaries, externally were of the deepest purple, with here, and there a large vein, coursing on the surface. The redness internally, was not so vivid as without, and the tissues were not softened. From these organs and out of the veins, pus could be expressed, and individual

The first thing I noticed when I stepped
 out of the train was the smell of
 fresh air. It was a relief after
 the stuffy atmosphere of the city.
 The sun was shining brightly, and
 the birds were singing in the trees.
 I took a deep breath and felt
 a sense of peace. The world
 seemed so different here. The
 people were friendly and
 the atmosphere was so warm.
 I had heard that this was a
 beautiful place, and now I
 knew it was true. The
 scenery was breathtaking, and
 the people were so kind.
 I had found a new home.
 I had found a place where I
 belonged. I had found a place
 where I could start a new
 life. I had found a place
 where I could be happy.

vein of the uterine plexus, yielded a small portion of simulat matter. Both Fallopian tubes were found in a similar condition, even to their fimbriated extremities. The examination could go no further.

A case similar to the last, is found recorded on page 97, of Andral's Medical Clinique, but the attack did not supervene so early after delivery, nor are the symptoms of nervous prostration, so well marked.

An important omission here to be, of the writers on this disease, would seem to be, that they have not called sufficient attention, to the influence of the nervous system; the vascular system is held to be all in all, every thing is inflammation, and the powerful effect of altered nervous energy, in the production of disease, or the aggravation of it, when established, is lost sight of. This is shown in the case of Susan Hook, as well as, in that recorded by Andral; and it does not seem surprising, that it should be the case in this disease, when we reflect upon the temperament of

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

those attacked: female, in whom the nervous System is more im-
-pugnible than in men, and now rendered particularly irrita-
-ble, by the severe pain, which they have already endured;
many of them, unmarried, shrinking through Shame, and
without friends to cheer, and support them, in this most
arduous struggle.

We have now considered puerperal fever, in all its
varieties, and its probable identity with the so called ephem-
-era, it only remains to give a short description of milk
fever, and to shew the difference, between the two.

In all women, about the third day, after delivery,
there is a degree of arterial, and nervous disturbance, resul-
-ting from the important process, which is established, at that
period, for the nourishment of the child. When the breasts
begin to be distended, with the lacteas secretion, there is
often a slight shivering, the head feels oppressed, and pain-
-ful, there is thirst, and a slight increase of the pulse, and
in the temperature of the skin; but in a few hours, these symptoms

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

gradually subside, and in numerous instances, the disturbance is so slight, that it scarcely attracts attention. But in other cases, these symptoms, are aggravated to an extent, which often threaten the patient's life, and demand from the practitioner, the most anxious attention. In these severe cases, "there is generally a well marked precursory rigor, followed by pain, throbbing of the head, and intolerance of light. The pulse is rapid, full, and hard, the skin hot, and dry, great thirst, and the tongue dry, and coated. If such symptoms, are not speedily alleviated, the milk is no longer secreted, the breasts become flaccid, the cerebral symptoms more severe, there is violent delirium, and meningitis appears to be established."⁺

The diagnosis between puerperal fever, and the most simple form of this disease is easy. In the latter, the lochia are wholly unaltered, even in the gravest cases, while in the first, they are almost always so; there is no tympanitis, nor is there any pain over lower part of abdomen; the breasts are always painful, and distended with milk, and the

⁺ Library of Practical Medicine. See Puerperal Fever.

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

disturbance is subdued by Simple, and generally local treatment, which is never the case in the last. In the grave cases of milk fever, it is somewhat more difficult, but the severity in this instance, consists in the cerebral symptoms, while in the other, they are never prominent, unless the abdominal symptoms are so severe, as to admit of no mistake in the diagnosis. These two rarely coexist, so that a mistake from this cause is not probable.

Attempted Explanation of the Disease. From the time of Boerhaave, to the present, this disease has been looked upon, by nearly all writers as a local inflammation. But on due consideration, we find it differs from other inflammations, in other particulars, beside those arising from difference of texture, and situation. Dr Fordyce, says, that the suppuration when it occurs, is very different in its effects, from that, which takes place in other inflammations, for the pain goes off suddenly, and sometimes the soreness; but the tumefaction continues, the pulse becomes more frequent, the strength is more depressed, and the patient is cut off, in from six to twenty four hours afterwards.⁷⁷

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

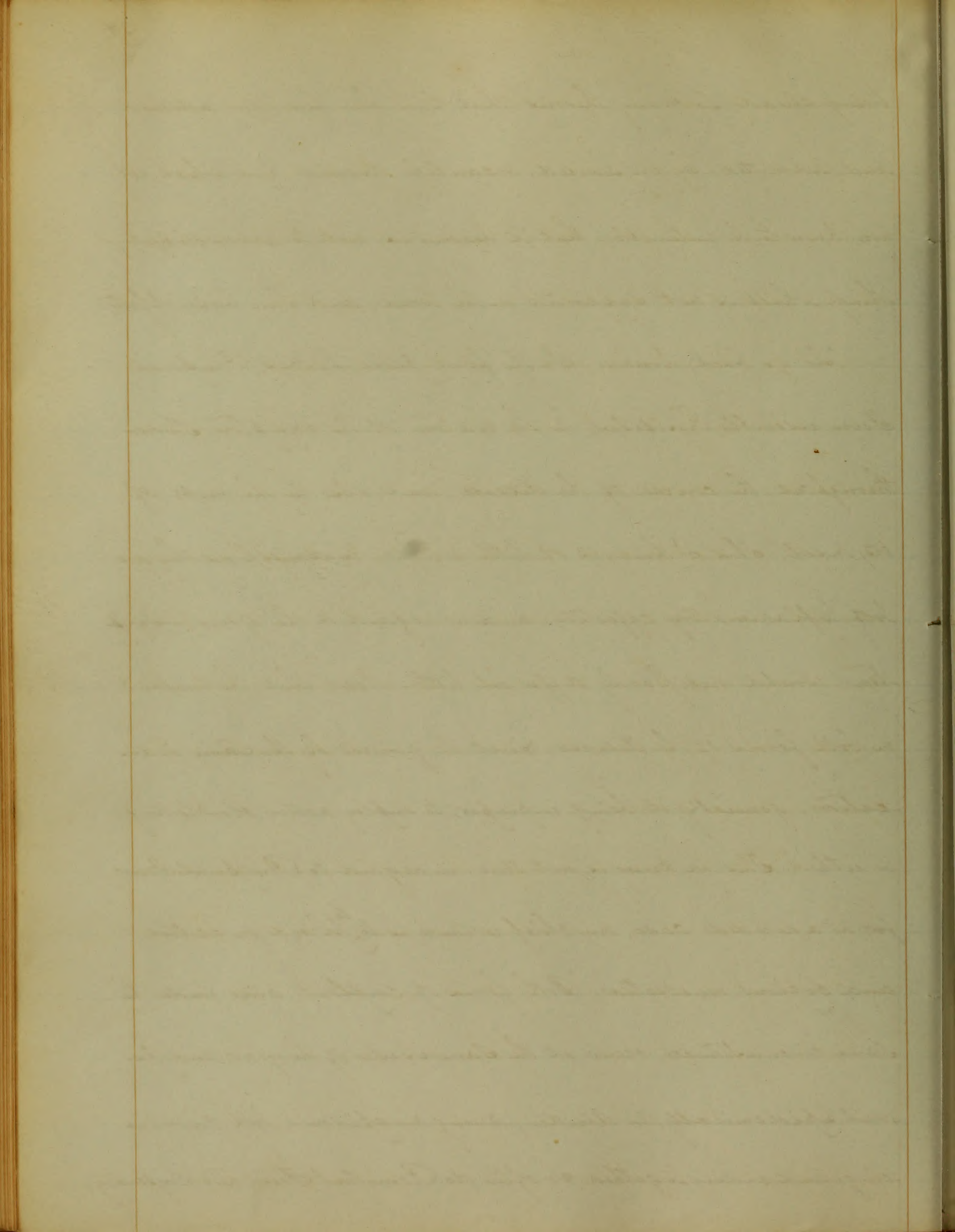
The same symptoms, that would arise, had gangrene taken place. Another difference is, its prevalence at particular seasons, and times, without any assignable reason, its rare occurrence in a sporadic form, and its contagiousness from one female to another, through the medium of the physician. Of this we have ample proof, not from one, or two probable cases, but from a large number, recorded by Gordon, Key, and others.

During the past year, Thomas Stunneley, in a work on Erysipelas, has advanced, that Puerperal fever, is only one form of a diffused inflammatory action, which when exhibited on the surface of the body, is called Erysipelas. In support of this view, he adduces many reasons, most of them upheld by observation of his own during the past eleven years. Many of these reasons, show that his idea is exceedingly probable, yet against others, very forcible objections, I think might be urged; and, on the whole, we need a much larger number of carefully observed, and recorded cases, before pronouncing on the identity of these two diseases. For in the present era of medicine, there

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

being already so many theories, that have been here before advanced, and, admitted, by prejudiced, or careless Observers; and which we now know to be untenable, that it becomes us, not to acknowledge any thing, which is not supported on the broad, and sure basis of facts.

To go back, however, In the first place, he says, "Quinsial Fever, resembles Typhoid, in the nature of the symptoms, shown throughout, the course of the disease, and also in the mode of its onset." This, I think, is of little weight, inasmuch as they are both inflammatory affections, and in regard to the general symptoms, would necessarily differ but little. Next, "that, the treatment in both forms of the disease, must be guided by the same indications, generally, it being improper, to employ active bloodletting in either." This we know is not true, in regard to Quinsial Fever; for, in a decided case, our chief reliance is to ^{be} placed on active, and copious venesection. "Both forms of complaint, arise under the same circumstances, occur at the same season of the year, and prevail epidemically, in Abudon, during one epidemic, both commencing, and ending together. So often do Remittent Fever, and Dysentery,



yet no one supposed them to be identical. On the other hand, he aduces, that the local symptoms, and the appearance, after death, are the same, allowance being made, for the different situations, and textures of the parts attacked," and this I believe post mortem appearance, have found. "Both complaints are characterized, by the great disposition there is, to the deposition of pus, in various parts of the body." Which we also know to be true. But the strongest argument, seems to be in the fact, that the two diseases, may during life, mutually produce each other, and the author brings forward many undoubted cases, in support of this opinion. Another similarity, which he does not mention is, that both diseases, have a tendency to pass into gangrene, instead of suppuration, as evidenced by the observation of *St. A.* dyes mentioned above.

If, in the preceding pages, the conclusions I have drawn from the facts observed by myself, and those recorded by others, have not been, very generally erroneous, I trust, they have at the least, afforded useful instruction to myself; if this is the case, even should they possess no other merit, I shall be satisfied.

Balt. Almshouse.

Chas. Frick

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

An Inaugural Dissertation,
on
Pneumonia, Typhoides
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 S. Moran
of
Baltimore Maryland
Session of 1844 - 45

The Department of Education

and

the Bureau of Education

for the Territories

of the United States

Washington, D. C.

1892

Annual Report

for the year

ending June 30, 1892

Volume 1

Part I

General Information

1892

To His Grace the Duke of Devonshire

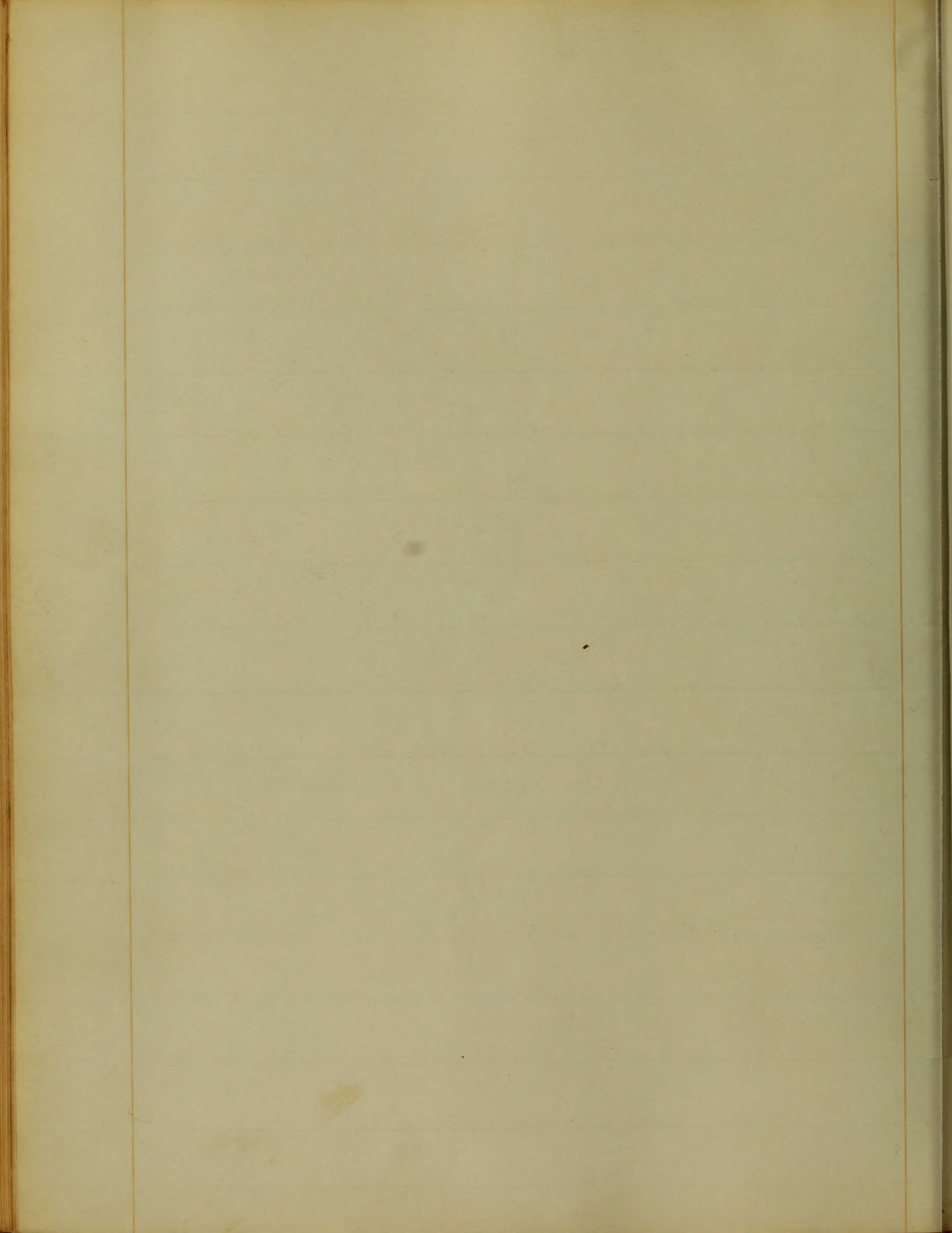
London

I have the pleasure to receive from you
the enclosed copy of the letter which you
were good enough to send me on the
subject of the proposed alterations in
the regulations of the Society for the
Improvement of the Poor in the
County of Devon.

I have read the letter with much
attention and I am glad to see that
the proposals are so judiciously
framed as to be likely to be
accepted by the Board of Directors
of the Society. I have no objection
to the alterations proposed and I
am sure that they will be found
to be for the benefit of the poor.

I am, Sir, very respectfully,
Your obedient servant,

John Bull



To Elisha Bartlett, M. D.

In dedicating
to you the following sheets, as an Inaugural
Dissertation, on Pneumonia, Typhoides, allow
me to assure you, there is no individual so
endowed with extensive and correct professional
acquirements, who would sooner have occurred
to me than yourself -

Allow me Sir, to
acknowledge in this my first attempt, my
obligations to you for your continued evidences
of friendship, and to thank you for the
encouragement the sound and profitable doc-
trines you have inculcated, have engendered
in cheering me on, during my scholastic career
within the walls of the University of Maryland

I am Dear Sir,

With much regard Your
Obedt Servant & Pupil
Geo. J. Moran

In considering the disease known by the
appellation of Pneumonia, it will be necessary
to distinguish it from other forms of Pulmonary
disease, which in their ordinary acceptation —
have, a considerable latitude of meaning; I shall
not attempt, a distinction between Pneumonia
and Pleurisy, as I believe such distinction,
would be impracticable, were it even possible,
it could serve no practicable purpose. I Con-
sider the lungs and Pleura are for the
most part simultaneously involved in inf-
lamation, and so far as I am acquainted —
with the disease, no variation of practice would
be warranted, though it were ascertained
to be seated exclusively in either organ;
indeed, in the language of ancient and
many modern Pathologists, inflammations,
both of the lungs, and pleura, have been

The country the same as in the
affairs of business it will be necessary
to distinguish it from other parts of the country
which are not in the same situation
and a considerable number of persons
are employed in the same business
and though it is not a very large
town it is very busy and the
it will be very profitable for the
time the day and the night
but not essentially different in
location and it is a very good
with the same as in the same
to multiply things it is necessary
to be very careful in the same
time in the same place and
many more things are necessary
the of the day and the night

comprised, under the common denomination of 2.

Pleurisy; in conformity with this usage, I shall in the course of the following observations, use the words Pneumonia, and Pleurisy, as synonymous, and convertible terms. It is however necessary to establish between the ~~xxx~~ ^{forms of} Pneumonia a diagnosis as accurate as the nature of things will allow. although, such diagnosis may be rendered apparently clear, by the description of well marked cases of its various forms, yet, those forms as might have been expected a priori are indefinitely diversified, and pass into each other by imperceptible gradation, the division of Pleurisies, now sanctioned by the general language of medical men, is that which arranges them as inflamm^{atory}, Bilious, and Typhoid; I think these may however be variously complicated. Thus, a Bilious pleurisy, may be highly

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

ⁱⁿ
 inflammatory, or it may be Typhoid. as these
 distinctions are in some degree founded in
 nature, and are absolutely necessary for the
 direction of practice, I shall proceed to trace -
 them out as well as I am able. Pleurisy -
 purely inflammatory, are in general distinguished
 by the absence of Gastric, or Nervous symptoms,
 but chiefly, and most uniformly, by the strength
 and hardness of the pulse, and by its tendency
 to rise and recover its force after having been
 reduced by depletion; In Bilious Pleurises attended
 by considerable Gastric disorder, the reduction
 of the pulse affected by a single blood letting,
 generally removes, the cause of the disease, and
 the force of the circulation is rarely so much
 increased, as to require its repetition. In -
 inflammatory Pleurises, on the other hand,
 the morbid excitement of the arterial -

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 principle of
 the conservation of energy. The second part
 of the paper is devoted to a description of
 the experimental apparatus used in the
 investigation. The third part of the paper
 is devoted to a description of the results
 of the investigation. It is shown that the
 results are in agreement with the theory.
 The fourth part of the paper is devoted to
 a discussion of the results. It is shown
 that the results are in agreement with the
 theory. The fifth part of the paper is
 devoted to a conclusion. It is shown that
 the theory is in agreement with the
 results of the investigation.

411

System, is reproduced, from day, to day, requiring
the frequently repeated abstraction of blood. In
such cases large and repeated bloodletting is
indispensable, to save the lung from disorgan-
ization; it is unnecessary to say more of a
form of Pneumonia, introduced here merely
for the purpose of illustration. Typhoid Pneumonia,
is only a grade of the Bilious form, and
differs from it, as a part, differs from the whole
in which it is included; I believe the Profession
will sustain me in declaring, that all, Typhoid
Pneumonias are of the bilious form, and that
their prevalence is generally attended by various
other grades of pulmonary disease, all mar-
ked, by the bilious diathesis - I believe it to be
the universal opinion, that a preexisting -
bilious diathesis, is indispensable, to the occur-
rence of the Typhoid State. It may be - - -

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

14

observed however, that this diathesis, is by no means inconsistent with an excitement of an inflammatory character, for in cases where the abdominal viscera, have been previously disordered, by the impression of marsh effluvia, an inflammatory tendency seems to be impressed on the succeeding pulmonary disease, thus, the winter Pleurisies of low and marshy countries, are according to the observation of eminent men in the profession, less liable to assume the Typhoid type, while high, and salubrious regions, have constituted the principal causes of Typhoid affections, of the lungs; with regard to the prevalence of Typhoid Pneumonia in high situations, this disease bears an analogy, to dysentery and Typhus fever, they all seem in general to result from a miasmatic impression, too slight to be developed in immediate fever in its regular form - Bilious Pleurisies very rarely occurs ~~and~~

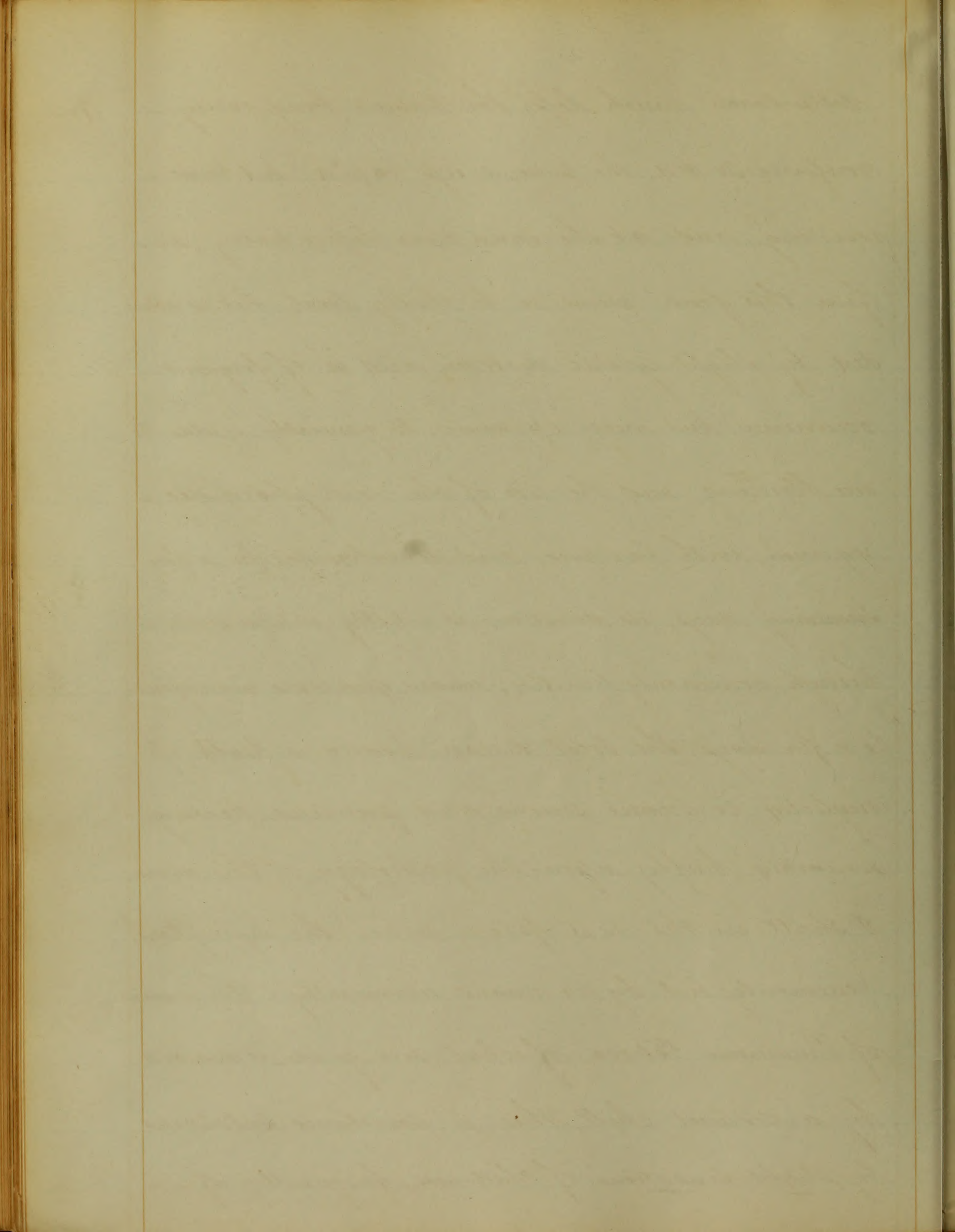
Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.

In infancy, and of the Typhoid form, it rarely, if ever occurs under the age of six, or eight, years, and our late and lamented, Professor Potter of this university, has said that he never saw this disease fully developed in the African - but this is doubtful, according to statistics of Typhoid fever in 1844-15 which was fatal to great numbers of this class of people, It may be laid down as generally true, that Pneumonia Biliosa, has a much stronger tendency to the Typhoid type, when it prevails as an epidemic - An Epidemic Pleurisy of inflammatory type is certainly a very rare occurrence, especially, in high countries - cases of Bilious Pneumonia in ^{which} the disease appears to be chiefly local, the constitutional affection being but imperfectly developed, rarely if ever assumes the Typhoid type, as a distinction, they are perhaps never, ushered in by a distinct chill. The Gastric symptoms, are less prominent, and constitutional ^{not}

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

7^u

disturbances much less, the patient being rarely -
confined to bed, the pulse, is less rapid, but more -
resisting, and at the same time less vibratory, in -
fine this form seems to be chiefly local, but is atten -
ded by slight gastric disorder, and is of frequent -
occurrence, but never epidemic, It generally yields to
one ^{let} bleeding, and the use of the antiphlogistic -
regimen, with laxatives, and demulcents, for a few
succeeding days, its duration is wholly intermediate -
though commonly limited, under judicious management
to a few days, the local disease, however is liable if
neglected to become serious, and protracted. Having
remarked briefly upon the pathology, of this disease;
I shall in the next place, notice the symptoms,
commonly; but by no means universally. The invasion
of Pneumonia Poliosa of what ever grade, is marked
by a distinct chill, this is sometimes substituted
by slight sensations of chilliness, frequently of - -



811
considerable duration, and occasionally, extends to
several days. Premonitory symptoms precede the attack,
similar to those which precede the occurrence of other
febrile diseases, but generally accompanied also by
catarrhal affections. It happens not infrequently, that
the severest forms of Bilious Pleurisy supervene on catarrh,
by the aggravation of the catarrhal symptoms, every
practitioner should regard a severe catarrh as the possible
beginning of Pneumonia, nor are there any diagnostic
symptoms by which the transition of the former into
the latter can be distinctly ascertained, of, as F. J. Kelly
maintains, catarrh be confined to the mucous membranes,
while Pneumonia involves the parenchyma of the lungs,
it is plain that in passing from the former into the ^{latter}
the disease increasing its violence and extending its seat,
only changes its name, without the slightest change in
the nature of morbid action, whenever Pneumonia com-
mences without chill, which it does in a considerable

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

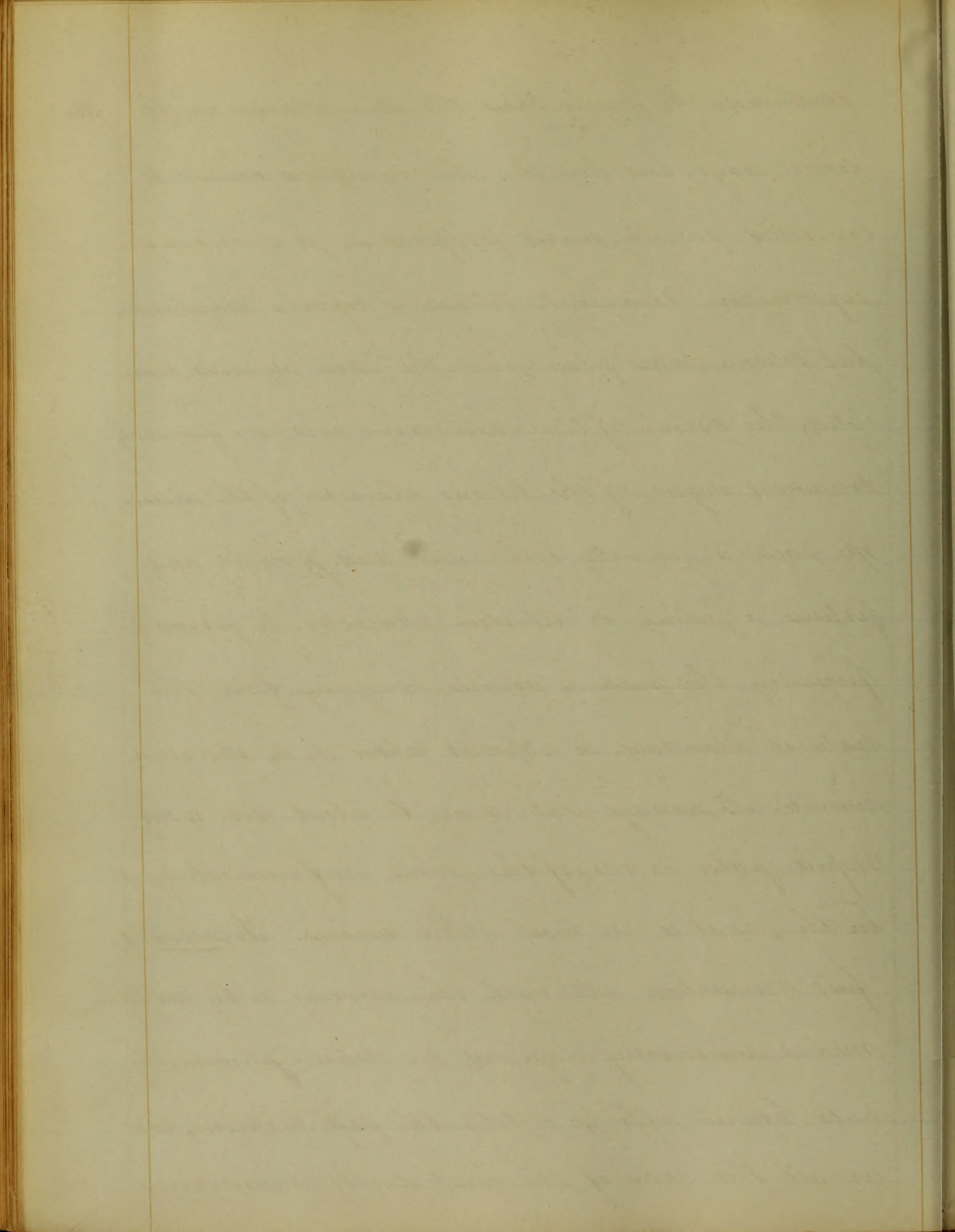
portion of cases, it in general arises by gradual transition
from catarrh, cough, in the great majority of cases,
is from the beginning a troublesome symptom, but it
occasionally happens, even in the most acute cases,
that there is no cough whatever; sometimes the cough
is almost incessant, greatly aggravating the pain, &
producing extreme distress: The expectoration is at first
scanty, but becomes more copious as the disease advances,
In perhaps about half of the well marked cases, the
sputa are streaked with blood, and not unfrequently
tinged with bile. Thoracic pain, is an universal
symptom, but it occupies various parts of the chest.
Sometimes it is confined to a single spot, at other
times it is diffused through various parts of the thorax,
the breast and sides are its most common seats, but
it occasionally invades the back, about the region of
the lower ribs, and where ever it may be seated, very
frequently extends through the breast to the scapula.

Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

Pain of the head attends a certain proportion of cases, 101
perhaps not more than one third the whole number,
it seems to be purely symptomatic of the gastric or
pulmonary disorders, seldom continues beyond the
early stages, and presents no distinct indication
in the treatment. The state of respiration may be
regarded as being far more important in the progress,
than any of the former symptoms mentioned. It is
impossible, however, for laborious breathing to continue
long without seriously affecting the pulse, the tongue
is perhaps uniformly coated with a yellow fur -
where the typhoid condition supervenes, which frequently
occurs in protracted cases, it becomes first brown and
dry, afterwards black, or of a smooth shining red, and
here a change of these appearances towards the natural
condition, will afford the most decisive sign of convalescence. The skin in a great many cases, is relaxed and
moist; from the beginning, it is however often dry and

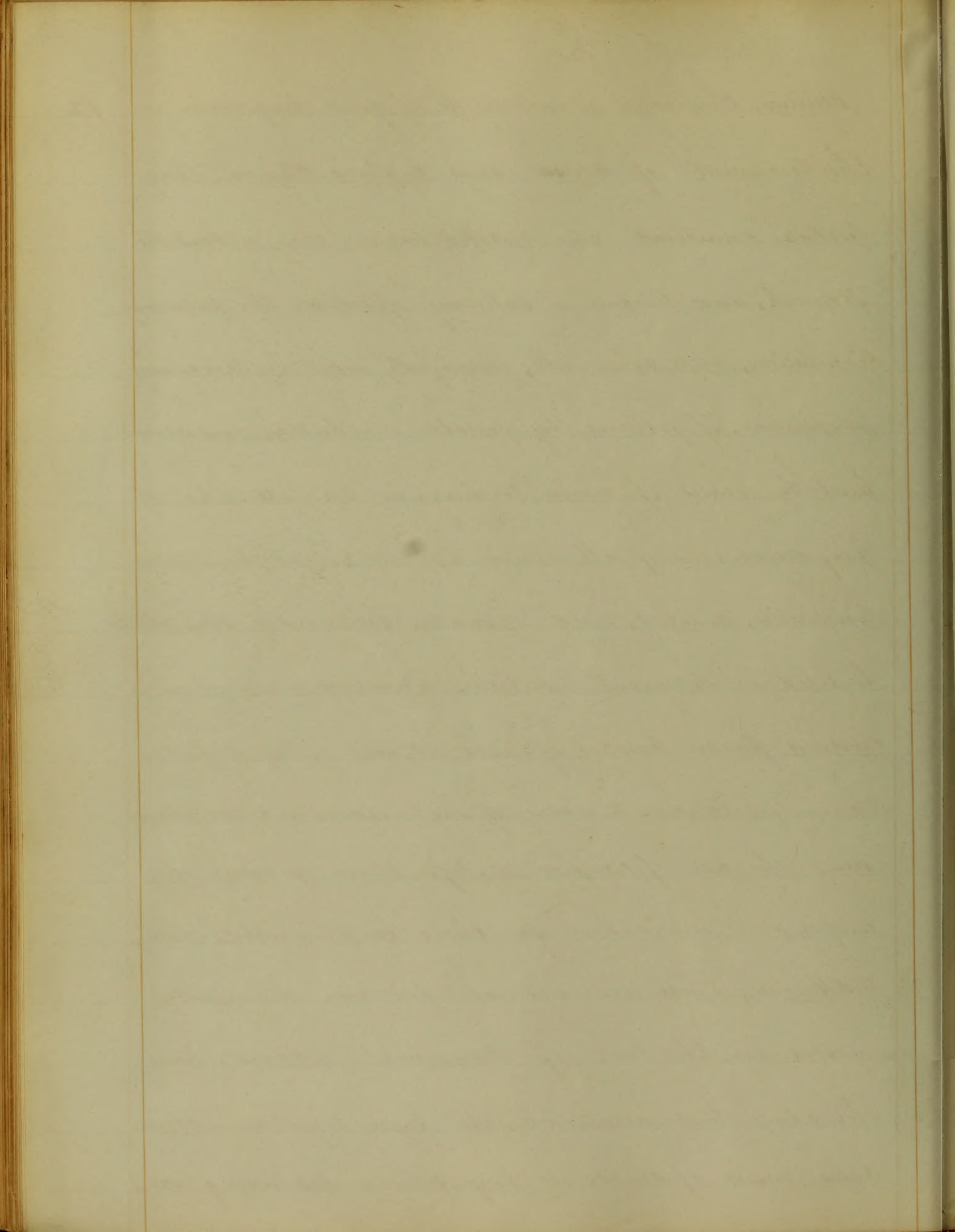
Faint, illegible handwriting on a page with horizontal lines. The text is too light to transcribe accurately.

constricted. In many cases the skin remains dry for 111
several days, and here the other symptoms cannot be
controlled perfectly, until perspiration be excited. A free
expectoration commonly follows a copious diaphoresis,
but seldom takes place while the skin remains const-
ricted; the colour of the skin and eyes, are frequently
concurrent signs of the bilious character of the disease,
the pulse is generally both quick and frequent, and
possesses a jerking or vibratory character. In point of
frequency the pulse is various, ranging from the
natural standard, to a point above it, to 120 in a
minute. its average rate may be about 100. a very
rapid pulse is one of the most unfavourable sympt^{ts}
in this, as it is in most other diseases. Treatment
first venesection although this remedy is by no-
means universally required in Bilious pleurisy, the
pulse however affords a tolerable safe criterion, but
in all the cases of the least doubt venesection -

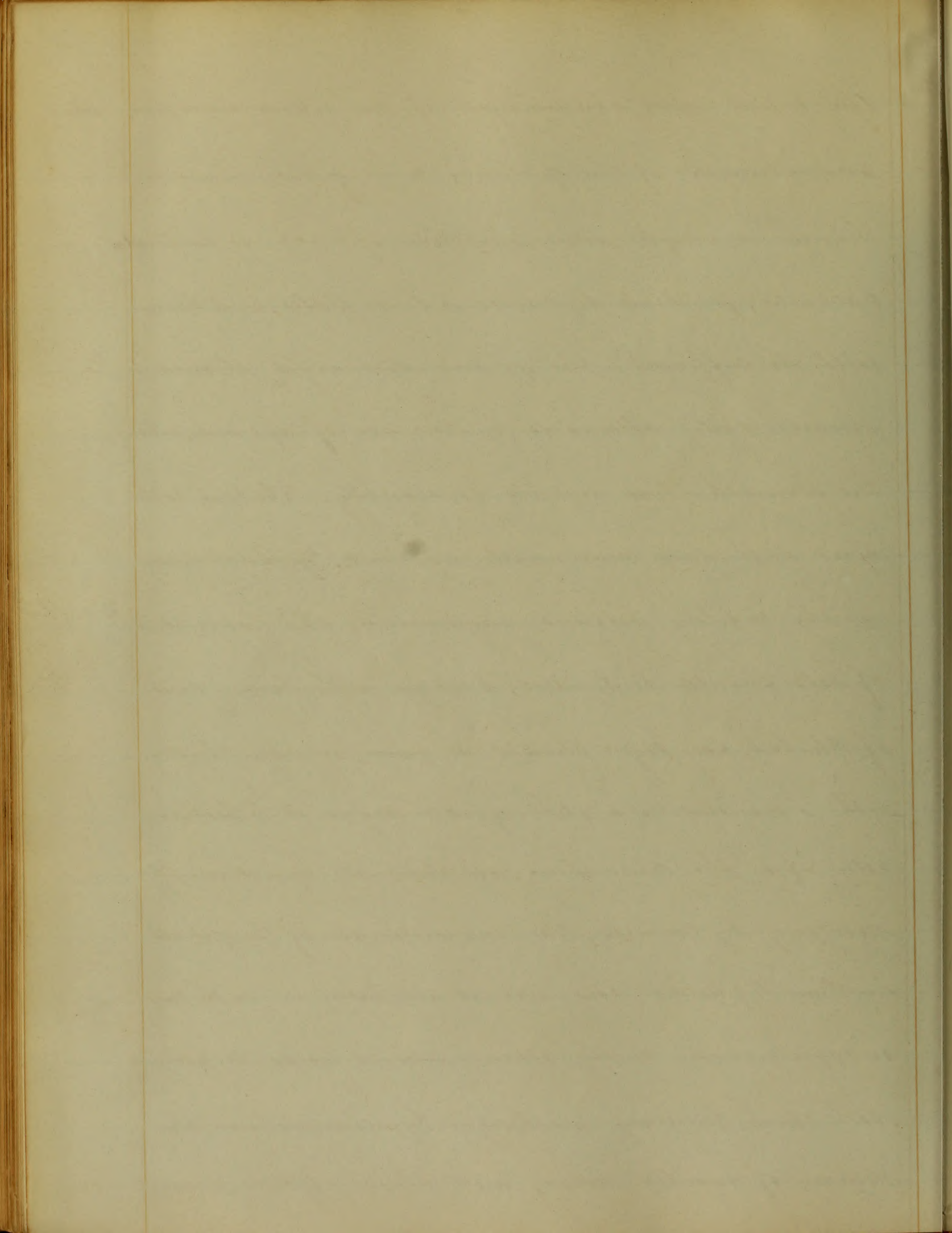


Should be omitted during the prevalence of a Typhoid 12.,
Pneumonia, In the class of cases mentioned at the
outset, where the local affection exists without the
full developement of the constitutional excitement or
gastric disturbances, the lancet is very frequently,
required, though not universally, there is in such
cases no affection of the general system which
can give rise to a typhoid tendency: the use of
the lancet should be followed by mucous cathartics
or Emetics. Cathartics: and these by laxatives and
demulcents, with a refrigerant and antiphlogistic
course, continued for several days. Bleeding should
never be practiced after the pain has materially
abated, and expectoration has become free: In
every critical case where the lancet is used, the
pulse ~~begin~~ should be constantly and cautiously
examined during the flow^{fall} and should be stopped
as soon as the pulse begins to flag. Secondly

13.
Emetics, this class is said to be of great importance in
the treatment of Colic and Typhoid Pleurisy. They
perhaps counteract the morbid action, they unload the
Stomach, and produce a salutary effect on the pulmonary
Circulation, and above all, powerfully assist in producing
perspiration, if followed by suitable Diaphoretics, and external
heat by means of warm covering, in the later stage of
this disease, as of all others having the slightest asthmatic
tendency, Emetics, and especially, antimonial ones should
be used with great caution. Whenever venesection is
judged proper, Emetics, if used at all should follow
that operation. In cases of high excitement we should
omit the use of emetics unless there is some very
important indication for their employment, Thirdly,
Cathartics, these remedies are far more universally
required in the cure of Putrid Typhoid than
the class last mentioned, the degree required in these
cases must of course be very various depending on



the extent and continuance of the bilious symptoms, 141
and strength of the patient; in a great many cases
however a single active purgative of Cal^o or an extract
Cathartic, followed by castor oil, or Pills, and Lenna,
will be sufficient, one or two discharges should be
procured daily; afterwards, by the use of aperients, when
the strength has declined considerably, Rhubarb is the
most safe and manageable aperient, in such cases
as the debility becomes augmented, the large dose
of Cal^o should be omitted, 2 or 3 grs with larger doses
of Rhubarb, say 15 grs, should be given, or when the strength
is exalted to a still greater degree it is best to
rely upon the Rh^o stone, assisting its operation if
necessary by enemias, the moderate use of Purgatives
in Proc. Typhoides does not at all interfere with sweat
or expectation, on the other hand it tends to promote
both these salutary discharges by diminishing the
degree of morbid action, and thus affords a more



1511

favourable opportunity for the exertion of the restorative powers of nature, it may be observed that in cases of extreme, and dangerous prostration, all evacuations should be avoided, and our dependance placed solely on Stimulants, and external irritation, until the powers of life be in some measure restored. Fourth, Diaphoretics, these are medicines of high importance in the treatment of Pneumonia Typhoides. They stand next to those required for the evacuation of the alimentary canal, and for the purpose of counter-irritation, they should be accompanied by plentiful warm dilution, without which they would probably possess but little efficacy. In high grades of action, Antimonials, alone, or in combination with Prot. Chlo. Hyd. & Nitrate of Potash, form the best diaphoretics, the Uvula pulv. though a useful diaphoretic where its anodyne action also is desired, would be inadmissible, for this purpose in any form of Pneumonia, as the Opium would tend to obstruct

Faint, illegible handwriting, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

Expectoration, and other salutary processes. Some ^{change} of the 1611
diapho. remedies is generally required, for Inst. if Antid.
and Nitrate of Potash, were used at the commencement,
it might afterwards become necessary to substitute —
for them in succession the acet. of ammonia the Spi.
Nit. Dulc. and sometimes towards the close, even —
Serpentaria, Camphosa, and ammonia. but the only
rule by which these changes can be made and regu-
lated is this, that the diapho. medicines used at any
period of the disease, must be accommodated to the
existing state of excitement, it not infrequently happens
that an excited state of the System, attended by hot
Skin, and an irritable pulse, occurs in the decline of
this disease even of the Typhoid type, in such cases
it would be better to refrain from all medicine —
except occasional doses of Rheu. &c., for the regulation of
the bowels with a due attention to this object and a
light and careful diet. The irritation will commonly

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

17.
wear away in the course of a few days. In the state of
debility, which often occurs towards the close, a cold infu-
sion of Perseptaria, or of this combined with Quassia, ~~will~~
will have a salutary effect. in low states of the system
wine whey Camphor. Ammonia &c. is strongly indicated
besides the stimulating diapho. Other Stimulants may be
required, such as are resorted too in Typhus fever, for Inst.
wine, Brandy, Perseptaria, Camph. am^{ia} &c. Suff., Blisters
these may be regarded as remedies of primary and
essential importance in every form and grade of acute
pulmonary inflammation, though there should be certain
limitations to their use. Purg Mercury, this medicine
is employed in this disease as a cathartic, aperient,
and alterative, it may however become occasionally
necessary in Miasmatic situations. particularly where
hepatic affections may be a prominent symptom,
In ordinary cases an attempt to produce Ptyalism, is
much worse than useless in what ever stage it may

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 author discusses the various civilizations that have flourished on the earth, and the progress of human knowledge and industry. He also touches upon the political and social changes that have shaped the course of human events.

The second part of the book is a detailed account of the history of the British Empire, from its early beginnings in the sixteenth century to its present extent. The author describes the various colonies that were acquired, and the policies that were pursued towards them. He also discusses the role of the British Empire in the world, and its influence on the course of human history.

The third part of the book is a history of the British monarchy, from the reign of King Henry II to the present day. The author discusses the various kings and queens who have ruled the British Isles, and the events that have shaped the course of their reigns. He also touches upon the political and social changes that have taken place during this period.

The fourth part of the book is a history of the British navy, from its early beginnings in the sixteenth century to the present day. The author discusses the various ships and fleets that have been built, and the battles that have been fought. He also touches upon the role of the British navy in the world, and its influence on the course of human history.

The fifth part of the book is a history of the British army, from its early beginnings in the sixteenth century to the present day. The author discusses the various regiments and battalions that have been raised, and the battles that have been fought. He also touches upon the role of the British army in the world, and its influence on the course of human history.

The sixth part of the book is a history of the British colonies, from their early beginnings in the sixteenth century to the present day. The author discusses the various colonies that were acquired, and the policies that were pursued towards them. He also touches upon the role of the British colonies in the world, and their influence on the course of human history.

The seventh part of the book is a history of the British Empire, from its early beginnings in the sixteenth century to the present day. The author discusses the various colonies that were acquired, and the policies that were pursued towards them. He also touches upon the role of the British Empire in the world, and its influence on the course of human history.

The eighth part of the book is a history of the British monarchy, from the reign of King Henry II to the present day. The author discusses the various kings and queens who have ruled the British Isles, and the events that have shaped the course of their reigns. He also touches upon the political and social changes that have taken place during this period.

The ninth part of the book is a history of the British navy, from its early beginnings in the sixteenth century to the present day. The author discusses the various ships and fleets that have been built, and the battles that have been fought. He also touches upon the role of the British navy in the world, and its influence on the course of human history.

The tenth part of the book is a history of the British army, from its early beginnings in the sixteenth century to the present day. The author discusses the various regiments and battalions that have been raised, and the battles that have been fought. He also touches upon the role of the British army in the world, and its influence on the course of human history.

be made. It is a notion not uncommon among Prac. 18.
titioners, that in those critical conditions, arising in
the latter stages of disease, the activity of treatment
should be in proportion to the danger, and that all
the resources of the art should be put in requisition,
the very reverse is generally true - in such states
of disease, caution is a quality still more important
than energy, and recovery will much oftener be acco-
mplished by a careful preservation of the powers of
life than by any active practice. In situations,
where debility is almost one of the chief sources of
danger that practitioner is most ~~often~~ successful
who in fulfilling the obvious indications, is most
cautious, in exhausting the vital powers, for Mercury
when used in low Typhoid states of the system
has this exhausting tendency.

To conclude, the extent and importance
of the above subject, most unquestionably, affords a

Faint, illegible handwriting, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

field for more extensive remarks, but it would
illegally, become me at this period of my medical
career, to indulge in a spirit of Pathological
generalization, or of Therapeutic, speculation, I am
satisfied to have advanced certain leading facts,
which if properly investigated, and carefully carried
into the Chamber of the sick, may elicit other
facts, and thus afford an opportunity of extending
our knowledge in reference to the Pathology of
the disease and the utility of the Therapeutic plan
we have proposed.

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

An Inaugural Dissertation,
on
Injuries of the head,
Submitted to the examination
of the Provost, Regents, &
Faculty of Physic,
of the
University of Maryland,
by
William Pagan,
of
Hagers-Town Maryland,
February 1st - 1845.

W.

On the subject of the

or

of the Faculty of

University of

Medical

of the

Mr.

The
following synopsis of the opinions
of eminent Surgeons
on
injuries of the head, and the most approved treatment
thereof,
is inscribed to Samuel Chew M.D.
professor of
Therapeutics, Materia Medica, and Hygiene,
in the medical University of Maryland,
as
a small tribute of respect for his professional
knowledge and kind attentions to his pupil

W^m Pagan
M.

The
Fellowship of the
of
in
of the
is
Professor of
in the
is
a
and

of
Mr.

Injuries of the Head

5

Injuries of the cranium have been arranged by surgeons into more or less classes, each class having some peculiarity of its own to distinguish it from the rest. Whilst I hope to show that I have been careful in adopting thoroughly tested opinions on this, to me important and interesting portion of surgery, I trust I shall be found equally careful in rejecting such as have nothing to sustain them but theory.

In order to distinguish the different degrees of injury inflicted upon the cranium, the extent of consequent danger, and the appropriate treatment of each, the following arrangement has been adopted—namely: *Fissures, counter fissures, stellated, depressed or camberated, and punctured fractures.*

The difference of injuries received by the skull is owing to the means by which it is produced, and the power that produces it, as well as the inequality and relative thickness and strength of the bones of which it consists—*viz: The os frontis, two ossa temporalia, two ossa parietalia, os occipitis, os sphenoides, and os ethmoidium.*

History of the World

Faint, illegible text, likely bleed-through from the reverse side of the page.

which are. A fissure is a simple crack or division of one or more bones of the skull.

A counter fissure is a fracture which happens upon a portion of the skull opposite to that on which the violence occurs, or upon some point distant from it. For instance a blow inflicted on the sagittal suture, the temporal angle of the parietal is broken or started from the dura mater beneath. The reason why this description of fracture does not more frequently happen, is that the vibration produced by the blow, in making the circuit of the skull, meets with thinner and weaker lateral portions of bone, which yielding to its influence, is fractured in place of that directly opposite to the part of the skull upon which the blow was received.

Dr. Cooper says, counter fractures are never depressed, nor attended with splinters and fragments of bone. These can only happen when the head is struck by a broad, flat body, in which case, the force tending to produce the breach of continuity is transmitted to all the bones of the skull, and if the part that is directly struck can make resistance equal to 10,

7 June 18

The weather was very fine today. I went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We had a picnic under a big tree and enjoyed it very much. The children were very tired when we got home. I will take them to bed now.

which another part can only make one equal to 5, the latter is broken and not the former, but as the weapons and bodies with which blows are mostly given, have angles and prominances, we see the reason why the cranium is generally fractured immediately where the violence is received." When the force of a blow has not pressed a portion of bone in upon the brain, or when the dura mater is not irritated by the rough edges of it, fractures in themselves, are considered of little consequence. But is it not reasonable to conclude that a stroke powerful enough to crack the cranium may be sufficient to shock the brain, so as to produce extravasation to some extent, and inflammation of it or its membranes.

To guard against such consequences, is it not safe to resort immediately to Antiphlogistics and continue them some time, particularly, as no peculiar symptoms succeed to fractures of this kind and there is no safe way of discovering their extent but by the eye or touch. If there is no mischief done by the blow, within the walls of the cranium, this treatment may prevent or subdue inflammation of the

wounded integuments of the skull, and obviate the danger that otherwise might happen, from their vascular connection with the parts within; and if the shock has reached the brain, may if proportioned to the exigency of the case, save the life of the patient.

A stellated fracture is when there are rays running from a single centre, making a fracture in the form of a star.

A depressed or camberated fracture is when a person falls from some eminence and lights directly on his head upon some solid body, or when some heavy substance is precipitated from a height and falls upon it, producing a fracture in extent long and wide, the centre of which is depressed in a direct line, the sides declining towards that centre.

A punctured fracture is represented to be that form of wound in the bone, which has the same relation to wide fractures and broad depressions, that the stab of a bayonet has to the cut of a sabre.

accounted for the amount of the yield and extent of
damage that a storm might inflict upon a
certain connection with the facts which
the report has reached the date may be
returned to the company of the car in the
the patent.
I believe that the facts in this case are
from a reliable source and that the
of a
I believe the committee has taken a
fall from some cause and that
has been upon some other fact or
and substance is important to
it has been the case which is
I think the committee should
the
I believe that the facts in this
of course in the case which has
I believe the committee should
that the staff of the report has
a

Treatment of Fractures

5

It is said that cases of fractures, both simple and depressed, when judiciously and carefully committed to nature have done well without receiving any surgical assistance, and that in fractures of the cranium the Trepanne ought not to be resorted to unless the symptoms are dangerous and some of the membranes or the brain itself injured, so as to indicate its use, which is entirely to be left to the decision and skill of the surgeon.

Sir In Bell says wherever I have found the surgeon impatient to perforate, intent on raising every depressed part of the skull, careful to include in the circle of his saw every suspected piece of bone, and anxious to secure a free evacuation of matter by large openings; I have seen such tearing up of the skull, especially in boys as I could not witness without pain, uniformly followed by protrusion of the brain and death! Thus condemning all haste operations, as well as the making of large openings for the discharge of extravasated blood, and thereby exposing the brain to the air, dripping &c; as reprehensible and dangerous in the extreme.

If there is a fracture upon the base of the skull,

Treatment of Fractures

It is said that every fracture has its own peculiarities and that a general principle is not applicable to all. It is true that the treatment of fractures is not a simple matter and that the physician must be well acquainted with the anatomy of the bones and the muscles which surround them. It is also true that the treatment of fractures is not a matter of routine and that the physician must be able to adapt his treatment to the individual case. It is for these reasons that the treatment of fractures is one of the most difficult and important branches of surgery.

The first step in the treatment of a fracture is to secure rest and to prevent any further injury to the part. This is done by immobilizing the limb in a cast or splint. The next step is to reduce the fracture, that is, to bring the broken ends of the bone into their normal position. This is done by manipulation or by the use of a special instrument called a manipulator. After the fracture has been reduced, it is necessary to secure it in its position. This is done by the use of a cast or splint. The cast or splint should be made of a material which is strong and light and which will not irritate the skin. It should also be made in such a way that it will not restrict the motion of the other joints of the limb. The cast or splint should be removed as soon as the bone has healed and the patient is able to use the limb without pain.

In some cases, it may be necessary to operate on the fracture. This is done when the fracture is comminuted, that is, when it is broken into several pieces. It is also done when the fracture is displaced, that is, when the broken ends of the bone are not in their normal position. The operation is called an osteotomy and is done by cutting through the bone and bringing the ends into their normal position. After the operation, the limb is immobilized in a cast or splint and the patient is kept in bed for several weeks. The cast or splint is removed when the bone has healed and the patient is able to use the limb without pain.

The treatment of fractures is a matter of great importance and one which requires the highest skill and judgment. The physician must be able to recognize a fracture and to secure rest to the part. He must also be able to reduce the fracture and to secure it in its position. Finally, he must be able to remove the cast or splint at the proper time and to give the patient the best possible care during his recovery.

or a fissure extends itself to that part; through
 the cuneiform process of the occipital bone and
 foramen magnum, it generally proves fatal, unless
 counteracted by the strength of the patient and
 his healthy constitution. If the symptoms indicate
 injury of the brain from the fracture, the skull has
 received, or irritation be produced by splintered fragmen-
 ts of bone, these must be carefully removed by the for-
 ceps, or fingers, and the lips of the wound brought
 in contact with each other to procure adhesion, and
 if necessary, a stitch added, carefully guarding
 against drawing it too tight, lest inflammation
 be produced. In bringing the lips of the woun-
 d together an entire adhesion must be strictly
 guarded against, by leaving a small vent and
 keeping it open by means of lint, so that any
 matter collecting between the integuments may
 pass out to prevent inflammation and the bo-
 ne becoming carious, which would make the
 use of the Truphine indispensable. To guard
 against inflammation, or to subdue it should it
 come on, the patient must be kept upon low

As a paper entitled with the title of the
the exhibition held in the year 1851
some measure of success, it is
characterized by the spirit of the
the health of the nation. It is
many of the best specimens of the
which are contained in the
the fact that there must be
the paper and the title of the
contact with each other in
a necessary a stock of
account however to the
the product of the
together an entire
considered as a
purpose of the
with the collection
it is not a
the
the
the
the
the

diet, venisection from the arm or if the case require it, from the temporal artery, cold applications to the head, sinapisms to the lower extremities, injections, mercurial purges with antimonials if the patient is able to swallow, must be resorted to, according to the exigences of the case.

Compression of the brain from extravasation

Extravasation of blood upon the brain is the result of some vessel being ruptured within the cranium by a blow or violence of some kind inflicted upon the head, and the blood is often effused upon the brain or between the ventricles, as well as between the dura and pia mater, when there is no fracture of the skull. If extravasation happens between the convolutions of the brain, it is said to be diffused, if between the ventricles to be circumscribed.

Extravasations that take place between the dura mater and base of the cranium are considered the most dangerous, and the least pressure is said to be produced when the blood is effused between the tunica arachnoides and the dura mater unless the quantity be great.

8

Whether the brain be compressed by a portion of bone, an extravasation of blood, an effusion of matter, a ball, or any other foreign substance lodged between the dura mater and the skull, the symptoms are said to be the same.

If concussion and extravasation exist at the same time and the patient remains insensible without any lucid interval, danger may be apprehended, although it is difficult to determine whether the continued insensibility is produced by the concussion or the effusion of blood.

As it would be impossible minutely to detail all the symptoms peculiar to each grade of compression of the brain from extravasation in an essay of this kind, I hope to be excused for substituting the following gradation of sir J. Bell. He remarks, that Stupor, though deep, and to the Tyro seemingly very dangerous, is not cause for immediate alarm to the experienced surgeon: Delirium succeeding such stupor shows that the vascular action is begun, and the oppression at an end.

Slighter somnolency free from stupor, in which the patient has his senses (though inclined to sleep) but with a heavy oppressed and intermitting pulse, is extremely alarming and requires the Trepan: Stupor, accompanied with dilated pupil, and palsy on one side indicates the most imminent

6

Whether the beam be composed of wood or iron
the operation of them are the same, and the
same substance being used in the same
manner, the operation is the same.
The beam and counterpoise work at the same time
and the beam remains in equilibrium without any
other change than the adjustment of the
weights to the distance from the center of gravity.
It is evident that the operation is the same
whether the beam be composed of wood or iron,
and the operation is the same, and the
same substance being used in the same
manner, the operation is the same.
The beam and counterpoise work at the same time
and the beam remains in equilibrium without any
other change than the adjustment of the
weights to the distance from the center of gravity.
It is evident that the operation is the same
whether the beam be composed of wood or iron,
and the operation is the same, and the
same substance being used in the same
manner, the operation is the same.

danger, yet such is often relieved by the Trepan. Stupor in which the face is pale, the extremities cold, the pulse not heavy and labouring, but quick and fluttering, especially if attended with palsy of one side, or slight convulsions, agitating the features or the limbs, is a state altogether to be despaired of, yet perhaps it is even here our duty to operate, but without hope."

The following case occurred in my neighbourhood. Leonard E., a young man about 18 years of age received the kick of a horse on the forehead and was knocked down, but in a few moments got up, caught the horse and put him in the stable, and then walked two hundred yards to the house. He had slight stupor and complained of pain in the head. A Physician was called in who after examination pronounced the injury to be, concussion without fracture, and dressed the wound with adhesive straps &c. and continued to visit the patient ten days, the stupor increasing daily with stertorous breathing. On the tenth day Dr W^m Macgill was called in and immediately pronounced the injury an extensive fracture and proceeded to operate. He removed all the anterior portion of the frontal bone, extending up to the coronal suture, a portion

of the orbital ridges with the nasal bones. In all, he removed twenty seven pieces of bone. After the operation his pulse and breathing became more natural, and he continued to improve for several days. On the night of the fourth day from Dr W's first visit, his breathing became more stertorous and his heart laboured much, so that his friends supposed him dying. The Dr removed the dressings and on probing the wound discovered a hard substance imbedded in the right hemisphere of the brain, he forthwith enlarged the opening and removed a spicula of bone that had been forced in by the kick of ^{the} horse. Some pus was discharged and his pulse and breathing became better. At the place from which the spicula had been removed a hernia cerebri formed, but was removed by continuing a compres of sponge with a bandage. Pus accumulated from time to time in the sinus that had formed by the last removed spicula, producing unfavourable symptoms, but enlarging the wound invariably gave relief. During the time the patient was confined (about ninety days) his discharges by stool and urine were involuntary. By the above treatment, occasional bleeding and strict attention to low diet the patient recovered. The shock his system received from this dangerous

injury, did not in the least impair his mental faculties.

Treatment of compression.

If the symptoms are such as indicate effusion of blood upon the brain, the lancet must be resorted to, and its use repeated as often as the state of the pulse demands it, always being cautious, when one side is palsied, not to draw much blood, as in such case, "the brain being already compressed, and the vital powers low," there is danger of suddenly prostrating the strength of the patient. Purgatives must also be administered as circumstances require, and a low diet strictly adhered to. In a word an antiphlogistic treatment must be persevered in, proportioned to the urgency of the case. If with such treatment, the symptoms do not abate, or if they become more alarming, the Trepan must be used to relieve the brain from the pressure of blood.

Concussion of the brain.

Of every description of injury of the head, with the exception of punctured wounds, concussion of the brain appears to be the most dangerous. It may be produced in a variety of ways, such as by being thrown from a

...but not in the last impact to mental faculties.

Disturbance of comparison.

Of the operations one which is indicated as being
...the brain, the latter must be restored to a state
...repeated as far as the state of the fullness
...always this caution, when one sees a patient, not to
...them much that as in such cases the brain has
...and the other does not. This is a
...the object of the patient. It is
...of occurrence, which are
...to be a great or a small
...in the agency of
...the case. It will be
...the object of the
...the brain from the
...that.

Disturbance of the brain.

...the
...the
...the
...the
...the

horse, falling from a height, being accidentally knocked down and the head coming in contact with a stone or the pavement, or by the falling of the limb of a tree or other hard substance upon it &c.

Although the symptoms that follow compression and concussion are so similar and are generally so combined or intermixed as to embarrass the most experienced surgeon, yet it is said that the symptoms of the former will distinguish it from the latter. Dr. Boerhaave says pressure on the brain occasions insensibility partial or generally, and that the pupil of the eye is dilated and can not be made to contract even by a strong light. The respiration is slow and stertorous, and the pulse proportionately slow and labouring. There is no vomiting, which would indeed indicate sensibility of the stomach. The limbs are relaxed as in a person just dead, on the pressure being removed, sensation and intelligence are immediately restored. In concussion, the insensible state is of short duration, and during its continuance the body is generally cold, and the pulse feeble and intermitting. Afterward the skin is hotter than usual and respiration more frequent; the former often

Faint, illegible handwriting on a lined page, possibly bleed-through from the reverse side.

intermits, and the latter has not the stertor of apoplexy: The pupil of the eye is not dilated but rather contracted. The countenance expresses pain or uneasiness, and vomiting occasionally takes place. The state of the patient is like that of a heavy and uncomfortable sleep; yet being roused, signs, even of intelligence appear. But as concussion happens in very different degrees, even "from the light stunning of an inconsiderable blow, to the complete disorganization which annihilates at once the power of motion and every spark of life," it would be a serious task to enumerate the variety of symptoms that accompany the different grades of injury that follow a concussion of the brain.

Stupor decreases in the same ratio that sickness, increased pulsation, respiration and other symptoms indicating inflammation of the brain come on, unless the injury be of such extent as effectually to preclude the return of any sign of sensation.

Delirium after stupor is a favourable sign, and shows that the vascular action is begun and the oppression at an end unless accompanied with dilated pupil and paralysis of the side - these indicate

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

imminent danger. When the injury received merely produces a stunning followed by quickness of the pulse, some pain in the head, dizziness and sickness at the stomach, it may be relieved by cathartics, yet even in such a case, the patient should be carefully attended to, as dangerous consequences sometimes happen, when least expected. A small injury received on the head may produce inflammation of the membranes.

If inflammation come on during the insensibility of concussion, it is marked by increased pulse; flushing of the face; restlessness; the warmth more diffused; he feels when pinched, but still is stupid and should be diligently watched. If he survives and becomes sensible he resembles an intoxicated person. Sometimes he has a morose expression: the countenance and eye inflamed; contracted pupils; rapid pulse; convulsions and cord like tension around the temples?

In such a case, means proportioned to the urgency of the symptoms, should be resorted to, to subdue the irritation of the brain.

The following case was treated by Dr Macgill and came under my observation in the winter of forty-four:

A limb having broken off a tree that a wood-chopper was falling, in its descent, struck him upon the right parietal bone between the temporal ridge and sagittal

The first thing I noticed when I stepped out
 of the car, the fresh air felt like a
 relief. The humidity was not sticky, but
 comforting. I had heard that the weather
 was perfect, and it lived up to the hype.
 The city was bustling with life, and the
 energy was contagious. I had come to
 the right place at the right time. The
 people were friendly and welcoming, and
 the food was delicious. I had found
 what I needed. The humidity was just
 what the doctor ordered. I had come
 to the right place at the right time.
 The humidity was just what I needed.
 I had found what I needed. The
 humidity was just what the doctor
 ordered. I had come to the right
 place at the right time. The humidity
 was just what I needed. I had found
 what I needed. The humidity was just
 what the doctor ordered. I had come
 to the right place at the right time.
 The humidity was just what I needed.

suture, slightly dividing the integuments and prostrating and rendering him insensible. A sheet having been procured, he was carried home in it, and a Physician sent for. The Doctor reached the place in about two hours after the accident occurred, and having made a crucial incision through the integuments found there was no fracture. The patient still continued in a state of stupor and a cup of coffee was given him, but owing to sympathy between it and the stomach, it was thrown up. As soon as a reaction took place he was bled and a purgative administered, but with the same result as with the coffee. After which injections were ordered and cold applications to the head. The patient remained restless through the night but still stupid. The next day he was more rational but totally unconscious of what had happened the day before, supposing he had been injured by the kick of a horse. As the stupor lessened, he complained more of the pain in his head. Bleeding was repeated, cold applications continued, his bowels kept open and a low diet persevered in, and in 8 or 10 days he was entirely relieved.

Treatment of concussion.

Bleeding after reaction has taken place, a continuance of which must depend upon the extent of the injury, the violence

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

of the symptoms and the constitution of the patient. Purgatives with low diet. Cold applications to the head - after benefit from these, blisters will be found advantageous. An elevated position of the head during the whole treatment, is said to contribute towards the prevention and removal of inflammatory action.

Cases requiring the use of the Trephine &c.

The object the surgeon has in view in applying the Trephine, is either to make an opening for the discharge of extravasated blood, or matter, or for the introduction of the elevator, when there is not space to pass it between the fragments of bone, so as to restore the depressed portion to its natural position, as well as to make way for removing the spicule that may have been driven in by the force of the blow that caused the fracture, always keeping in mind that the symptoms call for the operation, and not the mere fracture.

The symptoms that indicate extravasation of blood, are
 "oppression, somnolency, a heavy pausing pulse, a dilated pupil and palsy of one side." When the patient has stupor, face pale and extremities cold, quick and

of the system and the condition of the labor
the first and most important is the fact
that the laborer is not only a
member of the labor force but also
a member of the community and
therefore has a right to be heard
in the management of the
laborer's interests.

It is necessary to have a
clear understanding of the
laborer's position in the
economy and in the
community. The laborer
is not only a member of
the labor force but also
a member of the community
and therefore has a right
to be heard in the
management of the
laborer's interests.

fluttering pulse, with palsy on one side, or slight convulsions, the case is said to be hopeless, but that it is still the duty of the surgeon to Trephine.

If there be evident symptoms of pressure upon the brain, it is necessary to operate, whether the skull be fractured or not, and if the skull be fractured and no dangerous symptoms follow, an operation is not considered requisite, but cases of this description require great experience and a discriminating judgement in the surgeon to determine what course to adopt, as fractures sometimes happen without any evidence of being serious at the time, which have eventually terminated in inflammation of the brain or its membranes, and might have been prevented by a timely operation. As the pericranium will separate from the bone and the external table of the skull perish when matter has collected on the diploe, a portion of the external table must be removed, so as to discharge it, or fatal consequences will be the result. It has been said by high authority, "that all punctured wounds should be trepanned." The reasons given for this rule, are, the impossibility of ascertaining to what depth the instrument inflicting the wound may have punctured the brain;

in what degree or form the bone, especially the inner table may be fractured, that blood is often extravasated, and speckles often found sticking in the dura mater, or in the sinuses, and that carries is, in this form of fracture almost inevitable. - The direction for operating in such a case is to place the centre-pin of the instrument as near the centre of the fracture as its irregularities will allow in order to save the sound bone. - I give the following case, that came under the care of my preceptor ^{D.M.}, not so much as an exception to the above rule, as to show to what extent the brain may be injured without effecting the rationality of the mind.

A little girl in approaching the place where marksmen were shooting at a target, received a rifle ball about an inch above the right superciliary ridge, she was not knocked down, nor did she complain of pain, and was able to sit up until the sixth day, being perfectly rational up to that time. - On the sixth day the fever came on, and she died on the seventh. - On dissection, the ball was found to have passed diagonally about two inches through the right hemisphere of the brain, and thence into the left hemisphere, stopping within an inch of the meatus auditorius

internus. With a full knowledge of all the circumstances attending this hopeless case, would it not have been an act of useless cruelty to have tortured the girl with an operation?

When the os frontis is fractured, so as to call for an operation, great caution must be used because of the inequality of its inner table. Owing to the prominence of the spine of the os frontis a full circle can not be cut out without wounding the dura mater with the teeth of the saw, as the inner table will be divided before the projecting spine is cut through; nor can you safely apply the trephine nearer to the superciliary ridge than within half an inch of it without risk of injuring the orbit. The practice in such a case, is to employ two trephines, a large one for the outer portion of the bone, and a smaller one for the inner, as a single trephine cannot be made to work perpendicularly against the inner table, because of the unequal form of the sinus. In applying the trephine to the os occipitis when fractured care must be observed because of its unevenness lest the longitudinal and lateral sinuses be wounded. To obviate this danger, there are two small spaces on each side of the groove for the longitudinal sinus, where the trepan may be safely applied.

If there be fracture between the transverse ridge and foramen magnum and pressure upon the cerebellum, the muscle may be divided and an operation performed for the removal of the pressure, otherwise it will be fatal - Whilst the pericranium is found to be undetached from the course of a suture, it is always found loose and detached from that of a fracture;

Besides this mode of discriminating between a suture and a fracture, the edges of the bone in the latter always seems rough to the probe or finger.

If with a fracture the scalp is wounded you can enlarge it or change its form so as to apply the trephine to most advantage.

If the integuments remain entire, make an incision in the form of the letter D and raise the rounded portion from the bone, which being turned back will serve, after fixed the centre pin upon the bone, as a guide for the saw until the circle is cut deep enough to retain it there, when to prevent injury to the dura mater the pin must be withdrawn - Remove and brush the saw from time to time to free the teeth from dust and examine often and carefully with the probe whether you are nearly through, lest inadvertently you cut into the dura mater or brain.

The first of these is the fact that the
 system has been in operation for a
 long time and has proved itself to be
 a very successful one. It is the
 result of a long and careful study
 of the subject and is based on the
 most reliable information available.
 It is a system which has been
 tried and tested in many different
 parts of the world and has been
 found to be one of the most
 effective and economical methods
 of carrying out the work of the
 office. It is a system which is
 simple and easy to understand and
 which can be put into operation
 at once. It is a system which is
 based on the most reliable
 information available and which
 has been tried and tested in
 many different parts of the world.
 It is a system which is simple
 and easy to understand and which
 can be put into operation at once.
 It is a system which is based on
 the most reliable information
 available and which has been
 tried and tested in many
 different parts of the world.

Should a portion of the bone be separated whilst another portion remains undivided the saw must be discontinued, and the undivided portion detached with the forceps and the projecting edges of the bone smoothed with the lenticular to prevent irritation of the rising dura mater. The circular portion of bone must be prised up by employing two levers, one on each side; for if you use but one you raise up one side of the bone, whilst you depress the other.

If the pressure from the surface of the bone is not removed by one perforation, the operation must be repeated until it is, or the desired object will not be obtained. If any large arteries are divided during the operation that cannot be compressed, they may be taken up by the tenaculum or needle.

Should the dura mater be forced into the opening by effused blood between it and the brain, the membrane may be cautiously opened and the blood evacuated. It is said that the operation does not generally succeed when this is necessary, but that it is the only chance the patient has.

In dressing the wound the integuments should be

The first part of the paper is devoted to a general
 consideration of the subject, and is intended to
 show the necessity of a more liberal policy
 in the treatment of the poor, and the
 advantages of a more liberal system of
 relief. The second part of the paper is
 devoted to a consideration of the various
 plans which have been proposed for the
 relief of the poor, and a comparison of
 their merits and demerits. The third part
 of the paper is devoted to a consideration
 of the various causes which give rise to
 poverty, and the means of preventing
 its increase. The fourth part of the
 paper is devoted to a consideration of
 the various means of relieving the
 poor, and the advantages of a more
 liberal system of relief. The fifth part
 of the paper is devoted to a consideration
 of the various causes which give rise to
 poverty, and the means of preventing
 its increase. The sixth part of the
 paper is devoted to a consideration of
 the various means of relieving the
 poor, and the advantages of a more
 liberal system of relief. The seventh part
 of the paper is devoted to a consideration
 of the various causes which give rise to
 poverty, and the means of preventing
 its increase. The eighth part of the
 paper is devoted to a consideration of
 the various means of relieving the
 poor, and the advantages of a more
 liberal system of relief. The ninth part
 of the paper is devoted to a consideration
 of the various causes which give rise to
 poverty, and the means of preventing
 its increase. The tenth part of the
 paper is devoted to a consideration of
 the various means of relieving the
 poor, and the advantages of a more
 liberal system of relief.

laid down, if it can be done, and the compres and roller lightly applied, so as to prevent the dura mater from pressing against the edges of the bone, the result of which would be ulceration and then fungus.

Appropriate means to prevent or subdue inflammation of the brain must be carefully and judiciously attended to, always recollecting to have the patient placed with his head raised high, and kept quiet and free from all exciting causes.

Fungus, or Hernia cerebri.

Authors describe several varieties of Hernia cerebri, one of which occurs in infants before complete ossification of the cranium, and is soft and round with a pulsation similar to that of the arteries, and covered by the integuments—gentle pressure on the tumour is the remedy—

Another species of encephalocele is the consequence of congenital deficiency of a portion of the cranium and scalp, which may be regarded as a malformation—The infant in this case is still born, or survives but a short time—

The fungus that follows after the destruction of a part of the skull by disease, or the operation of Trephining is of

but even if it can be done, the receipt of such calls
 might appear as a hindrance to the more useful
 things against the view of the world, the result of which
 should be a liberation and the purpose
 of the whole means to prevent or hinder inflammation
 the brain must be carefully and judiciously
 to always, resulting to have the patient
 placed with his head raised and
 feet and feet from all exciting causes.

Parapneumonia, or Pleurisy.

The pleura is a serous membrane which covers the
 surface of the lungs and the inner surface of the
 thoracic cavity. It is composed of two layers, the
 parietal and the visceral. The parietal layer is
 attached to the chest wall, and the visceral layer
 is attached to the lung. The space between the
 two layers is the pleural cavity, which contains a
 small amount of fluid. The fluid acts as a
 lubricant, allowing the lungs to expand and
 contract without friction. Inflammation of the
 pleura is called pleurisy. It is characterized by
 sharp pain, which is usually worse on the
 affected side. The pain is often described as
 a stabbing or tearing pain. It is usually
 accompanied by a cough and a fever. The
 lungs themselves are usually normal in size
 and position. The fluid in the pleural cavity
 is usually clear and colorless. In some cases,
 it may become cloudy or bloody. The
 treatment of pleurisy is usually supportive,
 consisting of rest, pain relief, and
 antibiotics if the infection is bacterial.

much more frequent occurrence than either of the foregoing kinds. This tumour generally rises a few days after an operation, making its way through the dura mater and extending through the opening of the skull. The symptoms produced by this protrusion are similar to those of compression of the brain, and always considered dangerous.

Mr Abernethy's opinion appears to be, that two kinds of protrusions succeed to exposure and irritation of the brain - the one formed of coagulum - the other a vascular fungus, and that the former may be distinguished from the latter by the rapidity of its growth. Other eminent surgeons, after having cut a portion of the fungus off, have found it to consist both of the cortical and medullary substance of the brain and the exterior to be a layer of coagulated blood.

Whatever the consistency of the tumour may be, reason seems to indicate the necessity of repressing its increase by external gentle pressure, so as to give that support to the brain which it had hitherto received from the dura mater and bone.

Light dressing, gentle pressure, "a removal of the protruding mass with the scalpel" when it is so great as to endanger the life of the patient, and bleeding to prevent or subdue inflammation of the brain seem to be the most

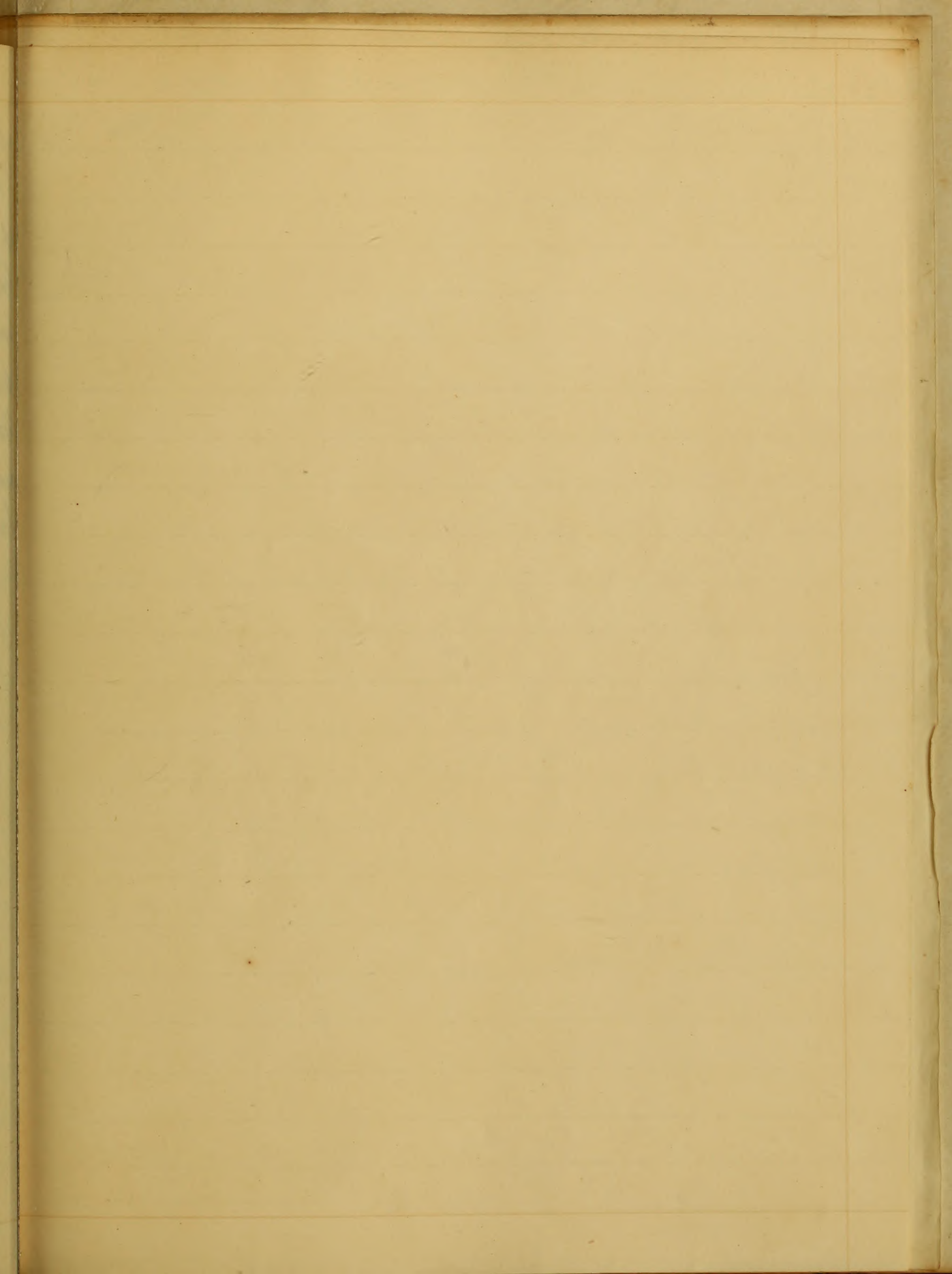
much more frequent occurrence than either of the foregoing kinds
 This tumor generally rises a forehead or to an operation, making
 it very difficult the more matter and extending through the
 length of the skull. The operation consists of the following
 a removal of the mass of matter of the brain and always
 a removal of the tumor
 The operation consists of the following
 a removal of the tumor and a removal of the brain - the more
 the more of operation. The other is a removal of the tumor and the
 a removal of the tumor from the latter of the
 a removal of the tumor. This is a removal of the tumor
 a removal of the tumor of the tumor of the tumor of the tumor
 a removal of the tumor and a removal of the tumor of the tumor
 a removal of the tumor to be a tumor of the tumor of the tumor
 a removal of the tumor of the tumor may be removed from
 a removal of the tumor of the tumor as it is to be removed from
 the tumor or in the one that is subject to the tumor and
 a removal of the tumor from the tumor and the tumor
 a removal of the tumor, the tumor, a removal of the tumor
 a removal of the tumor, which is a removal of the tumor
 a removal of the tumor and a removal of the tumor of the tumor
 a removal of the tumor of the tumor and a removal of the tumor

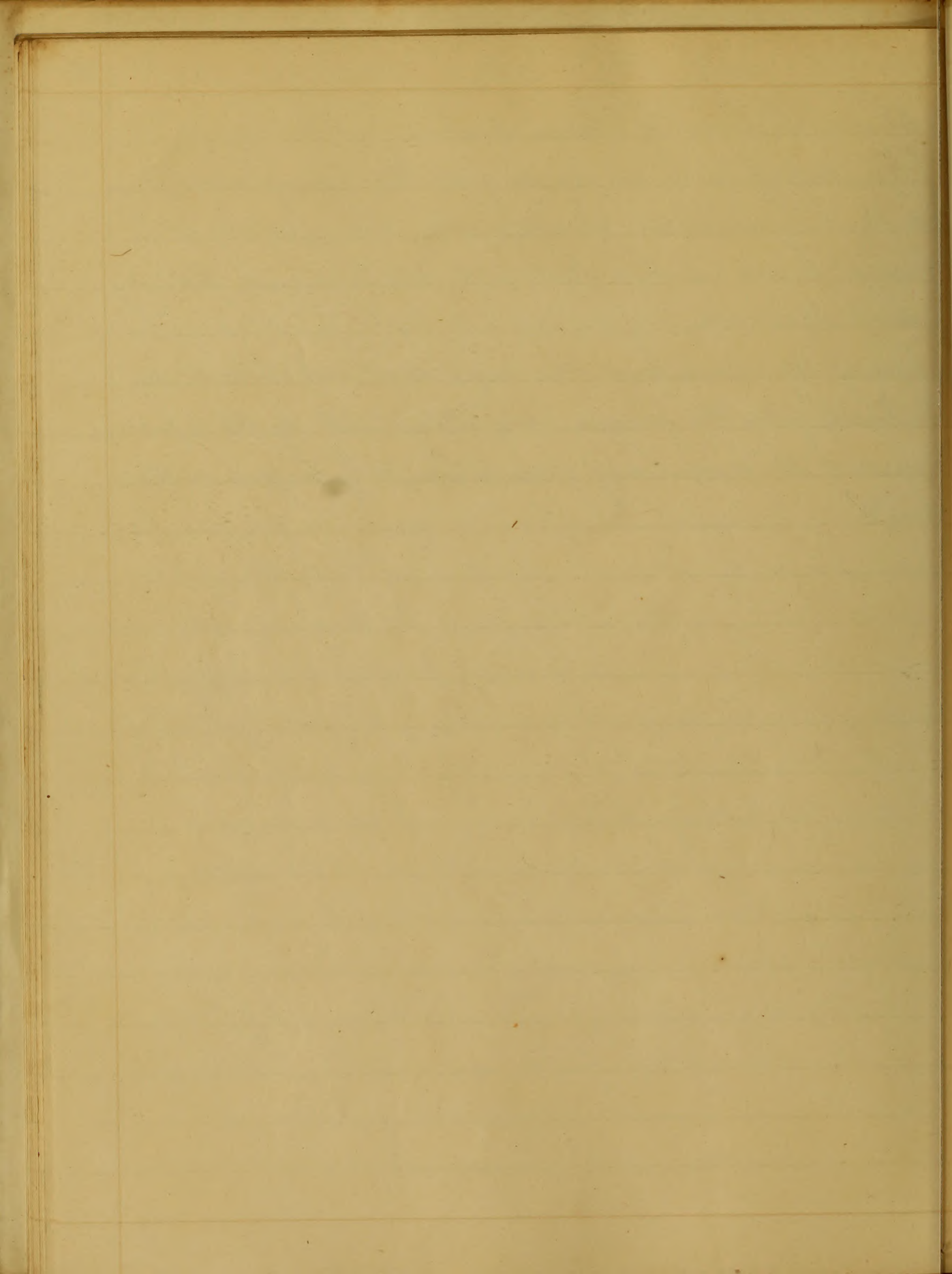
approved treatment of *Heimia borbic*.

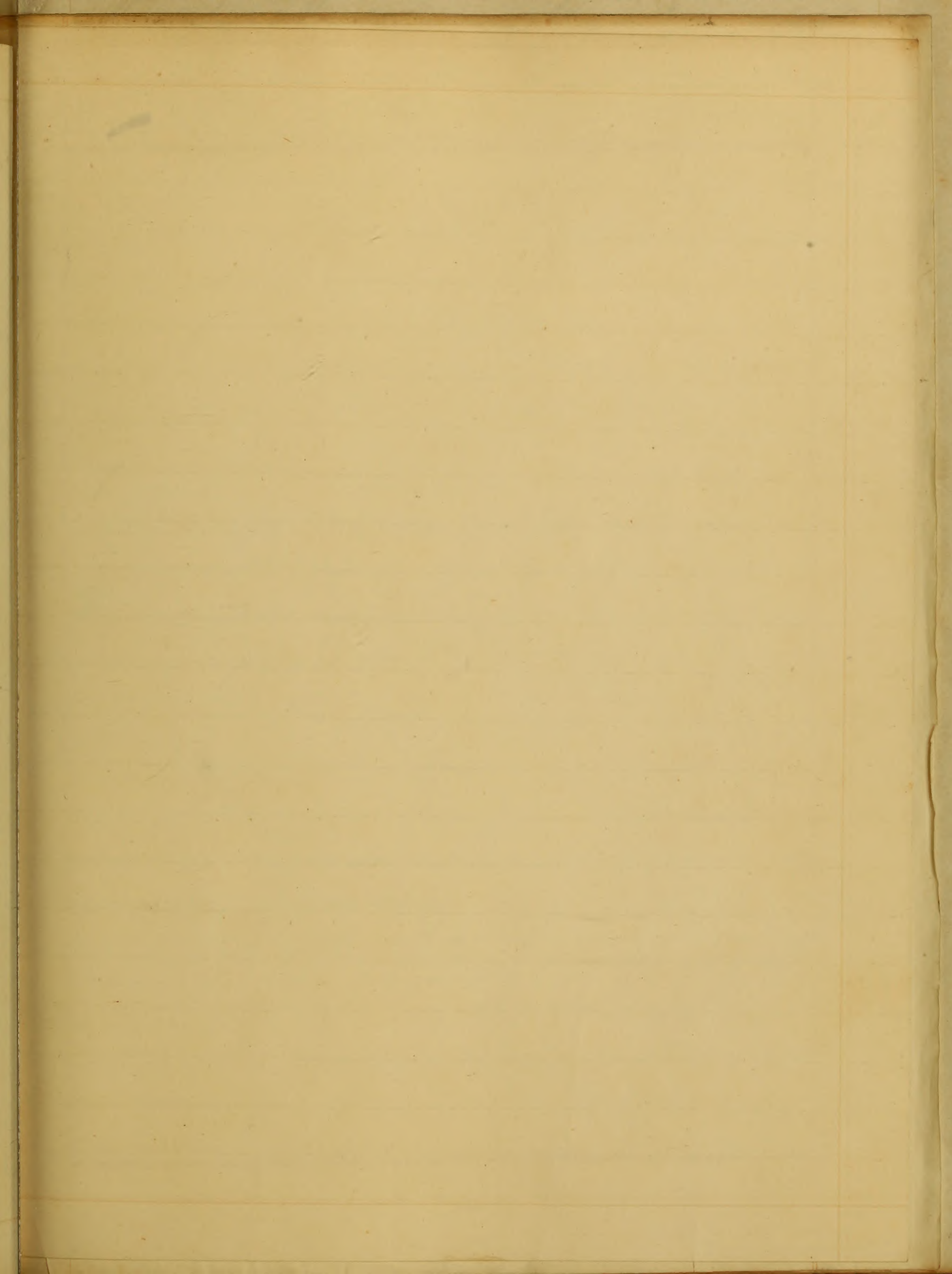
The compress must be placed upon the tumour and retained there by adhesive plaster, or other means, until it is brought down upon a level with the bone and the integuments heal over.

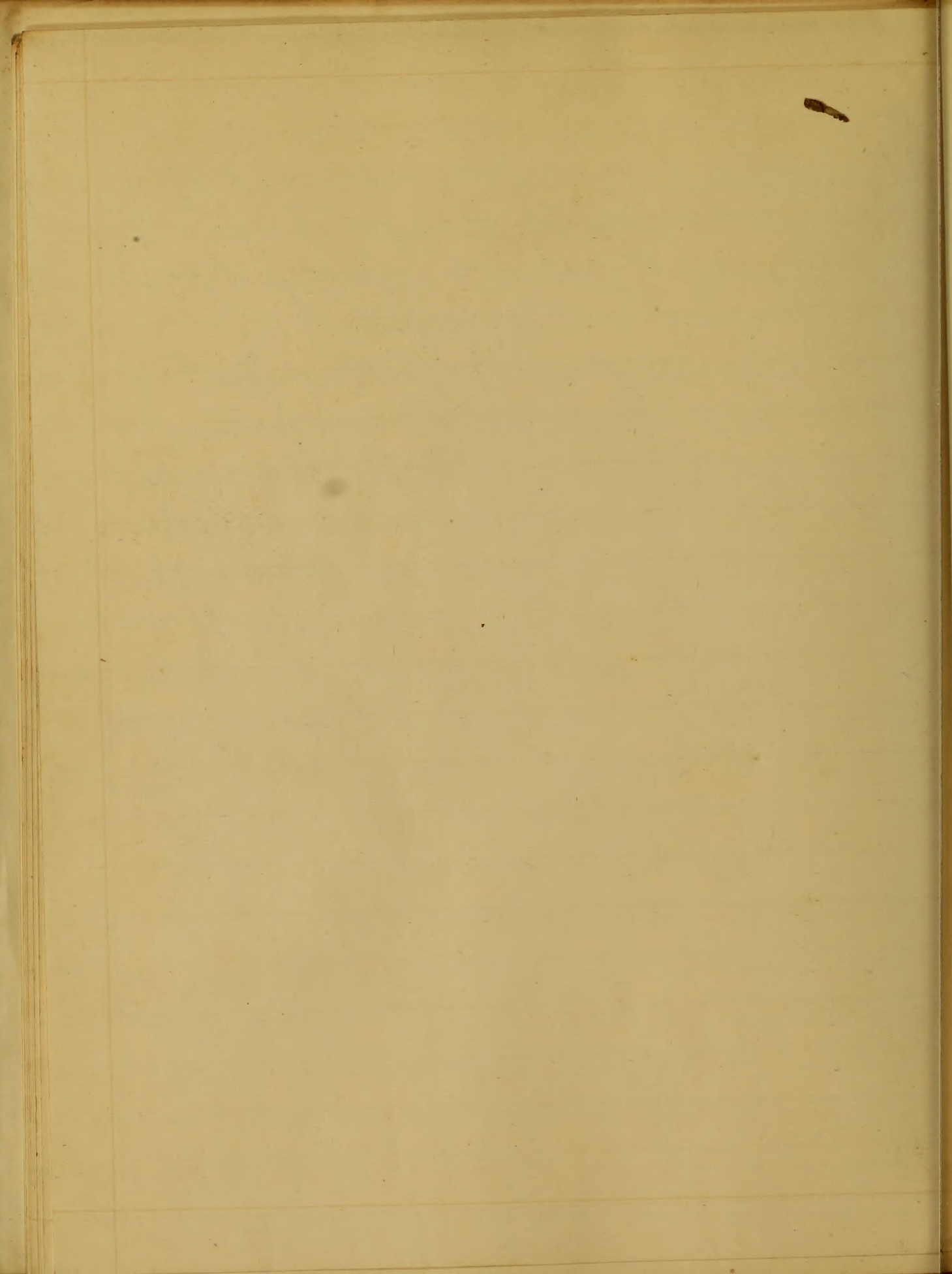
Cases of this disease have been known to get well without any treatment, "from the fungus being strangulated by the rapid increase of the surrounding granulations, or by pressure of the bone."

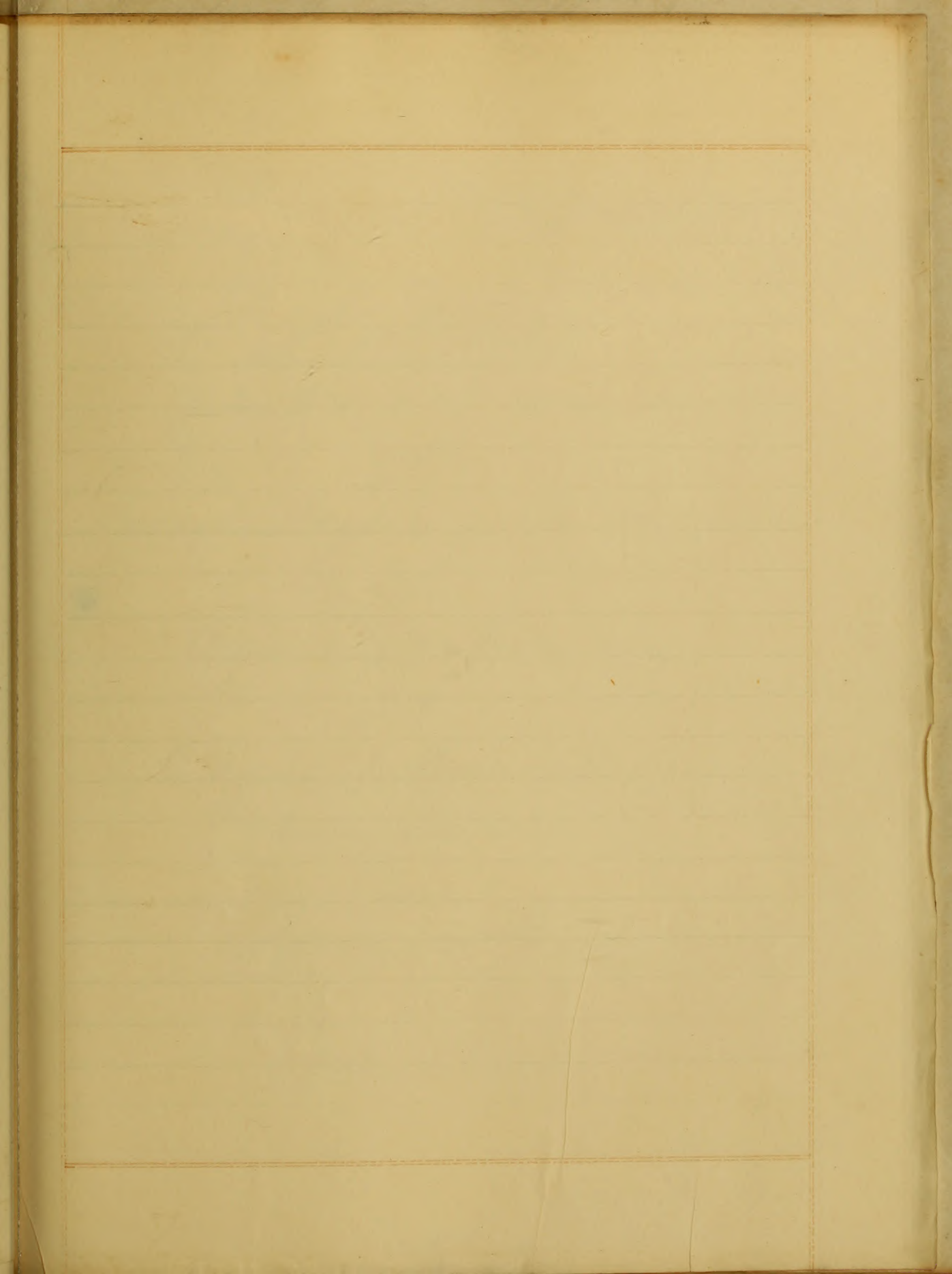
Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to fading and bleed-through.

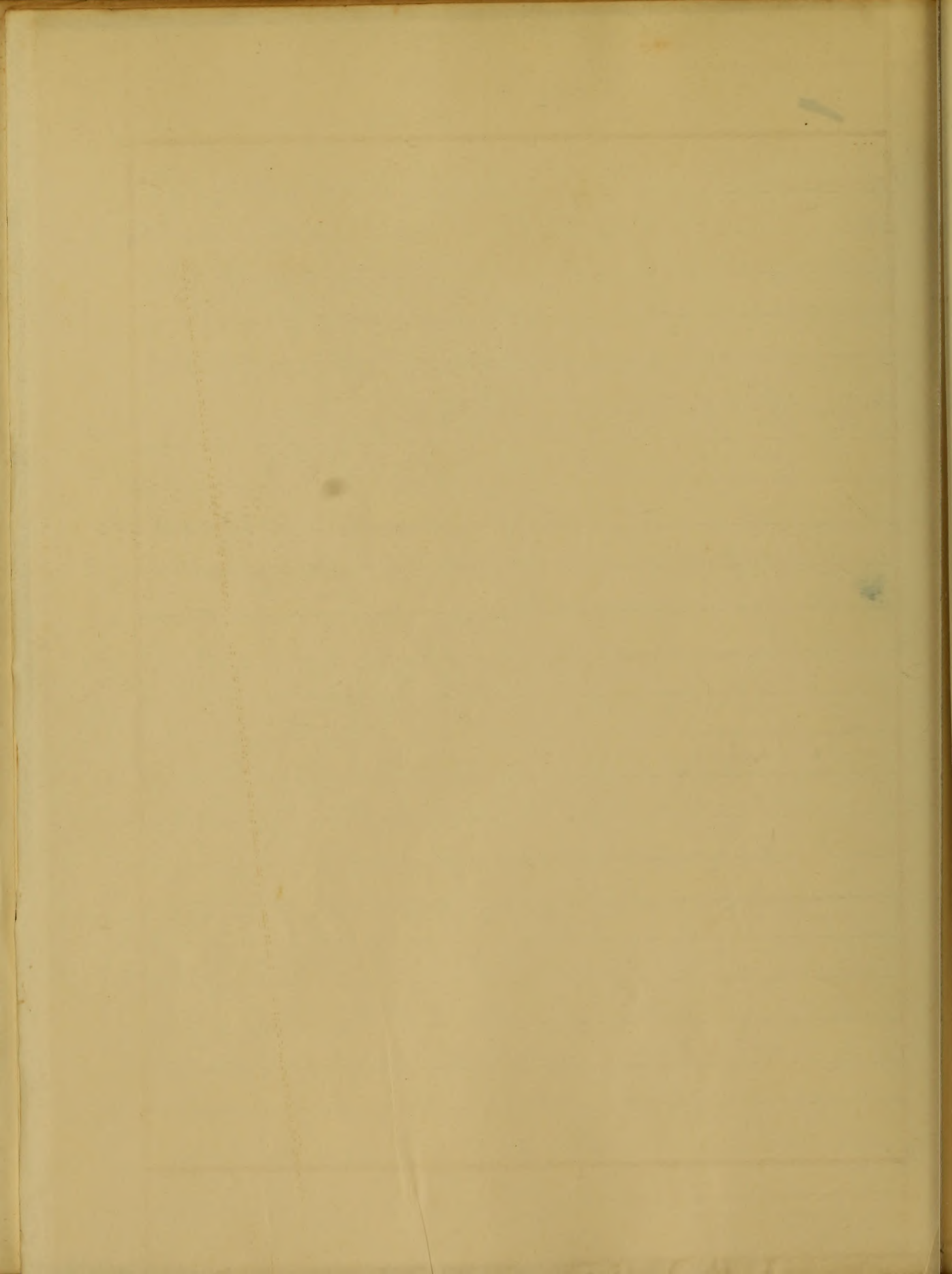












1840

Account

of the

Proceedings of the

General Assembly

of the

State of

Virginia

1840

An
Inaugural Dissertation

on
Rubeola

Submitted to the Examinations

of the

Provost, Regents and Faculty of Physic

of the

University of Maryland

for the

Degree of Doctor of Medicine

Session of 1844 & 45

by

German Wignan

of
Baltimore

General Report of the

Committee

of the

General Report of the

of the

Committee of the

of the

General Report of the

of the

Committee of the

of the

Morbilli Rubiola Measles

General observations. The terms morbilli and rubiola are used as mere synonymia by the American, English and French practitioners, but the German writers generally employ them to designate two distinct diseases - appropriating the former term to the present affection, and the latter to a different though somewhat similar complaint (roethlen) described by Willar under the name of roseola

The contagiousness of measles has by some been denied, Among other circumstances it has been stated that the disease can never be traced from house to house, or from street to street, as may frequently be done in small pox or scarlatina; and that its appearance is generally simultaneous in several individuals, - both of which facts are opposed to the notion of its being

White ...

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

propagated by contagion. But this with every other argument of the kind is fully met by the well established truth, that the malady may be communicated by inoculation. Dr Home succeeded in verifying the fact in a number of instances; and more recent experience has fully established the fact of morbillious inoculation.

The contagion of measles does not seem to be so active or powerful as that of small pox. During the greatest prevalence of the disease, many individuals, entirely escape infection although exposed to its full influence; and it is by no means infrequent to find in the same family a few affected and the rest totally unaffected by the malady. It is difficult to say at what period of its progress measles become infectious. Many believe it incapable of communicating

itself until the period of the eruption, but it would seem, from a few well attested cases on record, that the disease may acquire an infectious power a day or two before this event.

Measles, like small pox, rarely affect the same individual twice; and indeed a second attack of the former, would seem less frequent than of the latter complaint. After a careful observation of more than twenty years, Willan declares that he never met with a second attack of febrile rubella. Home mentions a singular instance, in which enlargement of some of the lymphatic glands followed an attack of measles. About six months having elapsed, the glandular swelling subsided, and the patient became a second time affected with the measles.

Measles rarely occurs sporadically; but when

step under the point of the suspension,
but it would seem, from a few cases
that have been noticed, that the disease
requires a confinement, even a day or two
before this time. In some cases, the
disease is attended with a great part, nearly equal
to the same extent, but in some, and in others,
or even when of the former, it is not
so frequent than in the latter case.
After a careful observation of many cases, I
found, that it is attended with a great part, and
in some, a total loss of power. In some
cases, a singular feature of the disease, is
that of some of the symptoms, which
are attended with success. About six months
ago, I had a patient, who was confined, and
the patient became a little more affected,
with the disease.
The patient was very much affected, but was

they appear as before mentioned many individuals usually become affected with them at the same time. As in all other epidemic diseases, the general course and phenomena of this complaint are often strikingly modified; and systematic writers have therefore, divided it into several varieties, according to the regularity or irregularity of its symptoms, the nature of the attending fever and the character and violence of the local affections with which it may be complicated.

According to the observations of some, morbillous fever occurs without any exanthematous affection. It certainly is not so common during the prevalence of epidemic measles to meet with fevers, attended by the usual cutaneous symptoms of the disease, but unmarked by its peculiar eruptions. Richter observes

They appear as before mentioned, many in
the same manner, become affected with
them at the same time. It is all the
same disease, the same cause and
phenomena of the complaint are often
 strikingly similar, and it is not
 rare to have the same disease in
 children, according to the age, or in
 those of different ages, the nature of the
 fever and the disease are various of the
 local affections with which it may be
 associated.

The nature of the affection of the
 disease, however, is not without any
 local affection of the system, and
 during the generation of the disease
 it is not without some affection of the
 parts adjacent to the disease, but these
 of the nature of the affection.

that persons affected by these fevers, are generally exempt from the disease during the subsequent progress of the epidemic.

Sometimes the measles exantheme takes place without any fever. The German writers Vogel & ~~Stank~~^{de} describe this modification of the disease under the name of false measles corresponding to the rubeola sine catarrho of Willan and the rubeola sine febre of others.

It is characterized by a regular measles rash, without fever, catarrh or ophthalmia. It does not take away the susceptibility of the system to a subsequent invasion of the febrile rubeola.

An interval of many months even two years has been observed between this variety and the febrile rubeola; but the latter frequently takes place three or four days after the non febrile eruption (Bateman)

Peculiar atmospheric constitution is

erts considerable influence over this
 disease, for at one period it will be so
 light as scarcely to require any medical
 attention; at another it will assume a
 highly aggravated form; in a third period
 it may take place ~~from~~ under every grade
 of violence, from the lightest to the most
 malignant and in a fourth it will hold a
 middle course between the mildest and the
 most dangerous forms of the malady. (Armstrong)

On the whole the regular and moderate
 attacks are infinitely more frequent than
 the violent and malignant ones.

Measles appear likewise to be influenced
 decidedly by constitutional habit or idiosyncrasy. Hence it is that we sometimes
 meet with the disease under all its grades
 of intensity in children of the same family.
 In general measles are apt to be more regular

[The text on this page is extremely faint and illegible due to fading or bleed-through from the reverse side. It appears to be a continuous block of handwritten text.]

and mild during the warm and equable than the cold and variable seasons.

The time intervening between the first impression of the rubellous contagion and the actual commencement of the resulting disease varies from a few days to two and even three weeks; but the period of incubation, generally, is from five to seven days. In nearly all the cases inoculated by Howe the disease commenced about the seventh day from the insertion of the virus.

Symptoms of the Eruptive Fever The initial symptoms of this complaint do not differ from those, which usually mark the invasion of catarrhal fever. Transient flushes of heat, alternating with faint creeping chills; slight redness and tenderness of the eyes, with an increased secretion of tears;

8

Cough and sneezing, with a watery discharge from the nostrils, are generally among the first symptoms of morbillious fever. The cough in the beginning is dry and harsh attended by some degree of soreness in the fauces. The stomach is apt to become quite irritable ^{or about} on the third day, occasioning considerable nausea and vomiting, and where the febrile symptoms are aggravated, slight delirium may occur in the evening of the same day. The fever is generally a marked synocha, as indicated by the state of the skin and pulse. The exantheme generally makes its appearance between the third and fifth days. This event, in cases of violent nature ~~is~~ ^{is} sometimes preceded for a few hours, by more or less coma; and in small children convulsions are by no means uncommon at this period. The eruption comes

out first on the forehead, chin, nose and cheeks, and then on the neck, breast body and extremities successively. It consists of small, red spots, apparently papular and resembling flea bites. They soon enlarge, and, as their number increases run into each other, forming larger patches of an irregular or semilunar shape; whilst the skin in the intermediate spaces retains its natural colour. Some of the measles exhibit a small vesicle in the centre on the first day. The eruption is not confined to the surface of the body; red patches appear on the gums extend to the tonsils & would and according to Frank are visible on the tongue. The eruption fades away in the same progressive manner in which it came out; so that by the eighth day from the commencement of the fever, it begins to

to disappear from the back of the hands, where it is wont to remain longest. On the succeeding day the exantheme acquires a faint yellowish hue. Desquamation now commences on the face and is completed over the whole body by the tenth or eleventh day.

During the subsidence of the eruption, the supervention of more or less diarrhoea is by no means infrequent; and when not violent it almost always meliorates the general and local symptoms. Occasionally a copious diarrhoea comes on just before the appearance of the rash. As it tends to interfere with the regular course of the exantheme, and to occasion a retrocession, it should be regarded as an unfavorable occurrence.

The aspect, under which this disease

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
 various tribes and their customs and manners.
 The third part is a history of the country from
 the earliest times to the present day.
 The fourth part is a description of the
 natural resources and the various productions
 of the soil. The fifth part is a description of the
 various arts and manufactures of the country.
 The sixth part is a description of the
 various religions and sects which prevail
 in the country. The seventh part is a
 description of the various languages and
 dialects which are spoken in the country.
 The eighth part is a description of the
 various customs and manners which prevail
 in the country. The ninth part is a
 description of the various laws and
 regulations which are in force in the
 country. The tenth part is a description
 of the various sciences and arts which
 are cultivated in the country. The
 eleventh part is a description of the
 various trades and professions which
 are exercised in the country. The
 twelfth part is a description of the
 various military and naval forces which
 are maintained in the country. The
 thirteenth part is a description of the
 various public buildings and works which
 are erected in the country. The
 fourteenth part is a description of the
 various public institutions and societies
 which are established in the country. The
 fifteenth part is a description of the
 various public offices and departments
 which are instituted in the country. The
 sixteenth part is a description of the
 various public revenues and taxes which
 are levied in the country. The
 seventeenth part is a description of the
 various public debts and loans which
 are contracted in the country. The
 eighteenth part is a description of the
 various public charities and hospitals
 which are founded in the country. The
 nineteenth part is a description of the
 various public works and improvements
 which are carried on in the country. The
 twentieth part is a description of the
 various public monuments and statues
 which are erected in the country. The
 twenty-first part is a description of the
 various public libraries and schools
 which are established in the country. The
 twenty-second part is a description of the
 various public gardens and parks which
 are laid out in the country. The
 twenty-third part is a description of the
 various public fairs and markets which
 are held in the country. The
 twenty-fourth part is a description of the
 various public games and sports which
 are practiced in the country. The
 twenty-fifth part is a description of the
 various public festivals and holidays
 which are celebrated in the country. The
 twenty-sixth part is a description of the
 various public processions and pageants
 which are performed in the country. The
 twenty-seventh part is a description of the
 various public spectacles and shows
 which are exhibited in the country. The
 twenty-eighth part is a description of the
 various public entertainments and amusements
 which are provided in the country. The
 twenty-ninth part is a description of the
 various public buildings and works which
 are erected in the country. The
 thirtieth part is a description of the
 various public institutions and societies
 which are established in the country.

has just been described is that which is generally assumed. It appears however, occasionally under various striking modifications. Sometimes it is attended by any serious complications in a majority of instances it manifests a considerable tendency to inflammation particularly of the eyes and respiratory organs, and occasionally reaction is sluggish and difficult. Hence according to Dr Armstrong we have three varieties of the disease the simple inflammatory and congestive. To these we may add the typhous and gastric modifications.

Synochal fever of a high grade is the characteristic of inflammatory measles. The pulse is hard, vigorous and accelerated, the skin dry and very hot, cephalalgia is

The first thing I observed in this world
 is a general confusion. It appears to me
 that, however much I may be able to see
 things, and to distinguish them, I do not
 understand of any one thing. I am
 in a constant state of confusion, and
 a constant feeling of being lost.
 I am not of the right age, and I am
 not of the right sex. I have never
 seen any thing like me before. I
 am not of the same kind as the
 creatures of the world. I am
different and I am
 there we may see the
 and yet we are different.
 I am not of the same kind as the
 creatures of the world. I am
 different and I am
 there we may see the
 and yet we are different.

severe, attended frequently with delirium through the night; the eyes are very red, the cough is harsh, violent & distressing, with little or no expectoration, and the respiration oppressed & frequently painful.

The exanthema for the most part appears early, & is usually of a vivid red. The diseases, that are particularly apt to supervene in this variety, are cynanche trachealis, pleuritis, peripneumonia, with bloody ex-
pectoration, bronchitis, cerebral inflammation and gastro-enteritis.

The malady in the congestive form is indicated by the ordinary forms of internal congestion. Reaction is tardy & imperfect sometimes wholly deficient. The eruption does not appear at all, or it comes out slowly on some parts of the body. If reaction be not induced, coma or stupor ~~or~~ in some

instances convulsions ensue. Young children & persons of a relaxed, delicate habit of body are particularly liable to this variety. Two cases of this kind were seen by Dr Armstrong; in which the patients died comatose & convulsed. Autopic examination revealed in both cases extensive engorgement of the lungs.

The peculiar symptoms of typhus fever, constitute the typhus, or as some have termed it, the malignant form of measles. It is a happy circumstance, that this variety of measles occurs so rarely, as it is always terribly malignant & fatal. Nevertheless, it has occasionally prevailed as an epidemic. Sir William Watson gives us the history of a putrid morbillous epidemic; but it may be doubted whether the affection he describes, was really measles or scarlatina, as the diseases were believed by him to be essentially

distance, however, from the point of view
 of a student, the distance is not only
 an interesting fact to the study of the
 form of the book, but also of the history
 in which the political and social conditions
 are met. The political and social conditions
 both have a certain relationship to the book
 The political conditions of the book are
 stated. The political conditions are
 of the most important form of the book. It is a
 happy circumstance that the society of
 readers seems to be very active and busy
 in the study of the book. It is a
 very interesting question as a question
 of the history of the book. It is a
 of a political and social nature, but it
 may be that it is the effect of the
 own study of the book or the effect of the
 conditions of the book to be seen.

the same.

Gastro intestinal irritation exerts a marked influence in some cases, giving rise to the gastric modification of measles. There is severe pain in the forehead, the tongue is brown; a sense of tension or fulness is often experienced in the epigastrium or short cutting pains disturb the bowels. Violent vomiting & purging sometimes occur before and immediately after the appearance of the rash, which is pale & often indistinct. The cough is short, tormenting & almost incessant. There is occasionally extreme restlessness, with much facilitation dyspnoea and an anxious expression of the countenance, particularly on assuming the erect attitude (Dr Armstrong).

Sequelae The tendency to irregular local determinations, observable throughout the whole course

of measles, is more especially manifest during the periods of desquamation & convalescence. Few if any diseases leave the system with so great a susceptibility to the hurtful influences of cold or atmospheric vicissitudes; & hence chiefly the frequent supervention of inflammatory & other affections during convalescence.

The most common sequelae of measles are pneumonia, bronchitis, croup, otitis, arachnitis, chronic ophthalmia & rheumatism. Tubercular action is not an infrequent result in phthisical habits. Measles are often followed by an scrofulous ophthalmia and tumors about the neck with other distempers of like character. Porriginous eruptions on the head, & serous ulcers behind the ears, also frequently occur; and in some instances, induration of the mesenteric glands & marasmus. Among the occasional consequences are herpes, boils on

of matter, a more extensive and useful study
the points of the present and future
also of any business which the system may
to great a one entitled to the highest
case of conduct and management
to be a subject of frequent discussion
especially in other respects being
the most common subjects of
management, the habits, the
the most important and valuable
which is not an insignificant number
of the most important subjects of
the present and future
with all the other branches of the
management of the
the most important subjects of
the present and future
with all the other branches of the
management of the

different parts of the body. discharges from the ears, & anasarcaous swellings.

Diagnosis The diagnosis between rubiola & scarlatina is at times attended with much difficulty. The careful observer however will always be able to draw a correct diagnosis between the two diseases, from the catarrhal symptoms accompanying measles & the peculiarity of its eruption.

The small vividly red spots, like fleabites; their union into irregular semilunar patches; & the natural color of the intermediate skin distinguishes the rubiculous exantheme from the large, irregular, more uniform & raspberry colored efflorescence of scarlatina.

In measles the rash is characterized by small red spots, blending with each other, and displaying central points more vivid than the coalescing margin so as to give a maculated

different parts of the day. The first part
 is the most important. The second part
 is the most interesting. The third part
 is the most useful. The fourth part
 is the most valuable. The fifth part
 is the most necessary. The sixth part
 is the most important. The seventh part
 is the most interesting. The eighth part
 is the most useful. The ninth part
 is the most valuable. The tenth part
 is the most necessary.

appearance to the skin. In the other affection the blush is more diffuse & uniform & the eruption consists of innumerable red points united together, resembling much the redness of a boiled lobster. The fourth day from the eruption of the fever, is the usual period of the manifestation of the measles rash, while in scarlatina it generally appears on the second & frequently on the first day.

Prognosis Measles when uninterrupted in its regular progress & uncomplicated with internal inflammation is not to be considered a dangerous malady. However violent in its simple character, provided it proceed regularly in its course the hazard is generally but little. Percival calculated that about one out of fifty cases of rubella terminated fatally; & in this proportion one half took place in subjects under two

apparatus. In the first. In the second
 from the first is most often a complete
 to the complete consists of an apparatus
 parts to which together, consisting with the
 of a tube in which the first part
 from the complete of the first, in the second
 portion of the apparatus of the second
 part, which is attached to a small opening
 in the second & frequently in the first part.
 Apparatus consists of an apparatus
 regular progress of an apparatus with in
 their explanation is not to be considered as
 a complete apparatus. However, in the
 its parts the apparatus is not to be
 regularly in the course of the apparatus
 which are the apparatus. Various apparatuses
 about one out of fifty cases of apparatus
 apparatuses, which in this apparatus
 the first part of the apparatus is not to be

years of age. Rubeculous epidemics, of terrible fatality have indeed been recorded, but owing to the imperfect diagnosis confounding small pox & scarlatina with it.

The sudden retrocession of the rash, either spontaneously or from violent purging, the application of cold or any other cause, is hazardous. It is an alarming incident when inflammation of the lung, - brain or trachea supervenes. Amongst the most fearful symptoms, are petechiae great muscular prostration & colliquative hemorrhages. In general nervous, debilitated & delicate subjects have more reason to fear danger than robust & healthy persons.

Treatment An active antiphlogistic treatment, where no internal local inflammations are present, is generally decidedly injudicious, even though considerable febrile excitement

should mark the eruptive fever. The eruption in this as in any other exanthematous affection, must be regarded, as an effort of the system to relieve itself from the noxious influence of some internal irritation by a critical or metastatic deposition on the surface the development of which is essentially to the safe & complete resolution of the disease; therefore if the fever is regular & uncomplicated with internal inflammation we should abstain from severe measures & employ a gentle remedial treatment. It is requisite in such cases to keep the bowels in a soluble condition by employing mild laxatives make ^{free} use of tepid diluent drinks & prescribe some of the gently stimulating diaphoretics, such as infusions of sage, elder blossoms, marjoram, balm or eupatorium purfoliatum. A high grade of

clear mark the original form. The up
 for in this case any other construction
 effecting must be rejected, as an effect
 of the system to reduce itself from the
 various influences of nature, and the
 by a series of modifications, which
 as the system the development of which
 is necessary to the case, a copy of the
 of the disease; therefore of the form a
 regular & unchangeable order, which is
 established, and should retain from
 these occurrences, except a fatal result
 treatment, it is a disease in such cases
 to say the least, in a certain number of
 symptoms, which leads to a fatal result
 which is a permanent one, and
 the most important part of the system
 of the system, the system, the system
 the system, the system, the system

of fever undoubtedly indicates the propriety of a moderate venesection. Small doses of antimonial Wine with sweet spirits, of nitre the saline effervescent draft, & the ordinary nitrous powder may be employed.

After the initial stage of oppression if no reaction should ensue & the face remain pale & sunken, the pulse feeble & the breathing heavy with great muscular prostration & torpidity of the sensorial powers we must endeavor promptly & decisively to obviate the internal congestion & arouse the action of the heart & arteries. If this be not effected, the eruption will not come out & fatal stupor & coma will ensue. It would seem a prudent method to impart warmth & vigor to the system by stimulating frictions sinapisms to the epigastrium & bottles filled with hot water

applied to different parts of the body & extremities. In addition to the the above means the carbonate of ammonia has proved very useful.

The disease is not so much benefited, by the exhibition of these stimulants, where the congestive state precedes the exantheme, as when the rash after appearing suddenly recedes. In cases of this kind with an irregular distribution of the animal temperature, a conjunction of camphor & opium is the appropriate remedy. with the use of anajacims stimulative frictions blisters & warmth to the surface. We should remember however that except in feeble subjects a moderate diarrhoea is rather beneficial. (Armstrong)

Inflammatory measles require prompt & decisive venesection both general &

applied to different parts of the body
 in the same manner. The effect is to the
 same. The coldness of the
 part is very rapid. The
 distance is not so much
 by the addition of the
 when the temperature of the
 is raised, as when the
 they gradually decrease. The
 time with a very thin
 if the amount of the
 if caught a sign is the
 things with the use of
 they find it difficult to
 surface, the water is
 that except a few
 the water is rather
 a sufficient amount
 a thin membrane

& local. Antimonial emetics have frequently an excellent effect where bronchitis & pneumonia has supervened

In the remediate management of measles vicissitudes of temperature must be especially guarded against. When the eruptive fever is very moderate and the patient of a feeble irritable habit the air of the sick chamber ought to be so regulated as to communicate a sensation of warmth & this is also requisite in congestive cases.

Stimulating drinks of whatever kind should be positively inhibited during convalescence & the diet should be light & unirritating.

There is occasionally dryness of the skin & a slightly febrile pulse after the appearance of the rash suitable remedies in these cases are the spir. mind. in union

with a small portion of sweet spirits
of nitre and of antimonial wine.

When pectoral symptoms continue
troublesome at this stage the mus. ammonia
with acet. scillae and antimony are among
our most efficient remedies.

• Tonics are almost invariably injurious
in convalescence from measles. If the
system is left in an exhausted but un-
irritated condition, a weak infusion
of serpentaria may be given; and
this with mild & nourishing diet
will soon restore health & vigor to
the debilitated frame.

Finis

with a small portion of the
 of the end of the
 The section appears to be
 The section is of the same
 with the other and contains
 no more than
 The section is almost
 The section is of the
 of the section is
 The section is of the
 The section is of the
 The section is of the

An Inaugural Dissertation

on

Sympathetic Inflammation.

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
Joseph H. Hill.

of
New Madrid Missouri.

February 1845

In response to the

of

of the Society of Friends

of the Society of Friends

of the Society of Friends

of the Society of Friends

of the Society of Friends

of the Society of Friends

of the Society of Friends

of the Society of Friends

of

of the Society of Friends

of the Society of Friends

of the Society of Friends

To

Richard Wilmot Hall, M. D.

Professor of obstetrics and medical jurisprudence,

in the

University of Maryland:

In admiration of his profound medical knowledge,
unwearied devotion in the cause of science;

and

In grateful acknowledgment of kindness,

This Dissertation

is respectfully dedicated

by his pupil

and obedient servant,

Joseph H. Hill.

Richard Threlkeld, M.D.

Professor of Medicine and Medical Jurisprudence

at the

University of Maryland

for admission of his personal medical knowledge

and services rendered in the case of

and

for proof of acknowledgment of knowledge

of the

is respectfully

begged

and obedient servant

Richard Threlkeld

Through the medium of the brain and nerves it appears evident that all sensible parts of the body sympathize with each other either in a general or particular manner.

The human body also considered as an organized whole is a very complicated system comprehending in itself a great variety of subordinate systems, organs and textures; and in the different states of health and disease these systems act and are reciprocally acted upon by each other: — no sooner therefore does any of these subordinate parts of the animal economy receive an injury or become affected with disease, than changes are induced in the general system corresponding in some degree to the nature, seat and extent of the local affection.

through the medium of the brain and nerves
it appears evident that all mental parts
of the body are regulated in the same
manner. The human body also contains an
organized system in every complicated system
corresponding in itself a great variety of
subordinate systems, organs, and systems,
and in the different states of health and
disease these systems act and are acted
upon by each other. In some
instances one part of these subordinate
parts of the animal economy may be
injured or become affected with disease,
then changes are induced in the general
system corresponding in some degree to
the nature, not the extent of the
local affection.

4

In many instances where these local affections are internal and of course concealed from our immediate observation; these constitutional changes are often the chief if not the only marks which precede to death and the dissection of the parts we have of the existence of internal local disease.

That every sensible part of the body, has a sympathy with the whole will, sufficiently appear from the following facts.

Cold water thrown on any part of the body that is warm produces a sudden contraction of the vessels of the integuments, and thereby frequently checks small hemorrhages. — The effluvia of certain substances when smelled produce upon some persons very pleasant effects, while others are equally unpleasantly affected;

by the same. The effects of melancholly stories, or shocking sights; are well known to us, and particularly felt by delicate persons. — By means of different musical sounds various passions may be excited or calmed and diseases have been cured.

The first effect produced by the introduction of the bougie is sickness, the second is a sympathetic affection of the heart, which, failing to propel the blood in due quantity to the brain, occasions cerebral affection; the patient becomes light headed, his face becomes pale, and his muscles are no longer capable of ~~supporting~~ ~~##~~ supporting the weight of the body, and down he drops.

When the stomach is in a sound state and digestion is properly performed, the

The first effect produced by the
application of the heat is the
expansion of the air, and the
consequent increase of volume.
The second effect is the
decrease of density, and the
consequent rise of the air.
The third effect is the
increase of the rate of
conduction, and the
consequent increase of heat.
The fourth effect is the
increase of the rate of
convection, and the
consequent increase of heat.
The fifth effect is the
increase of the rate of
radiation, and the
consequent increase of heat.

When the atmosphere is in a
state of equilibrium, the
rate of expansion is equal to
the rate of contraction, and
the rate of radiation is equal to
the rate of convection.

6

spirits are lively, and the body is tight and easy; but when that organ is out of order, a languor, debility, melancholly, and ~~at~~ watchfulness, or troublesome dreams, the ~~the~~ night-mare &c. are the consequences.

Greatfulfood, strong wine, or spirituous liquors, no sooner touch the stomach of one ready to faint from emptiness; than, they communicate new life and strength to the whole body; and this too instantaneous to allow of the supposition, that its nutritive parts (of the food) are taken up by the blood.

When the brain is wounded, inflamed, or otherwise injured, nearly every part of the body is liable to suffer, and vomiting, tremors, convulsions, palsies &c. often ensue.

Besides this general consent, which prevails throughout the whole body;

7
there is a particular and very remarkable sympathy between several of its organs, by means of which many operations are carried on in a sound state, and faint, convulsive motions, and other morbid symptoms are often produced in such parts as have no near connection with ~~each other~~ those that are immediately affected.

The following are some instances of this kind. — Wounds and contusions of the brain, generally occasion bilious vomiting. — Light and noise are offensive to the organs of sight and hearing in severe headache. — When one eye is affected with inflammation, cataract or gutta serena, the other is often soon after attacked with the like disease.

The effluvia of spirit of wine,

There is a fountain and very remarkable
property of the water of the fountain
whereof of which many experiments are made
in a small bottle, and from which
water, and other medicinal waters are
prepared as such for the use of
those who are troubled with the
stone.

•
The following are some instances of
the kind. The stone and calculus of
the bladder, generally occurs in
young men, who are usually
subject to the stone of night and during
the summer months. When the
stone is affected with inflammation, a
great degree of pain is felt in
the bladder, and the urine is
the appearance of a great quantity

inhaled through the nostrils, increase the derivation of the salival juice into the mouth, and sometimes stop a tickling cough.

Acrid substances applied to the olfactory nerves, bring the diaphragm, intercostal, and abdominal muscles into convulsive motions.

When the diaphragm is inflamed, the stomach, brain, and muscles of the face are affected by sympathy, as; appears from the delirium, vomiting, and risus sardonicus which attend this disease.

A disordered state of the stomach and intestines with wind or noxious humors lodged in them, will, sometimes so affect the brain as, to deprive one of their reason. — At other times, these same results will produce various other effects.

9

Inflammation of the liver is generally accompanied with vomiting and hiccough.

In suppuration of the liver, patients are affected with a numbness and debility of the right arm, thigh, and leg.

An irritation of the neck of the bladder or extremity of the rectum, may be the cause of a constant contraction of the diaphragm and abdominal muscles. — A stone or ulcer in the bladder is, attended with a sharp pain near the end of the urethra, especially after making water.

The uterus next to the brain has the most extensive sympathy; it is familiar to all to what degree of heat and pain

There is in the back and bowels about the time of menstruation, there are sufficient proofs of the consent between the uterus and several other parts of the body; but there is no part so much affected by the different states of the womb as the breasts; which, become more turgid before every appearance of the menses, and subside after the period is over.

The changes which happen to the breasts in time of pregnancy, and after delivery, are still more remarkable.

It is generally admitted that all the different systems, organs and textures which enter into the composition of the animal economy, are liable to be more or less sympathetically affected by the occurrence of local inflammation: — inflammation of the stomach and bowels is attended, in the beginning, with a

shivering of the whole body; and great coldness of the hands and feet.

If local inflammation is seated in any part of the small intestines the stomach through sympathy, may become as much diseased; as if it were itself primarily affected.

Strictures of the urethra have caused pursons symptoms similar to those of intermittent fever, and have frequently been mistaken for, and as frequently treated as a true intermittent fever by the profession.

The constitutional suffering, which takes place when vital organs are affected with inflammation, is explained by the term sympathy.

Diminished action in one organ leads to increased action in another, and any disorder of one important function, embarrasses all the others.

We are well aware of the fact, that the organs secondarily affected are diseased, in as

much as they are supplied with too little or too much blood; or, if the organs affected be excretory; something deleterious is retained in the blood, which poisons to a certain extent the stream of life, producing embarrassment in all other organs, although one may shew it more than another.

This shows very plainly the sympathy which exists between the different organs.

But I do not say that sympathy, in every instance, has that bearing on every organ that it appears to have at first view: — for when inflammation is seated in the lungs, the heart suffers from two causes; first, because the function of respiration is impeded and the changes produced on the blood in the lungs are not properly effected; and secondly, because the circulation through the lung is obstructed.

and as they are supplied with the letters in
and that, out of the paper offered to society,
a meeting is convened in relation to the same, and
persons are chosen to visit the members of the society,
being, and encouragement in all the papers through
the way, when it will be more than sufficient.

The above are the principles of the society,
which relate to the office of the society,
but I do not say that they are
very important, but that they are
upon that, it appears to be a great
error, for when the members are
in the house, the church is
two years, first because the
of reputation is important and the
fidelity in the church in the
not perfectly affected, and finally,
the constitution through the day.

This case sometimes is also reversed, the heart may be primarily affected; and there will be dyspnoea and cough, not from sympathy; but from an increased or diminished supply of arterial blood; and also by obstruction in the circulation.

Yet I believe that the nervous system is not idle all this time; and that it is intimately connected with the above cases.

Of the agent by virtue of which sympathies are developed we know nothing.

Physiologists are far from agreeing where to place this thing, we call sympathy; we have no very distinct intelligence relative to its nature: but on this account we are not to question its existence; for with equal propriety we might doubt the sensibility or irritability of the body;

This case sometimes is also nervous, the brain
may be primarily affected, and there will
be prostration and cough, not from sympathy; but
from an increased or diminished supply of
arterial blood, and also by disturbance in the
ventilation.

It is believed that the nervous system
is not able all the time; and that it is
intermittently connected with the other parts
of the great system of vessels
and that it is sometimes as a consequence
of sympathy or for some other reason
to place the thing we call sympathy.
we have many distinct instances
relative to the nature, but in the
we are not to question its existence, but
with equal facility we might say
the necessity or utility of the life.

since neither of the qualities of vital matter has been at all demonstrated.

Notwithstanding, this, we are persuaded of their existence, and also of the existence of sympathy. — Some ancient writers, and most of the modern authors, ascribe all the sympathies to the nervous system; it being the system most widely diffused in the animal economy; — the nervous system may establish sympathetic connection in two ways; first, the organs, between which the sympathies occur, communicating with each other through the ramifications of the same nerve; secondly, the sympathetic radiation terminating in the nervous center, whence it is reflected on one or several organs.

The individual who is irresistably compelled by his sensations, to believe that

some number of the quality of the matter be

him at all benighted.

As to the quantity, the more persons

of this nature, and the more of the nature of

quadrants. — Some ancient writers call the

of the modern authors, and the quadrants

to the modern system, it says the quadrants

most easily observed in the several systems

the modern system may be called quadrants

the construction in the quadrants, but the quadrants

than which the quadrants are more

meeting with each other through the quadrants

of the same nature, and the quadrants

quadrants and the quadrants in the

quadrants and the quadrants in the

in several systems.

The quadrants are in several systems

quadrants in several systems, and the quadrants

immediate dissolution is impending over him, although there may be no real cause of alarm, suffers all the mental agony that he could do, if the dreaded event were actually taking place.

The most severe local pain, unless it arises from some disease or injury, which threatens immediate destruction to life, is trifling and of easy endurance; compared with that undefined and indescrivable distress; which, in many cases, attend these sympathetic nervous affections.

In sympathetic inflammation, there will often be an excitement of the whole system, characterised by the following circumstances.

First, with regard to the sanguiferous system, we find that the pulse is increased

...the

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

... ..

in all its attributes; it is more strong, more full, more firm, and more frequent than usual.

The secretions are also greatly changed; the urine is scanty and high colored, the skin is dry and hot, the tongue is dry, and white; and the bowels have a tendency to costiveness.

The respiratory system also partakes of the general constitutional disorder.

The nervous system of course is much excited; as it is one of the principal actors on the stage; — the patient suffering from neurosis is vigilant, he sleeps little if at all; occasionally he dozes, as though he had forgotten, and then he wakes up agitated and alarmed; and the patient who is in this condition will be found with the pupils of his eyes much contracted.

Shivering is a very common symptom

of inflammation, it is generally imputed to an affection of the stomach; it is a symptom of suppuration which, is invariably preceded by inflammation.

I give the symptoms of inflammation both local and constitutional, believing that all inflammation is more or less sympathetically affected or, affects other parts through the aid of sympathy: there being such a universal sympathy, of parts throughout the whole organized system: — for examples we take the following — vomiting and sickness at the stomach with violent pains in the head are often the foreboding of inflammation of the membranes of the brain or pericranium.

Nausea, vomiting, and costiveness attended with inflammation of the bowels, are indications of inflammation of the kidneys and ureters.

Redness, pain, heat, and swelling these

of inflammation, and generally, in parts, to
the affection of the stomach; it is a question
of inflammation, which, is universally, proved
by inflammation.
To see the symptoms of inflammation, in
the head and constitution, believing that
all inflammation is more or less, attended
with a fever, or affects other parts through the
use of sympathy; there being such a universal
sympathy of parts throughout the whole system
of nature; for examples we take the fever
and vomiting and sickness at the stomach
with violent pains in the head are often the
prelude of inflammation of the meninges
of the brain or pericranium.
In some, vomiting, and cramps attended
with inflammation of the bowels, are
indications of inflammation of the kidneys
and ureters.
Pains, fever, heat, and swelling these

18

four morbid phenomena attended with quickness and fullness of the pulse are the most important symptoms of inflammation.

Inflammation, fever commences with a sense of languor and inaptitude for exertion; with a disrelish for food, which continues for a day or two. — There is also chilliness and soreness over the surface with nausea and headache, succeeded in the evening by a great increase of heat; and at night by perspiration with great thirst, restlessness, and sometimes delirium: — often in young persons, convulsions with a stupid drowsiness.

The bowels are usually costive, the urine high colored, and the pulse quick and hard.

The vital energy or simple animal life, seems to be impaired in inflammation of the stomach, in the same manner as sensation is lessened when the brain is injured.

find myself phenomena attended with
degrees of the pulse are the most important
signatures of inflammation.

Inflammation first commences with a sense
of languor and uneasiness, followed by
feverish heat, which continues for a day
or two. There is also chilliness and
rest the surface with redness and
swelling in the evening for a great number
of days, and at night of profuse sweats with great
thirst, restlessness, and sometimes delirium:
after a young person, convalescing with a
stiffness of joints.

The hands are usually swollen, the
arms high colored, and the pulse quick
and hard.

The most urgent to relieve animal
life seems to be relieved in inflammation
of the stomach, in the same manner as
respiration is relieved when the lungs are inflamed.

19

The pulse is generally low and quick; the pain obtuse, but urgent and overwhelming; so that the patient can hardly bear up under it.

When the intestines are affected the symptoms are similar to those which are present in the like condition of the stomach, especially, if the inflammation be in the upper part of the canal; but if seated in the colon the low and quick pulse together with the restlessness of the patient will be very marked.

Inflammation of the peritoneum is characterised by the symptoms fulness, tension, and a general soreness of the abdomen, with purging and fever; the pulse is remarkably small, quick, and thready; and the slightest pressure on the part generally causes pain, accompanied with sickness and vomiting.

The symptoms attendant on inflammation of the womb vary according to the part of the

The pulse is generally low and weak; the
face red, but moist and cool; and
that the patient can hardly bear up
when the vertebrae are affected. The
symptoms are similar to those which are

present in the like condition of the stomach,
especially if the inflammation be in the
upper part of the canal; but if it be in
the lower the face and pulse are
with the exception of the patient will be
very marked.

Inflammation of the peritoneum is
characterized by the symptoms of peritonitis,
and a general warmth of the abdomen, with
heaving and heat; the pulse is usually
small, quick, and throbbing; and the patient
suffers in the part generally, can bear
scarcely with sickness and vomiting.

The symptoms attendant on inflammation
of the canal may accompany the part of the

20

organ in which the inflammation is seated; if this be chiefly in the fundus, the greatest distress of pain, heat, and throbbing, will be above the pubes; if the posterior part be chiefly affected, the loins and rectum will principally sympathize, and there will be a troublesome tenesmus; if the inflammation attacks the anterior part, the bladder will also partake of the deranged condition of the system; the urine will flow with difficulty, but there will be a perpetual desire to pass water; while if the sides of the uterus or its ovaria be chiefly inflamed the pain will dart down the interior of the thighs.

The symptoms in each individual case of inflammation, must of course vary according as the brain, the lungs, the heart, the stomach, and the other organs of the cavities are more or less affected. — In some instances the functions of the brain

again in which the inflammation is seated; if this
be chiefly on the lungs, the greatest benefit of
hair, cast, and turpentine, will be done the
lungs; if the prostatic part be chiefly affected,
the hair and castum will principally benefit,
and there will be a triple cure, because
if the inflammation attacks the anterior part,
the hair will also penetrate of the bladder
conductor of the system; the hair will form
a double effect, but there will be a
perfect cure to pass water; while
of the nature of the uterus and its ovaries
be chiefly affected, the hair will best
serve the interests of the system.

The symptoms in each individual
case of inflammation must of course vary
according as the brain, the lungs, the liver,
the stomach, and the other organs of the
system are more or less affected. The
more extensive the functions of the brain

21
remains undisturbed, even to the very close of
the scene: — again when there is extensive
disease within the cavity of the cranium
the ^{patient} ~~deterioration~~ ^{or life} is more, periculous or comatose, and
he may exhibit a variety of nervous symptoms,
such as convulsions, rigidity of the extremities,
tremors, or where the head is more slightly
affected, the senses are only occasionally obscured.

If the lungs be affected, the breathing
will be ~~attended~~ ^{altered} from that of health, mere
dyspnoea may however exist, without any
structural lesion of these organs.

And the same diversity of symptoms
will be found in the diseased state of other organs.

The appearance on dissections varies
equally according to the particular organ diseased,
and the duration of the inflamed condition of
that organ.

We will find on investigation, as has
been said, various grades of disorganization in

22
the same and different organs, according to the space of time they have suffered from their particular diseases, and the mildness or activity of those diseases.

The stomach like the brain being one of the all important organs in the human economy, and it being an organ of such acute sensibility; that it is not possible that the stomach should suffer from inflammation without suffering severely; and at the same time extending its diseased action widely around itself.

In many instances we are left to diagnose diseases without the general attendant symptoms, such as heat, redness, pain and swelling, we then distinguish it by the state of the general constitution, depression of the functions, and pain on pressure.

After death, in some instances we find that the stomach presents a red

the name and different organs, according to the
space of time they have suffered from their
particular disease, and the nature of the
of these diseases.

The stomach like the brain being
one of the all important organs in the human
economy, and it being in a state of such acute
sensitivity, that it is not possible that the
stomach should suffer from inflammation
without suffering severely; and at the same
time extending its disease to other widely
around itself.

For many instances were left to figure
disease without the general attention of
them, such as heat, redness, pain and swelling,
are then distinguished by the state of the
general constitution, depending of the
function, and pain or pressure.
After death, in some instances
find that the stomach presents a red

appearance, there being a slight engorgement of the vessels of that organ, at other times we find a greyish appearance; sometimes a reddish brown, and again in a highly inflamed condition; and further the mucous membrane may be filled with large eruptive patches of inflammation, and the subjacent cellular tissue is advancing to a gangrenous state.

As I have said the small and large intestines partake of this inflamed condition as before spoken of: red patches, eruptions, ulcers and the like are often found in the small intestines; in the large these alterations are more rare, yet they are not entirely free from the remains of inflammation, and this may be safely said of every organ and tissue of the body.

The changes which the circulation of

24

inflamed parts present after death are very different from those in healthy organs. — The blood is conveyed from all parts with accelerated motion towards the center of inflammation: the arterial is not changed into venous blood, and its coagulating power is much increased.

That there is a continual change taking place in all inflamed parts, must be obvious to every one from the fact of their being a highly increased action in the same; and this change is much modified; and consequently more or less marked according to the seat of this action.

The healthy lung is spongy and crepitous under the pressure; in this altered state it no longer crackles between the fingers — its spongy character is lost — and it resembles liver in its

compactness and cohesi: — softening is perhaps more strikingly obvious when it happens in the brain or spinal cord than in any other part of the body.

Inflammatory fever may sometimes be produced from febrile miasm, though it is commonly derived from other sources.

Of these the stimulus of violent passions is, perhaps one of the common causes; and especially upon a vigorous and plethoric habit; which is the usual temperament in which inflammatory fever makes its appearance: — undue muscular exercise, heating food, or excess of any kind may also be frequent causes; while another may be found in the suppression of any accustomed discharge; as that of menstruation, epistaxis, or periodical bloodletting.

Suddenly suppressed perspiration is in like

...the ...
...the ...

...the ...
...the ...

...the ...
...the ...

...the ...
...the ...

...the ...
...the ...

...the ...
...the ...

manner, a frequent perhaps the most frequent cause of any; especially, when the body is very hot, and the change is affected by exposure to a low temperature; as that of a current of cold air, a large draught of cold water, or plunging into cold water.

Disease is not apt to be excited from either the extreme of heat or cold of itself; but, is the sudden transition from one to the other; or heat conjoined with moisture.

The state of the mind has also great influence as well as the habits of the individual.

Drastic purgatives taken in excess, and poisons of different classes are also causes of this same diseased action.

Natural or accidental organic mischief in some part or other of the intestinal canal, as a ventral, inguinal, or other hernias, or intussusceptions of various kinds; and also scybala, and the like.

...the most frequent
...the change is effected by exposure to a low
...of all sorts of things and all sorts.

...is not apt to be readily formed
...of heat and cold; but, in the
...transition from one to the other, but especially in the
...transition.

...the state of the mind has a great influence
...as well as the habits of the individual.
...greater frequency than in any other form
...of different classes are also common in this
...diseased action.

...is associated with various
...in some part of the intestine, and
...is associated, especially, with various
...of various kinds; and also with the

Inflammatory diseases sometimes terminate abruptly, and with a critical sweat, or some other critical evacuation about the fourth or fifth day; but more commonly increases in violence, though with occasional declinations, for a week or more; during which time the pulse rises to a hundred or a hundred and ten strokes in a minute, but continues regular.

It rarely happens that some kind of constitutional treatment will not be of advantage in the management of sympathetic inflammation; and in the early stage of the disease we will find the administration of purgatives, diluents, and diaphoretics rarely failing to accomplish their accustomed beneficial effects. And the abstraction of blood by the lancet, will be found very beneficial and even necessary in many instances.

Most of the profession differed in opinion

in reference to the quantity of this fluid to be abstracted at a time or within a given time;— but the most liberal opinion seems to be; that we should be governed entirely by the case under treatment, for in some instances a few ounces might suffice while in other cases double the quantity would not be attended with the same beneficial results.

Local bloodletting is also to be resorted to, the scarificator and cups, or leeches, we will also find advantage in warm applications, by their contributing to the free flow of blood to the parts.

When the bowels have been well opened, opiates may be given with caution in union with ipecacuanha or antimonials or calomel with a view to determine to the surface.

The diet of the patient should also receive due attention, as it exerts great influence for or against the patient, and we may say for the

in reference to the quantity of the funds to be
abstracted at a time, and whether a given time, or
the most liberal opinion would be; that we
shall be personally satisfied by the same conditions
for in some instances for some night officers
while in other cases, under the same conditions,
but be attended with the same beneficial results.
Some observations in regard to the
of the confidential and safe, in looking as well
the kind of change in some of the officers of the
concerning to the fact that the fact.
The fact that the fact has been an all-around
may be given with regard to the fact, however
of circumstances of which we have to determine
to the surface.
The fact of the fact should be reviewed
attention, as the subject is of great importance
against the fact, and we may say for the

surgeon also:— the simplest diet is to ^{be} prepared, as barley water, goul, and arrowroot.

Light must also be excluded, and tranquillity of both mind and body is highly necessary.

Saline cathartics with diluent drinks may be used sufficiently, free to keep the bowels gently lax, after they have been once well moved by cathartics, and emetico cathartics.

Tartarized antimony, is one of the most efficient remedies, both in particular and constitutional inflammation of which we are in possession of; — this article should be used only as a nauseant medicine — it has in this respect great control over the pulse; and is said to do away in a great measure with blood-letting; it seems that antimony when properly administered subdues the action of the heart and arteries; — in and in many instances this remedy may be used

when bloodletting could not be resorted to with safety:
 — it is in inflammation of the mucous membrane
 of the air passages; antimony, is signally beneficial.

Speacacua is also much used as a nauseating
 medicine. It is often necessary to resort to stimula-
 —nts; to rouse the depressed and sinking powers of
 life. The exhibition of camphor, ammonia,
 and wine; may prove of the utmost value
 in certain cases, which form as it were exceptions
 to the general practice in the treatment of
 inflammation. In the severe forms of diffuse
 suppuration, the system will require to be
 supported by allowing the patient the free
 use of generous food, and stimulating liquors.

It will often happen that the stomach
 of the patient will nauseate such food as
 is usually deemed nourishing; and then the
 chief reliance must be on soups, spirits, wines,

under the latter, and not the former, that
it is in the nature of the disease
of the air passages, and not of the
respiratory system, and not of the
lungs. It is often necessary to resort to
the use of the respiratory apparatus
for the exhibition of sulphur
and other vapors, and of the
in certain cases, which form a
to the general practice in the treatment of
asthma. In the more severe forms of
asthma, the patient will require the
application of all the means
use of general and constitutional
It will often happen that the
of the patient will necessitate the
is usually found necessary, and the
this disease must be managed.

and matt liquors.

In sympathetic inflammation local depletion is often to be preferred to general bloodletting. — Local abstraction of blood seems to have a more decided impression on the disease, than when a large vein is opened at a distant part from the seat or origin of the disease.

Cold applications is also an important agent in the management of some forms of inflammation.

Counterirritants is another class of remedies to be resorted to — the articles in general us are the sinapism of mustard, the common blister of cantharides ungu. and when a more tarting effect is desired, the potential or actual cauteries may be resorted to, or the

and with figures
the sympathetic inflammation has
relation is after the perfect
absorption. The absorption of
the secretions has a more decided
influence on the disease than when
a large mass is present at a distant part
from the seat of origin of the disease.
Cold applications is also an im-
portant agent in the management of
some forms of inflammation.
Counterirritants is another class of
remedies to be resorted to. The irrita-
tion produced by one the application of
acetate of the common nitrate of mercury
is very sudden and more lasting
effect is being of the permanent nature
counterirritants may be resorted to in the

scuton may ^{be} employed, — either of those
may be used according to the case in question.

... the ...
... the ...

An
Inaugural Dissertation

on
Hæmorrhage

Submitted to the Examination
of the

Provost, Regents, and Faculty of Physic
of the

University of Maryland

for the

Degree of Doctor of Medicine

Session of 1844 & 45

by

J. Holl Cronise

of

Maryland.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

Handwritten text, possibly a name or title, appearing as a faint, mirrored bleed-through from the reverse side of the page.

To,

Prof: Nathan B. Smith

Distinguished in his
 Profession, no less for his ability than kindness
 of heart, and who has in so many instances
 in the course of my studies (manifested) so great
 and disinterested favor towards me, this Thesis
 is respectfully inscribed, as a slight acknowledgment,
 by one who will ever esteem it an honor and
 privilege, to be considered

A friend,

J. Stoll, Cranston.

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

Hæmorrhage.

It is not the intention of the Author of this Thesis to consider any of those forms of Hæmorrhage which are the result of appreciable injury to the blood-vessels, and which more properly belong to the province of surgery, but those committed to the care of the Physician, less perfectly understood, which frequently take place without any perceptible alteration in the anatomical condition of the part whence the blood escapes, and which arise spontaneously from some pathological condition of the body itself.

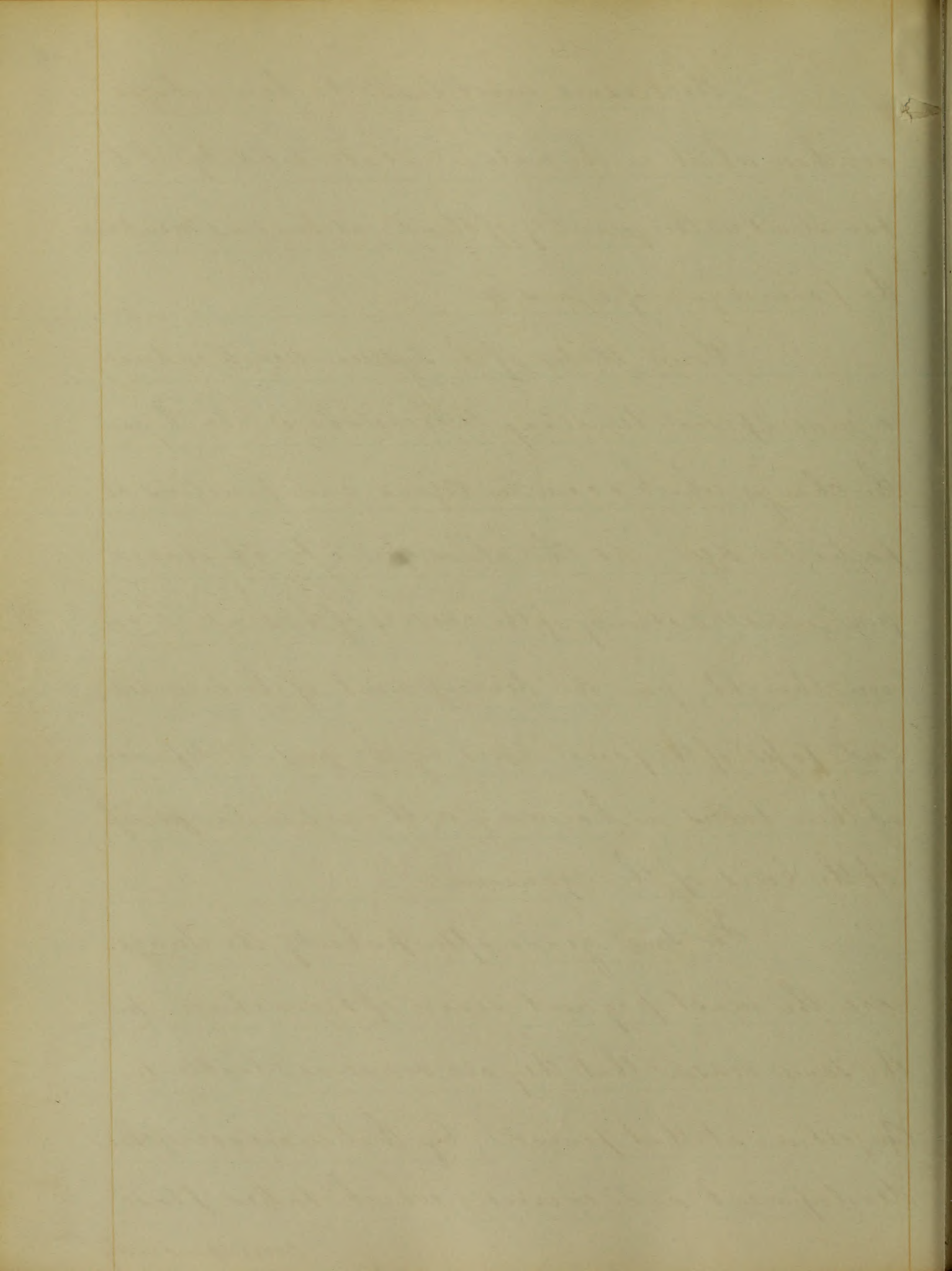
In some cases Hæmorrhage seems to constitute a whole disease being the only morbid phenomenon we can detect; at other times it forms the principal sign or indication of local disease; while again it may be merely an accidental symptom.

The

The tissues most liable to hemorrhages are those which in the natural state are subject to variations in the quantity of blood, as Mucous Membranes, the parenchyma of Organs &c.

Some states of the System seem to induce a more special tendency to hemorrhage; such are the changes which occur in Organs and functions at particular ages; as Childhood prone to Epistaxis from general activity of the vessels of the head, it has been thought, from the development of the sinuses and fossa of the facial bones by the gradual separation of their tables, in harmony with a similar process of the bones of the cranium.

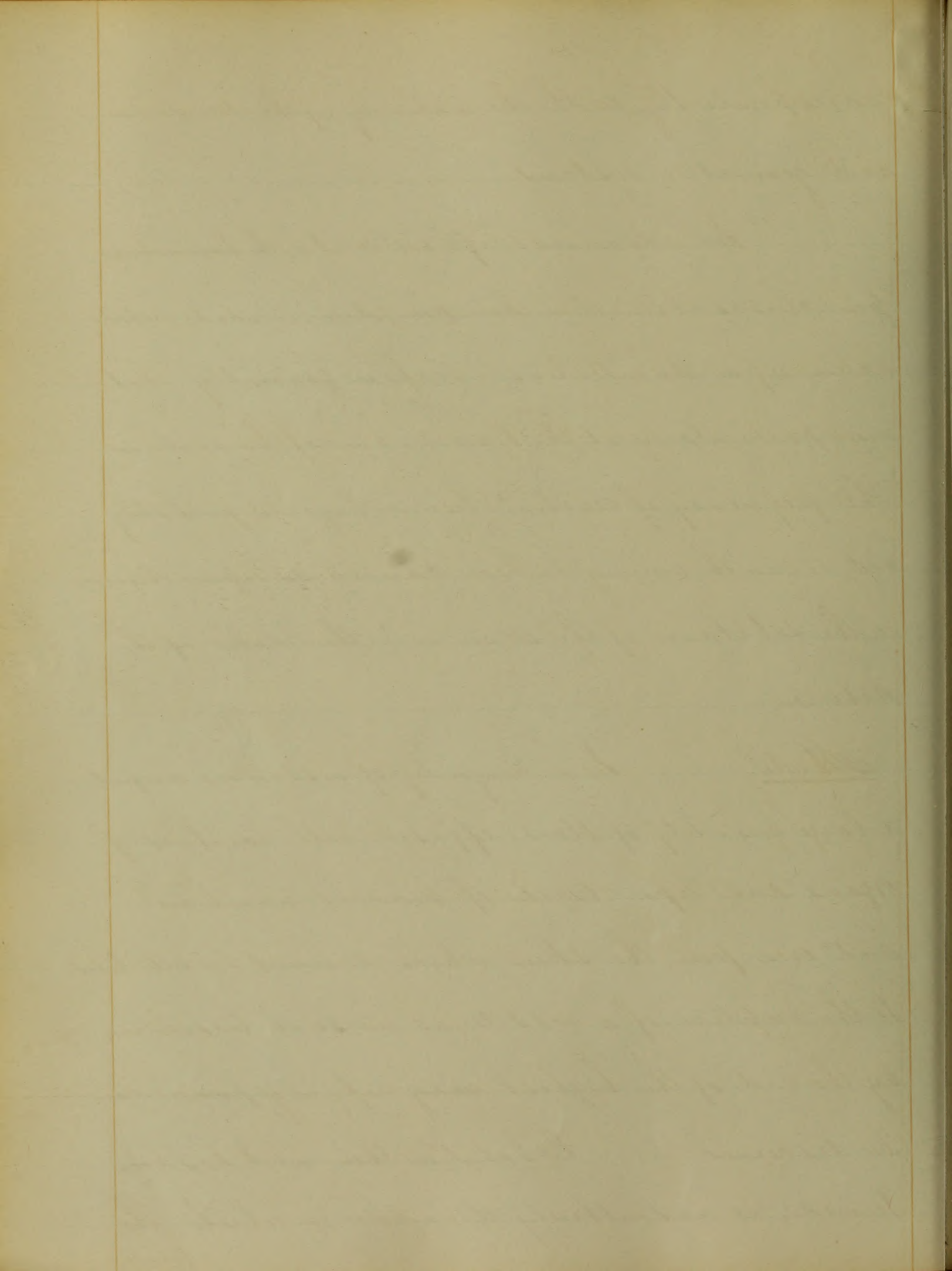
For some years after puberty the Sinuses are the most frequent source of hemorrhage; for the same reason that they are rendered liable to Congestion at that period, by that increase of their development and exercise which takes place correspondently



correspondently with the activity of the muscular and generative systems.

In advanced life we meet with hemorrhages from venous obstruction and from diminished vital action upon the intestinal surface generally, but more particularly at the termination of the rectum. The frequency of cerebral hemorrhage is probably not so much owing to these causes as upon disease in the substance of the organ or in the coats of the Arteries.

Mode. In a majority of instances we find a large quantity of blood effused into cavities of organs and upon tracts of mucous membrane and even from the skin which cannot be attributed to the rupture of a vessel, as no such breach, even by the aid of the highest magnifying power, can be discerned. Exhalation then, as it has been termed, is undoubtedly the mode in which the
greater



greater number of hemorrhages take place.

Watson says, that it occurs from the same vessels or apertures which in health pour out the fluids nature to the part, is rendered the more probable by the fact, that certain hemorrhages are preceded and followed by an afflux of the fluids belonging to the surface concerned.

In regard to cerebral hemorrhage it should be stated that this form more generally results from a rupture of a vessel, than by exhalation.

Causes. as a predisposing cause of hemorrhage we may mention that condition which occurs in young and robust persons who live fully and freely, and are subjected to those causes calculated to produce a plethoric state of the system, accompanied by forcible action of the Heart and Arteries, as indicated by full & strong pulse. Plethora is therefore not un frequently the cause of hemorrhage
from

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

7
from the nose, rectum and into or upon the Brain.

Congestion producing nervous obstruction is a frequent cause of hemorrhage; as Pulmonary Apoplexy from disease obstructing the flow of blood through the left cavity of the Heart; and Hæmorrhoids from obstructed portal circulation. This is also an operative cause in Apoplexy following use of Narcotics or from violent mental Emotion; crowded rooms producing a turgescient state of the Schneiderian Membrane and Epistaxis; irritants causing an effusion of blood from the mucous membrane of the Stomach; pressure upon the jugular veins, preventing a return of the blood, causing Apoplexy; Purpura Hæmorrhagica on the legs of Puerperal Women from pressure of the Uterus upon iliac veins and vena cava, preventing return of blood from Cutaneous vessels, followed by Extravasation in patches &c; From Congestion ensuing upon a
lower

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

lower vital action in a part, as upon the skin when it has been under the influence of Cold. Thus Cold by its introspulsive operation producing internal congestion if not sufficient to give rise to inflammation may give to the cause of internal hemorrhages.

Wilkins alludes to Stagnation of vessels as a cause of hemorrhage, as we see this condition exemplified in Congestive fevers and in weak debilitated subjects. In this state we sometimes ^{have} hemorrhage occurring from a change of posture, as Cerebral from stooping and Uterine from assuming the upright posture.

Determination of blood has been also considered as an exciting cause of hemorrhage, but as this term is not infrequently used to mean nothing more or less than Congestion, and as this state cannot obtain without at least temporary congestion, the author of this thesis does not think it necessary to discriminate in this place, between the two.

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

The connection between Inflammation and Hemorrhage seems not so clearly understood. It has been supposed that the reason we have hemorrhage less frequently in inflammation than Congestion, notwithstanding that there is in the former greater removal, is, that the blood having become stagnant, has lost its fluidity and that the pressure upon the capillaries has been diminished by the exudation of serum, lymph and pus. But Inflammation is always preceded by Congestion, and from the vessels in this condition, rather than in pure Inflammation, have we hemorrhages occurring. Hemorrhage coincident with Inflammation, however, is exemplified in that which occurs from the colon in Dysentery, where we have constant exudations of blood with the increased mucus, serum &c. In the rusty and sanguinolent sputa of Pneumonia, a viscid secretion from the

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

the cells and minute bronchia impregnated with a coloring matter from the blood; - in Hemorrhagic Pleurisy where we have bloody serum and lymph from the inflamed serous membrane; in inflammation of the Kidney and Bladder we have occasionally suppurated Hematuria and I might perhaps add under this head of Inflammation, that which results from an alteration of normal tissues by softening and ulceration or a new growth as the fungoid form of Carcinoma.

But to render the foregoing instances of hyperaemia effectual in all cases to the production of hemorrhage, some additional element is generally wanted, and this is found to be either in the blood, or the vessels containing it.

We can trace this disposition sometimes to a morbid condition of the blood, being defective in fibrin, as shown by its imperfect coagulation produced

Faint, illegible handwriting, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

Some think an alteration in the quality of the red particles and fibrin is the pathological element in these diseases, as exhibited in the darker hue of the coloring matter in some malignant fevers, congestive typhoid, scorbutic and syphilitic diseases tend also in all inflammations and ecchymoses in the skin to produce livid, purple or copper colored blotches.

A vitiated condition of the blood may occasion hemorrhage partly on same principle by which it induces passive congestion and partly by the indisposition to coagulation. This state of the blood is always accompanied by low vital action in the tissues as well as on secreting surfaces, and hence perhaps the readiness with which the capillaries give way to distention. Examples of this are seen in the petechia and ulcers of malignant fevers, but still more remarkably from the cutaneous and mucous surfaces in scurvy &c.

W.E.

Faint, illegible handwriting on a page with a vertical margin line on the left.

produced by general disease or any cause preventing the due arterialization of the blood or allowing the venous to be mixed with the arterial blood. In adynamic fevers the cause of the petechia, ichthia &c has been supposed to be, a want of fibrine in the blood.

An abundance of the red particles of the blood, seems also to play not an unimportant part, as in Congestive Apoplexy &c. The sanguine temperament which is particularly prone to certain forms of hemorrhage, has been proved to be characterized chiefly by an excess of the red particles of the blood, rising perhaps to 185 in 1000.

But again we have a condition of the blood predisposing to hemorrhage, said to be characterized neither by deficiency of fibrine nor any increase of the red globules of the blood. Of this we have examples in purpura, Scurvy &c.

Some

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

We have also that condition of the blood which has been supposed to be the essence of the hemorrhagic diathesis, in which there is a tendency to hemorrhage, sometimes to a fatal extent, from the slightest scratch.

Diagnosis. The existence of internal hemi- during life is sometimes indicated by the peculiar functional disturbance of the organ which is the seat of it, as some forms of Apoplexy; sometimes by physical signs, as in Pulmonary Hemorrhage; and again by the rapid sinking of the vital powers, as in Hemorrhage into the abdomen from Extra Uterine pregnancy &c.

Hemorrhage and usually seen, that is, the exit of blood cannot escape the attention of the observer, but to diagnose it correctly, to find its seat and to ascertain its cause, is not so easy a matter, and often requires the nicest discrimination, and an ability to recognize by physical signs or otherwise, any change which may have taken place in the structure of an organ.

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
 various tribes and their customs.
 The third part is a history of the country from
 the earliest times to the present day.
 The fourth part is a description of the
 natural resources and the various
 occupations of the people.
 The fifth part is a description of the
 government and the laws of the country.
 The sixth part is a description of the
 religion and the various sects.
 The seventh part is a description of the
 arts and sciences of the country.
 The eighth part is a description of the
 military and naval forces of the country.
 The ninth part is a description of the
 commerce and the various trade
 routes of the country.
 The tenth part is a description of the
 climate and the various seasons of the
 country.
 The eleventh part is a description of the
 minerals and the various metals of the
 country.
 The twelfth part is a description of the
 agriculture and the various crops of the
 country.
 The thirteenth part is a description of the
 industry and the various manufactures of the
 country.
 The fourteenth part is a description of the
 education and the various schools of the
 country.
 The fifteenth part is a description of the
 literature and the various books of the
 country.
 The sixteenth part is a description of the
 music and the various instruments of the
 country.
 The seventeenth part is a description of the
 dancing and the various dances of the
 country.
 The eighteenth part is a description of the
 games and the various sports of the
 country.
 The nineteenth part is a description of the
 sports and the various amusements of the
 country.
 The twentieth part is a description of the
 festivals and the various ceremonies of the
 country.
 The twenty-first part is a description of the
 superstitions and the various beliefs of the
 country.
 The twenty-second part is a description of the
 magic and the various spells of the
 country.
 The twenty-third part is a description of the
 astrology and the various horoscopes of the
 country.
 The twenty-fourth part is a description of the
 divination and the various methods of the
 country.
 The twenty-fifth part is a description of the
 medicine and the various remedies of the
 country.
 The twenty-sixth part is a description of the
 surgery and the various operations of the
 country.
 The twenty-seventh part is a description of the
 anatomy and the various parts of the
 country.
 The twenty-eighth part is a description of the
 physiology and the various functions of the
 country.
 The twenty-ninth part is a description of the
 pathology and the various diseases of the
 country.
 The thirtieth part is a description of the
 therapeutics and the various treatments of the
 country.
 The thirty-first part is a description of the
 diet and the various foods of the
 country.
 The thirty-second part is a description of the
 clothing and the various dresses of the
 country.
 The thirty-third part is a description of the
 housing and the various dwellings of the
 country.
 The thirty-fourth part is a description of the
 furniture and the various pieces of the
 country.
 The thirty-fifth part is a description of the
 transportation and the various modes of the
 country.
 The thirty-sixth part is a description of the
 communication and the various means of the
 country.
 The thirty-seventh part is a description of the
 defense and the various fortifications of the
 country.
 The thirty-eighth part is a description of the
 peace and the various treaties of the
 country.
 The thirty-ninth part is a description of the
 war and the various battles of the
 country.
 The fortieth part is a description of the
 conquest and the various territories of the
 country.
 The forty-first part is a description of the
 empire and the various provinces of the
 country.
 The forty-second part is a description of the
 kingdom and the various lords of the
 country.
 The forty-third part is a description of the
 nobility and the various titles of the
 country.
 The forty-fourth part is a description of the
 clergy and the various orders of the
 country.
 The forty-fifth part is a description of the
 laity and the various ranks of the
 country.
 The forty-sixth part is a description of the
 military and the various ranks of the
 country.
 The forty-seventh part is a description of the
 naval and the various ranks of the
 country.
 The forty-eighth part is a description of the
 civil and the various ranks of the
 country.
 The forty-ninth part is a description of the
 judicial and the various ranks of the
 country.
 The fiftieth part is a description of the
 executive and the various ranks of the
 country.
 The fifty-first part is a description of the
 legislative and the various ranks of the
 country.
 The fifty-second part is a description of the
 executive and the various ranks of the
 country.
 The fifty-third part is a description of the
 legislative and the various ranks of the
 country.
 The fifty-fourth part is a description of the
 executive and the various ranks of the
 country.
 The fifty-fifth part is a description of the
 legislative and the various ranks of the
 country.
 The fifty-sixth part is a description of the
 executive and the various ranks of the
 country.
 The fifty-seventh part is a description of the
 legislative and the various ranks of the
 country.
 The fifty-eighth part is a description of the
 executive and the various ranks of the
 country.
 The fifty-ninth part is a description of the
 legislative and the various ranks of the
 country.
 The sixtieth part is a description of the
 executive and the various ranks of the
 country.
 The sixty-first part is a description of the
 legislative and the various ranks of the
 country.
 The sixty-second part is a description of the
 executive and the various ranks of the
 country.
 The sixty-third part is a description of the
 legislative and the various ranks of the
 country.
 The sixty-fourth part is a description of the
 executive and the various ranks of the
 country.
 The sixty-fifth part is a description of the
 legislative and the various ranks of the
 country.
 The sixty-sixth part is a description of the
 executive and the various ranks of the
 country.
 The sixty-seventh part is a description of the
 legislative and the various ranks of the
 country.
 The sixty-eighth part is a description of the
 executive and the various ranks of the
 country.
 The sixty-ninth part is a description of the
 legislative and the various ranks of the
 country.
 The seventieth part is a description of the
 executive and the various ranks of the
 country.
 The seventy-first part is a description of the
 legislative and the various ranks of the
 country.
 The seventy-second part is a description of the
 executive and the various ranks of the
 country.
 The seventy-third part is a description of the
 legislative and the various ranks of the
 country.
 The seventy-fourth part is a description of the
 executive and the various ranks of the
 country.
 The seventy-fifth part is a description of the
 legislative and the various ranks of the
 country.
 The seventy-sixth part is a description of the
 executive and the various ranks of the
 country.
 The seventy-seventh part is a description of the
 legislative and the various ranks of the
 country.
 The seventy-eighth part is a description of the
 executive and the various ranks of the
 country.
 The seventy-ninth part is a description of the
 legislative and the various ranks of the
 country.
 The eightieth part is a description of the
 executive and the various ranks of the
 country.
 The eighty-first part is a description of the
 legislative and the various ranks of the
 country.
 The eighty-second part is a description of the
 executive and the various ranks of the
 country.
 The eighty-third part is a description of the
 legislative and the various ranks of the
 country.
 The eighty-fourth part is a description of the
 executive and the various ranks of the
 country.
 The eighty-fifth part is a description of the
 legislative and the various ranks of the
 country.
 The eighty-sixth part is a description of the
 executive and the various ranks of the
 country.
 The eighty-seventh part is a description of the
 legislative and the various ranks of the
 country.
 The eighty-eighth part is a description of the
 executive and the various ranks of the
 country.
 The eighty-ninth part is a description of the
 legislative and the various ranks of the
 country.
 The ninetieth part is a description of the
 executive and the various ranks of the
 country.
 The ninety-first part is a description of the
 legislative and the various ranks of the
 country.
 The ninety-second part is a description of the
 executive and the various ranks of the
 country.
 The ninety-third part is a description of the
 legislative and the various ranks of the
 country.
 The ninety-fourth part is a description of the
 executive and the various ranks of the
 country.
 The ninety-fifth part is a description of the
 legislative and the various ranks of the
 country.
 The ninety-sixth part is a description of the
 executive and the various ranks of the
 country.
 The ninety-seventh part is a description of the
 legislative and the various ranks of the
 country.
 The ninety-eighth part is a description of the
 executive and the various ranks of the
 country.
 The ninety-ninth part is a description of the
 legislative and the various ranks of the
 country.
 The hundredth part is a description of the
 executive and the various ranks of the
 country.

This is not unfrequently a source of embarrassment to the Practitioner, knowing as he does that upon a proper diagnosis will depend a correct Prognosis and a faithful therapeutic management of the case.

Varieties

To render the subject more intelligible certain varieties have been recognized by writers and may^{be} fairly and properly continued by us, inasmuch as we discover them in practice and are enabled in our therapeutic agency to be guided by these forms in which Hemorrhage is presented.

In the first place we have Spontaneous hemorrhages divided into Constitutional and Local - and secondly Constitutional subdivided into Active and Passive; and Local subdivided into Symptomatic, embracing those in which the hemorrhage arises from the organ whence it is poured forth, and into Sympathetic, denoting that class of hemorrhages which occur from other organs than that from which the blood is poured forth

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

forth, that is, those arising from obstruction to the circulation of the blood in an organ, from disease in another organ or part.

Hæmorrhages may be generally ascertained to occur, 1st As symptoms of constitutional disturbance independent of local lesions, and 2nd As symptoms of changes of structure in different organs.

1. Constitutional Hæmorrhages.

These appear often

to be the result of some peculiarity of constitution, as we have stated before, rather than of any pathological condition of the body itself; they take place alike in the robust and delicate and may occur in almost any organ of the body.

They may also observe a periodicity in their attacks, and when these are suddenly suppressed they are generally followed by what has been termed vicarious hæmorrhage, in that it appears in some other organ and recurs perhaps periodically.

We also observe frequently what would seem

Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side. The text is mirrored and difficult to decipher.

seem to be a predisposition on the part of certain individuals of the same family to hemorrhages from various parts of the body upon the receipt of very slight injuries. Several instances of this kind are recorded. and we should be led to suspect some faulty condition of the blood or its vessels as the predisposing cause in the production of such hemorrhages; and it is rendered not improbable also that these individuals have inherited this peculiarity or fault of their physical structure.

There are other hemorrhages entitled to be considered constitutional which are preceded by various derangements of innervation, nutrition and of the circulation. These may be attended by signs of plethora, fulness of blood and increased action of the heart and arteries and are to be considered as active, while those attended with constitutional debility, as passive.

In well marked cases the distinction between

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

between Active and Passive is sufficiently strongly marked to enable us to diagnose with a degree of positiveness; as for instance, the active form occurring in young and robust persons who live freely and fully, and are subjected to those causes calculated to produce a plethoric state of the system, accompanied by forcible action of the Heart and Arteries, as shown by a full & strong pulse - and in such cases an attack may not unfrequently be traced to some over stimulation, violent mental Emotion, or exposure to wet, cold &c but more generally will the predisposing causes themselves be found sufficient to have excited the hemorrhage.

The escape of blood from the body is usually preceded by certain symptoms, such as a general feeling of indisposition, sudden flushes of heat, pain, wandering perhaps at first, but gradually settling to the point whence the blood escapes is poured.

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

poured forth; frequently a full, bounding or jerking pulse, often accompanied by a peculiar thrill, which is said to characterize the tendency to hemorrhage, and has hence been called the hemorrhagic pulse.

Local symptoms are also generally manifested to the patient or observer, as a sensation of weight or heat in the part, increased force of the arterial pulsations or turgescence of the veins, indicating an undue afflux to the part, accompanied with paleness and chilliness or coldness of the surface.

Passive Hemorrhage

The symptoms of this form, in well marked cases, are of a contrary nature. They occur in enfeebled debilitated constitutions, in those whose systems have been weakened by disease, fatigue, imperfect nourishment, profuse discharges &c in fact any cause whatever which has brought about an anemic condition with a change in the relative constituents of the blood, as alluded to

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

Passive Movement

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

So in the first part of this paper when speaking of a state of the blood favoring exhalation or the effusion of blood from the parietes of the vessels containing it, will dispose to this form of hemorrhage. The passive form is not generally preceded by any constitutional excitement, as in the active form, nor is the hemorrhage followed by any relief of the symptoms, but rather an aggravation of them. The blood is usually not florid, but dark, tenous and indisposed to coagulation.

If much blood be lost in this condition all the symptoms are greatly aggravated, the previous debility has now become extreme, the action of the heart not diminished, the face, lips and tongue pale and the countenance assumes a peculiar exsanguineous, waxy hue, while the surface of the body loses its temperature. The hemorrhage thus does not alleviate the existing condition of the patient, but leaves

Faint, illegible handwriting, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines across the page.

leaves him in a much worse one and more liable to a relapse;— and thus if the condition of the system is not overcome, he is gradually more and more debilitated, until in some attack his life is ended.

Effects. The local effects will depend greatly of course upon the organ whence the blood is effused and also whether that organ has any natural outlet to the surface of the body. The local effects are always manifested by disturbance of the functions of the organ, if the direction of the blood be towards the surface, and this be easy and not interrupted, there is relief soon obtained; but, if on the contrary, there be no communication with the exterior of the body, as in the case of the serous membranes, then are the local effects serious on account of the effused blood becoming a source of permanent pressure and irritation to the important organs invested by those membranes, as the Brain, Heart, Lungs &c. Here

These local effects are still more alarming when the effusion takes place into the interstitial cellular tissue or into the minute parenchyma of an organ. Here the function is not only disturbed, but the structure is often permanently injured.

In regard to the constitutional effects of Spontaneous hemorrhage, if the blood be poured out rapidly and in large quantity, the phenomena are similar to those which occur in the wound of some large vessel; but if there be a succession of moderate hemorrhages and but little blood lost at any one time, then have we phenomena much more permanent and enduring. The appearance of persons who have thus lost so vital a fluid, is striking and may be easily recognized. All parts of the surface of the body - the ears - lips, tongue and lining membrane of the mouth &c seem to possess nothing but a serous circulation. The hands and feet are cold perhaps while

Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side. The text is mirrored and difficult to decipher.

22

while the head is hot, and the least muscular exertion
producing excitement of the Circulatory and Respiratory
Systems.

And if patient should not sink in this condition
the heart recovers from its first state of debility and
reaction comes on, as evinced in the palpitation of
the heart, pulsations in the course of the aorta, beating
in the epigastrium, increased throbbing of the carotids,
temporal and other arteries of the cranium. The
pulse is generally frequent, easily accelerated
upon muscular exertion or mental emotion, and
communicates to the finger a peculiar thrill or
vibration, which may be mistaken for hardness.

Pressure, firm and continued, upon the artery, however,
will prove to us, that it is not possessed of force or strength
This has been well defined to be, 'activity without power'

This condition may alternate with Syncope,
Especially if patient attempts to assume the upright
posture

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

posture or use any muscular exertion. As a result of this activity of the Heart and Arteries and the loss of blood, we have also certain Nervous Symptoms, as throbbing in the head, great intolerance of light and sound - or if graver, delirium and coma, or even Confirmed Mania.

Treatment of Constitutional Hemorrhages.

There are certain

general rules to be adopted in the treatment of hemorrhages of this variety, but these will, of course, be greatly modified according to the organ whence the blood escapes.

And 1st as to Periodic Hemorrhages. When moderate they may be regarded as the natural remedy to the condition which gives rise to them and should not be interfered with, except under peculiar circumstances, as for instance, if they be excessive or deficient, or have been suppressed; or if the seat of such has been changed it is thought best to reestablish the original drain.

But if the symptoms from the first have been

1871

Faint, illegible handwriting covering the page, possibly bleed-through from the reverse side.

24
been very active, the loss of blood followed by very great exhaustion, then does it become our duty to interfere, by surrounding patient with cool fresh air, preventing all muscular exertion or mental emotion, allowing nothing but the most unstimulating food and drink - in short prevent all undue action of the Heart and Arteries, Keeping the patient in that posture which is least favorable to the afflux of blood towards the part affected, as the horizontal when from the lower, the erect when from the upper parts of the body.

Of other remedies to be employed in the treatment of profuse active hemorrhage, Arteriotomy is of course the most valuable and important. We should infer this, a priori, as we know it to have the effect to lessen, above all other Agents, the force and frequency of the heart's contractions, reducing general plethora and removing local congestions upon which the hemorrhage is likely dependent, and also of directing

25

diverting the current of blood from the suffering organ. In the employment of this agent we will be governed by the circumstances of each case, both as to the amount of blood to be abstracted and whether a single bleeding be sufficient or a repetition of it demanded.

Purgatives are also valuable agents in the treatment of hemorrhages, as they act as powerful divertants and are of great efficacy in both active and passive hemorrhage. Astringents also afford us valuable aid. Cold is often of great utility and acts in this way, by constringing the vessels of the part and thus preventing the further effusion of blood. It may be applied to the surface, as to the forehead in Epistaxis, or directly to the part, as when ice is swallowed in Hematemesis, or injected into the rectum or Vagina in Hemorrhoids and Uterine Hemorrhage.

It may be proper here to say a few words in regard to the prophylactic treatment in
such

Such cases. The patient should avoid all causes calculated to induce plethora, and those which tend to promote an afflux of blood to the part which had previously suffered, and if the organ is likely to suffer from the presence of effused blood it is proper to establish a permanent drain or derivation of the circulation towards some other part, as an issue after partial recovery from Apoplexy; and if premonitory symptoms present themselves it will be proper to abstract a moderate quantity of blood.

Treatment of Passive Hemorrhage. In the therapeutic management of this form there are two obvious indications: 1st to arrest the further effusion as speedily as possible; and 2^{dly} to remove that condition of the system upon which they depend. Evacuation in most instances is contra-indicated and we are obliged to resort to other remedial means. Cold is often highly efficacious, and in this form also, do we often resort to certain internal
 internal

27

internal remedies which have been found useful in the management of passive hemorrhage. Tonics and astringents are especially called for, among these, of the mineral Kingdom, are acetate of lead, sulphuric acid, alum, sulphates of Copper & zinc &c and belonging to the vegetable Kingdom, gall nuts, oak bark &c. Of all these, it is probable, acetate of lead and alum deserve the highest credit; the others, however, may occasionally prove salutary and useful.

To accomplish the second indication the patient should be guarded in his diet, breathe pure and bracing air, and exercise in it as much as may be consistent, carefully avoiding all mental and bodily fatigue - and where we have reason to believe the blood to be faulty, we should cautiously resort to the ferruginous compounds.

We have now done with Spontaneous hemorrhages depending upon constitutional causes, and

29

and altho' this thesis has been extended farther than was designed, we should be considering the subject but very partially did we overlook those forms of hemorrhage evidently dependent upon alterations of structure of different organs and not owing particularly to constitutional derangement.

There will be found to embrace many that the Practitioner meets with and by which he is often baffled, if not in ascertaining their cause, tho' this is often difficult, certainly in extending any permanent relief to the patient.

These, as I have stated before, have been divided into Symptomatic and Sympathetic, the first embracing such as occur from organs themselves diseased, and the latter considered merely as symptoms of disease in other organs than that from which the blood escapes.

We may have hemorrhage occurring from a local lesion induced by inflammatory Congestion, either in the Congestive stage of this process

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side of the paper. It consists of approximately 20 lines of cursive handwriting.]

process, as we have pointed out in the early part of this paper, which may thus be the means of stopping the inflammation, or as more rarely occurs, after this process has been fully established. The condition of the blood, however, in these two pathological conditions, is generally widely different, for while in inflammation we have a large proportion of fibrine, in this Hemorrhagic condition this constituent of the blood is more generally deficient.

Again as another cause of symptomatic Hemorrhage we have the various results of inflammation, as induration, softening and ulceration of tissues, as any sudden afflux of blood to organs in either of these conditions, may be followed by hemorrhage, or in the progress of ulceration a blood vessel may have become eroded.

Again as another example of hemorrhage from an organ being symptomatic of local disease in it, we need only refer to tuberculous deposit in the lungs: indeed Louis conceives copious hemorrhage

hemorrhage from organs to be one of the earliest symptoms of such morbid depositions or growths.

The writer will conclude by briefly alluding to such as have been denominated Sympathetic Hemorrhages, those occurring from an organ not itself the subject of disease; as Hemorrhage from the Lungs produced by valvular disease of the left side of the Heart: Hemorrhoids or Effusion of blood into the intestines from induration of the Liver or any other obstruction of the portal Circulation.

The symptoms of these forms of hemorrhage are not so uniform as those which characterize and accompany the Active and Passive forms of Constitutional hemorrhage, but refer rather to the organ the subject of lesion:— thus in Hemoptysis from the presence of tubercles we have evidence of this deposition from physical and rational signs or symptoms— or in Hemoptysis from valvular disease of the Heart, we have this
result

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

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

result preceded for a long time by disordered function of this viscus, and revealed by signs denoting the transformation of structure.

In the Treatment of these forms, which most frequently can be merely palliative, if even this, we must have regard particularly to the organ the subject of lesion.

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

An
inaugural
Thesis,
on the dislocation
of the Patella, submitted
to the Faculty of Phy-
sic of the University
of Maryland
for the
title
of Doctor
of Medicine; by
Edmund F. Colburn

Baltimore February 1845

An
important
letter
in the collection
of the
University
of
Maryland
for the
year
of
1840
by
John
D. Williams

John D. Williams
1840

2

A Thesis on the dislocation of the Patella.

Dislocation Outwards. — The Patella is subject to dislocation in three positions, which are outwards inwards and upwards.

The most frequent of these is the outward dislocation, the bone having been forced upon the external condyle of the os femoris where it projects markedly. The occurrence of this abnormal tumefaction and the impossibility of flexing the leg upon the thigh is an undeviating sign of what has really occurred.

Causes of the Accident — It may be occasioned by a blow from a club, a kick from a horse, and other direct violence: but the most common way of producing this dislocation, is this; a person in the act of locomotion, walking or running, gets an unfortunate fall, his knee being turned inwards and his foot outwards, acting as

the point of a lever, and thus by the action of the strong muscles attached to the Patella endeavoring to rescue the person from a fall, the bone is displaced over the external condyle of the os femoris; now as the person wishes to resume the wonted perpendicular position of his body, he halts on account of an obstinate stiff leg, the muscles and ligaments of the patella conspiring to work wrong.

The persons most liable to this accident are those whom nature has not endowed with symmetrical limbs the knee being inclined inwards, which physiologically, under the action of the strong extensor muscles, directs the patella outwards.

Dislocation Inwards: - This dislocation is not so frequently met with. It occurs from the patient's falling on projecting substances, from which the patella receives a

the sense of a term, and thus by the action of
the strong muscles attached to the larynx
devising to raise the larynx from a fall.
The force is displaced over the vocal cords
of the epiglottis; and as the larynx moves
it causes the water of the vocal folds
of the larynx, the larynx in account of an
acute suffrage the muscles and ligaments
of the larynx expanding to meet the
The larynx moves back to this position
as there when the larynx has not entered
epiglottis, thus the larynx being under
in words, which is a physiological process
action of the strong muscles and ligaments.
The larynx outwards.

Dislocation of the larynx. - The larynx
is not so frequently met with. It
occurs from the larynx falling in projecting
substance from which the larynx receives a

blow upon its outer margin, or purchase by the foot being inclined inwards at the time of falling, in both of these cases the ligamentous fibre inserted into the side of the patella will be ruptured, provided they be not in a pathological condition which has relaxed them at the time of the supervision of the injury.

There is another condition of the patella not heretofore mentioned. It ^{is} the occasion of the most acute sickening pain and faintness. The accident to which I allude is a partial dislocation of the patella outwards which is an occurrence of no little frequency.

Treatment—The first step we take is to reduce the dislocation, to do this we situate our patient in a recumbent position, an assistant elevates the leg by grasping the heel, which will relax the ex-

the first being intended merely as the first
approximation, and the second as the
second approximation, and the third as the
third approximation, and so on, until the
value will be approximated to any degree
of accuracy which may be desired.
The method of successive approximations
is a very simple and effective method
of solving the problem of the
determination of the value of the
function of the variable x, and is
very useful in many cases where
the function is not expressible in
closed form, or where the function
is very complicated, and the
value of the function is required
to a high degree of accuracy.
The method of successive approximations
is a very simple and effective method
of solving the problem of the
determination of the value of the
function of the variable x, and is
very useful in many cases where
the function is not expressible in
closed form, or where the function
is very complicated, and the
value of the function is required
to a high degree of accuracy.

tensor muscles situated on the thigh.

The surgeon may then bear down upon the patella which will resume its normal situation with but little difficulty.

This being accomplished an evaporating lotion of alcohol and water may be applied. In the space of three days we can apply a bandage which should be equally adjusted commencing at the foot and ending above the knee, if we continue it up the thigh and pass a turn or two round the hips it will do no harm and we will make sure of perfect rest to the limb since the muscles cannot contract under a well adapted bandage. The patient at the same time will not experience the slightest inconvenience from the bandage more than though it were not applied. In a short

time nature will do her work and all will be as before save that a slight weakness will remain.

Cases of difficulty - There are cases of dislocations of the patella wherein we may find trouble in their reduction.

A person may be walking, get a fall and receive an injury of the patella. Mr Cooper cites a case ^{which} fall under the treatment of Mr George Young where the patella was dislocated outwards and caused some difficulty in being reduced.

The sufferer was a female who by falling had the patella slip over the external condyle of the femur, where it firmly lay. He endeavoured by pressure to reduce the dislocation with no effect. Finally by

placing the woman's heel upon his shoulder he caused the relaxation of the strong muscles. Thus much accomplished he placed the ball of his thumb against the edge of the patella which quickly resumed its place under the force applied.

This may be considered simple dislocation, whereas other forms which are much more difficult of reduction may be ^{called} complicated dislocation if I am permitted to perpetrate the titles of distinction. The bone may be so thrown out of its place as to be turned half round so that it may rest on its edge and we will find by giving a case, the truth of this assertion.

This I beg leave to copy from Mr Cooper's excellent work on the subjects of dislocations and fractures

8

Mr Welling, formerly surgeon at Hastings, was called to a case in which the patella was dislocated upon its edge.

"The nature of the accident was very obvious, as the edge of the bone forced up the integuments to a considerable height between the condyles on the fore part of the joint. Mr Welling reduced the dislocation, but with considerable difficulty, by pressing the edge of the bone in opposite directions when the leg was extended." One or two more cases perhaps will not wear upon the patience of my readers, as they are exceedingly interesting to fathers of science.

"I was called, says Mr. Mayo, to
" a consultation by my friend Mr Brough-
" ton, upon the dislocation of the patel-
" la, which had occurred on the follow-

Mr. Belling, formerly surgeon at the
Army, was called to a case in which the
patella was dislocated upon its edge.
The nature of the accident was very
obvious, as the edge of the bone forced up
the integuments to a considerable height
between the condyles on the free part of
the joint. Mr. Belling reduced the
dislocation, but with considerable dif-
ficulty, by pressing the edge of the bone
in opposite directions when the leg was
extended. "One or two more cases per-
haps will not occur upon the fracture of
my readers, as they are exceedingly rare
relating to fractures of bone."
"Two called, says Mr. Mayo, to
"a consultation by my friend Mr. Pugh
"upon the dislocation of the patella
"which has occurred on the follow-

"ing circumstances; a private of the sec-
 "ond Life-guard a stout muscular young
 "man, was struck sharply on the right
 "knee by the knee of another soldier, as
 "in the exercises two opposite lines rode through
 "each other. They were riding at a walk,
 "~~but~~ but the soldier on the right of our pa-
 "tient had spurred his horse, so that it
 "moved forward briskly. By this accident
 "the patella was dislocated outwards and
 "rested with its inner edge upon the
 "outer surface of the external condyle,
 "the fore part of the patella facing for-
 "wards and inwards. As the patient
 "lay with the knee extended, he expe-
 "rienced no pain; there was no tension
 "of the quadriceps extensor cruris; the
 "patella admitted of a slight degree of
 "motion forward or backward, turning upon

...circumstances; A piece of the sec-
and the guard a short number of p...
...was, was struck sharply on the right
...by the base of another bullet, as
...in the evening two opposite lines were thought
...each other. They were riding at a walk,
...but for the soldier on the right of the...
...tent had pointed his base, so that it
...moved forward briskly. By this accident
...the patella was dislocated outwards and
...rested with its inner edge upon the
...outer surface of the external condyle
...the fore part of the patella forming a
...wards and inwards. As the patient
...lay with the knee extended, he ex-
...perienced no pain; there was no tension
...of the quadriceps extensor muscles; the
...patella consisted of a slight degree
......
...position forward or backward, turning the

"its inner edge, which seemed caught behind
"the prominent margin of the articular
"surface of the condyle.

" We tried the following methods to re-
"duce the dislocation: 1 The knee remain-
"ing extended we pressed the outer edge of
"the patella downwards, forcing ~~the bone~~
"the bone at the same time strongly in-
"wards. 2. Force was applied in the
"same manner, the joint being rather
"more than half bent. 3. We used the
"same sort of pressure, beginning it
"while the knee was bent, and contin-
"uing it forcibly as possible at the mo-
"ment that the joint was brought to the
"extended position. Bending the knee
"to the extent described we found gave
"the patient great pain, and caused the
"patella to ^{move} not obliquely but directly

the prominent margin of the cartilage
and inner edge, which turned slightly behind
the surface of the cartilage.
The third the following methods to re-
duce the dislocation: 1. The hand remain-
ing extended we flexed the outer edge of
the patella downwards, forcing the bone
the bar at the same time strongly in-
wards. 2. Force was applied in the
same manner, the joint being rather
more than half bent. 3. We used the
same sort of pressure, beginning it
while the bar was bent, and contin-
uing it finally as flexible as the mo-
ment that the joint was brought to the
extended position. During the force
to the extent described we found great
the patient great pain, and caused the
patella to rest ^{more} obliquely but directly

11
"forwards. These attempts proved unavailing,
" and we left the patient for a time. In
" the afternoon we met at the Anatomical
" Theatre in Great Windmill Street, and
" examined the nature of the dislocation
" of a dissected limb, when we found
" that upon bending the knee to the utmost
" the condyle was almost wholly drawn a-
" way from the patella; and we thought
" it reasonable to expect that if the joint
" in our patient should be found to admit
" of perfect flexion, the patella would in
" that case, as we had seen in the dis-
" sected limb, become disengaged from
" the condyle, and the dislocation be spon-
" taneously reduced by the action of the
" quadriceps extensor cruris.

" We returned to the Barrack Hospi-
" tal, and our patient expressed his willing-

forward. These attempts were made
and we left the patient for a time. In
the afternoon we met at the Anatomical
Theater in Great Brunswick Street, and
examined the nature of the dislocation
of a displaced limb, when we found
that upon bending the knee to the utmost
the cordage was almost wholly drawn
up from the patella; and we thought
it reasonable to expect that if the joint
in our patient should be found to admit
of perfect flexion, the patella would in
that case, as we had seen in the dis-
located limb, become disengaged from
the cordage, and the dislocation be
temporarily reduced by the action of the
muscles extending the knee.
The returned to the Anatomical Theater
at 7, and our patient expressed his willing

"next to submit to the experiment which
 "we purposed to try. He was laid upon
 "the left side, and his right-ankle was
 "grasped by a comrade, who, when we
 "bade him, suddenly carried the heel
 "back to the hip thus bending the knee
 "to the utmost, The motion was hardly
 "completed when the ^{patella} audibly returned
 "into its socket.

This though rather a difficult case was
 not equal to another, mentioned in Sir
 Astley Cooper's excellent work on disloca-
 tions & fractures, P. 179 Case CX. Ed. 1844.

Daniel Heimbock, a young soldier in
 the "Hussars of the Guard," was riding at a
 moderate walk, 27th Dec, 1823, when he
 came in collision with a fellow soldier, dis-
 location of the patella was the immediate conse-
 quence. He was gently taken from the

up to submit to the experiment which
we proposed to try. He was laid upon
the left side and his right arm was
"grasped by a comrade, who, when we
"broke him, suddenly carried the ball
"back to the hip then landing the blow
"to the stomach. The reaction was hardly
"checked when the ^{ball} quickly returned
"into its socket.

This though rather a difficult case was
not equal to another, mentioned in the
"Lectures on the Venereal Disease"
this is a fact, p. 179 Vol. IX. Ed. 1844.
"Lectures on the Venereal Disease", a young gentleman
the "Lectures on the Venereal Disease", was writing me
"Lectures on the Venereal Disease", 27th Dec. 1828, when he
"Lectures on the Venereal Disease" with a fellow student, Dr.
"Lectures on the Venereal Disease" was the immediate cause
"Lectures on the Venereal Disease". The new party taken from the

saddle and conveyed to the hospital. It was found on examination, that the patella had taken a semi revolution on its longitudinal axis; its right lateral edge was firmly held in the trochlea, in the middle of the condyles of the os femoris the surfaces were perfectly reversed, the inner out, and the outer in.

After mature and sage deliberation it was decided that the patient should undergo an operation, accordingly an incision was made commencing one inch above the patella extending inferiorly to the sharp edge or spine of the tibia. The tendon was fairly exposed, after a few strokes of the knife divided; all this was productive of no benefit, now the tendon was divided near its insertion (Wilson says it is proper to consider the patella as a serenooid bone developed within the tendon of the rectus, and the

...and compared to the ...
...in examination, that the ...
...in a ...
...is right lateral edge ...
...in the middle of the ...
...the ...
...the inner cut and the outer in ...
...After ...
...decided that the ...
...operation, accordingly an ...
...commencing on ...
...ending in ...
...of the ...
...after a few ...
...all this was ...
...the ...
...Below ...
...patent as a ...
...within the ...

ligamentum patella as the continuation of the tendon to its insertion into the spine of the tibia" nothing towards success and the case was abandoned. The bleeding was not great, ^{and} sutures were used in closing the wound.

In the lapse of time the wound went on to suppuration which occasioned an abscess in the posterior femoral region which was punctured and the matter evacuated.

In March chronic inflammation of the bowels appeared, in September "general oedema and ascites;" the latter of which gave the patient his deathstroke. He sank on the eighteenth, November, 1824.

There is room here at least for one question, which is, would not the patient have done better, had the patella been left as it was found? This interrogation may perhaps be answered only, by trying the

Experimentum Patella as the continuation
of the tendon to its insertion into the spine
of the ribs "nothing towards success and the
case was abandoned. The bleeding was not
great, ^{and} but was used in driving the hand.
In the latter part of the second year
in the suppurative which occurred in a
case of the pectoris found again which
was punctured and the matter evacuated.
In March chronic inflammation of the
lungs appeared, in September "general"
disease and acute; the latter of which for
the patient was fatal. The case is
the eighth, November, 1824.
There is some case at least for one year
in which is, would not the patient have
been better, had the pectoris been left as
it was found? This is a question which
perhaps be answered only by trying the

experiment should a like accident happen.

If we should prognosticate what would be the termination of the case we would very rationally infer that the worst end would be an amputation of the leg above the knee. In what case would this be necessary? The cartilages of the joints covering the patella, the head of the tibia, the condyles and the trochlea of the femur might (from the irritability caused by the abnormal position of the patella) undergo ulceration and even suppuration.

The patient's constitution may under these circumstances become reduced through the intervention of hectic accompanied by severe pain and sleepless nights, finally life being endangered, amputation would be justifiable to save it.

But it is hardly probable that things would

experiment should be like accident happen.
If we should experiment what would
be the termination of the case we would
very naturally infer that the result and
would be an amputation of the spine
the case. In other case would this be
necessary? The cartilage of the spine on
being the vertebrae, the head of the spine,
the cartilage and the vertebrae of the spine
might form the instability caused by the
abnormal position of the vertebrae and
so amputation would even be sufficient.

The patient's constitution may make
these circumstances become reduced
though the intervention of such occur-
rence by severe pain and sleepless nights,
finally the being unchanged amputation
would be preferable to have it.
But it is nearly probable that things would

was so formidable ^{an} aspect, provided skilful treatment was placed in opposition to the threatening symptoms. Yet we might suppose that under the ^{best} medical and surgical advice anchylosis would be inevitable.

For the constitution must be supernatural indeed, that could resist inflammation and ulceration under such adverse circumstances.

In Mr. Cooper's observations on this case he seems to consider the incision into the capsular ligament of minor consequence, or as a minor cause in kindling the destructive inflammation which was set up in the joint. "Of far greater consequence" says he "was the reduced patella, which contributed to the inflammation succeeding the accident, and by the pressure exercised on the cartilaginous covering of the femur, occasioned

its destruction. Undoubtedly the patella, severed as it was from the muscle and the bone, proved the main source of the inflammation, for it may perhaps be thought - with a deal of truth, that the patella acted partially as a foreign substance chinked in the joint. When we reflect that the patella was by the accident torn from the surrounding teguments we cannot but suppose that after the division of the tendons, or its isolation from its tendon that it would cease to receive a sufficient quantity of nutriment from the vascular system to maintain its wonted vitality and therefore die.

Without further remark we proceed to mention "Dislocation of the patella upwards" It may be well to inquire, how this is to occur? It takes place

its destination. Undoubtedly the vessels,
which it was from the source and the
of the main source of the inflammation,
it may perhaps be thought that a
of such, that the vessels acted partial
by as a foreign substance which in
the joint. When we reflect that the
vessels are of the vascular system
the understanding of the nature of the
but suppose that after the closure
of the vessels, ~~is still sufficient to~~
~~maintain that it would be to~~
a sufficient quantity of inflammation from
the vascular system to maintain the
constant activity and that the
without further means we passed to
maintain "Proliferation of the vessels of
which" It may be well to inquire,
how this is to occur? It takes place

only when there is a sufficient force exerted to lacerate and rupture the ligaments of the patella by contraction of the rectus femoris muscle, which action inevitably must draw the patella above its natural position. It is easy to diagnose the nature of this accident. The decided elevation above the condyles of the os femoris occasioned by the patella and the deep depression where the patella ought to be, ^{is self evident of the injury} ~~speaks the impact tinged to the os of the femur.~~

Treatment. Active antiphlogistic treatment should be adopted. Leaches may be employed over the parts affected; evaporating lotions will be beneficial in reducing the excitement of inflammation, when this has subsided a roller may be useful about the foot and leg, to support the

... is a sufficient force ...
to separate and collapse the segments of
the patella by contraction of the ...
muscle, which action ...
... the patella ... its ...
... to ...
the nature of the ...
... the ... of the ...
... of the patella and
the deep ... where the patella
... is ...
~~...~~
~~...~~

Treatment. Active antiphlogistic
... should be adopted. Leeches may be em-
ployed over the parts affected; evaporating
lotions will be beneficial in reducing the
excitement of inflammation, when this
has subsided a colder may be useful
about the feet and leg, to support the

19
the fleshy parts and suppress swelling.

Extension of the leg upon the thigh must not be neglected, since this is one of the most important steps in the successful treatment of this dislocation, thus can be effected by a splint behind the knee joint and an apparatus is to be adjusted so as to bring down the patella as near as possible to its natural location.

When the surgeon is convinced that union of the ligament has occurred, it will be well to advise moderate exercise of the joint, to prevent as much as possible, the deformity which is apt to occur, while the cure progresses it will not be improper to keep the patient in a sitting posture, that the rectus femoris muscle may be relaxed, and

The fleshy part was rapidly swelling.
Extension of the ligament the thing
must not be neglected, since the more
of the most important steps in the
effect treatment of this condition, the
can be effected by a splint to bind the
the joint and an operation is to be
adjusted so as to bring down the foot
is as near as possible to its natural po-
sition.

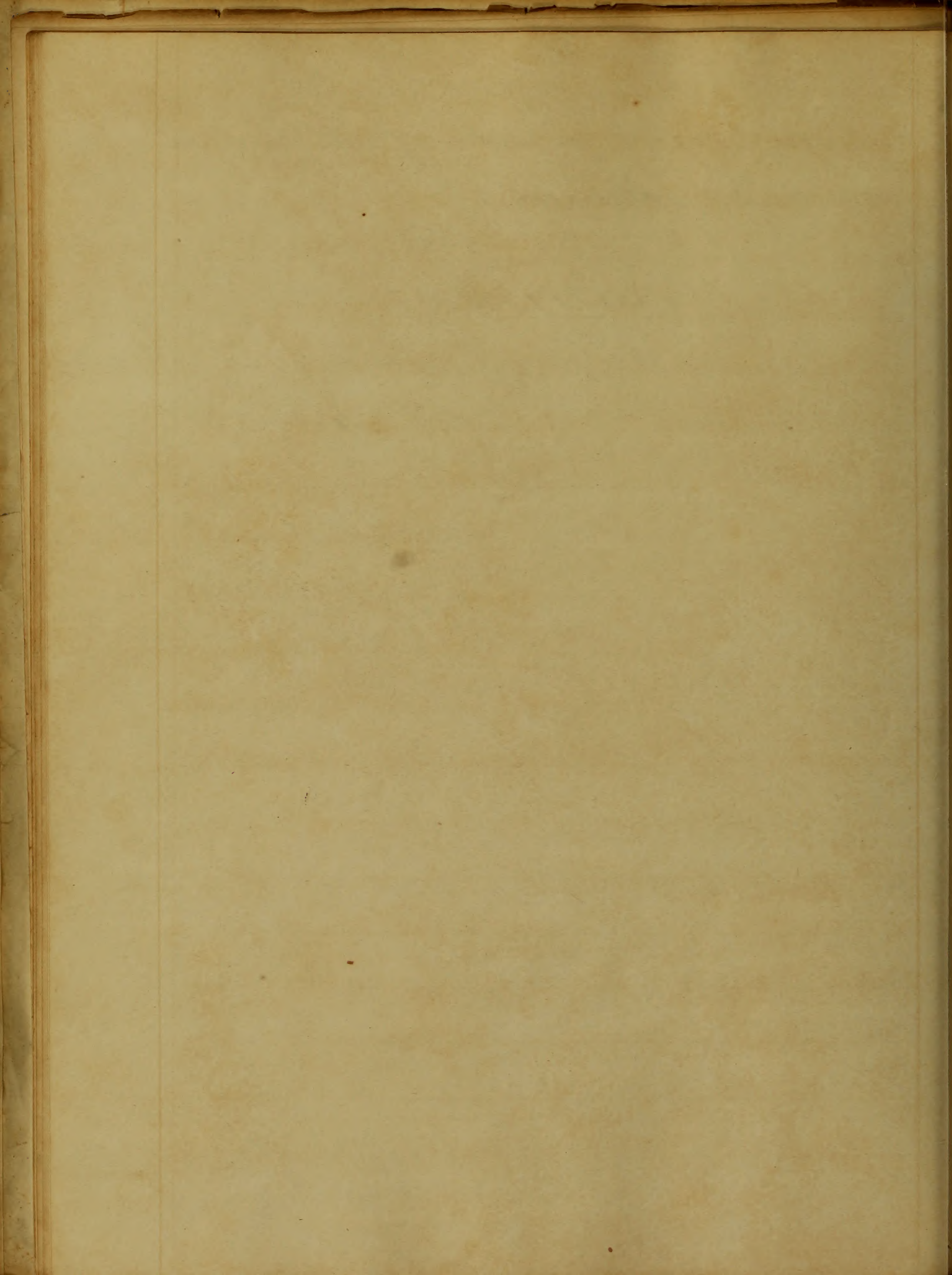
When the danger is removed, the
use of the splint has ceased, it will
be well to advise moderate exercise
the joint, to prevent its becoming stiff
After the splint is removed, it will
occur, while the case progresses it will
not be improper to keep the patient
in a sitting posture, that the
various muscles may be relaxed.

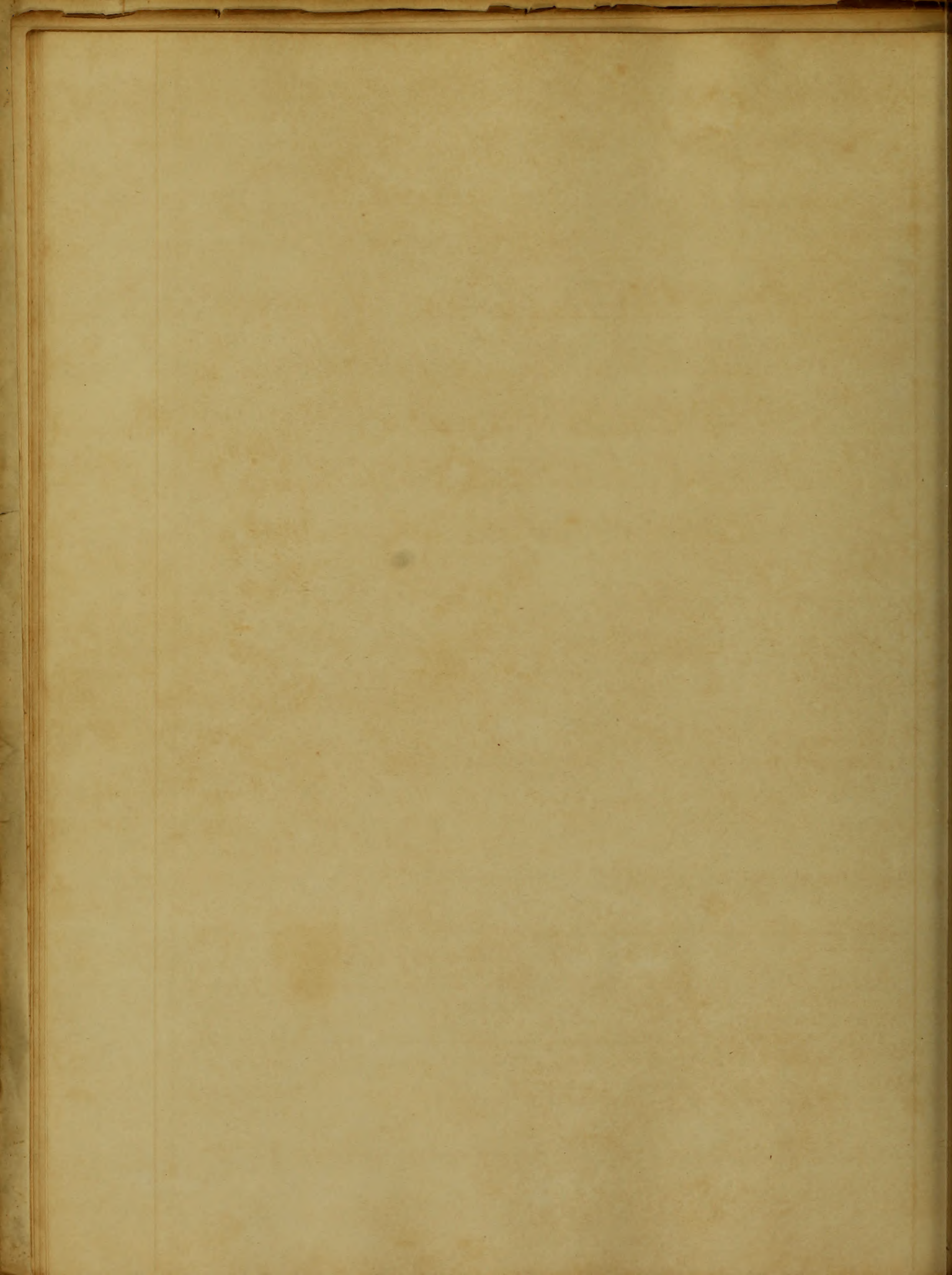
more perfect union of the injured
ligament obtained.

Baltimore
January
1845

more perfect manner of the original
document obtained.

William
Lawrence
1872





The Proceedings of the

General Assembly

Submitted to the Commission

of the

State of Maryland

for the year 1800

at Annapolis

Printed by

Samuel Chiswick

The Government of
the State of New York
in the year 1800
do hereby certify that
the following is a
true and correct
copy of the
act of the Legislature
of the State of New York
passed on the 14th day
of March 1800
relating to the
office of the
Comptroller of the
State

An Inaugural Dissertation
On
Erysipelas
Submitted to the examination
of the
Provost Regents &
Faculty of Physic
of the
University of Maryland,
For the degree of MD
by
J. S. M. Gordon
of
Piquette Ohio

March 1845

The Disquisition on
or

Proposed
Submitted to the examination

of the
Faculty of
of the

University of Maryland
for the degree of

by
of the

of
Ohio

1842

Respectfully Dedicated
to the
Faculty of Physic
of the
University of Maryland

Respectfully
to the
Faculty of Arts
of the
University of Maryland

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

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

To Dr. R. D. D. D. D.

It having been a long established custom to dedicate Inaugural Dissertations; on the present occasion I greet the custom with truly heartfelt pleasure that it affords me an opportunity to show at least in a small degree that high respect which I bear to one whose high wrought talents and scientific character is only surpassed by his moral worth as a man

With many desires and hopes for a continuance in that high and lofty path of renown which has been so deservedly won

I Remain yours humbly
J. M. Gordon

To His Excellency

It having been a long while
since we have had the pleasure
of seeing you in the present
the custom with truly beautiful
that it affords me an opportunity to show
at least in a small degree that high
respect which I bear to one who has
possessed talents and scientific character
to every degree by his moral worth
as a man
With every desire and hope
for a continuance in that high and
happy path of science which has
been so characteristically yours
I remain your humble
servant

Erysipelas

This disease has been rejected from the exanthemata, by some authors, simply because it is not contagious, and may recur frequently in the same individual. Its study is useful by throwing light on the kind of connexion and sympathetic action, direct and alternate between the skin and internal organs.

Erysipelas is a disease extremely common in almost every part of the world, but perhaps of more frequent occurrence in some portions of the United States, than in other parts of the world. It prevails at some seasons of the year as an epidemic, attacking all the members of a family or families in succession, which has been the foundation of an opinion of its contagion. Therefore it may be con-

Chapitel

This chapter has been expected from the
construction of the book, and it may
be said that it is not a separate
chapter, but rather a part of the
study in itself, for the study of light
on the part of experiment and theory
is not a study which is entirely
foreign to the other parts of physics.
The study is a study which is
not only a part of the study of
physics, but also a part of the study
of the history of science, and of the
history of the human mind. It is a
study which is not only a part of
the study of physics, but also a
part of the study of the history of
science, and of the history of the
human mind. It is a study which
is not only a part of the study of
physics, but also a part of the study
of the history of science, and of the
history of the human mind.

sidered one of the most interesting, and
 sometimes one of the most difficult dis-
 eases to manage. The young as well as the
 old and decrepid, are attacked by it, and
 Doct. Gross and other physicians have
 seen it in newborn infants. It occurs
 more frequently in persons of a deterior-
 ated worn out constitution and pre-
 dispositions, and is frequently preceded
 and accompanied by symptomatic
 fever. It may occur upon any part of
 the body, but the head, face, and legs
 are by far its most frequent situations,
 or more generally parts which are the
 most exposed to air. The face is its most
 frequent seat, and it attacks the right
 side much more frequently than the
 left, supervening in some particular
 constitutions or predispositions, upon

the slightest scratch or wound. When the disease attacks the face, the first evidence may be a slight redness at the tip of the nose, or a bright blush on any part of the cheek, thence the eruption spreads, and the swelling sometimes becomes so great, that the features cannot be distinguished, the cellular tissue of the eyelids, lips and cheeks readily admitting infiltration. In these cases the constitutional symptoms consist of general febrile irritation, sometimes inflammatory at others typhoid, and occasionally not markedly either, the one or the other. Frequently there is considerable cephalalgia, sleepiness, and when the fever runs high, more or less delirium, and, occasionally, positive meningitis.

When erysipelas attacks the hairy scalp, the redness is not so great,

The right vessel is situated in the
middle of the face the first evidence
being the slight depression at the tip of
the nose in a slight dent in the
of the vessel, these the
with the branching structure
great that the vessel cannot be
temporarily the relation
like the one which is
in the case the
of general
of the vessel, and
usually not
to the vessel, the
evidence of the
the vessel, and
the vessel, and
the vessel, and
the vessel, and
the vessel, and

in consequence of the inflammation being seated, chiefly in the subcutaneous cellular tissue; but the part is exceedingly painful to the touch. Occasionally suppuration and even gangrene take place, portions of the scalp slough away, and deterioration of the pericranium ensues, leaving the bones exposed. In some rare instances the cellular membrane surrounding the parotid, and cervical ganglions suppurates.

Erysipelas is divided into two varieties, the simple and the phlegmonous. The first or simple variety is seated exclusively in the dermoid tissue, and is characterized by diffused redness, with slight swelling, increased heat, and a tingling burning sensation; the skin looks of a bright crimson or deep cherry hue, the redness disappearing under pressure

5

but returning almost immediately after pressure is removed. There is no sense of throbbing in the part, as is felt in the phlegmonous inflammation. The burning sensation experienced in this disease doubtless depends upon its being allied with the tissue in which the nerves of touch spread out their extremities; and the absence of throbbing is easily accounted for, because the vessels engaged in the inflammation are so minute, that at the utmost extent of their expansion, they are too small to impart a sense of throbbing to the finger when applied to the part where the inflammation exists, or even to the feel of the patient himself. When the inflammation in this variety of erysipelas runs very high, the cuticle puffs up into vesicles, which vary in size from a grain of mustard

to a large bean, and contain a serous fluid of a straw color and sometimes of a bloody appearance. These vesicles usually appear within the first forty eight hours, break in the course of one or two days, and are replaced by thin hard yellowish crusts, which subsequently become black; sometimes however after the vesicles break ulcerations supervene. In mild cases of the disease the redness disappears on the third or fourth day, assumes a yellowish tinge, the swelling diminishes, the skin wrinkles and the epidermis is detached in small bran like scales.

This disease is not infrequently evanescent, leaving no other traces than a slight desquamation. The least contact with the part augments the irritation.

There is generally a considerable degree of constitutional derangement accom-

to a larger beam, and a certain amount
of a strain, and a certain amount of a
heavy appearance. The first part of the
from within the first part of the beam
in the course of one or two days, and
is followed by the first part of the
subsequently become black; the first part
after the vessels break and continue
the whole course of the vessel the
disappear on the first or second day, or
within a yellowish time, the swelling
takes the form of a white and the
is located in a white line like a
This disease is not infrequently
to say the least, more than a slight
quantity. The least contact with the
first part of the vessel
There is generally a remarkable
degree of constitutional development

-paring cutaneous erysipelas; the tongue
 is coated; the pulse is quick, and small;
 there is thirst, uneasy sensation about the
 præcordia, and a universal feeling of lan-
 -guor and debility. The severity of these symp-
 -toms is often disproportionate to the appa-
 -rent extent and severity of the local
 inflammation, which is probably owing
 to the peculiarity of the tissue affected,
 namely its being that upon which the
 nerves of sensation are extensively dis-
 -tributed.

In phlegmonous erysipelas besides
 the phenomena above described there
 is often very great swelling of the
 subcutaneous cellular texture, with
 infiltration of acid and bloody
 serosity, suppuration or sloughing.
 This form of the disease is most

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher due to its orientation and fading. It appears to contain several lines of prose, possibly a letter or a journal entry.

frequently seen about the eyelids, and legs in old intemperate subjects and is usually attended, by great constitutional disturbance; the affected part is exceedingly painful and the dermoid and cellular tissue often slough in large patches, the cellular coming away in dark cloudy dirty looking shreds resembling wet tow. This taking place the limb is left in a bad condition. If the patient should survive there is left hollow spaces frequently to a great extent between the integuments and the muscles

Causes of Erysipelas. Those persons who are liable to affections of the skin, to gout and who are subject to disorder of the stomach, and bowels are very liable to be attacked by the

disease. It may be caused by the action of external agents, by all those that can induce erythema, as by irritating substances applied to the skin. Burns and scalds when to a certain degree are considered forms of erysipelas. However some separate inflammations of the skin which are induced in this manner from erysipelas, which they affirm always depends upon constitutional causes. But whether a person be predisposed to erysipelas or not, there is no doubt, but they will have it induced by irritating agents. Hot agents applied to the skin, such as cantharides and mustard not infrequently induce the disease.

Erysipelas frequently supervenes on wounds of the head, whether from accident or art, and has been already

stated occurs more frequently on the head, spontaneously, but slight constitutional disturbances being required in these cases for its development. The intemperate who are accustomed to the daily use of alcoholic potations, or who drink large quantities of porter or ale daily, are especially liable to it. The slightest scratch of a pin or pointed instrument inducing in such persons erysipelas very difficult of cure.

Erysipelas prevails at times epidemically. It is seen in surgical wards of hospitals attacking almost every individual, causing the surgeon to avoid all operations that are not indispensably necessary, under fear that the wound may be attacked by it. In these cases the spread of the affection must be owing to the inmates of the ward, being exposed to the same

influenced, which caused in them the requisite predisposition. When one is in the wards of a hospital, it is extremely difficult to get rid of; and it is the source of much anxiety to all connected therewith.

Treatment.— In slight cases of erysipelas not much attention is needed, in the administration of internal remedies, it may be sufficient to keep the patient at rest, to make him adopt the antiphlogistic regimen, and prescribe first an emetic, followed by saline cathartics, with which remedies practitioners not infrequently conjoin, diaphoretics and the saline mixture. In the severer cases of erysipelas however, more powerful remedies must be resorted to.

Bleeding in the milder forms of the disease is now pretty generally

Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines.

allowed to be as unnecessary as it is urgently required in the more severe forms. It has been rather a prevalent notion, that it is unnecessary to repeat bleeding as frequently in erysipelas as in other species of inflammatory diseases. We should be guided, however in this respect by the extent, and violence of the inflammation, the state of the pulse, the patients age, strength, and other important considerations. Like in other inflammatory diseases the patient should be bled just as often as the pulse indicates it. While some authors recommend bleeding as highly beneficial, others condemn it as decidedly injurious. It might be that both these opinions were right, as regards the practice of those who have thus treated erysipelas; because in the first instance, it may have been resorted

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 principle of the
 conservation of energy. The second part of
 the paper is devoted to a description of the
 experimental apparatus used in the
 experiments. The third part of the paper
 is devoted to a description of the
 results of the experiments. It is shown
 that the results are in agreement with
 the theory. The fourth part of the paper
 is devoted to a discussion of the
 results. It is shown that the results
 are in agreement with the theory. The
 fifth part of the paper is devoted to a
 conclusion. It is shown that the theory
 is in agreement with the results of the
 experiments.

to under circumstances warranting its employment, while in the second it may have been resorted to when every consideration of the state of the system would have forbidden it. Where the system is highly excited, and more especially if any of the viscera become secondarily affected, the pulse hard and frequent, blood should be drawn, be the period of the disease or the age of the patient what they may; it must be remembered however that very old people, or very young children, will not bear the loss of the same quantity of blood at once, though they may its repetition, with advantage this the pulse and other symptoms will determine. There is nothing which will diminish the excitement of the system, so promptly, or so efficiently, as the abstraction

The first part of the paper is devoted to a
 general consideration of the subject, and
 to a statement of the objects of the
 present inquiry. It is then divided into
 three parts, the first of which is
 devoted to a description of the
 objects of the inquiry, the second
 to a description of the methods
 employed, and the third to a
 description of the results. The
 first part is divided into two
 sections, the first of which is
 devoted to a description of the
 objects of the inquiry, and the
 second to a description of the
 methods employed. The second
 part is devoted to a description
 of the results, and the third
 to a description of the methods
 employed. The first part is
 devoted to a description of the
 objects of the inquiry, the
 second to a description of the
 methods employed, and the
 third to a description of the
 results.

tion of blood, whenever the disease is sudden in its appearance, rapid in its progress, and threatening in its aspect; for if the excitement of the system be not promptly diminished, the inflammation may speedily terminate in gangrene. Many think this reduction may be more safely, and as speedily effected by purging; but this is certainly a mistaken idea, though much reliance can be placed on this mode of evacuation, where the system is not highly irritated, nor the disease rapid in its progress.

The propriety of leeching in erysipelas has been doubted by some authors, but again has been very highly recommended by others and on very just grounds. The leeches should be applied over the inflamed part, not around it, as advised by some. Because

the patient be young and vigorous, cannot
 be questioned, nor can the good effects of
 purging to a certain extent be doubted in
 aged and debilitated constitutions when
 the bowels are costive and very tardy, Under
 the first circumstances, the saline purgatives
 should be administered, but under the
 latter castor oil, or small but repeated
 doses of calomel when the stomach will
 not receive the oil, should be preferred.
 Calomel should also be given to very
 young children in preference to the
 saline purgatives, as the latter are very
 difficult to administer in any profitable
 quantity. — The utility of purgatives is most
 evident in cases in which the erysipelas
 attacks the face and head; as in these
 cases delirium is more certain to attend,
 than when the inflammation is located

The patient for young men appears, and
 the position was brought into effect of
 depending to a certain extent on the
 system with established regulations which
 the laws are certain and every day
 the first circumstances, the latter
 which for a short interval but under the
 latter order, in all that is
 then of a certain kind, the latter
 but because the latter is
 latter which also be given to
 given which in proportion to the
 latter proportion, on the latter
 sufficient to maintain in any
 given the ability of proportion to
 latter and also in the latter
 latter the force and power in these
 in conditions to more certain to
 from which the latter is

on the body or extremities; and free discharges from the bowels, appear very constantly, to relieve the brain, when in a state either of congestion or inflammation.

Doct Physick has strongly recommended the application of blisters to the affected part in this disease, and they not unfrequently prove the means of at once arresting the inflammation. In these cases of tegumentary inflammation a dilated and atonic condition of the extreme vessels exists, which the stimulation of the vesicatory is often successful in removing.

Mercurial ointment is another remedy which is highly recommended in cases of erysipelas; but from experiments tried by some of the french authors, it has been found that the good effects de-

pended solely upon the lard, which protects the part from the influence of the atmosphere, and as there is great danger of salivating with the mercury, the simple lard should be preferred in all cases.

In the phlegmonous form of the disease Mr Lawrence and others recommend making free incisions through the inflamed skin and the subjacent adipous and cellular textures, which are the seat of the disease, so as to completely unload the overdistended vessels and fibres, and to admit of the discharge of any effused serum or purulent matter. These incisions, are followed almost instantaneously by relief and cessation of the pain and tension, and this alleviation of local suffering, is accom-

11
The first part of the paper is devoted to a
discussion of the general principles of the
theory of the function of the
mind. It is shown that the
function of the mind is to
represent the objects of the
external world in the
internal world of the
mind. This is done by
means of the senses and
the imagination. The
senses receive the
information from the
external world and
the imagination
represents it in the
internal world of the
mind. The function of
the mind is to
represent the objects of
the external world in
the internal world of
the mind. This is done
by means of the senses
and the imagination.

panied by a corresponding interruption of the inflammation, whether it be in the stage of effusion, or in the more advanced period of suppuration and sloughing. The incisions when made during the existence of active inflammation, are followed by profuse bleeding, both from arteries and veins, which probably has an important share in arresting the inflammatory action. The good effects, however, cannot wholly be ascribed to this cause, for it takes place even when there is very little loss of blood. The relief has been ascribed to the removal of the tension, which always exists in a greater or less degree; the edges of the wound usually gape and the surrounding skin not only loses its deep red colour, but soon becomes wrinkled on the surface;

two changes which readily explain the great and sudden benefit usually produced by the incisions.

Punctures are used in the milder forms of erysipelas instead of incisions, and with marked benefit. When puncturing has been practised from the first appearance of the disease, suppuration rarely takes place. The number of punctures must vary according to the extent of the disease, there should be rarely under ten, and seldom exceeding fifty; the depth and extent of each puncture vary according to circumstances, being made deeper when the parts are more tumid, but more superficial when the tumefaction is not so great; they therefore, should vary from two to four tenths of an inch

Among the topical remedies in erysipelas
 The Tincture of iodine holds a high rank,
 and according to Mr Montgomery some
 very remarkable cures have been effected,
 by the application of this remedy alone.
 It is a remedy now pretty generally resort-
 -ed to in cases of this disease, and there
 is great confidence placed in its effi-
 -cacy. It is applied to the part inflamed,
 with a camels hair pencil painting the
 part, at first, with the tincture of its
 full strength and diminishing it in
 strength as the disease decreases in
 severity

the nature of the original intention in respect to
the intention of making holes in high banks
and according to the Highways Act
very considerable sums have been expended
by the application of the necessary works.
It is a remedy more fully generally
and to the view of this course as a thing
is great confidence placed in its effi-
cacy. It is applied to the best advantage
with a view to the preservation of the
land at first with the intention of the
full extent and duration of it in
respect to the disease described in
the Act.

An Inaugural Dissertation
on Dysentery.

Subject to the examination
of the
Provost Regents
and
Faculty of Physic.
of the.

University of Maryland.

for the degree
of
Doctor of Medicine.

February 1845

by

Joseph C. Hughes.

Washington County
Pennsylvania

[Faint, illegible handwriting on lined paper]

2

Dysentery, as I have chosen this as the subject of my Thesis, and considering it a disease upon which there is not much diversity of opinion among the medical writers of the present day, a subject, which from my pen will not meet with any improvement. Though so far as my knowledge extends (practically or even theoretically it is but limited) but taking Cole and others as my guide, I shall endeavour to do justice to the subject so far as in my power.

But before commencing a description of this disease, I might mention other diseases affecting the same tissue. For instance, we have Gastritis, an inflammation commencing in the mucous tissue of the stomach — extending to and involving the other

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

3

tissues composing that viscus, the urgent symptoms and sufferings in that region mark it out as being the seat of the disease.

Again we have mucous enteritis an inflammation confined chiefly to that part of intestine called the duodenum. The bitter taste and jaundiced skin, together with diminished appetite point out the part inflamed.

This name is not only ^{given} to inflammation of the duodenum, but Nosologists have also applied it to inflammation of other portions of the Alimentary canal, The small intestines for instance, or they have even gone so far, as to give this name to the disease I am about to speak.

But I shall not take it upon myself to say which of the names are most

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

4
applicable to the present disease. I suppose either would be proper, but what what I shall have to say when speaking of this particular inflammation, shall be under the title of dysentery.

Dysentery the subject of the present treatise affects more particularly and especially the large intestines as the colon and Rectum; but inflammation has been found upon post mortem examinations to have extended throughout the small intestines.

The greatest pathological evidences are found in the large intestines as ulcerations, red patches protruding from the surrounding parts, the inner membrane thickened, also thickening of the muscular and peritoneal coats, and even gangrene of a portion of

5
the colon admitting the faeces into the cavity of the abdomen, to this may be added in some cases general inflammatory evidences and marks upon the peritonaeum. When death ensues soon after the attack, in some cases, agreeably to the report of Recamier, no other marks were found but a slight erysipelatous blush supposed to proceed from the presence of acrid and highly irritating fluids engendered within the intestinal canal. It were but reasonable to suppose that in these cases, some slight evidences of dysentery may have been present, but that death ensued from congestion upon some vital organ, diverted thereto by some undefinable cause.

The liver invariably suffers in this disease either structurally or functionally, and it is proper to add —

The editor admitting the fact that the
... of the ... to this way to
... in some cases ...
... and ...
... When ...
... in their ...
... in other ...
... but a ...
... to ...
... and ...
... within the ...
... to ...
... in this ...
... may have been ...
... from ...
...
...
...
...
... and ...

6
that all authors concur in the opinion
of the universality of the latter.

Symptoms.

The symptoms will point out the seat
of the disease. The loss of appetite,
lassitude, nausea, disagreeable taste
in the mouth, slight rigors, followed by
fever, a hot and dry skin, great thirst,
pain and load in the bowels, mucous
or bloody discharges, or both combined,
sometimes there is obstinate constipation
and sometimes a diarrhoea, oft times
there is nothing discharged but a
glary mucous, without the admixture
of either faeces or blood.

The patient suffers from tenesmus,
urgent repeated and ineffectual attem-
pts by stool, to free himself of the intol-
erable load pressing upon the lower
portion of the rectum.

that all authors concern in the opinion
of the universality of the latter.
The symptoms will point out the seat
of the disease. The loss of appetite
to be attended with considerable heat
in the mouth. Light signs, followed by
fever, a hot and dry skin, great thirst
burn and heat in the throat, various
in the discharge, or both combined.
In such cases is attended with
and sometimes a discharge of blood
has a striking discharge but a
sharp increased, without the attending
of other signs or heat.
The patient suffers from tenderness
urgent operation was ineffective obtain
the patient to free himself of the matter
which has pressing upon the lower
portion of the stomach.

1
After being exhausted with these painful and ineffectual efforts, in despair he throws himself upon his couch, and seeks for repose, but seeks in vain.

He is urged to a renewal of his efforts almost immediately with the same disheartening and discouraging results. This deplorable state of things continues until relieved by human skill, or by resolution, otherwise death closes his agonizing sufferings.

The pulse at first depressed becomes eventually hard to the feel, and finally frequent and small. It should the case have an unhappy issue, but full and soft if favourable. The tongue may have a dark fur in the centre, or a yellow fur at the posterior part when much bile is secreted, or it may be red, shining and polished.

After being acquainted with the same
the most imperfect state in which
the human mind appears in course, and
ready for deposit, but ready in course.
It is proper to a general of his
first almost immediately with the
more laborious and more
laborious state of things
and the mind is laborious by human
to the education, otherwise it is
in acquiring happiness.
The mind is laborious by human
laborious because essentially labor to
the fact, and finally independent and
the mind is laborious by human
laborious, but fact, and laborious
the laborious may have a laborious
the center, or a laborious fact at the
laborious fact which laborious is
laborious the laborious and laborious.

8
referable to atmospheric vicissitudes, and to the presence of miasmata.

Unripe fruits may produce a single case, but when it appears as an epidemic we must look for some other more extensive causes, long continued rains attended with cold and then succeeded by hot summer suns, constitute in the production of this disease, the chief causes. Humidity with cold will favour the centripetal direction of the fluids to the bowels, the continued heat following will greatly favour the production of ^{that} disease which the previous humidity had predisposed the system. The same causes too which would favour a momentum to the bowels, would also favour portal congestion, and therefore we cannot see the necessity of that nice distinction which ^{it} requires.

At first it is usually covered with a white coat, which as the disease advances changes to a brown, with red edges and tip. The fever at first is usually remittant, but again there are cases that are Typhoid from the beginning. The skin in general is dry, but in Typhoid cases there is oftentimes a clammy colligative sweat. The discharges from the bowels at first witness no odor, and again in Typhoid cases, where the diarrhoea is colligative - the faeces are offensive and acrid. In some cases there is incontrollable irritability of the stomach even ejecting remedies - intended to calm the disturbance of that organ

Causes. It usually appears in the form of an epidemic, in the hot summer months, and early in Autumn, Its presence in this form may be -

The first of us naturally conceived with
a noble view, which as the world
was changing to a broad world we
and life. The first of us naturally
conceived, but again there was a
natural spirit from the beginning. As the
in general of life, but the spirit was
the a question a changing relationship
the distance from the first of us
the distance, and again in spirit
the distance is relationship
the first of us conceived and so on. In
the first of us, a relationship of
the distance was a question of
the distance to come to the distance of the

Case The naturally opposed
in the form of an epidemic, in the
the first of us, and early in
the first of us, in the form of

that where there is functional derangement of the liver, and intermittant fever, there must be present in the atmosphere, Keino Miasmata.

If an isolated case produced by unripe fruits, or unwholesome food will present functional and even structural derangement of the liver and no Miasmata present, proves that it is not necessary to the production of all the phenomena manifest in this disease or even those symptoms found in other diseases usually referable to miasmatic influences: any cause which will favour the momentum from the surface to the bowels — attended with or succeeded by the prostrating and depressing influences of heat may produce this disease as an epidemic some modification of these causes will also change the character of the epidemic, as for instance

that volume there is furnished during
amount of the year, and returned
there, there shall be printed in the
copies, their instructions.

If an individual
could be induced by simple facts or words
to read first with great satisfaction and
then to understand the management of the
and the (theoretical) history, it is
it is not necessary to the production
of the paperman, especially in the
a more than sufficient ground in this
and usually, it is to be understood, in
and any other which will follow the
production from the surface of the
related with or connected by the
and the printing of the great map
and the choice of an epigram, or
relation of the words will also change the
character of the epigram, or its

where the symptoms are typhoid from the beginning and the scorbutic form, the production and result of cold and moisture conjoined.

Prognosis. A correct knowledge of the ætiology of the disease will aid us in making up our prognosis. If for instance we believe there is portal congestion, and also admit the connection between the portal and hæmorrhoidal vessels, we can readily explain and account for the good results following bloody discharges, and can therefore augur favourably for the case. For to relieve portal congestion is an important step in the cure. Free discharges of blood relieve this, therefore this indication is answered - per viam naturalis. The discharges of mucus alone renders the case intractable and unmanageable and the prospect unfavourable; cold clammy colligative sweats with a -

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, from the year 1820 to the present time. The names are arranged in alphabetical order, and the dates of their admission are given in parentheses. The names of the persons who have been re-elected are marked with an asterisk.

1820 ()
1821 ()
1822 ()
1823 ()
1824 ()
1825 ()
1826 ()
1827 ()
1828 ()
1829 ()
1830 ()
1831 ()
1832 ()
1833 ()
1834 ()
1835 ()
1836 ()
1837 ()
1838 ()
1839 ()
1840 ()
1841 ()
1842 ()
1843 ()
1844 ()
1845 ()
1846 ()
1847 ()
1848 ()
1849 ()
1850 ()
1851 ()
1852 ()
1853 ()
1854 ()
1855 ()
1856 ()
1857 ()
1858 ()
1859 ()
1860 ()
1861 ()
1862 ()
1863 ()
1864 ()
1865 ()
1866 ()
1867 ()
1868 ()
1869 ()
1870 ()
1871 ()
1872 ()
1873 ()
1874 ()
1875 ()
1876 ()
1877 ()
1878 ()
1879 ()
1880 ()
1881 ()
1882 ()
1883 ()
1884 ()
1885 ()
1886 ()
1887 ()
1888 ()
1889 ()
1890 ()
1891 ()
1892 ()
1893 ()
1894 ()
1895 ()
1896 ()
1897 ()
1898 ()
1899 ()
1900 ()

12
tympanitic condition of the bowels, with sanies
and involuntary discharges are unpromis-
ing symptoms. As the state of the skin is
an object of much solicitation, its persisten-
ce in heat and dryness are very unfriendly
so also a uniform moisture of the whole sur-
face is regarded as most favourable. The
abatement of tormina and tenesmus, and
tenderness of the abdomen, are hailed as
harbingers of good.

Treatment. First to
relieve urgent symptoms in medical parlance,
what are the urgent symptoms: the first-
which appeals eloquently to our sympathies
is the tormina and tenesmus, a most pain-
fully harassing and debilitating circumstance
in the case, second inflammation of the mucous
tissue of the bowels the reputed parent of the
first. Third, the heat of the skin with resolute
dryness. Fourth portal congestion.

The first and fourth demand the early exhibition of a large dose of Sub muriate Hydrargyri, followed by Oleum Ricini, to which there is added from twenty to forty grs of Sinc. of opium, to be repeated until free evacuations are procured from the bowels. If there be a bleeding pulse, that is, if the pulse be hard and corded it should be subdued by the lancet, and in connection use small and repeated doses of Sart of Ant in cold water or what is better, the mucilage of Gum Arabic or slipery elm. The more inflammatory symptoms being subdued, the secretion of the skin should next be attended to, to affect this, use the Comp pul Spreco, from 10 to 15 gr. with the pediluvium repeated at every exhibition of the powder, and the bowels are to be kept open by the exhibition of from 5 to 8 gr. of Blue Mass followed by Oleum Ricini

The first and most important
condition of a large class of our
business, followed by clean
there is a certain firmness to keep
the of opinion to be a certain
association in business from
it has to a certain point, that
it is to be done and outside of
the first and most important
condition of a large class of our
business, followed by clean
there is a certain firmness to keep
the of opinion to be a certain
association in business from
it has to a certain point, that
it is to be done and outside of
the first and most important
condition of a large class of our
business, followed by clean
there is a certain firmness to keep
the of opinion to be a certain
association in business from
it has to a certain point, that
it is to be done and outside of

14
and Tinc of opium. If this plan persisted in
does not relieve the tormina and tenesmus,
then recourse should be had to the hip bath
with large doses of opium. The purgation
should be kept up, because so soon as the
bowels are relieved from the stimulus of
medicines, of a purgative character, the
more distressing symptoms ~~which~~ will
return which is infinitely more debilitating
than free purgation itself. Then to secure
this desirable result the best course would
perhaps be to give the Mass Veg, with the
dovers powders every 8 hours, and inter-
mediate to this Ol uicini and Tinc Opii.
The liberal use of linseed or what is better,
the mucilage of Slippery Elm as a constant
drink. Among all the remedies used in
the treatment of this disease opium stands
first. For through its benign and salutary
effect, we gain a triumph over the disease-

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

It relieves pain and lulls the system into
repose, desiderata of the utmost importance
in this, one of those most painful ills to
which the flesh is heir.

Joseph C. Hughes.

Faint, illegible handwriting at the top of the page, possibly a header or title.

Faint, illegible handwriting in the middle of the page, possibly a signature or name.

An
Inaugural Dissertation
on
Pleurisy,
Submitted to the examination
of the
Provost, Regents and Faculty of Physic
of the
University of Maryland,
for the degree
of
M. D.
by
S. Kennedy Cwings.

Baltimore February
1845.

Am. ...
... ..

... ..
... ..

... ..
... ..

... ..
... ..

... ..
... ..

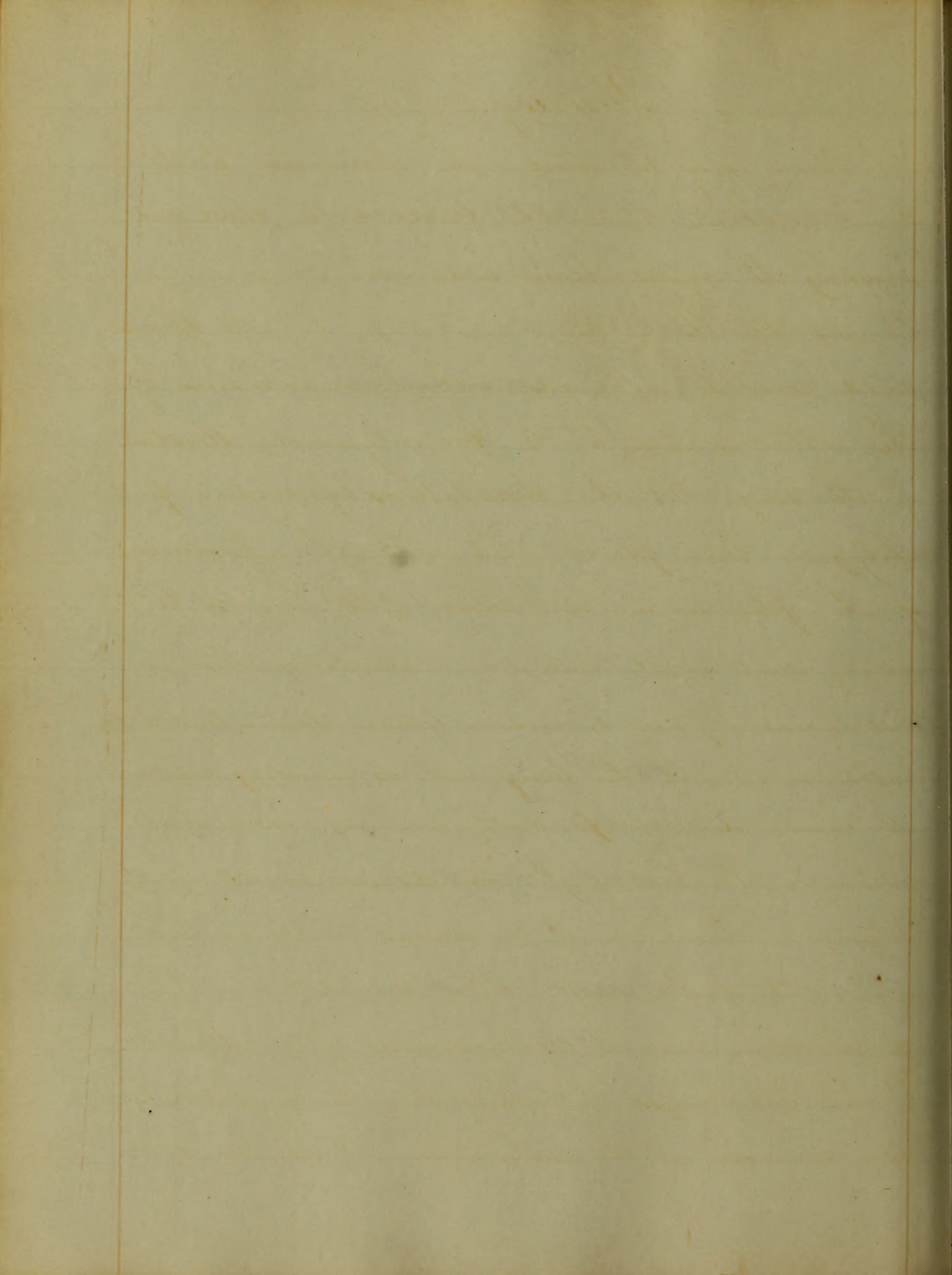
... ..
... ..

Pharynx

Being very soft in inflammation of the
larynx membrane being the part of the chest and
opening to equal strain contained.

I was thought of the voice being that the pharynx
could never be inflamed without an extension of
the inflammation to the speech muscles, muscles
of the tongue but the observations of modern ph
ologists have shown that although inflammation
of the pharynx may be distant of the tongue to be
qually great at the same time, and that there is
not necessarily any connection between them - that the
inflammation of the tongue and its surrounding membrane
is not often or frequently and especially of acute
nature - the history of the disease in all first
instances is then one of the changes which are made
by the gross stuff, which constitutes some of the
principal material characteristics of the disease.

There are changes of volume and change in quality
and character of the secretion, and the



Pleurisy.

Pleurisy may be defined "an inflammation of the serous membrane lining the cavity of the chest, and investing the organs therein contained."

It was thought by the older writers, that the Pleura could never be inflamed, without an extension of the inflammation to the Parenchymatous structure of the lung; but the observations of modern pathologists have proven, that, although inflammation of the pleura and the substance of the lung, do frequently exist at the same time; nevertheless, there is not necessarily any connection between them. - And that inflammations of the lung and its investing membrane do exist often independently and separately of each other.

In treating of this disease we will first endeavor to show some of the changes which are undergone by the pleura itself, which constitute some of the principal anatomical characteristics of the disease.

There are changes of texture and change in quantity and character of the exhalation. First, then, as re-

1850

Faint, illegible handwriting covering the page, possibly bleed-through from the reverse side.

guards its change of texture. Upon this point writers have disagreed; some contending that the Pleura itself was thickened, while others affirm, and with more correct ideas of the real state of affairs, that what has been supposed to be a thickening of the Pleura is nothing more nor less than the superposition of layers of plastic lymph upon the inflamed pleura. This I suppose, and I think as do these writers who have had ample opportunity for forming correct ideas upon this point, to be the true condition of the part; for nothing appears more natural than that, this superposition of plastic lymph has been mistaken by careless observers for actual thickening of the pleura itself. But we will not dwell upon this point. In the next place let us consider the effusions.

The effusion into the cavity of the chest constitutes the most interesting results of pleurisy. Now, the first effect of inflammation upon the exhalation of the pleura is to either suppress, or at least to con-

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

5

siderably diminish it, - but this diminution is followed in a short time by an increase in the quantity of the exhalation. The quantity of this exhalation varies much in different cases; - Sometimes not exceeding an ounce, - at other times amounting to several pints. First let us consider the effusion of lymph with a small quantity of serum. The serum being soon re-absorbed, the lymph is left, which has a natural disposition to pass to the solid state, and from thence we have the membranes formed, which in their organization, form, extent and consistence present much variety. As soon as this coagulable lymph is deposited it becomes solid. In the first instance it is a soft grayish white mass, having no appearance of life or organization; red spots or points soon appear, being at first very few in number, but quickly beginning to multiply, they present in a little time the appearance of reddish streaks or lines, having unequivocal characters of vascular canals, which passing beyond the lymph imoseu-

[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 script is cursive.]

late with the vessels of the true pleura, and thus a communication is at once established between the circulation of the false membrane and that of the general system. The extent of these false membranes is governed by the extent of the inflammation, and is also thought to depend on the previous habits of the patient. The false membrane varies in thickness from that of the pleura, when the lymph is apt to be overlooked, to that of an inch, when it can be separated into different laminae - But to return to the effusion, which presents itself under various appearances, consisting of a colorless, transparent liquid, or of this liquid mingled with flocculi of lymph floating in it, or dissolved as it were, either affecting or not affecting its transparency, according as one or the other of these circumstances takes place. Again, it may be a greenish fluid made up of serum and pus in various quantities. Or, it may be pure pus. And, lastly it may be pure blood. These different effusions

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

7
are always devoid of smell, when there has existed no communication between the cavity of the chest and the external world.

What are the effects of this effusion into the thoracic cavity? The most general result is the removal of the lung from its proper position.

For instance it may be suspended in the fluid, or it may be thrust back against the vertebral column, or it may be pressed both backwards, and outwards, against the surface of the ribs—

But the effusion is sometimes so great as to force downwards the diaphragm, thereby displacing some of the abdominal viscera, the stomach, spleen or liver.

Again the heart may be displaced, being forced to the right of the sternum, when the effusion takes place on the left side, and vice versa.

Having thus endeavored to give a brief statement of the anatomical changes of the disease, we will now proceed to consider what effect these changes have upon the sounds of the healthy chest.

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side of the paper. It consists of approximately 20 lines of cursive handwriting.]

The first physical sign which we have is the Friction Sound, which indicates that the exhalation has been arrested by the inflammation. This sound is valuable in aiding us in our diagnosis when combined with the general symptoms, but since it does not last long, unless we see the patient in the earliest stage of the disease, we may not hear it at all.

The next sign which presents itself, is the diminution of the respiratory murmur. When the effusion is very abundant from the first, we cannot hear this sound, except along the vertebral column, and even then the sound may be feeble, which results from nearly all the air being pressed from the lung, and its being thrust backwards; so that the chest can neither expand nor collapse; but, when the effusion has been gradual the respiratory murmur becomes by degrees fainter and fainter until it is finally lost altogether. But I should have mentioned that we find on percussion over the affected side dulness.

To the cessation of the respiratory murmur, we have

bronchial respiration succeeding, which would seem to depend upon the entrance of air into the bronchial tubes, now placed in a solid structure, which differs from their soft spongy medium essentially, and is better calculated to convey every change of sound, either of voice or of the entrance of air.

The voice is observed to have acquired a peculiar character. This from its resemblance to the cracked, tremulous, shrill voice of the goat has been termed "agophony". It is but a modification of "bronchophony", and its return, after having once disappeared is thought to be a good sign of the decrease of the effusion, because, it is known to exist only when the effusion has arrived at a certain quantity and to cease when that quantity is increased or diminished. This sound therefore is not heard either in the early or the advanced stage of the inflammation. These, then, being the principal physical signs which are important in aiding us in forming a proper diagnosis, let us in the next place consider the general symptoms.

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
the eleventh is the
the twelfth is the
the thirteenth is the
the fourteenth is the
the fifteenth is the
the sixteenth is the
the seventeenth is the
the eighteenth is the
the nineteenth is the
the twentieth is the
the twenty-first is the
the twenty-second is the
the twenty-third is the
the twenty-fourth is the
the twenty-fifth is the
the twenty-sixth is the
the twenty-seventh is the
the twenty-eighth is the
the twenty-ninth is the
the thirtieth is the

The disease is ushered in by high febrile excitement, generally preceded by rigors. The febrile symptoms of acute pleurisy are not of a uniform intensity. The most unequivocal sign is that of pain, and it is this symptom which attracts the patients attention, and gives to his countenance the expression of severe suffering.

It is generally situated in the chest and occupies a spot on a level with the breast, or a little below it.

This pain is said to be very acute, and to be aggravated by inspiration, coughing or pressure over the intercostal spaces.

Why the pain is always situated at one particular point is a question which has never been satisfactorily answered. The best explanation of the matter is this:— that the chest presents at that particular point greater mobility than elsewhere.

The pain is sometimes of a wandering character in the beginning of the disease, but it will become permanent in a few hours, though it may not become so until several days have elapsed. When the pain is inconstant and wandering, being unattended with

fever, we have reason to think that it is situated in the fibrous and muscular tissue; but this cannot be relied on.

The respiration is affected in the very outset of the inflammation, being of a hurried and nervous character and embarrassed. This depends upon the pain's being increased, upon a full inspiration being taken, and in order to avoid the augmentation of the pain, nature avoids taking a full breath. When effusion has taken place the dyspnoea depends upon another cause:—the mechanical obstruction to the expansion of the lung, which is in proportion to the quantity of the effusion, and the rapidity with which it has been exhaled. Cough is another characteristic symptom. This may be either short and dry, or attended with a glairy and nearly colorless sputa. The cough is also stifled as much as possible in order to avoid the increase of pain which it occasions.

The position of the patient is various, and so much so, that a great diversity of opinion exists

12
among authors regarding it.

The patient assumes different positions at different periods of the disease, so long as the pain is acute the patient avoids lying upon the affected side, but when effusion has taken place the position is upon that side, in order to avoid the pressure of the liquid upon the healthy lung. But these positions are of very little practical importance. The pulse is remarkable for its hardness.

But there are still other signs which have not yet been spoken of. First, the change in the form and size of the chest. These changes result, as might be expected, from the effusions. The change of form of the affected side, consists in its becoming more rounded, and larger than the opposite side. The intercostal spaces are obliterated as it were, by being pressed up on a level with the ribs. This dilatation is more common in chronic than acute pleurisy. And there is still another sign, which is in direct opposition to the foregoing one, and which results from the absorp-

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

tion of the effused fluid, and the incapability of the lung to expand, in consequence of its being bound down by the false membranes. This being the case, it is evident that in proportion as the fluids are re-absorbed, the chest having no longer any support, must necessarily fall in: thence we have a narrowing of the affected side.

Causes are predisposing and exciting. Among the first may be said to be sanguine temperament, irritability of the system and weakened health from previous disease. Among the latter we have, cold, which is the most common, mechanical injuries. — such as, the end of a fractured rib, or a sharp cutting instrument coming in contact with the pleura, — extension of ulceration from a tubercle in the lung perforating the pleura.

Prognosis, Pleurisy is always a serious disease, although it often terminates favorably. We must consider in making a prognosis, the cause upon which the disease depends, the extent to which

the inflammation has gone, - the quantity and quality of the effusion, and the time which it has existed, and lastly to the disease which is likely to exist along with it. When we find it depending upon ulceration or gangrene of the lung, we may make an unfavorable prognosis. Secondly, if we find double pleurisy, or effusion into both sides, we consider that more unfavorable than single pleurisy; and when we think the whole cavity of the pleura to be inflamed, the prognosis is still to be unfavorable, or, at least, more so than when the inflammation is only prevalent on one side.

Treatment. There is no part in the whole human machine, in which inflammation demands a more decided plan of treatment than the pleura. When in the first stage, we find the febrile action high, attended with much pain, we must draw blood from a large orifice, until the pain is relieved or the patient sickens almost to fainting. If this should not afford decided relief, we

The information has been... the quantity and
quality of the specimens, and the time when it was
collected, are both of the greatest importance in
determining the value of the material. The
specimens should be preserved in a dry, cool
place, and should be protected from light and
moisture. The specimens should be labeled
with the name of the plant, the locality,
the date, and the collector's name. The
specimens should be preserved in a dry, cool
place, and should be protected from light and
moisture. The specimens should be labeled
with the name of the plant, the locality,
the date, and the collector's name.

should bleed again in a short time, and repeat the operation at longer or shorter intervals as the urgency of the case demands, and the power of the patient, to bear the loss of blood.

We will always find the blood buffed and cupped. This bleeding may be both local and general.

Purgatives. — We may give in the first stage of pleurisy, saline cathartics, which are admirably suited to this disease; for they diminish the mass of circulating fluid by increasing the secretion of the intestinal canal. We follow up this treatment by the different preparations of antimony, tartar emetic, James' powder, dovers powder &c. in order to produce diaphoresis, and thus reduce the fever.

Sedatives. — may be given in order to quiet the irritation of the cough, and thus procure the repose of the affected organ. The best to be used are Hyoscyamus, conium, or the preparations of Opium.

The use of mercury is particularly advisable from its known power of checking the effusion of coagu-

The following are the names of the persons who have been appointed to the various offices of the Society for the Relief of the Poor in the City of London, for the year 1801. The names are arranged in alphabetical order, and are taken from the original list, as published by the Society.

President, Sir John Lubbock, Bart. Vice-Presidents, Sir John Lubbock, Bart. and Sir John Lubbock, Bart. Treasurer, Sir John Lubbock, Bart. Secretary, Sir John Lubbock, Bart. Auditors, Sir John Lubbock, Bart. and Sir John Lubbock, Bart. Members, Sir John Lubbock, Bart. and Sir John Lubbock, Bart.

~~latter~~ lymph. It must be given in equal doses at regular intervals, and had better be combined with a small portion of opium. Our object should be to bring the system as speedily as possible under the mercurial influence. But the plan of treatment we have given is only applicable to the earlier stage of pleurisy. But it is frequently the case that we do not see the patient until several days have elapsed from the time of the attack, and the intensity of the inflammation has in a degree subsided and has assumed rather a sub-acute form. Still we are to expect advantage from blood lettings, since it has a tendency to check the further exhalation of fluid, - increase the power of absorption, and render the system more susceptible to the influence of medicines.

When the inflammation has nearly gone, and the acute pain given way to a mere soreness, and we have the physical sensation of soreness, we must change our treatment, and our main object should

be to promote the removal of the effusion.

We do this either by internal or external means.

The best internal means is the combination of Calomel, squill and digitalis, which will produce a speedy diuretic effect. In conjunction with this remedy, we may use nitrate or acetate of potash. If the patient is strong enough, we may use with benefit a purgative, but it seldom happens that such is the case.

Diaphoretic medicines are not of much use in this stage of the disease.

Mercurial friction on the side may be used in order to stimulate the absorbents.

Stimulating applications are sometimes used.

The
Lancaster

Lancaster

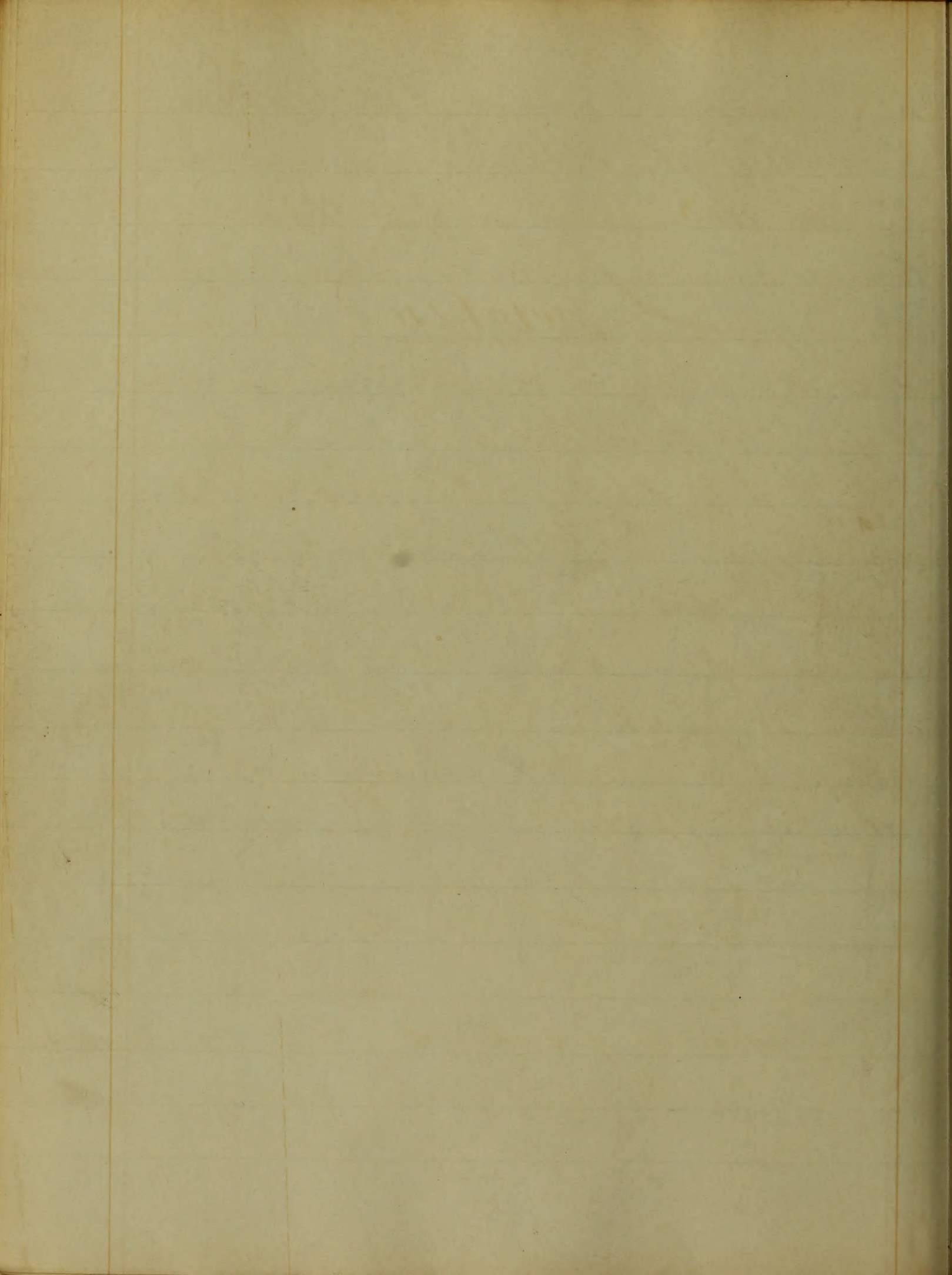
of the
of the

of the

of the

of the

of the



An
Inaugural Dissertation
on
Lactation

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
Francis Marion Mott
of
Louisiana.

During
Session of 1844 & 5

Mr. P. P. P.

Letter

Dear Sir,

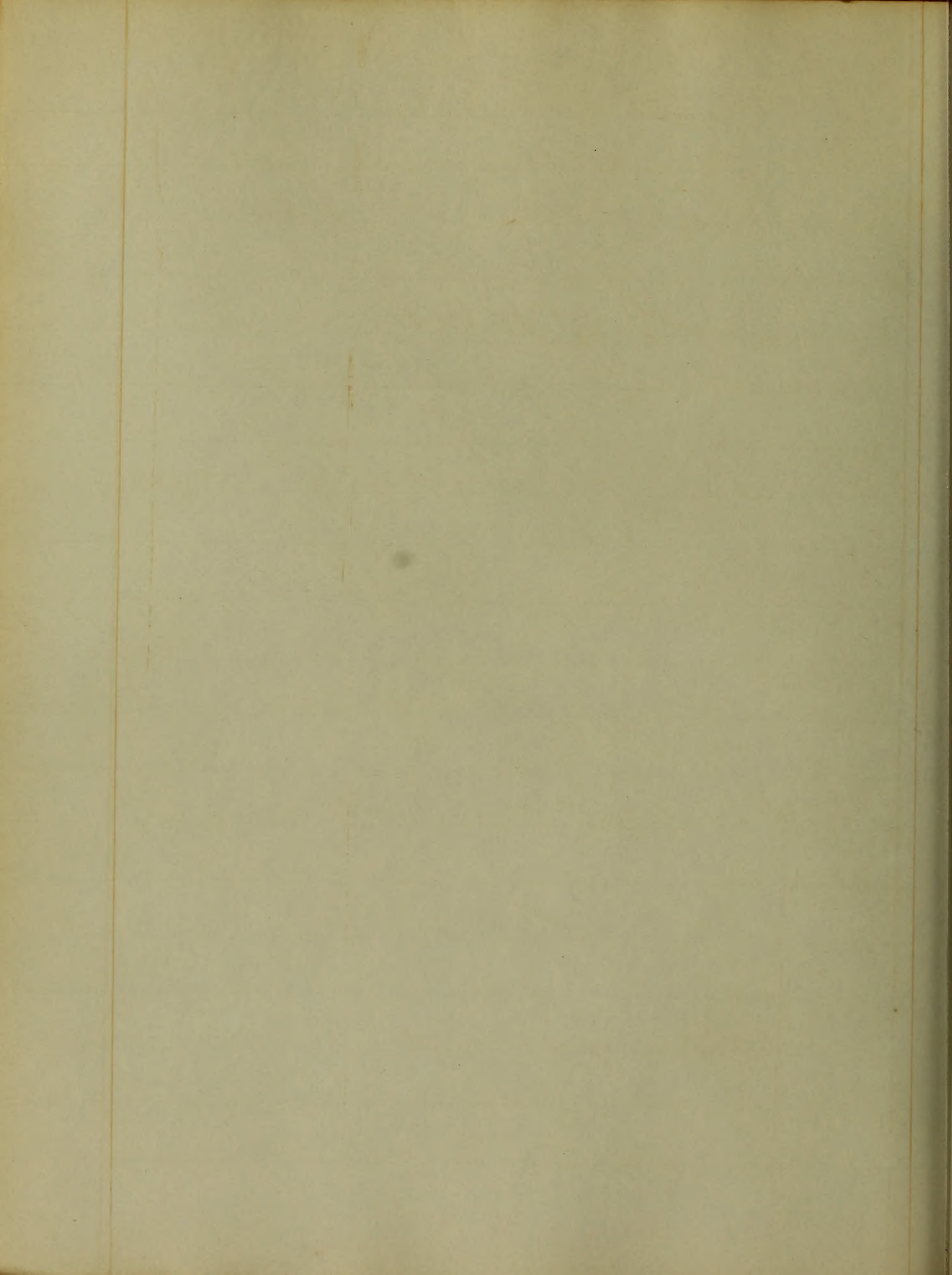
I have the honor to acknowledge the receipt of your letter of the 10th inst.

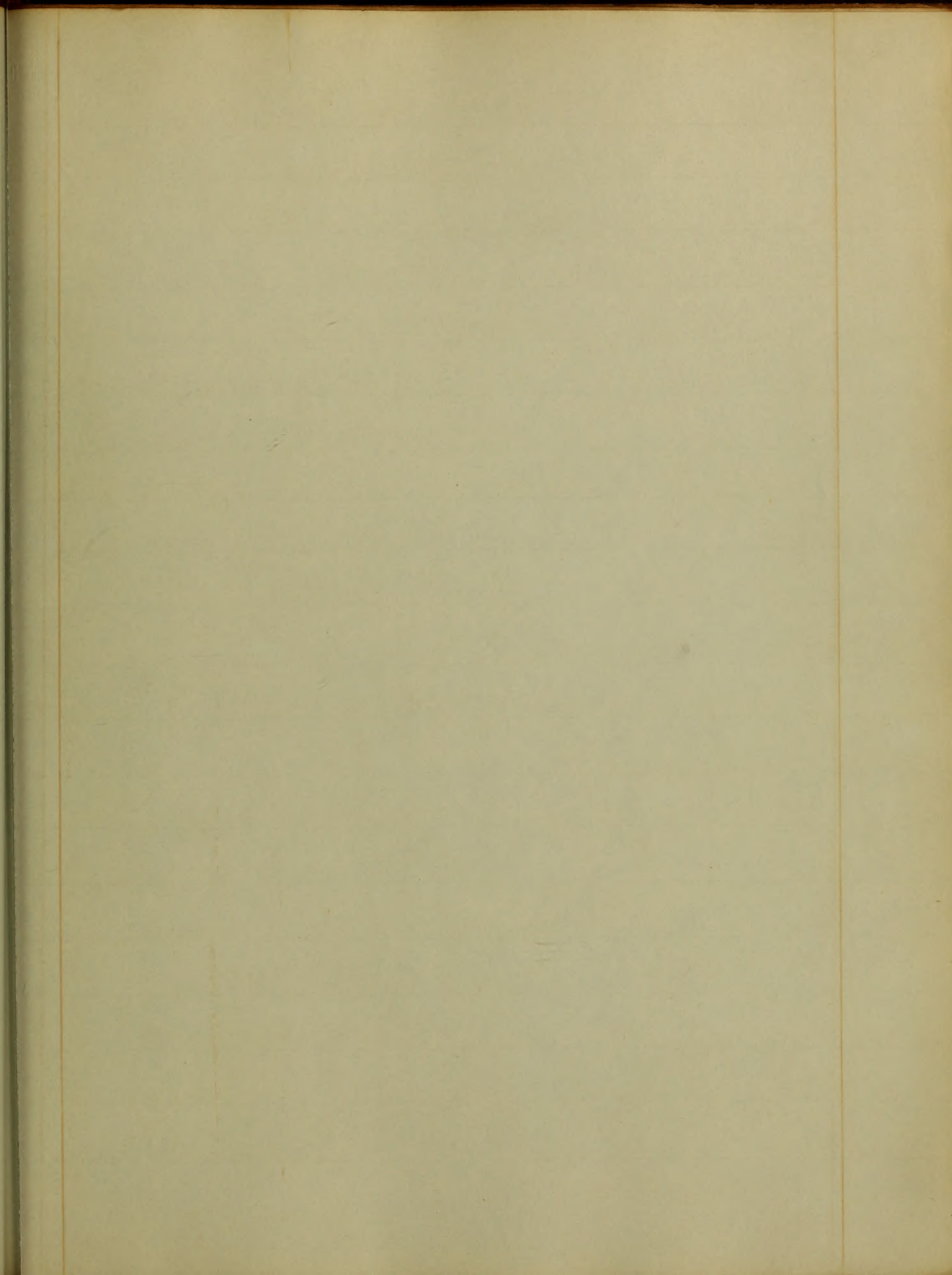
in relation to the matter mentioned in the enclosed paper.

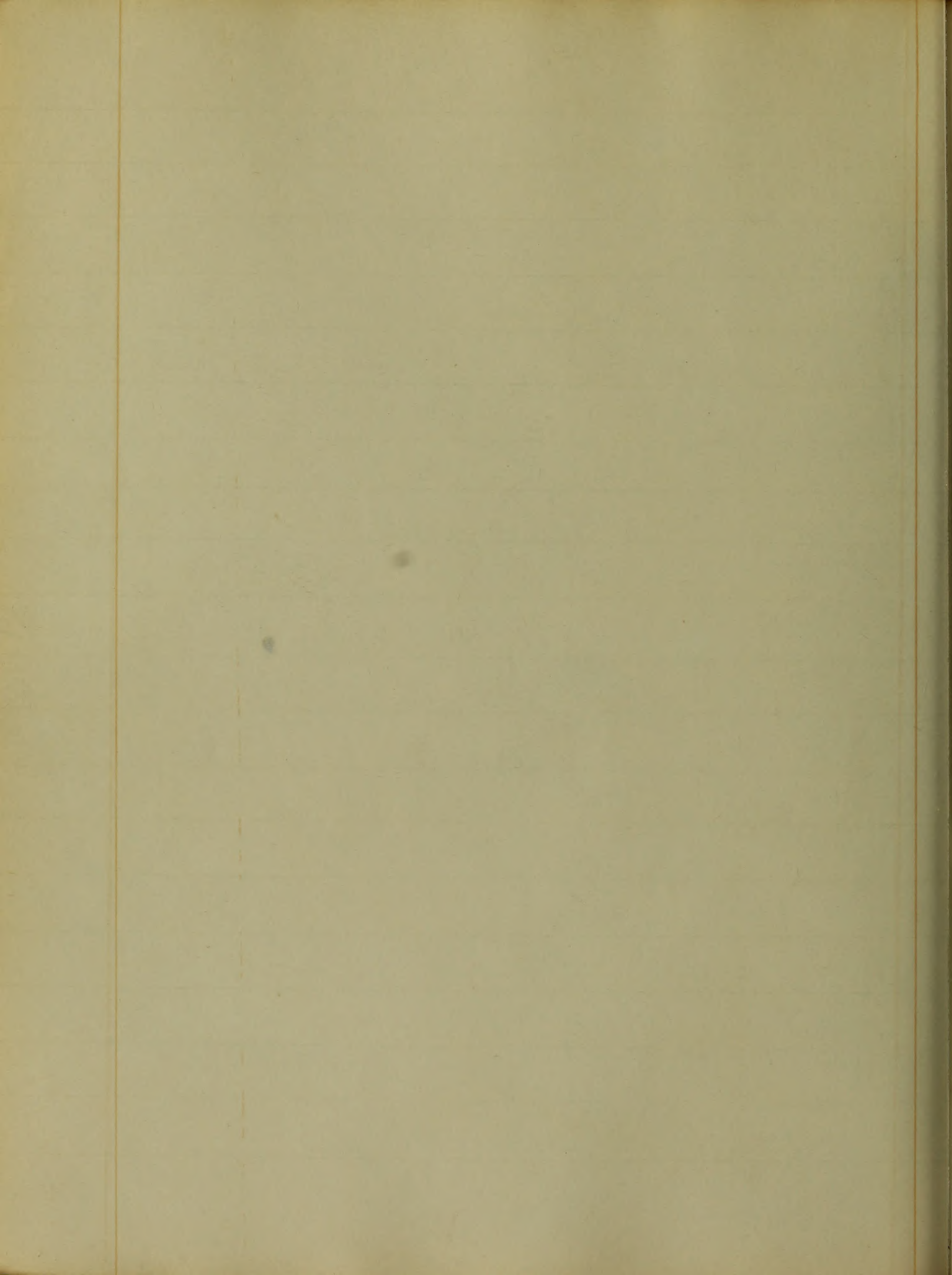
I have conferred with the proper authorities and they are of opinion that

it is not expedient to grant your request.

I am, Sir, very respectfully,
Your obedient servant,
J. P. P.



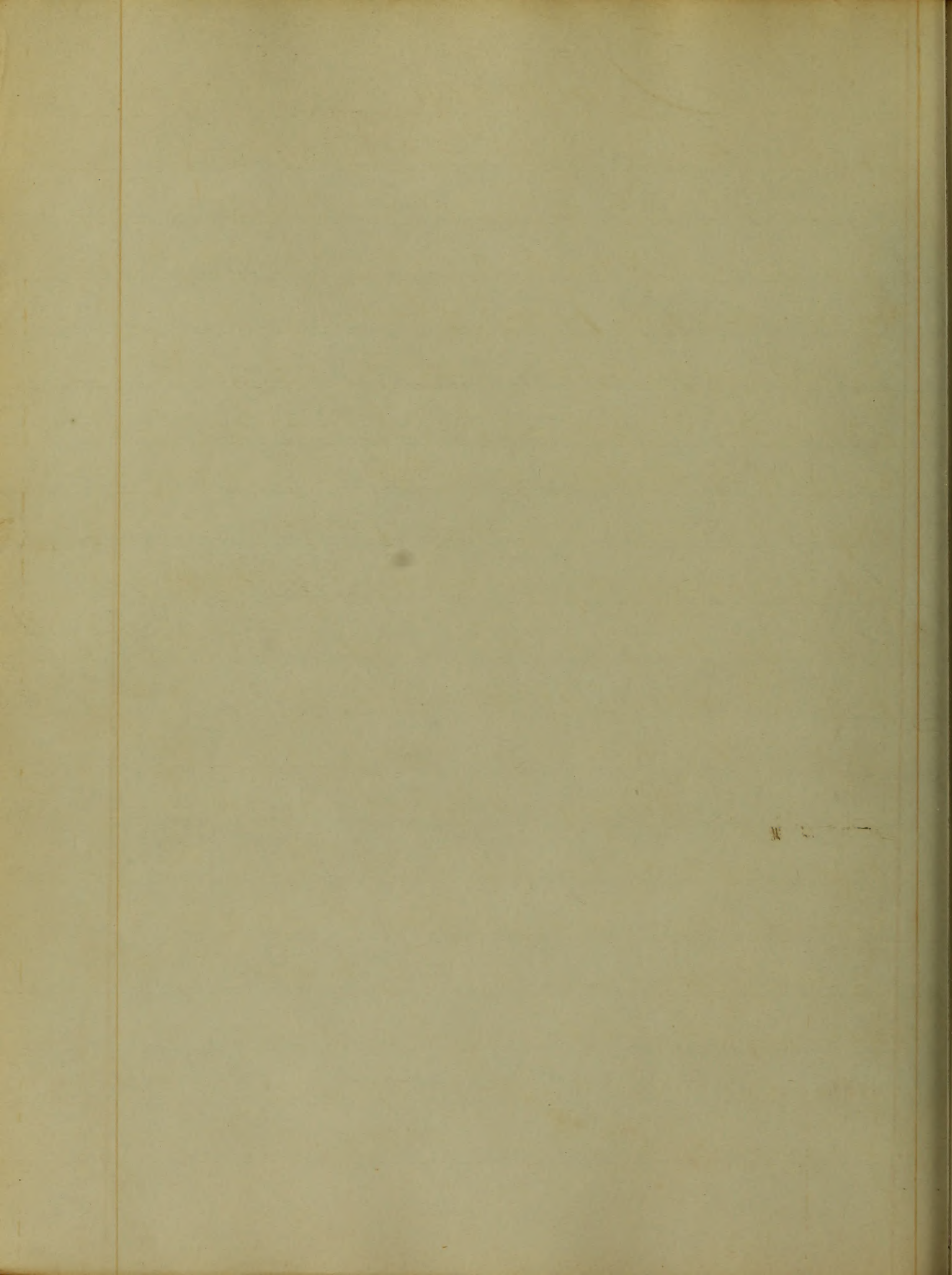




Introduction

And the first part of the work

The first part of the work is devoted to a general survey of the state of the country at the time of the Revolution. It is divided into three parts: the first part contains a description of the country, the second part contains a description of the people, and the third part contains a description of the government. The second part of the work is devoted to a description of the people of the country. It is divided into three parts: the first part contains a description of the different nations, the second part contains a description of the different tribes, and the third part contains a description of the different castes. The third part of the work is devoted to a description of the government of the country. It is divided into three parts: the first part contains a description of the different forms of government, the second part contains a description of the different systems of government, and the third part contains a description of the different principles of government.



Lactation

And the dangers which attend it.

A minute investigation into the mechanism and process of lactation were a task too arduous for our brain and too copious for our pages. We, therefore, propose to consider only so much of its Anatomy and Physiology as may be requisite for the recognition of certain accidents, which occasionally occur during this period, a period so replete with interest and ingenious provision for every age and class and condition of animated nature.

Away for the Mother and serious hazard of the existence of the child and the lamentable consequences of inattention and neglect of circumstances so earnestly indicating the necessity of much kind feeling and anxious regard. The elaboration of a fluid within the bosom of the Mother designed for the preservation

Resolution

Resolved that the members of the Society
shall be bound to attend the meetings
of the same punctually and to pay
the contributions assigned to them
in the list of names published
for that purpose. And that
if any member shall neglect
to do either of these things
he shall be liable to be
expelled from the Society
by the vote of the majority
of the members present at
any meeting of the Society
called for that purpose.
And that the members of the
Society shall be bound to
maintain the peace and
good order of the same
and to abstain from all
immoral and profane
conduct.

of her offspring, the encouragement of its growth and nurture of its strength is a process full of interest and beauty and lending much of both to every circumstance calculated to interrupt the regularity of its progress and decline.

The intimate sympathy which has been observed to exist between the Uterus and Mamme satisfactorily explain much that else would be mysterious and inexplicable. The transfer of ailments from one to the other; the frequent circumstance of disease affecting both; and the alleviation of the disorders of the one by remedies applied immediately to the other, are facts with which obstetricians are rapidly acquiring familiarity.

The development of the Mamme at puberty, is by no means the least interesting and beautiful of Nature's handiwork. A pair of diminutive prominences, normal tumours studious the bosom swell, into

"Breasts where Cupid trembling lies
Nor sleeps for kissing of his bed"

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

Then occur other changes not less conspicuous and important. The superoecation of Menstruation is indicated by sympathetic alteration of sensation and appearance to the mammae. They become tumid and are constantly painful. These together with the secretion of a thin, serous fluid somewhat resembling milk, characterize an affection which has been demonstrated denominated Spurious pregnancy, differing from the real only in the absence of its areola.

The quantity of milky serum secreted by the breasts during the period of utero gestation differs materially in different subjects and at different periods. Sometimes we have it appearing as early as the fifth month, often much later, and not rarely altogether absent until after delivery.

The proper period at which to present the child to the breast has ever been a topic of obstinate dissension among obstetricians
but

but by the most experienced and those of acknowledged
 success, we are advised to permit the contact of the
 child's mouth within the first twenty four hours
 of its extra-uterine existence, for by such means
 the nipple is softened and drawn out and the
 flow of milk encouraged. With first children
 the secretion is less abundant than at any subsequent
 pregnancy, at least for the first three or four
 days. On or about the fifth day, striking changes
 occur in the sensation, consistence and conformation
 of the breasts. They are then found to be hard,
 tumid & often exquisitely painful. The temperature
 of the patient's skin becomes somewhat exalted,
 her pulse is accelerated, distressing dreams
 harass her rest and waking, her intellectual
 faculties are constantly disturbed. Glandular
 swellings are observed in the mamma, extending
 even to the axilla in the form of knotted tumours
 resembling the successive links of a chain, and
 these exhibit much tenderness on pressure.

Milk

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible due to the low contrast and ghosting effect.

Milk in small quantity oozes from the breast nipple when the breast is subjected to pressure or pomentation. Much pain attends the first application of the Child, but the abstraction of milk is followed by much relief. With the relief of the over-laden breasts we have the complete dissipation of all alarming or unpleasant symptoms. The natural temperature of the skin is restored, pulsation is retarded, and thirst abated and mental derangement removed. And thus is the natural process of lactation fully established.

Until this termination is induced, the patient is harassed with constant pain, and various annoyances beset her. For these, relief must be sought from such remedial measures as existing contingencies may suggest. A hydragogue Cathartic will prove beneficial, to be repeated in twenty four hours should the first prove ineffectual.

Aggravation distension of the breasts

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

is a frequent consequence of the intemperate Employment of liquids for the alleviation of the distressing thirst which usually exists. Remedy may be had to saline draughts frequently repeated for the mitigation of this annoying symptom.

The difficulty which the infant experiences in drawing out the nipple of a hard and tumid breast, has suggested the propriety of employing artificial means for its assistance. Thus, breast-pumps are used, and the milk evacuated by an ordinary breast cup and syringe. In fact any agency by which a vacuum may be effected here may be employed with advantage, and the mouth of an older child or grown person, is perhaps the most procurable, applicable and effectual.

Fomentations with hot water and the application of mild poultices to promote the escape of milk and relieve distension may be resorted to with advantage.

Copious perspiration may be induced by the application of oiled silk to the breasts, and this treatment has been highly commended.

The

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

The disastrous consequences which must ensue to the child from the retention of meconium in the large intestines have been wisely anticipated and avoided by a provision of nature. Cathartic properties have been given to the first draughts of milk for the purpose of evacuating it. And should this by any accident, be withheld from the child, the necessity of the administration of a gentle purgative becomes urgent. And to children raised by wet-nurse or by hand disregard of this precept is fraught with danger; obstinate diarrhoea and alarming convulsions being the almost inevitable consequences of such neglect. The administration of purgatives under all circumstances, however, is most injudicious, for Dr. Robt Lee has demonstrated the existence of a quantity of nutritious albumen in the intestine above the situation of the meconium, serving for the sustenance of the child till lactation is established. Should this be evacuated, necrosis must be had to artificial nutriment, and such measures are to be avoided.

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

Much variety in the appearance and quality of the milk occurs during the period of lactation in all mammiferous animals. Thick, yellowish and creamy at first, it assumes after the lapse of a few days its natural character, becoming thin, blueish and sweet. But these appearances are rarely constant and there are many circumstances constantly contributing to vary them. Intemperance or diversity of diet, irregularities of temperature, neglect of proper exercise and mental emotions, and more particularly, perhaps, the frequency with which the breasts are drawn, contribute materially to derange the secretion, and such derangements seriously affect the health of the child.

The liability of the child to be affected by the nutriment of the nurse, has been taken up by Practitioners, and turned most ingeniously to account. Medicines have been thus administered; purgatives taken by the nurse have acted energetically
upon

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

upon the child, and this should be remembered — acidity in the child's stomach has been neutralized by alkalis taken by the nurse, and the ravages of hereditary syphilis have been antagonized by Mercury similarly administered.

An unnatural taste is frequently observed in Milk. It is sometimes distinctly saline and children are not rarely observed to reject the breast, disgusted with the bitterness of its contents. Children are frequently disagreeably affected by excessive richness of their nutriment, which without other appreciable change, may require this quality from irregularities of diet or habit in the nurse. This may be remedied by purgation, exercise sufficiently active and the adoption of a spare diet. It is not uncommon for the milk to acquire a perceptible tinge of green or black. Dr. Luccock speaks of four instances in which he has observed a bright yellow colour, as of pure pure bile in the milk, occurring without the presence

[Faint, illegible handwriting on lined paper]

presence of Laundie and banafing the child with gripes and diarrhoea. This disappeared under the administration of mercurial purgatives.

The influence of Lactation upon Menstruation and Pregnancy and vice versa, has been a topic of much discussion. That impregnation has been frequently affected in suckling women is proved by the observation of M. Robertson, who observed this occurrence in eighty one out of 100 cases; and the appearance of the Catamenia is a frequent plea of wet-nurses, who would urge their claims to preference, "believing that their milk is thereby renewed and rendered fit for much younger children". This error though current with them is no less an error. The quality of the milk is sensibly impaired, exciting vomiting in the child "and frequent watery motions of a Spanish green colour."

A constant source of discomfort to the nurse during the period of Lactation is to be found in Lone nipples. These instead of retaining

retaining that tenderness and delicacy which they
 possess originally, should acquire a callous texture
 a semi-insensibility. And to induce this desirable
 condition, application of gently astringent or stimulating
 lotions will be found advantageous - green tea, for
 instance, or weak solutions of the sulphate of Zinc
 or Alum. When the soreness is more than usually
 severe or persistent, advantage may be derived
 from pencilling the nipples with a solution of
 two grains of Nit Acetate in an ounce of rose water;
 should excoriation ensue, a shield of wood, ivory
 glass or glass or silver must be employed with
 an artificial or prepared cow's teat for the child
 to suck through. This will effectually protect
 the nipple. The parts should be touched occasionally
 with lunar caustic, and dressings of simple
 ointment employed. Preparations of lead or
 Mercury should be avoided, lest the child
 should swallow them. When without being excoriated,
 the nipples are hot and dry, stimulating applications
 are

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

are forbidden, and in their place dressings of simple ointments, powdered gum arabic and bread and milk poultice are beneficial. Protection from the dress by means of shields provided for the purpose, is in all cases required.

Mammary abscess, by no means a rare accident and even productive of much constitutional disturbance, is the natural consequence of inflammation attacking the breast during the period of lactation, (when this has not been regulated by leeches, poultices and fomentations, the measures by which severe attacks are successfully repulsed. Should the abscess be extensive and implicating any considerable portion of the breast, seriously interfering with the function; the duty of the surgeon (for this is comprised within his province) is obvious; but the matter be evacuated by the knife, freely and unhesitatingly. In less alarming cases it is customary to prevent the distension of the breast by evacuating its milk

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side of the paper. It consists of approximately 20 lines of cursive handwriting.]

artificially, or by the Child's mouth, but this treatment is only justifiable where the inflamed portion is confined within narrow limits; the pain and irritation that attend it forbid its Employment in more serious cases.

Should there be much hardness and distention of the breast, relief will be afforded by the frequent removal of a small quantity of milk, and frictions with warm oil. Let the diet be low, and the bowels be kept open by saline purgatives. The latter precept is important, for its neglect has been followed by much distress to the patient, even where the dispension of the tumor milk has been as gradual as the weaning of the child. Depression of spirits, general debility, loss of appetite and a sensation of weight and lassitude are the usual consequences of the omission of these Cathartic Medicines, and these symptoms rarely fail to disappear with the re-adoption of the remedy.

Defective organization of the nipple

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

and loss of elasticity and power of retention in the lactiferous tubes may give rise to appearances that seem to indicate a superabundance of secretion.

A wasteful drain upon the system is maintained by a constant trickling from the nipple in the intervals of suckling. Health and strength are thus unimpaired and the necessity of checking the inundation is obvious. For this purpose astringents have been employed, but there is risk of their effecting too much and entirely dispensing the secretion. The internal administration of astringent tonics - Kino and Alum and mineral acids may prove beneficial; but in most cases recourse must eventually be had to weaning and the total repulsion of the milk.

The influence of protracted lactation upon the mother and the infant is a subject of much interest and one that has given rise to much able discussion.

Various diseases to which children
are

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

are liable - and, more particularly, Hydrocephalus - have been ascribed to procrastination in weaning the child; but this is an error: for by careful observation it has been demonstrated that the occurrence of such disorders is as frequent with children who have been brought up by hand, as with those who are nurtured at the breast.

The natural excitement which attends the onset of lactation is liable to aggravation of an alarming character by certain familiar causes.

Mental emotions, physical exertions, heated atmosphere and stimulating diet, tend constantly to fan the healthy excitement into a blaze, and the symptoms by which this result is indicated, when taken collectively, have been denominated Milk fever. Here we have febrile symptoms more severe than the healthy glow which characterizes the period in its infancy, and the precursory sign is distinctly defined; pain in the head and throbbing; full, hard and rapid pulse,
distressing

distressing thirst, flushed countenance, hot and dry skin and furred tongue, are all present, harassing the poor sufferer and demanding the interference of medicine.

Gentle encouragement to the flow of Milk; careful correction of errors of diet, temperature and diet exercise; tender allayment of mental agitation; and withal, purgatives and diaphoretics, will effectually insure the remission, if not the entire removal of all distressing symptoms. A common result of injudicious management in such cases is violent phrenitis accompanied by total suppression of the secretion of milk and demanding relief from the laeet.

Circumstances frequently require the artificial dispensation of the secretions of milk. Perhaps the child is to be weaned, or from constitutional debility or local defect, the mother may be unable or unwilling to suckle it. Then it becomes necessary to backen the milk, as the
process

process is vulgarly termed, and to do this properly, some patience is required from the patient and some practice from the practitioner. The application of cold, evaporating lotions has been recommended, but these are liable to produce fever and phrenitis by the sudden dispensation of the milk that they tend to effect. Dr. Locock professes to have been well satisfied with the administration of stimulating liniments, applied warm and also constantly by means of layers of lint or flannel.

"In savage nations" says Dr. Locock "in many parts of America, the East and the polar regions, it is the custom for mothers to suckle their infants for two years at least, and without any such disastrous consequences as have been ascribed to the practice.

Numerous instances of protracted lactation are recorded. We are told of women whose period of lactation expired only with the profluvium of a breast; and others, more

[The text on this page is extremely faint and illegible due to fading or bleed-through from the reverse side. It appears to be a continuous paragraph of handwritten text.]

reasonably, who continued to suckle three or four of fine children in succession. Such inexhaustible fountains could have been constructed for no other purpose than to fill the craving maws of all the motherless sucklings in creation.

In speaking of the process of Lactation we have described it as the exclusive property of women who have known the pains and pleasures of conception; but men have played the wet-nurse in their time and with a prodigality of milk.

"Almost beyond the privilege of Woman!
Virgins and dilapidated beldames have suckled babies, and suckling babies have held within their breasts the means to suckle others.

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

An
Inaugural Dissertation
Submitted to the
Proost, & Faculty
of the
University of Maryland
For the Degree of
Doctors of Medicine
by
W. Hobbs. of Med. Co.

March 1845

No. 1

Received of the

Trustees of the

University of

the State of

Michigan

the sum of

Five Dollars

for the purchase of

Books

Elements of Diagnosis

Diagnosis is one of the most interesting as well as one of the most complex departments of medical science. It presupposes a knowledge of Physiology and defines those minute shades of difference in disease which so often arise from the artificial customs of civilization; nor is its sphere thus limited to the hidden and obscure, for disease often throws aside her impenetrable and stands forth in her most hideous aspect, to call the sufferer to the silent shades of death; and to bid defiance to the accumulated wisdom of ages. Neither is it confined to disease alone, for every zephyr which kisses the cheek of beauty, every emotion of exaltation and triumph, every sigh of grief and pain, are signals which may guide us to man's mental moral or physical condition. How vast; how comprehensive; how sublime; then is this subject, when nature yields to her hidden laws and medical science with all its diversity and infinity is only the basis upon which it reposes

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

2

But let us turn our thoughts for a moment, from this subject to medical history; which teaches how the mind of man gradually emerged from the dark clouds of superstition which over-shadowed it into the broad sunshine of philosophy and truth; let us learn the progress of disease as it passed from generation to generation and from age to age through the lapse of time, gathering new mysteries and discovering new lights, which the gifted sons of genius had again and again failed to reveal. Let us apply these facts (collected from the pioneers of medical science), to diagnosis, for they will, often aid us in our difficult task more efficiently than the hypothetical speculations of later observers. It is obvious from the preceding remarks that we understand by medical history, not an assemblage of dates but the "lex scripta" of medical science; which teaches us directly or

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

indirectly, partially, or fully the etiology, pathology, symptomatology and the *modus operandi* of disease.

Etiology which it generally first discovers, points out the proper prophylactic course to be pursued, and to a certain extent directs the method of cure. Having now defined the results of etiology we will proceed (after making a few abstract remarks on causation) to determine as far as possible the relations existing between this first principle and diagnosis. — A cause is any event preceding a series of events which follow each other in a regular chain of sequence; hence the best method of their classification is the order in which they occur. The last event in this series is the most important and has been called the effect or proximate cause of disease, because all other events are remote or antecedent to it. Now each of the causes, pointed

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

out are either, concentric or, eccentric; and this which is truly predicated of a genus can also be predicated of the species. The first two causes of the series which we shall notice are, chemical and mechanical, which are internal or external. Chemical causes from their known effects upon matter, often give us direct and immediate knowledge of the disease which we are investigating, and thus become important elements in medical diagnosis. Mechanical causes the second variety named, are often the subjects of surgical diagnosis and they determine the extent of any solution of continuity which could not otherwise be ascertained. Individual inherent, or hereditary causes are sometimes necessary in doubtful cases to discover, the peculiar nature of morbid changes which are taking place; for phthisis which originates from an inherent

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

individual cause is said to be present or absent in obscure cases, from the existance or non-existance, of evidence to prove hereditary transmission. Epidemic, endemic, and contagious causes are the last of the series which we shall mention, for symptomatology which is the essential part of diagnosis will require much of our attention. The causes last referred to, point out (to a greater or less extent) when connected with symptomatology, the ^{nature} of disease, with its "modus morandi." Symptomatology is a compound principle of diagnosis, for it is derived from the literary history of medicine and the history of the patient. In the first place, we should in a given case of disease, mark the symptoms as they occurred in regular chain of sequence: so that their cause or causes may be understood with facility.

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

We likewise in symptomatology observe, independent of this invariability of sequence, the connection existing, between the power, which is active in causation, and the effects which are passive; because we can better understand the efficiency, of the agent when such connection is noted. These are the essential points of symptomatology, when it is legitimately considered; but there yet remains another variety of morbid existances, which occur in the progress of disease, which I call to distinguish, them from symptoms of necessary connection, consociate actions. This distinction appears to me important: because consociate actions are morbid changes, which have no invariable connection with disease proper, and are therefore incidental or accidental, sequences of a primary cause; the peculiar action of which depends upon the affectability of certain organs in which, ^{or} there exists a proclivity to disease. I may remark likewise before I proceed to discuss the subject of symptomatology,

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]

proper; that these accidental sequences of
disease, when known constitute general diagnosis:
and that process of thought which traces them
to a primary morbid change is, special, diagnosis
Now all diagnosis, derived from symptomatology (which
we are considering), is either certain or uncertain;
because, it either reposes upon the doctrine of probabili-
ties; or upon absolute and indisputable truth
Positive knowledge of disease is derived from signs
, which are in such close relation with disease
, that they cannot be separated from it, and,
without, it, would not exist; hence they have
been called characteristic, or essential, such
are the acute pain in the side, dyspnoea and
dry cough in pleurisy. These signs should be
in sufficient number, and in accordance with
each other, to establish decisively the diagnosis
of disease. Common or general diagnosis is

said to be a distinction, between the elements and principles of disease; and like special diagnosis it has for its basis semiology and symptomatology. Thus we find, that special diagnosis is a part of special pathology and should be aided by an accurate and practical nosological arrangement. When we distinguish two diseases which resemble each other, such distinction, has been called absurdly a differential diagnosis: just as if every diagnosis was not differential. There is no small laxity of dialectics in the observations of writers on semiology and diagnosis, and these subjects, evidently owe much of their refined mysticism to this cause. This remark may appear to be uncalled for (by the initiated,) but as a student and tyro, we confess that writers have left us in the dark; because

[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper.]

9
one insists positively upon the difference which
exists between the signs and symptoms of disease,
and another uses in his work the ^{se} words as,
identical, or as having the same import. Should
we be called upon to make the distinction,
we would say that every isolated effect, or
change supervening in the human body,
in a diseased state, and which is either
objectively or subjectively ascertained is a
symptom of that state or change; and that
this symptom is a sign of disease when it
leads us to appreciate the meaning of other
phenomena, or in other words, gives us a
knowledge of what they signify. These
symptoms and signs as we have before hinted
are the necessary consequences of disease; and
that effect or morbid change which
occurs last in the series is considered by

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

Dr Rush and others as the disease par excellence. We will not dignify to discuss this point, because it is too apt to lead the investigator into the abstract fields of ^mimagination decked with ethereal essences, real forms, and actual existences which have led away the minds of medical philosophers without so far as I know leading to any practical and important result. The physical condition of the patient should not be neglected whilst treating of the signs of disease, for any alteration in the usual size strength density and consistence of any organ or organs may signify diseased action. First we observe the skin: to ascertain its natural colour; its excess, or diminished exertion, its natural or unnatural elasticity and density, its lesions, with their phenomena, and all other signs which are connected with its departure from a previous state of health

The first thing I noticed when I stepped
 out of the car was a sharp, biting
 cold. The air was not just cold, it was
 alive with a kind of icy energy that
 seemed to penetrate my coat and
 bones. I shivered involuntarily, my
 hands tucked into my pockets, and
 I looked around, trying to find some
 sense of direction. The street was
 empty, the only sound the distant
 hum of a car engine. I took a few
 steps, my breath visible in the air,
 and then I stopped. A small, dark
 object, perhaps a piece of wood or
 a stone, lay on the ground just
 ahead of me. I stared at it for a
 moment, wondering how it got there.
 The cold was still there, but now
 it felt like a companion, a silent
 witness to my solitude. I turned
 back towards the car, my heart
 pounding in my chest. The door
 was open, and I saw the driver's
 seat. I got in, closed the door, and
 sat there, wrapped in the warmth of
 the car's interior. The cold was
 still out there, but for now, it was
 just a memory.

Having referred these indications to their proper
 cause or causes, we look next to the tissue ^{with} _A which it
 is said to be identical; which is the mucous mem-
 brane of the mouth. Now this was looked upon
 as a certain indication of the condition of the digestive
 tube, and analogy would surely justify the conclusion,
 but experience which is the experimentum crucis of
^{knowledge} _A has I believe decided otherwise. The state of the muscular
 system is another source of diagnosis, which when
 connected with ^{the} _A habits of the patient may guide
 us in determining the tonic or atonic condition of
 the organs of sustentation. We likewise note the
 relations, size, ^{and} _A force of the heart as part of this
 subject, because disease may thus be revealed which
 would otherwise escape our notice. Sometimes
 also the colour of the hair and eyes, the prominence
 of forehead, the size and protusion of the lips, the
 length or shortness of the neck, the flatness or

rotundity of the chest are considered as signs
 or evidences of disease which has been trans-
 mitted, Physical signs as they have been called:
 (because they depend upon physical science) are
 the most certain evidences of internal morbid or
 pathological changes. Seimiology has also another
 series of distinct signs, which depend upon acoustic
 and hydraulic science alone: hence the evidences
 are to a certain extent indisputable, and the diseases,
 with which they are connected comparatively
 speaking is easy to diagnose. These signs
 import, either structural change or functional
 disorder; and here also we learn from the
 patient the period of time which has elapsed
 since the onset of the malady, for we can
 thus, render the pathology easy: from the
 knowledge derived from this source, because
 it teaches us the stage of the affection.

13

We should receive with great caution the facts which are said to exist by the patient, for either from inherent stupidity, or mental hebetude, produced by disease, the patient is very often incapable of performing his part in the description of the malady. Again I should take with still greater caution any symptom elicited from the patient, when questioned upon the existence or nonexistence of such symptom. Indeed if we believe half of the patients story, we must continually, be prepared for misconception and positive untruth, for in many instances persons, whose moral code in other matters is unexceptionable, are indisposed to give a correct account in a state of disease as to their present condition and feeling. With a knowledge of all these difficulties we should ask again and again the same questions; from

The whole occurs with great regularity the
fact which answers to each of the
for either from the most superficial
disturbance of the system the
any other cause of the
the importance of the
take into still greater
disturbance from the
upon the system is
system. In view of the
step must be
the system and
any disturbance
in the matter is
to give a correct
to the system
disturbance of the
the system

day to day, because we can thus detect error,
 and elicit truth which at first we may have
 failed to discover. Again, if it is in our power we
 should always select that period of time in the disease,
 in which from the absence of pain the patient is
 comparatively calm and placid. It is necessary
 to note many other circumstances connected
 with this part of the subject, but they are
 passed over in silence, because pathology
 which is an important element in diagnosis
 claims more deservedly our attention. When
 this department of medical science assumed a
 distinct form, its followers, looked anxiously for
 the revelation of many diseases which had
 hitherto, been the subjects of endless speculation:
 nor were they disappointed, for many of the
 brightest, gems which adorn medical science are
 the rewards gathered from its fields, still rich

15
in promise, Indeed we owe nearly all our
knowledge, of certain affections, (which before
were justly said to be the reproaches, of ^{the} medical
art) to pathological investigations. Let us, then
hope that medical science, will soon throw off
the shackles which encompass her, and present
to the world not an art void of certainty, but
one clothed with all the beauties and attributes
of truth; one which will not embrace within its
sacred walls alike, the designing charlatan, and
and ^{the} noble worshipper of truth; one which will
in the hour of need forsake us not, but guide us
to all our, hopes; all our anxious desires; all our
most fervent wishes;) The alleviation of pain and
the restoration to health of our fellowmen, Is
pathology about to bring disease wholly under the
control of medicine? Is the prediction of Rush
about to be fulfilled? Oh; would to God that

in former times we were nearly all
knowledge of certain of the
was first seen in the year of
out to the public in 1840. It is
the first time we have seen
the subject of the present
to the world in a new
in the year 1840. It is
if that, we shall not
some will be the
any, with the exception of
in the year of 1840, we
to see our paper; all
most famous and the
the restriction to
perhaps some of the
subject of the present
some of the

science may thus triumph over disease and that rational medicine with all its nobleness, beauty and grandeur, may sway the minds of men in all their investigations; for it is to this, school of medical philosophers, that hope ever bids us look for new conquests, new victories over disease which has laid low in dust its countless thousands, with all their intelligence, wealth, and greatness. But let us turn our minds more directly to pathology, which is now the basis of rational medicine; let us note its connections with diagnosis; and observe how it points to the successful treatment of disease: let us listen to its voice, when man's heart touched with grief and pain calls us to aid him, in his distress; for if we lay aside this the sheet-anchor of our hopes, all is lost, and science weeps over its fall and degradation.

17

It is true that a certain number of medical men still call disease a collection of symptoms, and guided by this false philosophy, they, treat with great assiduity these manifestations of disease. Thus a patient has headaches; the symptomatic man orders leeches: because he calls it disease, and because he once or twice, before, cured it before from their direct application to ^{the} temples: now he orders this medicine, and now that, as one after the other fails, untill at last perhaps he by accident or good luck hits upon the right thing, which may be the reverse of that first tried. Now if we follow pathology in our diagnosis this random shooting is avoided, for the symptoms above named would by it be referred to their proper causes, and the medicine necessary to counteract this cause given without danger to the patient, and with credit to the Dr

of a certain kind of...
 that still are...
 quantity of...
 great...
 a...
 some...
 because...
 this...
 the...
 fair...
 of...
 may...
 for...
 to...
 the...
 proper...
 the...
 a...

In no affections of the human body is this pathological knowledge more important than in diseases of the nervous system. Epilepsy with its strange features, Hysteria with its unique symptoms, Mania with its deplorable and heart-rending shrieks, are alone diagnosed and treated correctly, when their pathology is duly considered. I once knew a girl who had epilepsy for 8 years, who had been bled for 6 without relief; strange perversion of reason followed this course of treatment, for if she had been left alone such could not have been the issue of the case. Here was beautiful experience bleeding a comparatively bloodless girl to cure her, of a disease which was found to be seated in the spine, and which from the condition of the system demanded tonics, with proper local treatment. When I first saw her I was ordered as a student to bleed her, because Dr always bled her.

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

19

This I refused to do, because by doing as Dr
had done I thought that I was only drawing
her one step nearer to the grave. After this she
was not blead nor had she another attack for 9
months, ^{and} when then it was comparatively slight.

This will illustrate the importance of pathology
to diagnosis, and to the treatment of disease.

We can study disease and treat it, either empir-
ically or pathologically; the first takes together
all medicines which have been used since the
days of Adam, and probes one after another
down the throat of the patient until he is
a walking doctor shop; the other guided
by reason seeks for and finds the disease
which exists and then rationally and efficiently
cures the patient, without striking like a blind
man in the dark. We find also that in febrile
diseases, no efficient treatment or diagnosis

[The text on this page is extremely faint and illegible, appearing as light-colored ghosting or bleed-through from the reverse side of the paper. It is organized into approximately 25 horizontal lines.]

can be made out without a constant reference
 to special pathology. General pathology which
 embraces the elements of disease is likewise considered
 in every scientific diagnosis. Having acquired a knowledge
 of this, the last mentioned department of medical science
 we observe the presence or absence of certain elements in
 any given case, which will determine the name and
 nature of the disease, which is before us. Thus in
 pericarditis, inflammation, fibrinous transudation or
 exhalation, with adhesion, and partial transformation
 are elements which leave no doubt, in our minds
 (when present) that the disease which we suspected
 during life was inflammatory, and that this inflammation
 was located in a fibrous tissue. We are taught by
 general pathology that every organization has
 certain and fixed laws which are invaded by
 every disease, the general features of disease are
 in allied affections similar, and it is the province

can be made out without a student's opinion
 to appear for the day. I must, however, be
 to show the student of course, as I have
 in every respect, I hope, a high opinion of
 of the, the last American paper, the
 consider the present as a time of great
 any given case, which will certainly be
 state of the country, and I am sure
 favorable influence, I am sure
 interested with a view to the
 any amount of aid, and I am sure
 will present itself to the
 thing of the war, and I am sure
 and I am sure, I am sure, I am sure
 general history, that every paper
 contains one or two lines on
 every occasion, the present history of
 in which the student is sure to find

of this pathology to note these similitudes. Inflammation as an element of this general pathology will illustrate this point; thus all inflammations are essentially composed of "increased flow of blood to a part, with motion through the part, partly increased and partly diminished and all have certain sequences which follow each other either regularly or irregularly during its progress. If then these indications which are general, are present we diagnose this morbid condition, and these combined with the signs derived from special diagnosis, which are ascertained out by special pathology, forms the whole task of the physician. But also these special indications should have certain relations to each other, for this would render them more important and certain as diagnostic criteria. Many writers confine pathology to a bald detail of anatomical lesions, but it appears to me that such restrictions are

of this pathology to what their own...
on an account of this general pathology...
the point, that all...
of "mucous flow of blood to a part..."
the part, partly mucous...
and all have certain...
the other...
If the...
the...
at the...
an...
a...
these...
...
...
...
...
...
...
...

injurious to the advancement of useful knowledge, for it should be connected with the signs which are present during life; and thus we can look with certainty for certain changes after death. If we notice the discoveries made by this class of the profession we find that no assiduity ever compensated for the neglect of this precept, which has been followed more strictly by the French than any other nation. Look at English pathology: it is chiefly composed of the enumeration of a vast number of morbid anatomical changes, and notice scarcely is taken of the signs accompanying the disease with which they were related. Sir W. Brodie although he has not professedly written on the oedipathology of articular diseases is still a noble specimen of a special pathologist, and as far as I know deserves to be imitated more

[more than any other writer in Britain]

opinion to the measurement of the
 for it should be connected with the
 are found among the
 with certainty for certain things after
 Of the notes the circumstances of the
 of the person as far as the
 are connected for the purpose of the
 which has been followed in the
 names than any other
 English history: it is chiefly composed of
 the contents of a very large
 and various things and other
 taken of the signs accompanying the
 with which they were connected in 1813
 although the best part of the
 especially of ancient times is
 a noble specimen of a species of
 as far as the notes to be
 (see the notes to the

Indeed guided by pathology in diagnosis, we will not fail, either to detect the incurability of disease, or its capacity of being radically cured by a correct and judicious use of the means which God has put into our hands, for the alleviation of pain, and sickness. Dr Williams in his Principles of Medicine has eloquently presented to the profession the claims of pathology; and has included under this head, the symptomatology, Nosology, Semiology, Prognostics, Etiology and the primary elements of functional changes or disorders, with the structural lesions of disease. We also find included a Diagnosis, Prognosis and Hygiene; As these principles have been noticed before we will make one remarkⁿ and then pass on to the *modus, mensura*, of disease, which we have incidently remarked was an element of diagnosis. From the close connection which exists between the art of curing disease and other parts

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 honor to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
 Your obedient servant,
 J. M. [Name]

of this subject it is evident, that any attempt to separate them in toto, would only confuse and render the subject complem and difficult

The *modus procedendi* then which has been before referred to must be connected with all the other elements which go to form the diagnosis of a disease

First then we find it connected necessarily with Etiology; because when a remedial agent is used in the treatment of disease, we must decide how far such agent caused the diminution of certain signs, which are to guide our after treatment

Again, we notice the effects of remedies not only for this but for other purposes; for often from accidental occurrences the disease is intentionally rendered more intense so that its nature may be distinctly understood. This should, if it does not involve a question of conscience and this means of diagnosis should not be

of this subject is a summary of the various
 to separate them on the whole and separate
 remove the subject entirely and separate
 the various members of the subject
 reference to the subject of the subject
 elements which go to form the subject of the subject
 that then we find a connection between
 both directly because the subject of the subject
 is in the treatment of the subject, and the subject
 for the first part of the subject
 certain subjects which are to be given in the subject
 again we notice the subject of the subject of the subject
 for this part of the subject, for the subject
 associated with the subject in the subject
 in the subject of the subject as that the subject of
 the subject of the subject. The subject of
 of the subject but the subject of the subject
 in the subject of the subject of the subject

25
used unless from sheer necessity, Bloodletting is
one of the agents which is sometimes resorted to
for this purpose. Thus a patient has a fever
which from its obscure nature, cannot be said
to be inflammatory, or congestive, the physician
left in total darkness, unsheathes his lance
and thus determines the nature of the disease
Nor is this the only instance of purely empirical
practice; observe the whole nosology, every disease
which is there recorded, under peculiar circum-
stances may be treated in the same way, for
the same purpose, It is true that this
remark is humiliating to the followers of
the medical profession, but it is as true as
it is humiliating. It is easy in theory
to diagnose and cure every disease, but when
called upon, ^{to act} this beautiful fabric melts like
the mist of the morning, before the rising sun,

was made from when necessary. It is
 one of the great things in nature
 for the purpose. This is a great
 value from its nature. It is a great
 to be in nature. It is a great
 after the nature. It is a great
 It is in this the only nature of
 nature. It is a great nature.
 where a nature. It is a great
 nature. It is a great nature.
 the same purpose. It is a great
 nature. It is a great nature.
 the nature. It is a great nature.
 It is a great nature. It is a great
 to nature. It is a great nature.
 nature. It is a great nature.
 the nature. It is a great nature.
 nature. It is a great nature.

26

This empirical method is oftener used in certain
epidemics, than at any other time. One instance
may be used to prove this, (of the thousands which
exist); which is the treatment of the epidemic
Asiatic Cholera, as it recently prevailed through
the U. States and other countries: How rapid was
this disease in its march; and how various
and ineffectual was medical treatment; in its
subjugation, The Yellow fever, of Philadelphia
in 99, 99, 98, is another instance of the ^{same} ~~the~~, of
this assertion, As this the *modus medendi*
of disease is rendered more certain by diagnosis
and pathology, it will not maintain that
connection which it now has to this subject, for
it is the imperfection of science which renders
it necessary, as a constituent of diagnosis
(The *modus medendi*, of disease is the winding
up of all medical study, and ^{we} will make it the

37

the winding up of this essay, We can now see more distinctly the beauty of this the last and most important part of the physician's duty, He is in this capacity, the philosopher of nature, the worshipper of truth, and the guardian angel of mankind. Others may indulge in the petty disputes of the world, and struggle for wealth, with its importance; but the Physician if he be a true son of Asclepius thinks of the happiness which he has conferred and is still conferring on the human race. He meditates upon the past, and hears in the night winds howl the last groan of the departed spirit, which he had in vain attempted to unite with its earthly tenement. He sees death in all its forms, he looks upon man not in the days of his strength and pride, but when he is the humbled victim of disease. Let the men of world call our profession degraded and let them too forget to call to the physician for help.

The meaning of the word, the word
 was intended, the word of the
 important part of the
 report, the description of a
 with one the person
 in of course, in the
 struggle for
 physician is
 of the
 with
 upon
 the last
 in main
 the
 not in
 in
 the
 the
 and

when disease and death is abroad in the land
Such are the scenes which the physician is called
upon to behold, such are the subjects of his
contemplation; such are the elements upon which
he bases his decision, which in the hour of distress
"wings its way to the minds of his hearers for good
or for evil," and is caught up by the sufferer with
increased feeling and emotion. Contemplate for a
moment such a scene; look upon the silent group as
the smiles of joy or the tears of grief alternately
sway! Behold the physician, as he stands, calm and
collected unfolding those mysteries which no one but
himself sees and understands, his sagacity his
memory, with every faculty of the mind is active,
not a particle of evidence remains unconsidered,
but all the vast field of medicine is past over
in rapid review; and his judgement is at last
declared, which is the diagnosis of disease,

The first part of the paper is devoted to a general
 consideration of the various methods of
 determining the relative humidity of the air.
 It is shown that the most accurate method
 is that of measuring the dew point of the
 air, and that this can be done by means
 of a psychrometer. The theory of the
 psychrometer is explained, and it is shown
 that the reading of the instrument is
 independent of the rate of evaporation.
 The method of determining the relative
 humidity of the air by means of a
 psychrometer is described, and it is shown
 that the method is very accurate, and
 that it can be used for the purpose of
 determining the relative humidity of the
 air in any part of the atmosphere.

This must be given for men begin to have crude notions of medicine, who are not of the profession and their penetrating questions as they suppose them will again and again ^{be} asked until they are answered.

Then every body must know what ails Mr A or B and the question, of "what's the matter" is incessantly ringing in his ears. Again diagnosis if given in a faltering and hesitating voice, is said to be by the women (Sua love em) a quack's opinion, and they the 9th daughters of their mothers under take in vain to cure the disease. Will do I recollect an accident which happened to a case under my care caused by one of the above named dames. A little girl, had about 5 miles from Frederick a coffee-spot upset in her face from a high stove, which passing down left not a particle of cuticle on her superior and inferior extremities the rest of her body was unaccountably ^t untouched _A except her face. I gave her an anodyne, and

immediately used the only remedy of which I was
 master, which was castor oil; this was applied locally
 with cotton, and after the dripping the child fell into
 a sweet and refreshing sleep. I left the house
 and soon after an old lady, the doctress of the
 neighbourhood, entered, undressed the wound and
 applied her "cure all intment," which was the Sulphate
 of copper and lead. This was enough for the child
 died from gangrene, induced by ^{this} sovereign remedy,
 and she said of course that the Dr. ^{it} killed _A with
 his "stuff." Thus we find this privileged class of
 practitioners, continually contradicting our diagnosis
 and reversing our treatment, with perfect confidence
 and nonchalance. Let us then if we want to gain
 confidence and skill in disease rest our hopes upon
 pathology for this is ^{the} author of a correct diagnosis
 prognosis and treatment. Thus we have passed
 over the circumstances which attend diagnosis, its elements

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 obediently,
 J. M. [Name]

or principles, and the connection between these principles
 with their legitimate relations to pathology. We have found
 that every part of medical science is subject to diagnosis
 and that these parts with their elements have certain
 relations to each other. This natural chain has been
 followed out in this essay without that clearness
 which we hoped to attain, nor could we express in
 words in a forcible manner the ideas we wished
 to convey, for time would not allow us to be very
 nice in our style of composition. With these excuses
 and youth on our side we beg to be excused, for
 if we are rejected we promise a better thesis. So
 now with a few more remarks we will bid adieu to
 this subject until we ^{meet} it again in a green place, which
 is the student's dread. First, we remark, that psychological
 knowledge is important in diagnosis, because we are taught more
 in this part of philosophy the arts of reasoning more
 than in any other; diagnosis when correct

The first part of the paper is devoted to a general
 consideration of the subject, and to a statement of the
 objects to be attained. It is then divided into three
 parts, the first of which is devoted to a description
 of the nature and extent of the disease, and to a
 statement of the symptoms which attend it. The second
 part is devoted to a description of the nature and
 extent of the disease, and to a statement of the
 symptoms which attend it. The third part is devoted
 to a description of the nature and extent of the
 disease, and to a statement of the symptoms which
 attend it.

reposes upon a correct train of thought: therefore as
it it thus reposes, it is dependent on psychology, because it
teaches us a correct manner, of thinking. Physiology
is intimately connected with diagnosis, psychology is
related to physiology and thus it is likewise connected,
in this way to diagnosis. This psycho-physiological
view of diagnosis is often followed in many diseases
of the brain and nervous system; but from its
complexity and extent it cannot be discussed
in this essay. M. Hall's theory of reflex
nervous action is beautiful, and it is this theory
which elucidates many diseases which had not
been before understood; it is then to this metaphysico-
physiological theory that a correct diagnosis is
referred, which illustrates the the assertion before
made, Whether this abstract method of thought
will or will not elucidate this subject, farther, I know
not, but, I do know that German's have

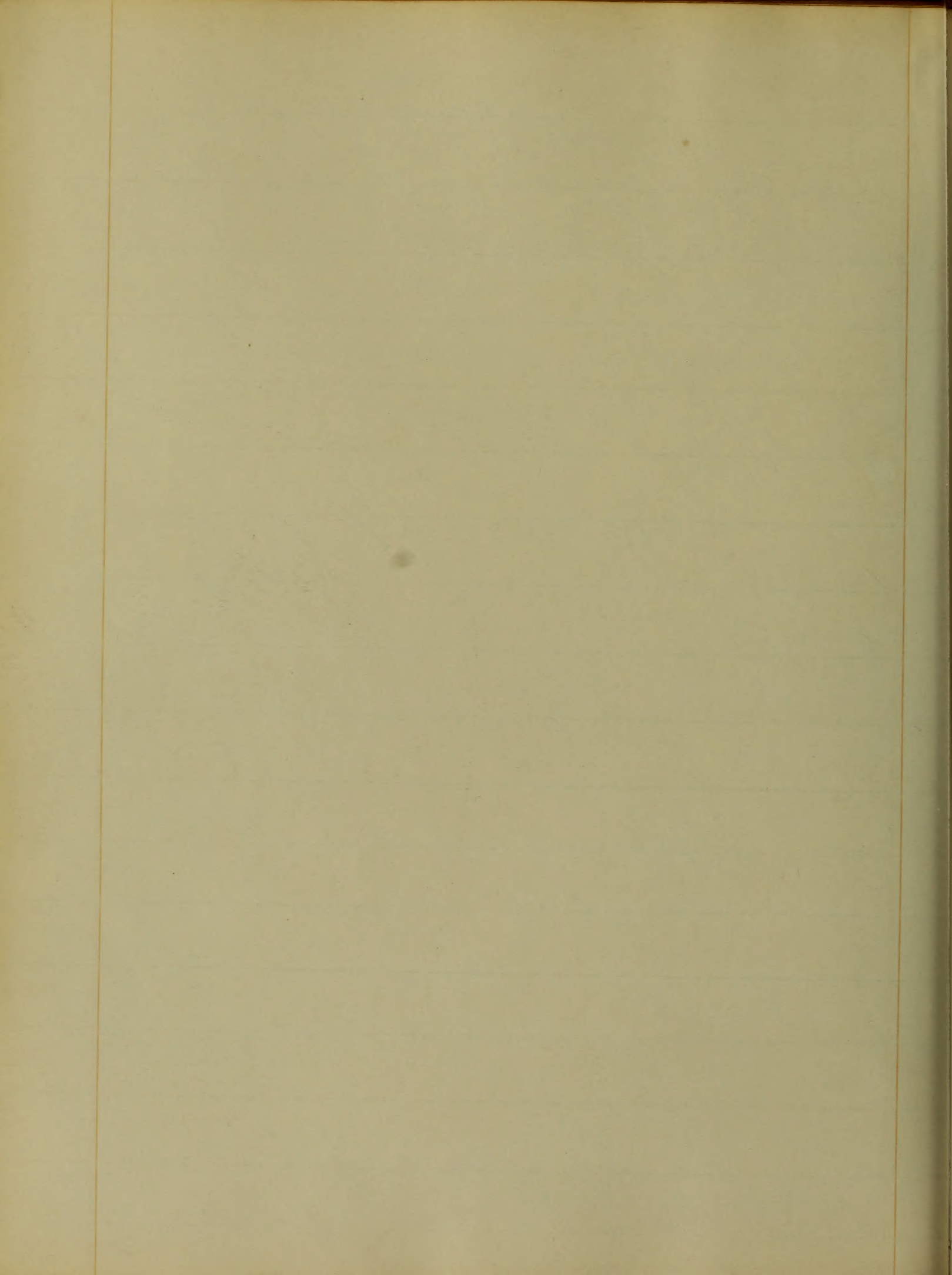
[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

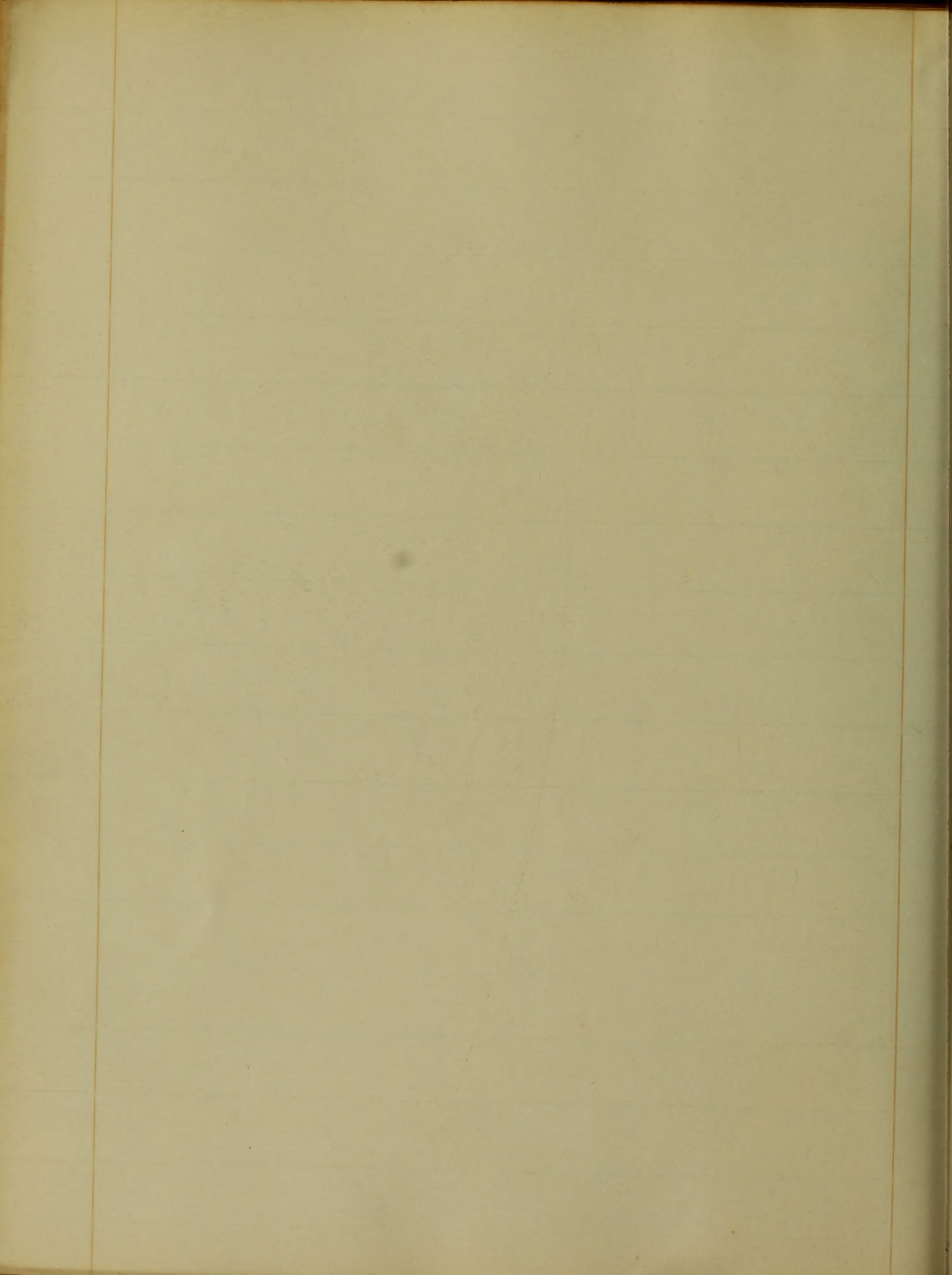
have excelled in physiological investigations, and
 that they are celebrated for their metaphysical
 acumen. We will now ^{as} dismiss this subject and
 in conclusion remark, that diagnosis should be
 the first and last study of the medical philosopher
 : for by this sort and this, alone can he gain and
 maintain, his position before the world and the
 medical faculty, which he is anxious to do, With
 this belief we would be recreant to the profession
 which we have chosen, and unjust to our fellow
 men, did we not strive to perfect ourselves in this
 branch of the medical art, Our task is now
 complete, and we will with added knowledge to
 knowledge, wisdom, to wisdom until our "alma
 mater will not look with disdain upon one
 of her humblest sons,

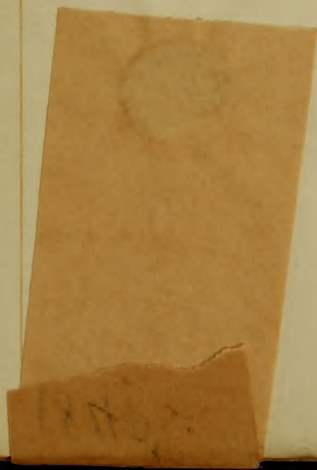
W. D. H. S. J. L. H. S.
 " " " "

Faint, illegible handwriting covering the majority of the page, likely bleed-through from the reverse side.

Wm. Lloyd Garrison
No. 25 North Street
Boston, Mass.







1840

An
Inaugural Dissertation
on
Scarlatina,
respectfully submitted
to the examination of the
Provost and Regents,
and of the Faculty of Physic,
of the
University of Maryland,
for the degree of Doctor of Medicine,
by
James V. Crawford
of
Baltimore,
February 1st 1845.

Am

inaugural Dissertation

on

Local Anesthetics

respectfully submitted

to the examination of the

Faculty of the Faculty of Medicine

of the University of Maryland

of the

University of Maryland

for the degree of Doctor of Medicine

by

James V. Gouraud

of

Baltimore

February 14, 1882.

2

To
the Faculty of Physic
of the
University of Maryland
this
Inaugural Essay
is respectfully dedicated,
in admiration
of the
distinguished ability
with which
the several Chairs are filled,
and
under a profound sense of the obligation
which the unwearied exertions of the Professors to instruct
have created,
by their grateful pupil
The Author.

To
 the Faculty of Science
 of the
 University of Maryland
 this
 inaugural Essay
 is respectfully dedicated,
 in admiration
 of the
 distinguished ability
 with which
 the several Chairs are filled,
 and
 under a professor, sense of obligation
 which the numerous questions of the Professor himself
 have created,
 by their grateful pupil
 The Author

Scarlatina.

In modern medical nomenclature, the barbarous term of Scarlatina, is applied to the disease, which forms the subject of our essay, and it appears now to have entirely replaced the original and more elegant name of Rosalia. The former term was introduced into medical literature by Sydenham, in 1670, and the authority of Dr Good has proved ineffectual to restore the latter more classical appellation.

In the classification of Willan, which has been the most favourably received, for its union of simplicity with comprehensiveness, Scarlatina is comprised under the order of Exanthemata.

With regard to the origin of Scarlatina, or Scarlet fever, various opinions have been entertained; some, thinking they could distinguish it, in the descriptions of some of the ancient authors, others, of high authority contending that it is a disease of comparatively modern date, and of Eastern origin. It is at all events certain,

Leucorrhoea.

In modern medical nomenclature, the term
 of leucorrhoea is applied to the disease which
 forms the subject of our essay, and it appears now to
 have entirely replaced the original and more elegant
 name of leucorrhoea. The former term was introduced
 into medical literature by Sydenham, in 1663, and
 the authority of Du Roi has proved insufficient to re-
 store the latter more classical appellation.

The classification of Wilson, which has been the
 most favorably received, for its manner of simplicity
 with comparative brevity, leucorrhoea is comprised
 under the order of Exanthemata.

It is equal to the origin of leucorrhoea, for the
 first, various opinions have been entertained; many
 thinking they could distinguish it, in the description
 of some of the ancient authors, others of high authority
 contending that it is a disease of comparatively modern
 date, and of Eastern origin. It is at all events certain

4

that its accurate diagnosis, has but recently been made out, and Bateman refers its first correct history to the year 1793, when the second edition of Dr Withering's essay made its appearance.

Scarlatina is a febrile disease, of a contagious, and infectious nature, characterized, by a close and diffuse scarlet coloured efflorescence of the skin, and of the mucous membrane of the mouth and fauces; and also by the peculiar appearance of the reddened and elongated papillae of the tongue, as seen projecting through a whitish cream like coat, and compared to brilliant rubies set upon a white ground. The eruption commences on the second day of the fever, in the form of minute red points, slightly raised above the surface, and intermingled with points of a somewhat larger size. These are soon aggregated into patches of irregular size, or coalescing, they form a continuous efflorescence over the entire body. The rash generally declines on the fifth or sixth day from its eruption, terminating by resolution and desquamation of the cuticle. In-

that no accurate diagnosis has been made out
 and that many refer to first correct history to the year
 1831 when the second edition of Dr. Keating's essay made
 its appearance. The disease is a febrile disease, and in its
 true nature, character, progress, and effects, has
 the appearance of the inflammation of the mucous
 membrane of the mouth and fauces; and also of the
 cutaneous appearance of the neck and chest. The
 filices of the tongue, as seen projecting through a white
 cream-like coat, and compared to brilliant white
 upon a white ground. The eruption commences on the
 acromion of the fore arm, in the form of minute red points,
 slightly raised above the surface, and intermingled
 with points of a somewhat larger size. These are soon
 gathered into patches of irregular size, or coalescing, they form
 a continuous appearance over the entire body. The work
 generally declines on the fifth or sixth day from its eruption,
 terminating by resolution and degeneration of the cuticle.

Inflammation of the throat is present in most cases.

It appears to us probable that the confusion which formerly prevailed on the subject of Scarlatina, is to be accounted for, by the various grades or types, in which it is now ascertained, this disease may appear.

The several varieties of Scarlatina, arise from the circumstances, firstly, that its poison chiefly affects the skin, and mucous membrane of the fauces, to either of which, its action may be restricted; and secondly, that the poison acts with greater or less intensity, according to the peculiar idiosyncrasy of the patient, and the prevailing type of the epidemic.

When the fever is of a mild character, the cutaneous efflorescence of the usual kind, and the throat unaffected, Scarlatina simplex exists.

In the second variety, the febrile excitement is greater, and there is inflammation of the fauces constituting Scarlatina anginosa.

In the third variety, (Scarlatina maligna,) the symptoms are of a more severe description, the fever is of a typhoid type, with

inflammation of the throat is present in most cases.
 It appears to be probable that the confusion which formerly
 prevailed on the subject of leucorrhoea, is to be accounted for
 the various grades or stages in which it is now ascertained, this
 disease may appear.
 The several varieties of leucorrhoea, which form the circumstances,
 chiefly, that it is more chiefly affected the skin, and mucous
 membranes of the fauces, or either of which, its extent may be
 extensive; and accordingly, that the patient acts with greater or
 less intensity, according to the peculiar intensity of the
 patient, and the prevailing type of the epidemic.
 When the course of a mild character, the cutaneous effects
 consist of the usual kind, and the throat unaffected, leucorrhoea
 simply exists.
 In the second variety, the febrile excitement is greater, and
 there is inflammation of the fauces constituting leucorrhoea
 anginosae.
 In the third variety (leucorrhoea maligna) the symptoms are
 of a more severe description, the fauces of a different type, with

great depression of the vital powers, and it may be complicated with one or more of the following symptoms: gangrenous inflammation of the throat, tumefaction of the parotid and cervical glands, and an acrid discharge from the mucous membranes of the ear nostrils and intestines.

In a fourth variety the efflorescence is restricted to the mucous membrane of the mouth and throat. It has been designated by Dr Tweedie, *Scarlatina faucium*.

In some instances so sudden is the fatal influence of the poison upon the nervous system, as at once to prostrate the patient, and cause immediate death.

Scarlatina simplex is free from severe inflammation of the throat, or fauces, and is the most benign form of Scarlet fever.

It is preceded by the ordinary precursory symptoms of fever, such as, general lassitude, and drowsiness; by pains in the head, in the back, and in the limbs; by rigors, succeeded by feverish heat; by restlessness, anxiety, sense of oppression, and an itching and tingling sensation, and parching heat of the skin; by a quick, small pulse, and rapid respiration; by a dry cough, with

great degree of the most severe, and it may be complicated with
 the most of the following symptoms: prostration, inflammation
 of the throat, transference of the parotid and cervical glands,
 and an acute discharge from the mucous membranes of the
 nose, throat and intestines.
 The first variety of the effluence is restricted to the
 mucous membrane of the mouth and throat. It has been designated
 by the French, *Scarlatina faucium*.
 In some instances an acute is the fatal influence of the
 disease upon the nervous system, as is also the case in
 that and consecutive diarrhoea.
 The scarlatina simplex is first from severe inflammation of the
 throat or fauces, and is the most dangerous form of the disease.
 It is preceded by the ordinary prostration of symptoms of fever,
 such as general lassitude, and drowsiness; by pains in the
 joints, and in the limbs; by rigor, succeeded by feverish
 heat; great thirst, anxiety, heat of the face, and a
 red and tingling sensation, and burning heat of the skin; by
 quick and full pulse and rapid respiration; by dry cough, with

7

redness and congestion of the mucous membrane of the mouth and fauces, and thirst; and by nausea and pain at the epigastrium. The febrile excitement is generally of a moderate character, but is observed occasionally to vary from a very trivial disturbance, to symptoms of great prostration, rapid pulse, and pungent heat of skin. The tip and edges of the tongue are red, while the centre is covered by a white, or yellowish white coat, through which are seen projecting the congested papillae. There is frequently redness of the eyes, and the sense of smell may be affected, and the whole face swollen. Towards evening an exacerbation of these symptoms, is observed, and as the period of eruption draws near, they are much aggravated. At this period the pulse is much accelerated, and feeble and the oppression often very great. But occasionally, many of the symptoms above described, are not present, and the sensations of the patient, not further affected than by a trifling ailment. The eruption mostly makes its appearance upon the second day of the fever, when it is perceptible on the face and neck, in the form of innumerable red spots, and these coalescing, and multiplying, will grad.

redness and congestion of the mucous membrane of the mouth and
throat, and that, and by muscular pain at the epigastrium.
The white excretion is generally of moderate character, but is
observed occasionally to vary from a very thin, watery, and
diffuse of great quantity, and is present at
of this, the tip and edge of the tongue are red, while the centre
is covered by a white, yellowish white coat, though which are
then projecting the congested papillae, there is frequently
redness of the eye, and the nose of smell may be affected, and
the white face another. Towards evening an excoriation of
the symphysis is observed, and as the period of eruption draws
near, they are much aggravated, the skin round the face
is much excoriated, and falls out, and the eruption often may
great. But occasionally many of the symptoms are described,
are not present, and the duration of the patient, not further
affected than by a trifling ailment. The eruption mostly makes
its appearance upon the second day of the fever, when it is per-
ceptible on the face and neck, in the form of innumerable
red spots, and these coalescing, and multiplying, will produce

8

usually spread over the whole surface. On the fourth day the rash has covered the lower extremities, and reached its acme. On the face and neck, and around the fingers, the efflorescence is diffuse and continuous, but on the trunk it appears in large irregular patches. The scarlet hue is usually most vivid on the flexures of the joints, and on the loins, and nates. There is a perceptible granular roughness of the skin, but no elevation of the patches, as in measles. The decline of the eruption follows the same order as its invasion, occurring during the fifth day, on the face and neck, during the sixth, on the upper extremities and trunk, and during the seventh, on the lower parts of the body. An eruption of little pearl coloured vesicles are occasionally observed about the fifth day, which Dr Watson observes are most thickly set on the thorax, and on the front and sides of the neck. The liquid which they contain is soon reabsorbed, and the cuticle which enclosed them, shrivels up, turns white, and comes off in a thick white scurf. During the eighth or ninth days, the cuticle desquamates; in the form of furfuraceous scales around the joints, and often in laminae

usually spread over the whole surface. On the fourth day the work
 has covered the lower extremities, and reached its apex. On
 the fifth and sixth, and covered the fingers, the inflammation
 differs and continues, but on the seventh it appears in large
 regular patches. The eruption is usually most vivid on the
 flexures of the joints, and on the face, and rate. There is a
 visible granular roughness of the skin, but no elevation of the
 patches in vesicles. The eruption of the eruption follows the
 same order as its recession, occurring during the fifth day on the
 face and neck, during the sixth, on the upper extremities
 and trunk, and during the seventh, on the lower parts of the
 body. The eruption of little head continued visible on the
 seventh day, and about the eighth day, which is the
 disease was most thickly set on the face, and on the
 and sides of the neck. The eruption which they contain is
 scattered, and the cuticle which enclosed them, dried up,
 turned white, and came off in a thick white crust. During the
 eighth or ninth day, the cuticle began to fall; in the form
 of fine scales, and around the joints, and often in laminae

9

of considerable size, from the palms of the hands, and the soles of the feet. During the eruption, in some cases, the surface is smooth and uniform, in others, part of the surface, particularly that of the abdomen, presents a pimply aspect, and is rough or granular to the touch; and again, the eruption of the little vesicles which we have noticed above, are sometimes observed. The colour of the eruption is more vivid in the evening, than in the morning, particularly on the third and fourth days. When the redness is breaking up, the patchlike character of the eruption is again observable.

During the course of the disease, there may be present, more or less painful oedema of the subcutaneous tissues, particularly on the face and hands. It has been observed, that on the decline of the disease, occasionally a sudden renewal of the febrile symptoms, and a temporary outbreak of the rash, occurs

Scarlatina anginosa. This variety is more particularly characterized, by the affection of the throat, and may be looked upon, as the typical form of Scarlet fever. The precursory

1843

of considerable size, from the palms of the hands, and the sides
of the feet. During the eruption in some cases, the surface is smooth
and uniform, in others, part of the surface particularly that of
the abdomen presents a knobby aspect, and is rough or gran-
ular to the touch; and again the eruption of the little vesicles
which we have noticed above, are sometimes observed. The
course of the eruption is more or less in the evening, than in
the morning, particularly on the third and fourth days. When
the eruption is breaking up, the patch like character of the er-
uption is again observed.

During the course of the disease, there may be present, more or
less painful edema of the subcutaneous tissue, particularly
on the face and hands. It has been observed, that on the de-
cline of the disease, occasionally a sudden movement of the
little lymphatics, and a temporary outbreak of the nodes,
occurs.

Scalationa eruptions. This variety is more particularly
characterized, by the affection of the throat, and may be ob-
served upon as the typical form of Vesicular fever. The necessary

10

symptoms are the same with those of Scarlatina simplex, but more severe. There is more oppression, languor, and restlessness; and frequently, nausea and vomiting, and sometimes diarrhoea. The pulse is small, quick, and feeble, and as the intensity of the inflammation augments, it becomes more frequent and of unequal strength. The fever which is of a more active kind, than in the preceding variety, may either precede or accompany the sore throat, or it may be delayed until the third or fourth day, and appear simultaneously with the efflorescence. The temperature of the skin is much augmented, and rises sometimes to 104°, or 108°, and even to 112°, and is accompanied with urgent thirst. There is pain in the head, faintness, and often delirium during the night. Wilson remarks that the premonitory symptoms are occasionally accompanied with hæmorrhage from one or other of the mucous membranes. The inflammation of the fauces is violent, and as soon as the constitutional symptoms are established, the redness of the fauces and pharynx becomes intense. There is stiffness of the jaws, and difficulty of swallowing, arising from the swelling of the mucous membrane,

of swelling arising from the swelling of the mucous membrane
 becomes intense. There is stiffness of the joints, and difficulty
 some are established, the redness of the face and pharynx
 the force is evident, and as soon as the constitutional signs
 over other of the mucous membranes. The inflammation
 symptoms are occasionally accompanied with lameness of
 limbs during the night. Wilson remarks that the inflammation
 is great chief. There is pain in the head, faintness, and often de
 times to 100, or 104, and even to 110, and is accompanied with
 temperature of the skin is much augmented, and also some
 day, and often simultaneously with the effluvia. The
 the next heat, or it may be delayed until the third or fourth
 in the preceding variety, may either precede or accompany
 unequal strength. The fever which is of more active kind, than
 inflammation arguments, it becomes more frequent and of
 the pulse is small, quick, and feeble, and on the intensity of the
 and frequently, nausea and vomiting, and sometimes diarrhoea.
 more severe. There is more of the face, tongue, and vessels of the
 symptoms are the same with those of Venereal inflammation, but

and from enlargement of the salivary, and lymphatic glands. There is also constriction of the laryngeal passages producing hoarseness. There is more or less uneasiness of respiration, and a viscid tenacious secretion, and an exudation of coagulable lymph, which, might be mistaken for sloughs of the mucous membrane, collects about the fauces. These patches of false membrane appear on the third or fourth day, when ulcerations also begin to be apparent. The tonsils and uvula are swollen, so as to block up the passage of the fauces, and the whole of the soft palate partakes of the same inflammatory action. The engorged and lengthened papillae lie upon the white mucus, with which the tongue is coated, presenting a striking contrast, the edges of the tongue being of a bright red colour also. The red points gradually multiply, as the white fur clears away, untill the whole surface, is preternaturally clean and red, raw-looking and rough. The ulcerations of the mucous membranes, are denoted by the appearance of excavation, which is however sometimes concealed by the lymph (whose formation appears to precede it,) and also by a ring of vessels around

and from engagement of the laboratory and hospital grounds.
 There is also a collection of the large and small papers, including
 drawings. There is a more or less measure of vegetation, and a
 small terrace, consisting of an elevation of irregular
 height, which might be used for the purpose of the museum.
 The garden is about the house. These patches of fields
 are shown as seen on the first or fourth day, when the
 trees also begin to disappear. The trees and under-
 growth go on to clear up the paper of the house, and the
 of the soft foliage patches of the house in the morning
 The engaged and the garden to fill the upper part of the
 one with which the tongue is coated, presenting a striking
 contrast, the edges of the tongue being of a light red color also.
 The red spots gradually multiply, as the white fur clears
 away, until the whole surface is more or less covered
 red, and looking and rough. The ulcerations of the
 membrane, and directed by the appearance of a scarious
 in however sometimes covered by the lymph. The
 then appears to precede it) and also by a ring of red

12

each of the ulcerated spots. These ulcerations are by no means un-
-common, and are indicative of no danger. The rash in this va-
-riety comes out in scattered patches on the chest and arms,
or it may be confined to the back of the hand, and wrists, and
may vanish and reappear at uncertain intervals, but it is gen-
-erally of a more intense redness. It is in the vicinity of the joints
that it is most uniform and vivid. The cutaneous congestion
is of a longer duration, in this form of *Scarlatina*, than in the
preceding, and is followed by less desquamation of the cuticle.
The tonsils are sometimes superficially ulcerated, and true
sloughs have been observed in the throat. The eruption grows
pale on the fifth or sixth day, but, though the state of the
throat may then improve, the disorder of the mucous mem-
-brane is continued for a fortnight or three weeks. Occasion-
-ally one of the joints, as of the finger or knee, becomes inflamed
at the decline of the eruption, and still further lengthens
the disease. In a more aggravated form of *Scarlatina anginosa*,
there is an acrid discharge from the nostrils and ears, or in-
-flammation of the parotid or cervical glands, terminating

of the various parts, these variations are of the nature
 common, and are indicated for the purpose of the
 study, and are scattered in the chest and arms,
 and may be confined to the back of the hand, and wrist, and
 may sometimes appear in various intervals, but this
 is in the vicinity of the joints. It is in the vicinity of the joints
 that it is most uniform and occurs. The cutaneous eruption
 is of a large diameter in the form of papules, than in the
 preceding, and is followed by a degeneration of the cuticle.
 The papules are sometimes superficially ulcerated, and the
 ulcers have been observed in the chest. The eruption
 has on the face or neck, but, though the eruption
 about may be extensive, the character of the eruption
 is continued for a fortnight or three weeks. The
 eruption of the joints, and of the face or neck, is more
 at the decline of the eruption, and still further
 the eruption. The more approximate form of papules
 there is an acid discharge from the papules and
 formation of the papules, and of the eruption.

in suppuration. After the cessation of the disease, the patient's powers are considerably prostrated, and much debility remains.

Scarlatina maligna. This is another form of the affection, in which there is a great disposition to sloughing, to mortification of the throat, and putrescency of the body, and in which the affection of the nervous system exists in its most aggravated form. Its greater or less severity appears to be dependent upon the constitution of the patient, the commodiousness of his habitation, and the season of the year. At its commencement it may differ but little from *Scarlatina anginosa*, but its formidable nature soon becomes apparent. The disease assumes a violent typhoid form, in which, the efflorescence is dark and livid, and comes out at a late period of the affection, and is very irregular in its course and duration. In *Scarlatina maligna*, the nervous power is extremely depressed, and the patient is restless, fretful, and very frequently delirious. The delirium, though generally of a low muttering description, is sometimes violent. There are periods of torpor or coma, and convulsions may occur. The head is greatly affected in this form

in support of the system of the patient's
 views are considered by the patient's
 the patient's views are considered by the patient's
 in which the patient's views are considered by the patient's
 list of the patient's views are considered by the patient's
 affecting of the patient's views are considered by the patient's
 from the patient's views are considered by the patient's
 constitution of the patient's views are considered by the patient's
 and the patient's views are considered by the patient's
 for the patient's views are considered by the patient's
 nature from the patient's views are considered by the patient's
 but the patient's views are considered by the patient's
 list and comes out of the patient's views are considered by the patient's
 may be regarded in its own right and duration. The patient's
 patient's views are considered by the patient's
 patient is restless, fidgety, and very frequently delirious. The
 delirium, though generally of a low order, is very frequent
 sometimes violent. These are kinds of torpor, and the
 various may occur. The head is greatly affected in this form

14
of the disease, and there exists a tendency to encephalitis, and other inflam-
-matory affections. The eyes are red and sunken, the cheeks darkly flushed
and tumid, and their mucous membrane aptuous. The pulse is quick,
irregular, and feeble, and the tongue which is at first white, and studded
with the congested papillae, afterwards become dry and brown, or black,
or it may be red, dry, and glazed, and often very tender and chapped.
There is an acid excoriating discharge from the nostrils, and a viscid
secretion from the fauces, and very frequently, suppuration of the cer-
-vical and submaxillary glands. In many cases there is a great ten-
-dency to discharges from the mucous membranes, either of the nostrils
or throat, the intestines or urinary canal, and which are of an acid
excoriating character. Sordes collect about the lips, and on the teeth,
and the fauces are greatly congested, and of a purplish hue. The ton-
-sils do not present the enlarged size, the bright redness, and hardness
of touch common to them in *Scarlatina anginosa*, but are soft, darkly
red, or livid, but little enlarged, and covered with sloughs, or deeply ex-
-cavated by foul and ragged ulcers. This condition of the tonsils, does
not impede respiration, and deglutition, so much as the swollen throat
of *Scarlatina anginosa*, but the respiration is as much obstructed by

of the disease, and there exists a tendency to suppuration, and other
inflammatory affections. The eyes are red, and the discharge is
abundant, and the patient is very restless. The pulse is quick,
irregular, and feeble, and the tongue is thick and white, and
with the congested papillae, afterwards becoming red, brown, or black,
or it may be red, dry, and glazed, and often very tender and cracked.
There is an acid excretion discharging from the nostrils, and a viscid
secretion from the fauces, and they frequently suffer from
local and subacute inflammation. In many cases the
disease is discharged from the nostrils, and the
character is usually nasal, and which is one of our
characteristic disorders, but the discharge is not
and the fauces are greatly congested, and of a purplish
color, and present the same appearance, and the
of such a nature, that the patient is very restless, and
the discharge is not only abundant, and covered with
concretions of fat, and ragged pieces. This condition of the
is not infrequently met with, and is attended with
of the disease, but the excretion is not so much

the viscid secretions, which collect in the pharynx and trachea, causing it to be quick and rattling, and deglutition also is rendered equally difficult by the pain and spasm which attend the attempt at swallowing.

The fever is occasionally accompanied with diarrhoea, and petechiae are not uncommonly observed. The eruption which does not appear until the third or fourth day of the fever, comes out in patches, and is partial, indistinct, and of uncertain duration.

The peculiar symptoms of each of the three varieties of Scarlet fever, above described, are so frequently intermingled, with one another, in some instances, that the affection cannot be referred to any of the three separately, or unconnectedly.

Even when Scarlatina at its onset, has been of the mildest form, its whole aspect may become suddenly changed, and the symptoms assume a malignant character; and it often exhibits in different members of the same family, simultaneously affected, every gradation from the mildest, to the most malignant form. Dr Tweedie describes cases terminating fatally on the second, third, or fourth days, without the practitioner being able to assign any satisfactory reason, or discover any lesion on the most careful examination of the body.

184
The most common, which is called in the
to the functional parting, and depletion also observed equally
in the pain and spasm which attend the
the form is occasionally associated with diarrhoea, and
most numerous of cases, the eruption which does not
until the third or fourth day of the fever comes out in patches, and
is partial, indistinct, and of uncertain duration
The few or symptoms of each of the three varieties of scarlet fever,
as described, are so frequently intermingled, with one another,
in some instances, that the affection cannot be referred to any of the
three separately, or unaccountably.
Scarlet fever, as a disease, has been of the most fatal form,
its nature as yet may become suddenly changed, and the symptoms
assume a malignant character, and it often exhibits in different
members of the same family, simultaneously affected, every generation
from the mildest to the most malignant form. In the latter description
cases terminating fatally or otherwise, which, on first being
the practitioner being able to assign any satisfactory reason, or discover
any cause, or the most careful examination of the body.

16
Scarlatina faucium. This is another form of the affection, in which the throat is affected, and not the surface. Dr Willan says, that it is evident, by a species of Scarlatina, because it is capable of communicating by infection, all the varieties of that disease. It commences with all the characters of Scarlatina anginosa, or maligna, and runs the usual course of those diseases, with the exception of the cutaneous eruption.

Sequelae. It sometimes happens, that when a patient is rapidly recovering from Scarlatina, life will be suddenly destroyed, by the super-vention of some local affections, such as inflammation of some of the serous membranes, or bronchitis, and gastro enteritis; and these are always rendered dangerous, by the prostration of the system, produced by the preceding disorder. After the painful oedema, which is often observed in the eyelids, face, and scrotum, and in the feet and hands, has subsided, the vitality of the parts may remain unimpaired, but in a few instances, they may fall into a state of mortification. In some cases the anasarca comes ⁽ⁱⁿ⁾ on the interval, (between ten and twenty days, after the disappearance of the rash. It as often supervenes upon the mild, as upon the severer forms, but less frequently after Scarlatina maligna. The effusion generally extends over the whole body, but little danger is to be apprehended from this; but when it

The following is a list of the cases of the disease, which the
 doctor has collected, and was the subject of Dr. Wilson's paper, that this is
 by a series of observations, because this is a kind of communication of
 the disease, and the nature of the disease. The connection with the
 character of the disease, or malignancy, and how the usual
 course of the disease, with the exception of the ordinary course,
 is regular. It sometimes happens, that when a patient is rapidly
 recovering from the disease, it will be suddenly destroyed by the
 presence of some local affection, such as inflammation of some of the
 internal organs, or bronchitis, and gastro-enteritis; and these are always
 understood to be dangerous, by the association of the system, produced by the
 existing disease, after the painful edema, which is often observed in the
 eyelids, face, and extremities, and in the feet and hands, has subsided, the
 stability of the parts may remain in a state, but the disease may
 follow a state of fluctuation. In some cases the disease may be
 removed, but in some it may be only a temporary relief of the
 disease, and the patient may be left in a state of weakness, but the
 quantity of the disease may be the effect of the disease, and the
 state of the patient may be to be affected, but the disease may be

17

occurs in the cavities of the serous and synovial membranes, the danger becomes imminent. The cause of this effusion has been referred by some to the transfer of the inflammatory action, to the structure of the kidney, as indicated by the occasional presence of urea in the effused fluid, and by the circumstance of the urine being brownish in colour, from admixture with blood, and more or less impregnated with albumen. It is the opinion of Dr Tweedie, that the frequency and power of the pulse, the albuminous urine, the rapidity of the accumulation, and the relief afforded by blood-letting, denote the result of an increased action of the sanguiferous system. That the latter circumstance does occur, is undoubtedly the fact, and the anasarca consequent thereon, may therefore be called a febrile dropsy, though it cannot be one of a sthenic kind. It is also true, that chronic disease of the kidney (as Bright's disease), not unfrequently supervenes upon the anasarca, but it does not appear that the affection of the kidney is the primary or proximate cause of the dropsy; for after death preceded by anasarca, Dr Watson says it is common to find no traces of inflammation. But it appears that exposure to cold, during the formation of new cuticle, or a little subsequent to it, is one of the chief exciting causes of the general vascular excitement. At the same time, there is debility of

the venous absorbent system (a debility which is shared in common with other systems of the body;) and thus the weakened absorbents are incapacitated for carrying off the accumulation of the fluid, which has ensued upon the excitement of the vascular system. Watson remarks, that the anasarca is worse after great desquamation of the cuticle. The morbid state of the fluids of the body, irritating the vessels through which they pass, sometimes involves the lymphatic system, and particularly the glands, in the secondary disorder. The lymphatic glands become inflamed and enlarged, and in debilitated systems are apt to end in abscess and suppuration, which may destroy the patient by prolonged irritation. The affections of the mucous membranes, are among the most frequent in the sequelae of Scarlatina; such as ulcerations and suppuration of the Eustachian tube, and meatus auditorius; ulceration of the mucous membrane of the nose, apthae of the buccal cavity, ulceration and thickening of the lips, and chronic inflammation of the salivary glands. Loss of hearing may result from the participation of the tympanum in the affection of the Eustachian tube, and chronic diarrhoea may remain, from the effect of the poison upon the mucous membrane of the alimentary

The various electrical systems which are found in common with
 the system of the body; and also the various electrical apparatuses
 for carrying off the accumulation of the fluid, which has been
 the instrument of the muscular system. It is remarkable that the
 various electrical apparatuses of the muscles, the various
 effects of electricity, relating to the various parts of the
 system involves the sympathetic system, and particularly the glands,
 in the secondary disorder. The sympathetic glands become enlarged
 and enlarged, and in debilitated systems are apt to end in
 and putrefaction, which may destroy the patient by protracted
 inflammation of the viscera mentioned, or many the most frequent
 in the region of the abdomen; and as a consequence and
 cause of the distention of the abdomen and protracted
 of the viscera mentioned of the liver, spleen of the liver can
 be, but certain and striking of the life, and chosen in
 nature of the various glands. Life of hearing may result from
 the participation of the system in the affection of the
 system to be, and chronic distention may result from the
 effect of the various muscular members of the abdominal

canals. In some instances there is a painful swelling of the joints after Scarlatina, and which is distinguishable from true rheumatism, according to Watson partly by the ease and benefit derived from friction.

Anatomical characters. In cadaverous examinations, the morbid appearances are by no means uniform. The congestion of the cutaneous capillaries, which in life produced the exanthema, speedily disappears after death. In some places the skin is of a florid colour, or dark red, and in others there are livid spots, and petechiae, caused by extravasation of blood, in the cutaneous, and subcutaneous cellular tissue. After fatal cases of Scarlatina anginosa, there may be observed, a deeply red, congested, state of the mouth and pharynx, in some instances extending to the trachea and bronchi; and generally there is swelling of the tonsils, and adjacent parts, and these are frequently covered by coagulable lymph. In protracted cases, the kidneys have at times, presented a mottled and granulated aspect. In cases where violent delirium had been present, congestion of the brain, vascularity of the arachnoid, with a serous, and sometimes a milky effusion beneath it, have been observed.

and sometimes a white effusion beneath the brain
 congestion of the brain, vascular, with
 cases, the kidneys have at times presented a mottled and granular
 these are frequently covered by coagulable lymph. In protracted
 and generally there is swelling of the tonsils and adjacent parts, and
 spots, in some instances extending to the trachea and bronchi,
 may be observed, a deeply red, congested state of the mucous
 cellular tissue, after fatal cases of scarlatina, suppurative
 of the mucous membrane of blood in the cutaneous and subcutaneous
 or dark red, and in others the areolar parts, and patches, some
 it appears after death. In some places the skin is of a dark colour,
 lamina capillaris, which in life produced the exanthema; finally
 it appears as if no more uniform the vegetation of the cutis
 histological characters. In scarlatina examination, the
 history according to Wilson forty by the case and brief detail from
 after death, and which is distinguished from scarlatina
 acute. In scarlatina there is a painful swelling of the joints

20

Causes and peculiarities. Though Willan thought that the constitution was not disposed to a second attack of Scarlatina, it appears to be generally conceded, that exceptions to this supposed universal law, are numerous, as they are in also in other exanthemata. Persons are not so liable to the contraction of Scarlatina, as to measles and Small pox, and as a general rule, children and females are more exposed to it, than adults and men, but Scarlatina being more particularly a disease of children, in childhood, both sexes appear to be nearly equally affected by it. Scarlatina has been thought to occur more frequently in Autumn, though in some epidemics it prevails in every season of the year. The origin of the fever, is to be ascribed to a local and unknown cause, and at the present day, in some instances, it can only be called spontaneous, there being apparently nothing, nothing to which its cause can be referred; but when the disease is once generated, we may say that its general production, is then occasioned by the specific miasm, which issues from the bodies of those affected by the disease. This miasm pervades the atmosphere, and in some particular district, perhaps, or season, which favours its generation, that peculiar condition of the atmosphere is established, which may act both as the

disease and febrile action. though the latter is not
 as yet disposed to record a great deal of the latter, it appears to be
 entirely correct, that except in the suppurated universal form, or
 numerous, as they are in other exanthemata, diseases are not so
 liable to the contraction of the latter, as to the former and smaller
 and as a general rule, children and females are more exposed to it,
 than adults and men, but the latter is being more particularly
 noticed in children, in childhood, the disease appears to be nearly
 equally affected by it. Variolæ has been thought to occur more
 frequently in autumn, though in some epidemics it prevails in every
 season of the year. the origin of the fever is to be ascribed to a local
 infection, and as the present day in some instances, is especially
 called spotaneous, the disease appearing spontaneously, without
 its cause being known; but when the disease is not spontaneous, we
 may say that its general production, is the occasion of the specific
 disease, which differs from the latter of those affected by the disease.
 This disease involves the atmosphere, and in some particular cases
 that of the or least, which favors its generation, the peculiar
 condition of the atmosphere is established, which may act both as the

predisposing and exciting cause of the disease. The constitution of individuals, has also much to do, in resisting or favouring the effect of the poison upon the system. These circumstances will account for the fact, that susceptibility to its contagion, varies in different individuals, and even in the same individuals, under different circumstances, and at different times.

Scarlatina appears to be especially a disease of debility, having a tendency to prostrate both the body and mind. Its effect in depressing the tone, or the organic sensibility and contractility of the absorbents, induces us here to notice (though perhaps not in the proper place) the treatment of the anasarca which so often ensues upon Scarlatina; and which is partially referable to that depression, it being one of the elements which conspire to form the proximate cause of the effusion, as before mentioned. It is well known that dropsy is often a disease of debility, and why should it not be so here, when the peculiar effect of Scarlatina is to produce debility? And it appears not less consistent with the nature of the disease, to believe, that the organic contractility of the exhalant system, is also, injuriously modified by the same cause; and thus another element of the proximate

finding out the existing cause of the disease. The constitution of the
 individual has also much to do, in resisting or favouring the effect of the
 remedy. In the system, these circumstances will account for the fact
 that susceptibility to its contagious virus in different individuals,
 and even in the same individuals, under different circumstances, and
 at different times.
 It often appears to be especially or exclusively debility, having a
 tendency to prostrate both the body and mind. Its effect in depressing
 the system, the organic sensibility and contractility of the abdominal
 viscera is due to nature, though perhaps not in the proper place. The most
 eminent of the causes which so often arises after the disease, and
 which is partially referable to that depression, is being one of the
 elements which separate from the fermentative cause of the effluvia,
 as before mentioned. It is well known that dropsy is often a
 cause of debility and may itself not be so far from the production
 effect of localities to produce debility. And it appears not
 consistent with the nature of the disease to think that the organic
 contractility of the abdominal system is also injuriously
 affected by the same cause, and this another element of the fermentative

22

cause of the accumulation is furnished. However there are other circumstances coexistent, and generally necessary to its production. And one, is a degree of vascular excitement. The latter condition, acting as a vis a tergo, forces, in a manner, the serous or watery portion of the blood, through the relaxed exhalants. And this is the more readily to be conceived, when we reflect, that the blood itself is thinned by the previous diminution of its fibrine, and by the elimination of albumen by the kidneys. Nor is the vascular excitement, or the fever which precedes, or accompanies the anasarca, a fever of strength, or of high inflammatory action, requiring active depletion, but it is rather, one of irritability, and arises from the action of some exciting cause, upon a system already debilitated, and excitable, and therefore the more predisposed to such injurious action. Another circumstance, or condition, which is generally present, is, not organic disease, but congestion of the kidneys, arising from debility. To this state of the kidneys, may be ascribed the brownish colour of the urine, and its impregnation with albumen, when these symptoms are present. The admixture of blood in the urine, is another effect of that general relaxation, and tendency to hæmorrhage, which affect the mucous membranes in

course of the accumulation is furnished, however, the
 circumstances consistent, and generally necessary to its produc-
 tion, and even in a degree of vascular excitement, the latter
 condition being as usual a sign of vascular excitement, the
 very nature of the blood, though the blood vessels, that this
 is more readily to be conceived, when we reflect, that the
 is formed by the presence of the fibrin, and of the
 motion of the generally the kidneys, for in the vascular excitement,
 in the four which precedes or accompanies the occurrence of
 of high inflammation, and of the action of the
 rather one of excitability, and arises from the action of
 cause, upon the system of the blood, and the
 for, the more prepared to such purposes, as in the
 state, or condition, which is generally present, in
 the composition of the blood, arising from the
 kidneys, may be considered, the blood, and the
 promotion with the blood, when the symptoms are present, that
 mixture of blood in the urine, is another effect of the general
 and tendency to hemorrhage, which affect the various

23

Scarlatina, and from which at the time of the anasarcaous effusion, they have not yet fully recovered. It is well known that the presence of albumen is not always indicative, either of structural disease, or of inflammation of the kidneys; and moreover, other, and more characteristic symptoms of true inflammation are absent. Would not then, the relief afforded at times, in this affection by blood-letting appear mainly to depend on the circumstance, that it reduces the whole amount of blood; for by that reduction, the amount of fluid effused by the exhalants, must of course be diminished. The antiphlogistic treatment, may thus be indirectly remedial, but can its efficacy depend upon this treatment being based upon true principles, if the anasarca for which it is prescribed be, mainly the result of debility? And that an atonic state of the system does exist, appears to be recognized even by many of the practitioners who pursue the antiphlogistic plan; and as soon as possible after the alleviation, of the anasarca, they are accustomed to prescribe tonics. Would it not therefore follow, that if the principles we have suggested be true, that a corroborant remedial agency, capable of invigorating the body generally, of restoring the healthy action of the circulatory system, and thereby removing congestion; of removing that irritability so often the

accompaniment of debility, and finally, of giving tone also to the absorbents themselves, will, more rationally fulfil the proper indication, of restoring the balance of the exhalant and absorbent systems. And when indeed, the latter plan, has been observed to produce the happiest effects (when united with diuetics, and perhaps occasionally with a purge) will not facts also tend to the conclusion, or at all events warrant the opinion, that it is a rational treatment, and that it strikes at the root of the disorder?

Diagnosis. The sore throat of Scarlet fever, is distinguishable from ordinary cynanche, by the quick, weak, irregular pulse of the former, and the prostration of the nervous power, and the enlargement of the tonsils. Scarlet fever is most liable to be confounded with measles, and Roseola. From the former it may be distinguished, by the precursory symptoms, which are sneezing, suffusion of the eyes, cough, slight dyspnoea, and expectoration, which are absent in Scarlatina, where the first sensation of uneasiness is in the throat. In Scarlatina, the eruption appears on the second day in Measles, on the fourth. In one the rash is in irregular portions, of a crescentic or annular shape, of a rasp-berry-red colour, and slightly elevated; in the other the rash assumes the form of broad patches, of an indeterminate shape, of a more vivid, uniform, boiled-lobster, red. Scarlatina has been observed to

accompaniment of debility, and finally, of giving rise to a disordered
 tendency with morbidly full the proper medicinal use of assisting the
 nature of the system and obstructing systems. And when indeed, the
 latter plan has been chosen to further the happy effects (when united with
 diet, and such as occasionally with a purge) will not fail to do but to the
 medicine, in all cases to remove the humor, that is a rational treatment
 and that it differs at times of the disorder?
 In general, the more kind of local fever is distinguished from ordinary
 fevers, by the quick heat, irregular pulse of the former, and the
 nature of the nervous fever, and the enlargement of the vessels. Local
 fevers must be treated with antiseptics, and evacuates, from
 the former may be distinguished, by the presence of symptoms, which are
 chiefly, suffusion of the eyes, cough, slight dyspnea, and expectoration
 which are absent in local fevers, and the first sensation of uneasiness is in
 the chest. In local fevers, the eruption appears on the second day in other
 parts of the body. In one kind is an irregular eruption, for example
 on the face, for each body red, and slightly elevated, in the
 interstices of the form of local fevers for medicinal steps
 to remove the fever, local fevers, local fevers has been observed

put on an appearance, which renders it liable to be mistaken for Rubrola, especially when united with catarrhal inflammation of the eyes or nose; and this is when it occurs in smaller patches than usual, in which the primary punctated form of the eruption, is more than usually obvious.

The partial and irregularly defined rash of Roscola distinguishes it from Scarlatina, as do also, the absence of angina, the mildness of the febrile disorder, and the short duration of the complaint. Dr Thompson says that Roscola differs from Scarlatina also, in first affecting the extremities, instead of the face. Patches precisely like those of Roscola, sometimes appear mixed with the rash of Scarlatina.

Prognosis. Scarlatina simplex is free from danger, except it be complicated with some internal local inflammation; but a strict supervision should be exercised, lest it should change into a graver form. There is a congestive form of this disease, where, as we have before remarked, the powers of life may be overwhelmed at the outset. In infants the disease is commonly fatal on the seventh, or eighth day, but if the fever set in with delirium, or convulsions, death may occur on the fourth or fifth day. In infants dentition is an unfavourable complication. In Scarlatina anginosa, a bright florid appearance of the mucous membrane, is more favourable than when

it presents a dark livid aspect. In excessive swelling of the throat, and surrounding parts, especially when the air tubes are affected, the disease is dangerous; and in cases of this kind, oedema of the glottis, may supervene, and rapidly destroy the patient. Among the indications for a favourable prognosis, are; a rash of a bright red colour, steady in its continuance, and generally diffused, desquamation of the cuticle, the pulse falling in frequency, and rising in power, and the breathing becoming gentle and full. Among the unfavourable indications, are, retrocession of the rash, a fluttering, rapid pulse, a brown tongue, acrid discharges from the nose, the intermixture of petechiae with a dark, livid eruption, the admixture of blood in the urine and stools, muttering delirium, and a gangrenous appearance of the parts subjected to pressure.

The mortality of Scarlet fever, varies with the nature of the epidemic, one being perhaps of a mild benignant character, while another, may be attended with great fatality. Thus, during the year 1837, according to Dr Gregory, the number of deaths, from Scarlatina, in London, averaged 836; in 1839, the average number was 4264; and in 1840, 2238. During the past year (1845) in the city of Baltimore, where the whole number of deaths was 2879, there died from Scarlet fever 370. In children, the disease is more common,

it presents a dark blue aspect. In the first instance of the throat, and in
 ascending part, especially when the air tubes are affected, the disease is
 dangerous; and in cases of this kind, removal of the false may be necessary,
 not only to destroy the phlegm, but also to diminish the inflammation for a considerable
 time; a rest for eight or ten days, steady in its continuance, and generally
 the third, the quantity of secretion, the phlegm falling in quantity, and in
 being in power, and the breathing becoming gradually free. During the
 formation of the tubercles, or in the first part of the cough, a plentiful
 sputum; or in some instances, or which is changed from the more consistent
 of phlegm with a dark, thick, and tenacious, and the administration of that in the
 treatment is to be continued, and in some cases of phlegm
 the phlegm is to be removed.
 The mortality of this disease varies with the nature of the phlegm,
 and the progress of the tubercles, and the character, which are the way to all
 kinds with great facility. Thus during the year 1778, according to the
 report, the number of deaths from tubercles in London amounted to 216,
 in 1779, the number was 258; and in 1780, 237. During the
 year 1781, the number of deaths from tubercles was 209.
 It is said from death from 210. In children, tubercles are more common

in a very great degree between the ages of one and ten years. Between the latter ages, there occurred for instance (in a statistical calculation of its mortality) 1000 deaths, and the aggregate number, occurring at all ages above 10 years was about 80. It appears that the mortality of Scarlet fever in cities, is double that of the country, there having occurred in England, to the million, 988 deaths, in four years, in the cities, and 478 in the country and country towns.

Contagion. The infecting distance of Scarlatina is not determined, though it is considerable. It is communicable by fomites of all descriptions, and is infectious from the moment that constitutional symptoms have appeared; and the danger of infection, is even thought, not wholly to cease, until three weeks of convalescence have passed. The infection of Scarlatina, has been known to remain in particular apartments of a house, for several weeks after the family had recovered from the disease. But there is not so general a susceptibility to the infection of Scarlatina as to that of Measles and Small pox; and it is not unfrequent to meet with persons, who, although, they had been often exposed to its influence, ever continued unaffected. A cold and moist state of the atmosphere, and every circumstance, which tends to depress the powers of the nervous system, acts as predisposing causes to Scarlatina. It is mentioned by Wilson, that it is not always confined

to the human race, but that during an epidemic, which prevailed at
Lion d'Angers its poison was observed to affect in a modified form, horses,
cattle, and sheep.

Treatment. Scarlatina simplex of a mild character, requires but little
medical assistance. The bowels may be regulated by mild doses of
Magnesia, and farinaceous substances, and cooling drinks should form
the regimen. Sponging the body with cold water affords much refresh-
ment, when there is great heat of surface. The mildest forms of this
disease should be watched, lest it should degenerate into a severer type,
or become complicated with some internal inflammation.

At the decline of the disease, if there be much debility, wine, brandy,
or some simple tonic may be given.

In Scarlatina anginosa, the local inflammation is distinct, and the
fever of a more active type, but in view of the facts, that children are
generally the subjects of this disease, who have less surplus of strength to spare
than adults, and that with the exception of typhus miasm, perhaps there
is nothing that tends so much to exhaust the nervous power, both
general bleeding, and purging are unadvisable. But severe local in-
-flammation, may at times, call for the local abstraction of blood, care

29
Being taken, that the strength of the patient, shall not sink under its use. Whatever acrimonious material, may be lodged in the intestines, should be removed by some gentle aperient, but purgatives are to be viewed with some distrust, lest under their action, the tonicity of the intestinal, mucous exhalants, already affected, should entirely give way, and an exhausting diarrhoea ensue. Dr Burrows directs, in case the mucous membrane shows signs of irritation, the administration of alterative doses of Syd. cum. Creta, with Castor oil, and in some cases a few leeches or a blister to the abdomen, but we think Sinapisms preferable to blisters, from the tendency of the latter to produce sloughs of the integument. If the throat be affected with heat, redness, and swelling merely, and there is no extensive ulceration, ice or iced water, kept in the mouth or swallowed slowly, forms a grateful application. Capsicum infused in brandy or vinegar, forms a gargle also of great utility to the throat in this affection. For children of an age, in which gargles are inapplicable, a mixture may be made, of a teaspoon-ful of salt, dissolved in half a tumbler of water, to which sufficient capsicum is to be added; and a small quantity

being taken, that the strength of the patient shall not be
 used. The latter sometimes may be lodged in the
 times, should be removed by some gentle agent, but frequently
 is removed with some difficulty, but under this action the
 the intestine becomes relaxed, & body affected, should be
 give way, and some relaxing medicine may be given
 in case the former remains. These signs of irritation, the
 into time of evacuation of food, can be taken, with
 in some cases a few turds or a little is the
 that the intestine is relaxed, from the tendency of the
 latter to produce a degree of the intemperance. The
 affected with heat, redness, and swelling may, and
 in no instance is it, in a red water, like in
 is a swollen state, forms a painful application
 infused in body or mixed with a gentle dose of
 to the throat in this affection. The child is
 which may be sometimes, a mixture may be made, of
 a sufficient of salt, of food in a number of
 which sufficient relaxation is to be added, and a

of this is to be slowly swallowed at intervals, or injected with a syringe. The suborate of soda with honey and vinegar is also a very useful application. When the tumefaction of the tonsils is so great, as to impede deglutition, and respiration, they may be relieved by the application of leeches, followed by a poultice. A free incision of the tonsils has been recommended by some to relieve their over congested state. The application of Nit. Argent. to the throat is always beneficial to the throat in this enlarged state of the tonsils, and in ulcerations of the throat, and it seems not only to constrict the vessels of the mucous membrane, but also to cause the viscid secretion of the fauces to separate. If excessive heat of the skin distresses the patient, there is no remedy so grateful, and so effectual as the ablution of the body with cold water. It allays the thirst, diminishes the frequency of the pulse, and calms the irritability. If a patient should feel cold after its use, a little warm wine and water should be administered. The cold ablution acts as a most effectual febrifuge, and causes the tongue to become moist, and a general perspiration to break forth, which is followed by a calm and

refreshing sleeps. From the very nature of this disease, it might be premised that cases must frequently occur, which call for the administration of stimulants, to support the exhausted powers of the body. In these cases a stimulant plan of treatment has been attended with great success in the hands of several eminent practitioners, who have recorded statistical accounts of its efficacy, as compared with an opposite plan. In the writer's own knowledge, its value has been fully attested, in the practice of Dr Baer of Baltimore, who has long employed brandy as a stimulant in Scarlatina, and with great success.

In most systematic treatises on Medicine, authors recommend a mode of treatment, rather too strictly expectant, in Scarlatina simplex, and anginosa, and limit their approval of stimulants, to the treatment of Scarlatina maligna, as if there was a well defined line of distinction, between the three varieties. They appear also to overlook the fact, that the poison of Scarlatina, however the violence of its action, may in particular cases be modified, is still one and the same in all the varieties of the disease, and that the peculiar effect of the poison, is, to depress more

respecting this. From the very nature of this disease, it might be
 assumed that some must frequently occur which call for the admin-
 istration of stimulants, to support the exhausted powers of the
 body. In this case a stimulant plan of treatment has been at-
 tended with great success in the hands of several eminent
 practitioners, who have recorded statistical accounts of its ef-
 ficacy, as compared with an opposite plan. In the majority of
 instances, its value has been fully attested, in the practice of
 Dr Barry of Baltimore, who has long employed brandy as a
 stimulant in Cholera, and with great success.
 The most systematic practices on Cholera, which have been
 attended a mode of treatment, rather too strictly confined to
 medicinal means, and a rigorous and limit their efforts
 of stimulants to the treatment of Cholera, and give us of the
 most excellent kind of stimulants, between the two
 sides. They appear also to overlook the fact, that the power of
 nature, however the abundance of it at times, may in particular cases
 be assisted, in all cases, the power in all the varieties of the
 disease, and that the peculiar effect of the power, is to assist more

or less, the powers of the ²system (nervous) and of the body generally. The truth is, that the three varieties of Scarlatina in the order we have described them, may run one into another, or their symptoms may be so combined, as to render it as impracticable, as it would be unsafe, to put in practice the peculiar treatment adapted to any particular variety by systematic writers. Therefore if one should always wait for all the characteristic symptoms of Scarlatina, *maligna* to appear, before he should believe himself justified in supporting the strength of a patient, the patient might in many cases, be beyond the power of tonics to restore, when the prescribed time, should have come for their administration.

Scarlatina, *maligna*, of course calls for the employment of a stimulant and tonic method of treatment, for here local inflammation assumes a malignant aspect, and the fever a typhoid form. Mild aperients may be administered for the purpose of removing acrid matter from the intestines, but purgatives are attended with great risk. Even cold sponging is rarely or never necessary, but the body may be sponged with warm vinegar, or brandy and water. Quinine either alone, or in combination with the mineral acids,

and Carb. Ammonia, are among the best remedies. Wine has been highly recommended by many, and Dr Robert Williams, who strongly advocated its use, remarks, "that the existence of delirium does not contraindicate its employment, for most commonly that symptom is merely a derangement of function, and may be disregarded."

But perhaps among all the agents which have been employed in this disease, none possesses a more peculiar stimulant power than Brandy. It is preferable to Wine, because its strength is more uniform, and can be more easily ascertained and regulated. We have alluded above to its employment by a practitioner of Baltimore, whose medical acumen and experience, backed by unusual success in the treatment of those forms of Scarlatina, characterized by the untoward symptoms of debility and typhoid prostration, bears unequivocal testimony to the merits of the plan. Brandy proves very efficacious in relieving any symptoms of uneasiness and irritability, that may be present in the alimentary canal, and by invigorating the tone of the intestinal mucous membrane, will tend to check diarrhoea. From the exten-

and that... one among the best...
 highly recommended by many, and Dr Robert Williams, who
 strongly advocated it, says, "that the existence of this
 disease is not confined to its confinement, but is common
 to the most... of functions, and may
 be...
 but... all the agents which have been employed
 in this disease, more...
 than... it is... because its strength is
 more... easily... and...
 that, it has... of...
 of... and...
 of... in the treatment of these forms of...
 character of the... of ability and...
 treatment, has... to the... of the
 that... very... and...
 of... with... that may be... in the...
 of... and... of...
 that... will... to...

sive sympathies of the stomach, and intestinal canal, with the
 rest of the system, and from their great importance in the economy, the
 cordial, corroborant and tonic action exerted upon these viscera by Bran-
 dy, would alone have a tendency to exalt the prostrate energies
 of the body. But in Scarlatina, where the depression is universal,
 a remedy is required, which shall act not merely as a local agent,
 but upon the whole system, and from the powerful and diffusible
 stimulus of Brandy, it is especially adapted to fulfil this indi-
 cation. Under its use the patient, if in a sunken state will grad-
 ually revive. The pulse becomes less frequent, at the same time
 that its volume is increased. And this change of the pulse
 from its frequent, and feeble, or oppressed state is indicative of
 the removal of that tendency to congestion, which at times pre-
 vails in this disease. And the confusion of thought, or mut-
 tering delirium, and the uneasy respiration, consequent upon
 the oppressed circulation in the brain and lungs, will also
 disappear. The countenance will become expressive of relief,
 and restlessness will be diminished. These effects appear de-
 pendent upon the reaction of the nervous, upon the circulatory

system, from the stimulant action of the brandy upon the former, and to follow the equable and general distribution of the blood thereby produced. The known action of alcohol being to communicate additional energy to the muscles, to excite every part of the system, and particularly to rouse the functions of the brain and nervous system; its good effects in those forms of Scarlatina, characterized by symptoms, the reverse of strength and excitation, are easily understood. And again, in some cases, marked by that degree of excitement and irritability, which is the sure precursor of a state of collapse, the action of Brandy is to aid the circulatory system in maintaining an equable distribution of the blood, and to prevent the action of the heart and arteries from sinking beneath the threatened depressing influence of the disease. And in this way, it may be understood, how, so far from adding to the excitement, it may on the contrary act with a sedative influence, diminishing the heat and thirst, and promoting a gentle perspiration. For by giving strength to the heart, it will calm its irritable state, and lessen its anxious, quickened, and enfeebled action.

apparatus for determining the action of the body upon the forces
 and to follow the question of general distribution of blood there
 by means of the human system of blood being a communication
 with the energy of the muscles, to exert energy for the system,
 and the tendency to move the functions of the human and nervous
 system, its great effect in the form of the action, characterized
 by symptoms, the manner of strength and excitation, especially
 the food. And again, in diseases, marked by the degree of
 excitement and irritability, which is the true measure of the
 force of the action of the body is to give the muscular system
 maintaining an equal distribution of the blood, and to be
 and the action of the heart and arteries for making blood
 the character of the force of the action, and in
 this way it may be understood, but so far from adding to the
 excitement, it may be necessary to act with a sedative influ-
 ence, diminishing the heat and that of the heart, and giving
 proportion for giving strength to the heart, it will calm
 its excited state, and give its action, quickened, and in
 the action.

In cases of a congestive form of this disease, warmth, stimulants, and frictions with stimulating liniments may be employed.

In Scarlatina sine exanthemata, the treatment must be determined by the particular aspect of the fever, and regulated by the general principles we have laid down.

Finis.

In case of a rupture of the vessel, wounds, & other
 lesions with stimulating liniments may be employed
 In the treatment of the disease, the treatment must be determined
 at the particular aspect of the fever, and regulated by the
 local principles which are in operation.

Fever

9th

