

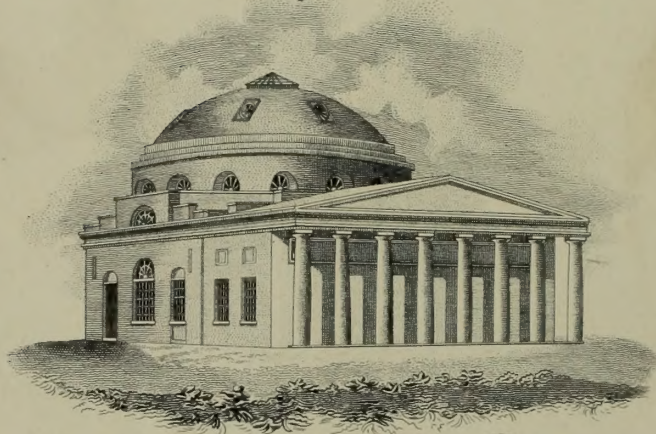
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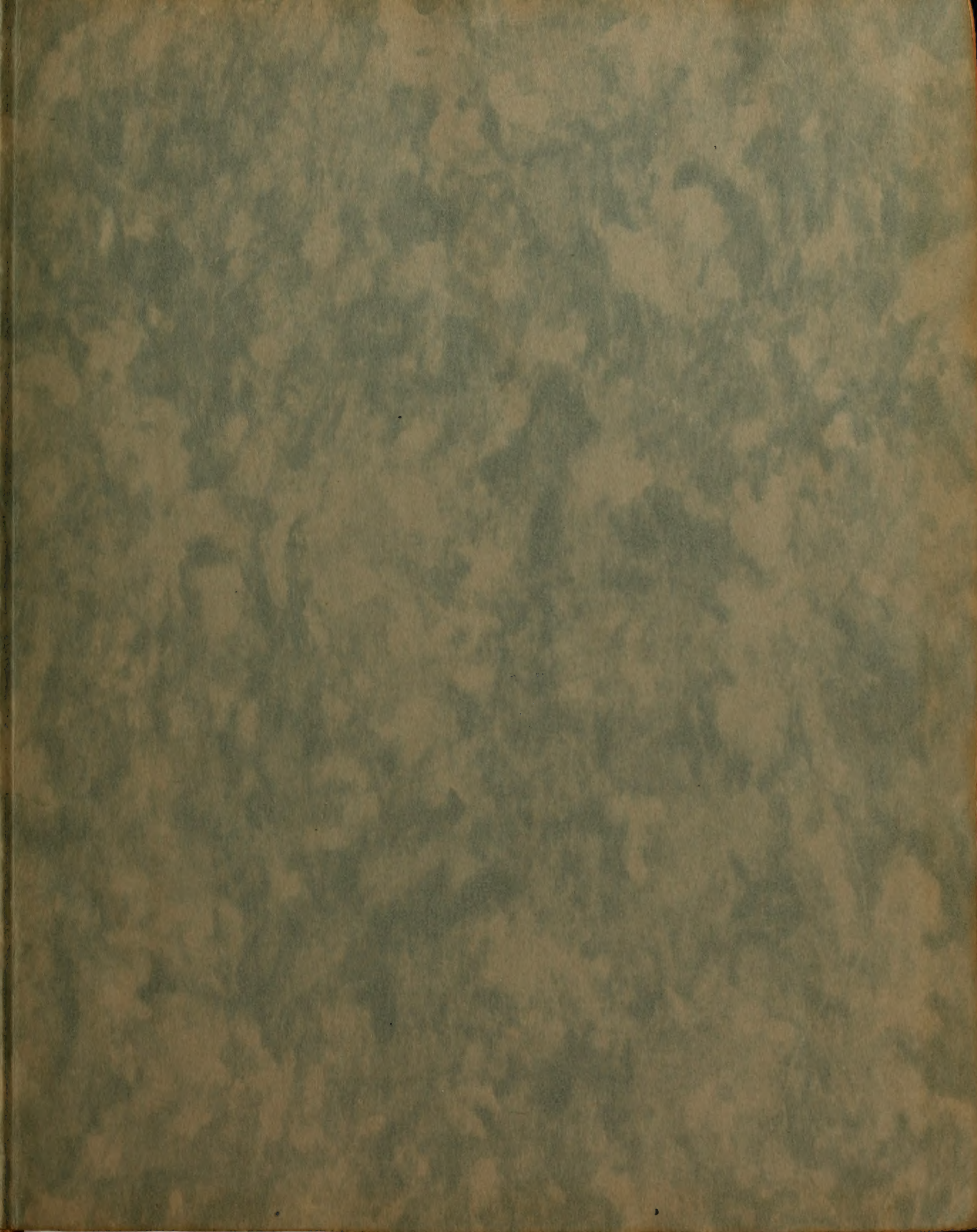
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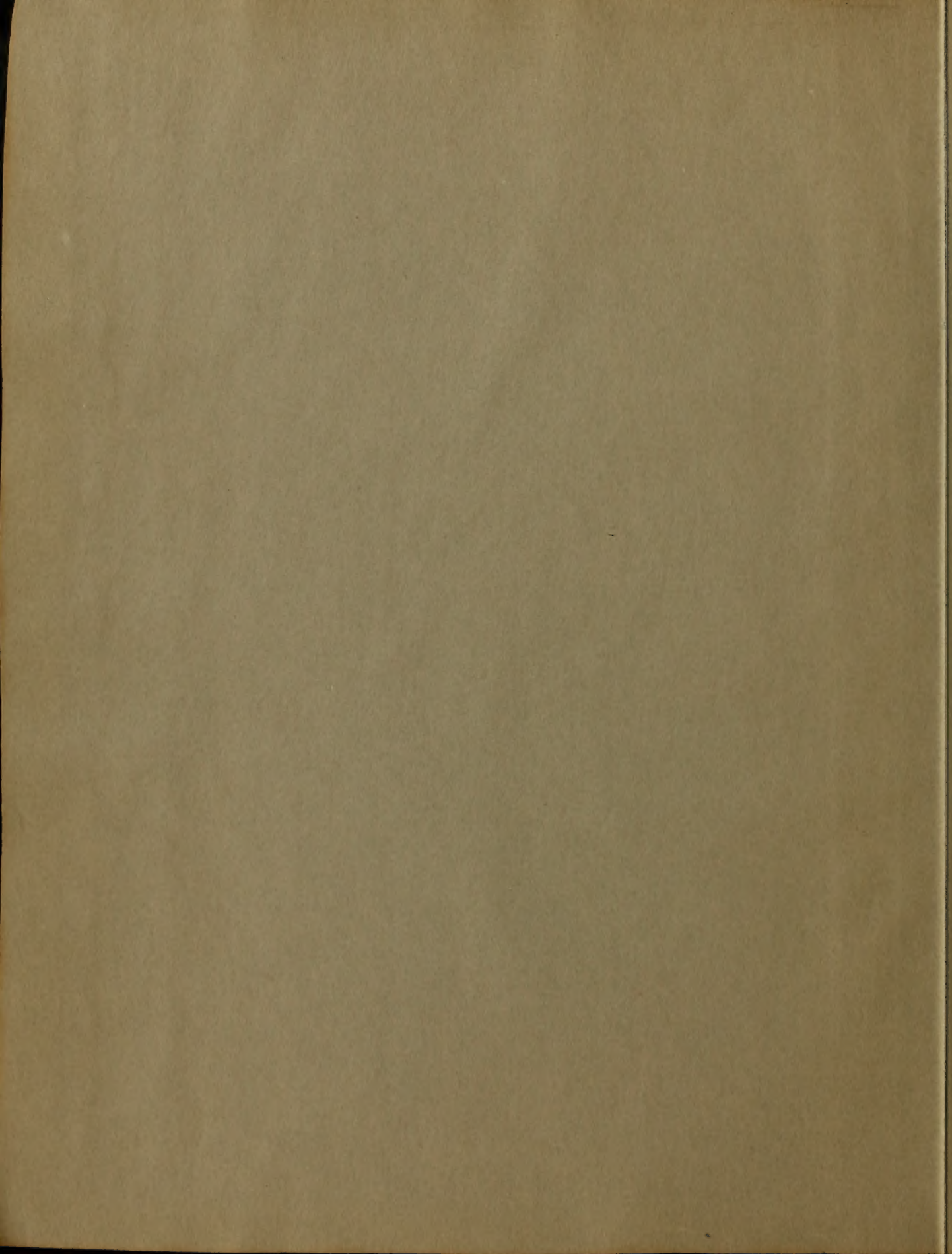
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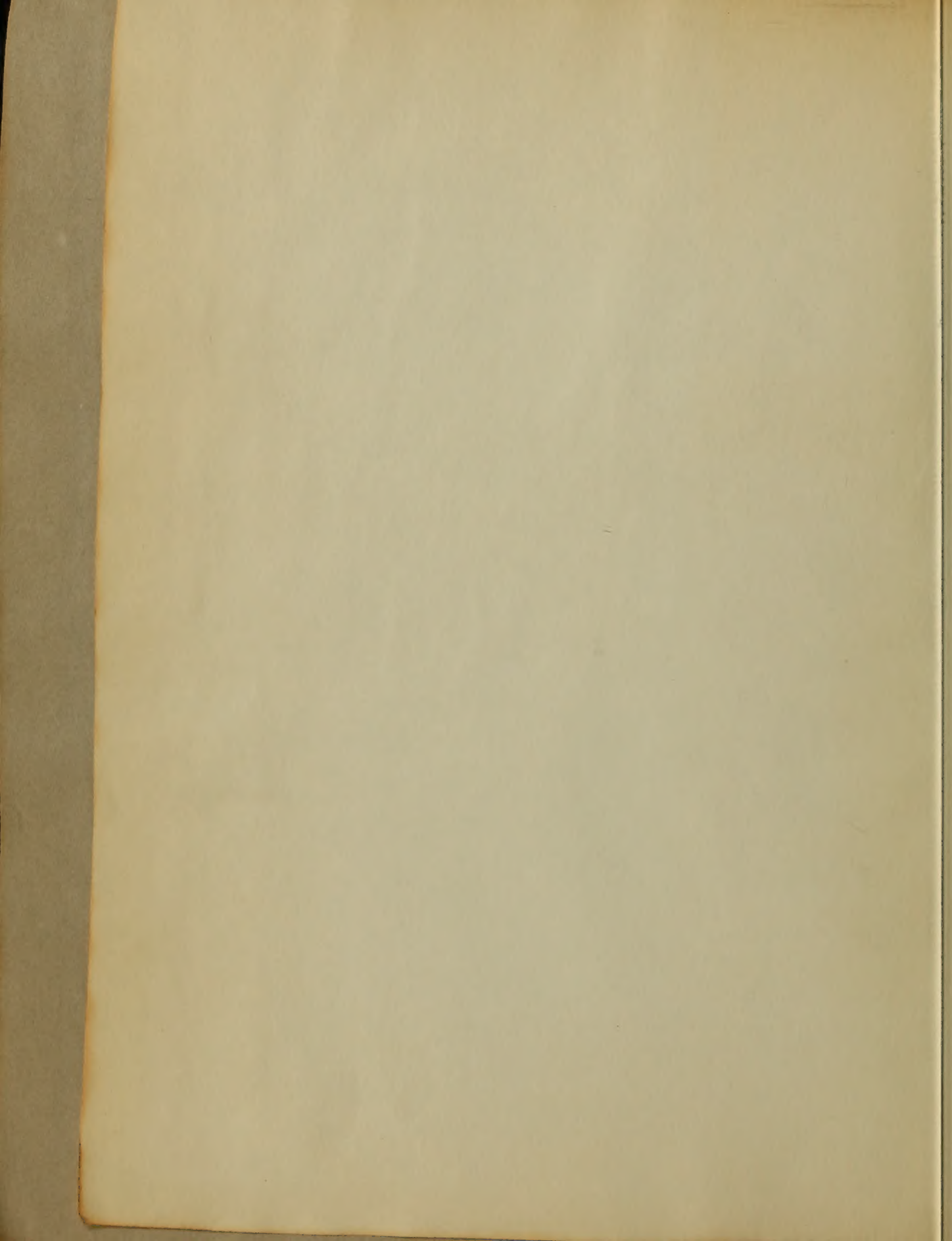
University of Maryland System

Early Doctor of Medicine and Doctor of Royal Dissertations with
Current Tables of Contents

These manuscripts described as either as *Integrative Dissertations* or as *Integrated Dissertations* were presented to the University of Maryland in the College of Doctor of Medicine and/or Doctor of Royal during the years 1812-1882. The individual dissertations were bound together during the 1870s. The original index of contents for the bound volumes contained multiple entries in authors' names, titles, and/or years. To aid researchers, an additional "Current Table of Contents" has been prepared at the beginning of each volume.

The project team who investigated and corrected the tables of contents were: Michael J. Eddles, Director, Library and Information Office; Peter Milroy, Editor, Medical Management Services; Angela Cochran and Carol Haidig-Shaw, Resource Directors; Sarah Hines, Area Science; and Megan Wolff, Services Director.

These dissertations were digitized in 2011-2012 and are available at the UMD Digital Archive (<http://archive.lib.umd.edu>) and the Internet Archive (<http://www.archive.org>).



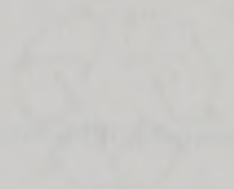
University of Maryland Theses

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).



DECLARATION OF RECEIPT

I, the undersigned, hereby acknowledge the receipt of the sum of _____ Dollars, being the amount of the _____ of the _____ of _____, and I declare that the same has been received by me in full and that I have no claim against the _____ of the _____ of _____.

Witness my hand and seal this _____ day of _____, 19____.

Signature of _____
Name of _____

(CORRECTED TABLE OF CONTENTS)

UNIVERSITY OF MARYLAND

THESES

1825

Swearingen, Charles V.	Rheumatism
Magruder, John A.	Gastritis
Connor, John W.	Hepatitis
Kuhn, Henry Jr.	Dysentery
Denny, John	Enteritis (Partially faded. Ink bleeds)
Fitzhugh, Henry W.	Hydrophobia (Noteworthy title page)
Martin, Joseph	Enteritis (Undersized)
Yandell, Lunsford <i>Pitts</i>	Pitts Insanity as Illustrated by Phrenology
Nelson, Robert H.	Rheumatismus (Latin)
Tongue, Gideon G.	Non-Contagious Nature of Yellow Fever and Experiments on Black Vomit
Morgan, William W.	Hepatitis
Cheston, James Jr.	Contagion of Typhus Fever
Smith, Robert E.	Physiological Phenomena of Vomiting
Hitt, Washington W.	Cancer
Cordell, Levi C.	De Tetano Vulneribus Oriente
Musgrove, Robert T.	Carotides Praecipue Encephali in Morbis Ligando (Latin) (Partially faded.)

'Dedication to John Quincy Adams.

SHSL 2011 for the UM Digital Archive. Sources consulted for corrections: Original Dissertation; University of Maryland Medical Faculty, Matriculation List, 1821-1851; Cordell, Eugene F. "University of Maryland, 1807-1907" (New York : The Lewis Publishing Company, 1907), Volume 2.

UNIVERSITY OF MARYLAND

THESES

1825

Swearingen, ^{Charles} S. V.	Rheumatism	23p. 18p.
Magruder, John A.	Gastritis	11p.
Connor, John W.	Hepatitis	14p.
Kuhn, Henry Jr.	Dysentery	57p.
Denny, John	Enteritis	11p.
Fitzhugh, Henry W.	Hydrophobia	13p.
Martin, Joseph	Enteritis	15p.
Yandell, ^{Lunsford} Lansford Pitts	Insanity as Illustrated by Phrenology	38p.
Nelson, Robert H.	Rheumatism ^{us}	10p.
Tongue, ^{Gideon} S. G.	Non-Contagious Nature of Yellow Fever and Experiments on Black Vomit	27p.
Morgan, William ^{W.} H.	Hepatitis	8p.
^{Cheston,} Christon, James Jr.	Contagion of Typhus Fever	7p.
Smith, Robert E.	Physiological Phenomena of Vomiting	50p.
Hitt, Washington W.	Cancer	11p.
Cordell, Levi C.	Tetanus ^{De} Tetano Vulneribus Oriente	14p.
^{Musgrove,} Musgrave, Robert T.	Carotides Praecipue Encephali in Morbis ligando Morbis Ligando	20p.

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UNIVERSITY OF CALIFORNIA

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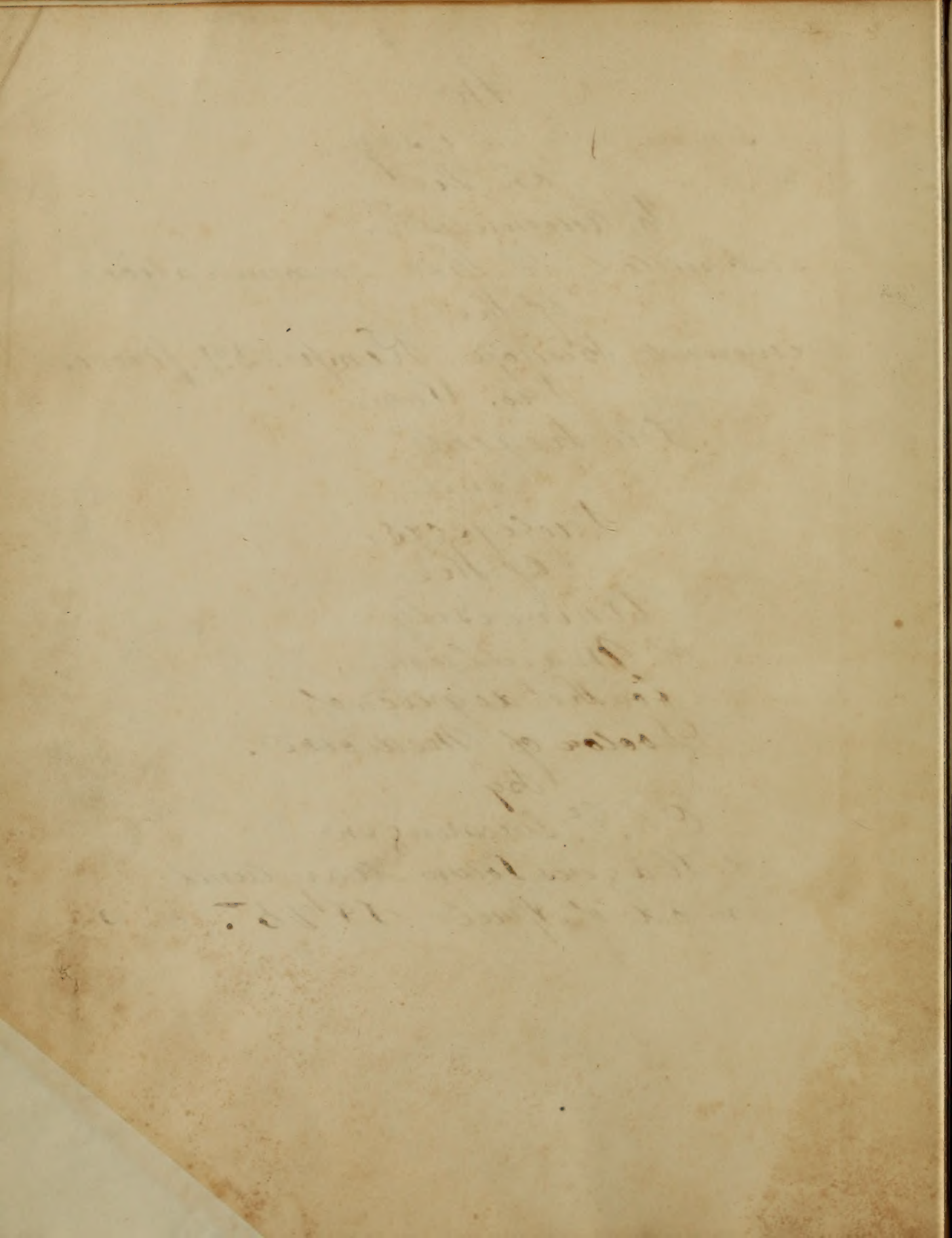
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An,
Inaugural essay,
on the
Rheumatism;
submitted to the examination,
of the,
reverend Bishop Kemp. D.D. Provost,
Pro. Tem.

The Regents
and
Professors,
of the
University
of Maryland;
for the degree of,
Doctor of Medicine.
By

Ch. V. Swearengen
of Hagers Town Maryland
On 3^d. of April 1825.





To Frederick Dorsey M.D.
Hagers Town Maryland,
who is so eminently distinguished,
In the exercise, of the profession,
in which, he is now engaged,
This Dissertation,
is, most respectfully
Inscribed,
By his,
much obliged,
Friend, and Pupil.

Ch. V. Swearingen

Although I am sensible, that it will
not be difficult to detect, many im-
-perfections in this essay; yet as liberal-
ity of sentiment, is an attendant on minds
that are endowed with genius, and judg-
ment, I hope to claim a share of
that indulgence, and trust, that
a proper allowance, will be
made for my inexperience.

The Author

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Thesis.

The Rheumatism is a disease peculiar to climates where there are sudden changes of the weather, as from heat to cold and from moisture to dryness. It is seldom found in countries uniformly hot. It occurs more frequently in Autumn and Spring after very warm or cold seasons. It is a common disease among Sailors, Soldiers, and Labourers, who from their occupations are continually exposed to the vicissitudes. Hard drinkers and persons of a plethoric habit of body with a volatile disposition seldom escape it, and it sometimes happens that persons of a weak relaxed and delicate constitution are affected with it. All such substances as act upon the body either directly or indirectly so as to occasion debility produce the disease. Excessive evacuations whether produced from the skin, bowels, or blood vessels, always induce a great degree of debility of the system, forming a predisposition, which in many instances, has laid the foundation for very obstinate and almost incurable Rheumatic affections of the joints or rather the bursae mucosae of the joints. These more frequently happen from the long continu-

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continued use of Mercurial medicines in Syph-
-ilis &c. cases of which have come under the observation
of some respectable gentlemen - cease abstracting from
the system those agents, which keep up in it a natural
and healthy action, hence, the slothful dispositions
languid habits, and uncommonly, slow pulses,
generally observed among the inhabitants of cold
climates. The pulse of a Greenlander beats
only from forty to forty five strokes in a minute,
whereas the pulse of an inhabitant of a more
southern latitude beats from seventy to eighty -
from the sedative operation of cold, we can
readily account for the paleness, & those bumps
commonly observed upon the skins of persons
exposed thereto, from the cessation or diminution
of the action of the capillaries - This likewise
explains to us the sudden stoppage of hæmorrhoids
from the same cause - The operation of
cold on the system is much greater when com-
-bined with moisture, as has been proved by
The unfortunate experience of hundreds of
persons living near the sea shore, and from
sailors and soldiers being so liable to this disease
From long exposure to the damp atmosphere,
wearing wet clothes, and suddenly going to
a draught of air, when the system is much

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much heated, and in a state of perspiration, has frequently laid the foundation for this troublesome complaint. Among the innumerable causes which predispose the system, we find none more common than that arising from a want of accommodation of dress to the various changes of weather. The absurdity of changing our apparel only with the different seasons of the year, must be obvious to every one who reflects in the least upon the uncelled nature of our climate. The greater part of the diseases of spring and autumn I believe arise from this source. Heat in a moderate degree being absolutely necessary for the due maintenance of health acts as a general stimulant to the system in producing that degree of excitement which is favorable to the healthy and natural operations of all its functions - but when in excess and long applied, its effects on the system are just the reverse, inducing languor, lassitude and other symptoms of debility, and in this manner often acts as the remote cause of this disease. The sudden changes of the weather and shifting of the wind which so commonly happen in autumn, debilitate the system and thereby occasion the disease.

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The unhappy effects produced on the body by these sudden changes, naturally suggest to us the a caution against taking draughts of cold water, when it is in any measure heated above the natural temperature - Straining business, and exercise when carried on so as to induce fatigue, likewise prove a remote cause of this disease - This readily explains to us why the labouring class of people are so very liable to be affected with rheumatism - Except in eating and drinking, also a too great indulgence in the venereal passion, are powerful agents in bringing on predisposing debility. The rheumatism seldom appears either in very young or elderly persons, it appears from the age of puberty to that of thirty five or forty years, the seat of the pain appears to be generally in the fasciæ of the muscles or in the membranous investments of the joints - The muscular fibres themselves are said to be sometimes affected - The translocation of the rheumatism to the intestines is a very common occurrence, not only the these but the Heart and Lungs are said not to be exempt from its ravages as

Nosologists have distinguished it by different appellations, according to the different parts of the body affected by it, as when it attacks the muscles of the chest, and creates symptoms similar to those of pleurisy Pleurodinic Rheumatism, when it affects the bowels and appears somewhat like dysentery, it has been denominated Enteralgia Rheumatica, when the hips become the seat of the disease, has been distinguished by the name of Sciatica - when the loins, Lumbago &c. &c. But as all such distinctions, but as all such distinctions, only serve to confuse without affording any practical utility whatever, I shall pass them over in silence, and considering the disease as a unit, shall proceed to give such a general description of it, as shall serve as a correct guide towards a successful method of treatment -

The Rheumatism has been divided by writers of all ages into the acute and Chronic, but a more natural division would have been into the acute sub-acute and Chronic & I therefore proceed to treat of each in the order in which they are

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and related to each other - As the two former however are said to differ only in degree of their intensity and duration shall treat them as one

Acute Rheumatism

The paroxysm of an acute rheumatism is generally preceded by chills, and shivering which are soon succeeded by great heat, thirst, and dryness of skin, The patient complains of great anxiety and restlessness, the tongue appears white, and the urine which at the commencement was high colored and clear, towards the middle or latter end of the paroxysm deposits a lactitious sediment The pulse is synocha or hard full and tensed the vessels of the skin appear to be somewhat spasmodically affected, from excess of action hence the stoppage of perspiration, and dryness of the skin - The pain affects the hip joint, knee, ankles, wrists, and muscles, the latter of which has it much increased upon the least motion or pressure - In point of general frequency the upper and lower extremities are affected both alike, but the head is less often affected than any other part of the body - There is a redness and swelling round the part

THE HISTORY OF THE

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part affected; which sometimes approaches to
the nature of erysipelas and is very painful to the
touch - In some few ~~diseases~~ instances, the vascu-
lar distension which gives rise to the swelling,
has taken place to such a degree, as to put some-
-what like an anasarca - This sometimes will
be marked with a recurrence or exacerbation
of febrile symptoms - The pains will become
more general and the disease will prove
more difficult to cure - The fever most com-
-monly comes on before the pains, but the
latter sometimes precede the former two or
three days - The pains seldom go off before
the fever has abated and now and then they
go off together - The patient does not enjoy
much rest at night, if the fever and pains
are the least severe, especially if the warmth
of the bed clothes renders them much worse
In this stage of rheumatism the pains in general
do not remain stationary, and affect one
part more than another, which disposition
is always increased with an increase of fever.
They commonly pursue the course of the mus-
cles and flying from one joint to another
is sometimes attended with the effect of lessening
the pain of the joint last affected - It is a re-

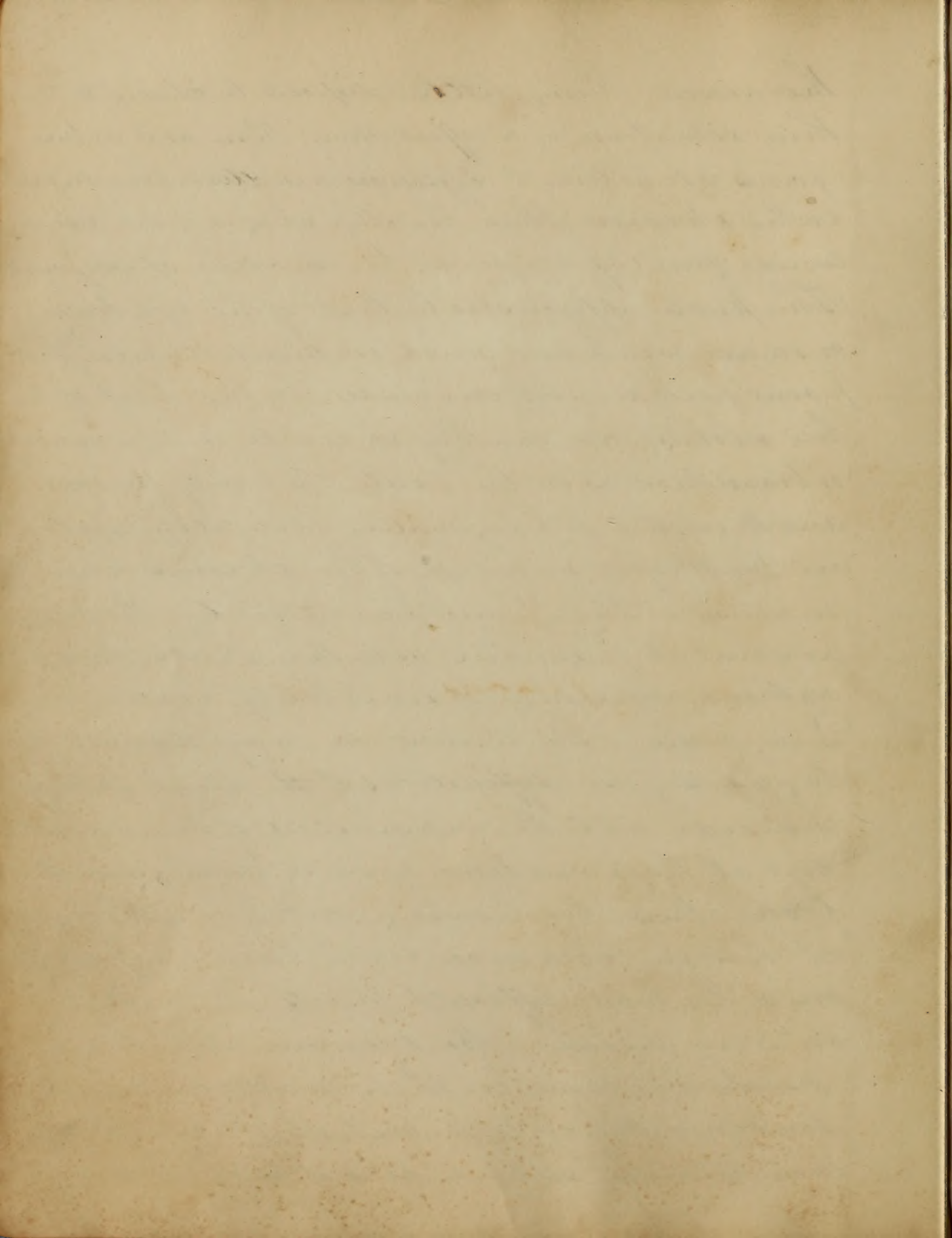
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remarkable characteristic of the disease that it seldom terminates fatally - Suppuration does not in the general take place but instead of which, effusions are produced to the great annoyance of the joint - sweating sometimes occurs at the commencement of the paroxysm, but does not prove critical or afford any relief, it frequently continues for three or four weeks, and as the fever subsides, the pains subside and are less liable to change their situation - The alteration produced in the blood is similar to that which occurs in pleurisy &c.

The Rheumatism, is that affection of the joints and muscles, which consists of pains very obstinate, accompanied with stiffness and rigidity of the parts - In the general it is scarcely attended with any febrile symptoms, and but little or no external signs of inflammation - The disease lies deep of affecting those joints, that are surrounded with large muscles, that are continually in motion as the hip joint &c. It is often a consequence of violent strains or luxations - The pains are more stationary in this stage than in the

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The acute, being little disposed to change
this situation, or to affect more than one or two
joints at a time. Effusions are oftener produced
in the chronic than the other stages of the disease
which greatly impede the motion of the joint
The pulse approaches to that of the typhus
or small weak and quick without tension. The
pains here are not increased by the heat of the
bed clothes, nor are they so liable to a recurrence
or translocation as in the acute. Elderly persons
and those of a phlegmatic temperament
are the proper subjects of the chronic rheu-
matism - The parts occupied by the disease
are not so painful as in the acute, but
rather a deficiency of sensibility occurs -
Diagnosis - In writing on any disease
to give a just definition of it, such as may
include all the characters of the disease
and at the same time serve to distinguish it
from others, by leaving out every thing
it has in common with them, is perhaps
one of the most difficult parts in writing
on any disease. But so variable has
disease become in their nature, and so
liable are they to interchanged symptoms,
that to draw such a line of distinction
as



as would serve as an unerring guide, is a task
~~un~~insurmountable but but by few if not alto-
gether impracticable - The Rheumatism is
more allied to gout than any other complaint
so great is their similarity, that many have been
lead into error respecting the two diseases, it
is either symptomatic or idiopathic - The Ancients
did not distinguish them, but named them
both under the term Arthritis, they however
differ in a few particulars - first as it respects
their degree of force - The Rheumatism is in gen-
eral much more mild in its attacks, is of
shorter duration, returns less frequently, some-
times not more than two or three times during
the whole of a ~~persons~~ life, and is much ea-
sier to subside than the gout - it seldom depends
upon a hereditary predisposition, and is gen-
erally brought on by external causes, but
gout is the frequent offspring of a hereditary
predisposition, and arises from internal
causes not altogether obvious - The gout
with few exceptions never appears till
after middle age, and attacks the smaller
joints and viscera, and very frequently the stom-
ach - The rheumatism most commonly
appears before that period and attacks the

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The small joints - and viscera but seldom
cold applied to the part affected in gout fre-
quently produces a metastasis of the disease to the
stomach which in some instances will
kill in a short time, a cold application
in Rheumatism will cause a translation of
it from a joint to a muscle, or another joint
The part affected by gout is more susceptible, than
that affected by rheumatism - The concomitants
of gout are likewise different - from those of rheu-
matism, as when it attacks the stomach, vomiting
indigestion and flatulency attend which seldom
or never accompany the latter disease - When the
Rheumatism as it sometimes does, affects the Os Sa-
crum and neighbouring parts, symptoms, will
be seen similar to ^{those from} a paroxysm of nephritis, but
may be distinguished from it - by the absence of
vomiting, and the liability of the pain to in-
crease upon the least exertion, or movement
It is with difficulty that rheumatic affections
of the chest - can be distinguished from a com-
mon pleurisy, on account of that close connec-
tion which exist between their symptoms, how-
ever from the patient having formerly suffered
and from the inflammatory diathesis being
of very long continuance, we might with

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with propriety judge of the nature of the disease -
Rheumatic affections of the bowels may be dis-
tinguished from enteritis, by the pain being less severe
of long continuance, and from the ^{non} occurrence of
vomiting - Bloody stools never occur in rheumatic
affections of the bowels, neither is it a contagious
disease which distinguish it from dysentery -
Dysenteric patients are frequently invaded by rheu-
matism, especially in the joints of the knees arms
and hands, these parts often begin to suffer, about
the time the time the intestinal affection begins
to abate - Scorbute and venereal affections
are sometimes blended with rheumatism, but
they may be distinguished by attending to
their concomitants, there is a depraved habit
of body accompanying scurvy which has never
been remarked in rheumatism, the breath also
of scorbute patients is very disagreeable to the
smell, the gums, are spongy frequently nausea
and vomiting take place, symptoms which
never occur in rheumatism - In syphilis ulcers
appear upon the genitals, which is not the
case in rheumatism, and the pains generally
affect the middle part of the bones, which in rheu-
matism are confined, to their extremities, which
circumstances will serve to distinguish
them

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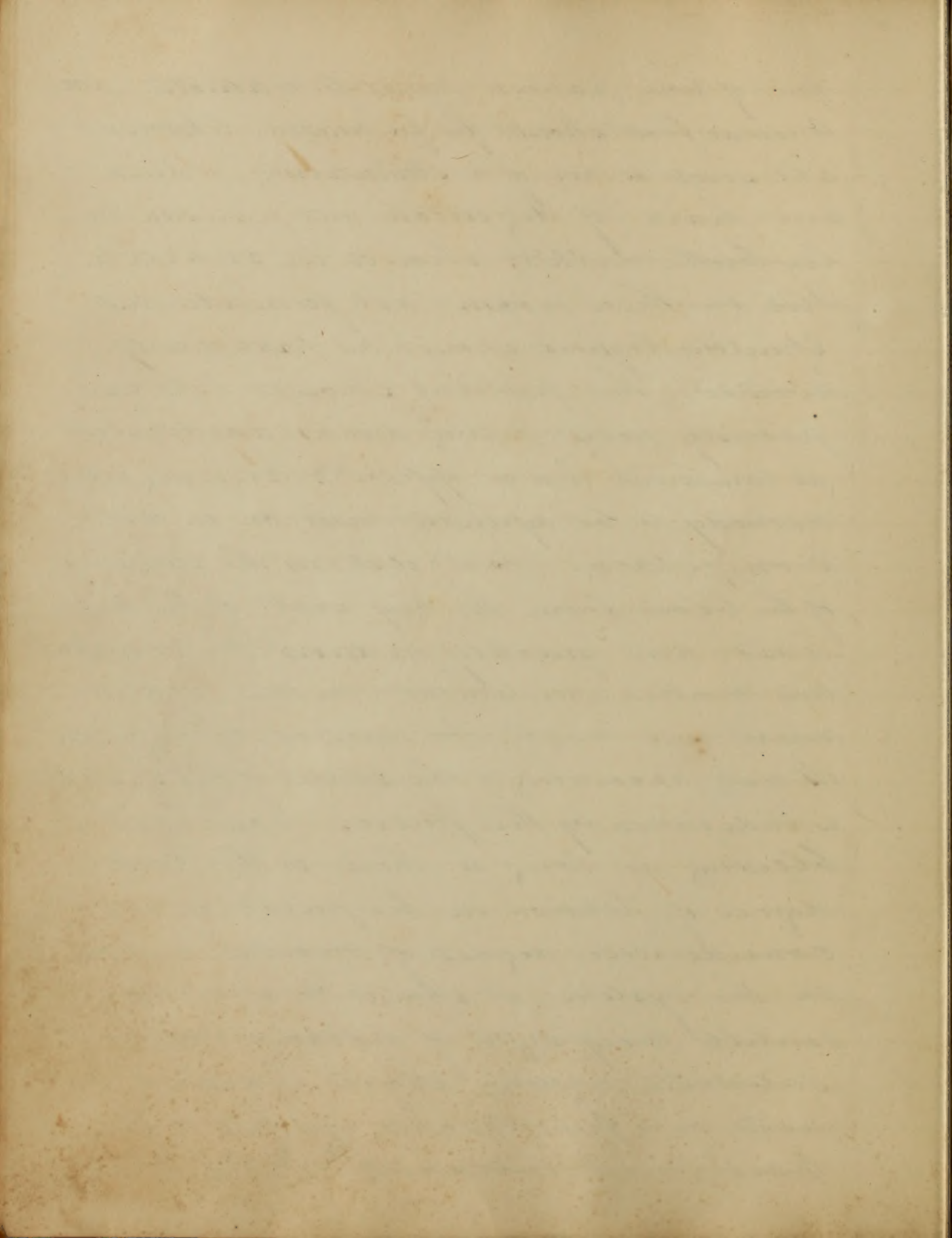
two diseases

es. Treatment of Rheumatism

The remedies that are found most useful in this disease are first bloodletting, cold, sudorifics, purges, and blisters. In the employment of these remedies we must, be regulated entirely regulated, by the violence of the symptoms and duration of the disease, for when it is recent and the pains not very great and no considerable degree of fever attending, mild and less powerful medicines will answer in subduing it, such as gentle purgatives and diaphoretics &c. it is at this period of the disease, in which frictions are found to be such advantage, its good effects will always be more certain when premised by proper evacuations, When the fever is very high - pulse hard and tense, the pains almost insupportable, flying from one joint to another, and are likely to continue for any length of time, we must then have recourse to more powerful evacuations as bleeding & cathartics &c. The propriety of withholding stimulating aliment is obvious to every one. The diet should

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A few of your patients must be restricted, all
Animal food should be forbidden, likewise
all such as are of a stimulating, nature
and hard of digestion, and panada bar-
ley broth, milk &c. should be substitu-
ted in their room, all fermented and
spiritous liquors should be particularly
avoided. The patient should take es-
pecially mild dieting drinks acidulated
as tamarind water apple &c. Bleeding is the
remedy to be depended most on in this
complaint - as it abstracts the stimulus
of the blood, from the very seat of the dis-
ease, and quickly reduces the excessive
and morbid excitement in the system
much evil might be avoided by regulating
its use according to the state of the system
as indicated by the pulse. continue the
bleeding as long as there is the least
degree of tension in the pulse or any
considerable degree of morbid action
in the system - it should be continued
untill every sign of inflammation is
subsided, cupping should likewise be
used, or a few leeches applied to the
part most inflamed. When these



measures are resorted to in time, and judiciously persevered in, and generally find them attended with the effects of inducing a copious perspiration, that proves in some degree critical. The pains abate in their severity and become more limited affecting only one or more joints. The swelling and redness of the part that was more particularly the seat of the disease will disappear in a great measure - By excessive, or too much bleeding, the degree of debility produced in the system by it, is extreme - difficult to overcome, and frequently lays the foundation of some disease more troublesome, and disagreeable in its nature - cold is the next remedy that claims our attention, it is the auxiliary to bleeding and when used with discretion, and in conjunction with that remedy, facilitates very much the cure of this disease, it may be with propriety considered as an evacuant, as it absorbs that redundancy of heat generated in the system, by the excess of arterial ac-

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-tion which when suffered to remain, tends greatly to aggravate the disease. It is to the immortal Sydenham that we are indebted for this introduction of this valuable into practice. The first use it in fevers of the highest inflammatory grade, as the small-pox &c. and from the uniform success attending it, later Physicians have extended its use, to diseases of milder grade with the same good effects. The forms in which it is generally used, are ice, cold bath, and cold air. The degree of cold ought to be greater increased, as the febrile symptoms become greater. The efficacy of the cold bath in chronic rheumatism, has been long noticed by physicians. We will next proceed to make a few remarks on sudorifics, they have been used in most inflammatory complaints with success, and are by some preferred to the Linct. This operation is more harsh, and their effects more debilitating to the system than that reme-

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remedy; and they frequently fail
in affording relief, in consequence
of which the disease becomes ag-
gravated. It requires extreme cau-
tion in their administration, pa-
tients being more liable to re-
lapsus, from exposure to the atmos-
phere ~~and~~ after their operation, than
from the operation of other reme-
dies. Their effects are rendered more
certain, and less debilitating to the sys-
tem when preceded by phlebotomy.
They are better adapted to the milder
forms of this disease, and may with
safety be resorted to, when compell-
ed by the prejudices of our patients to
pursue more efficacious remedies.

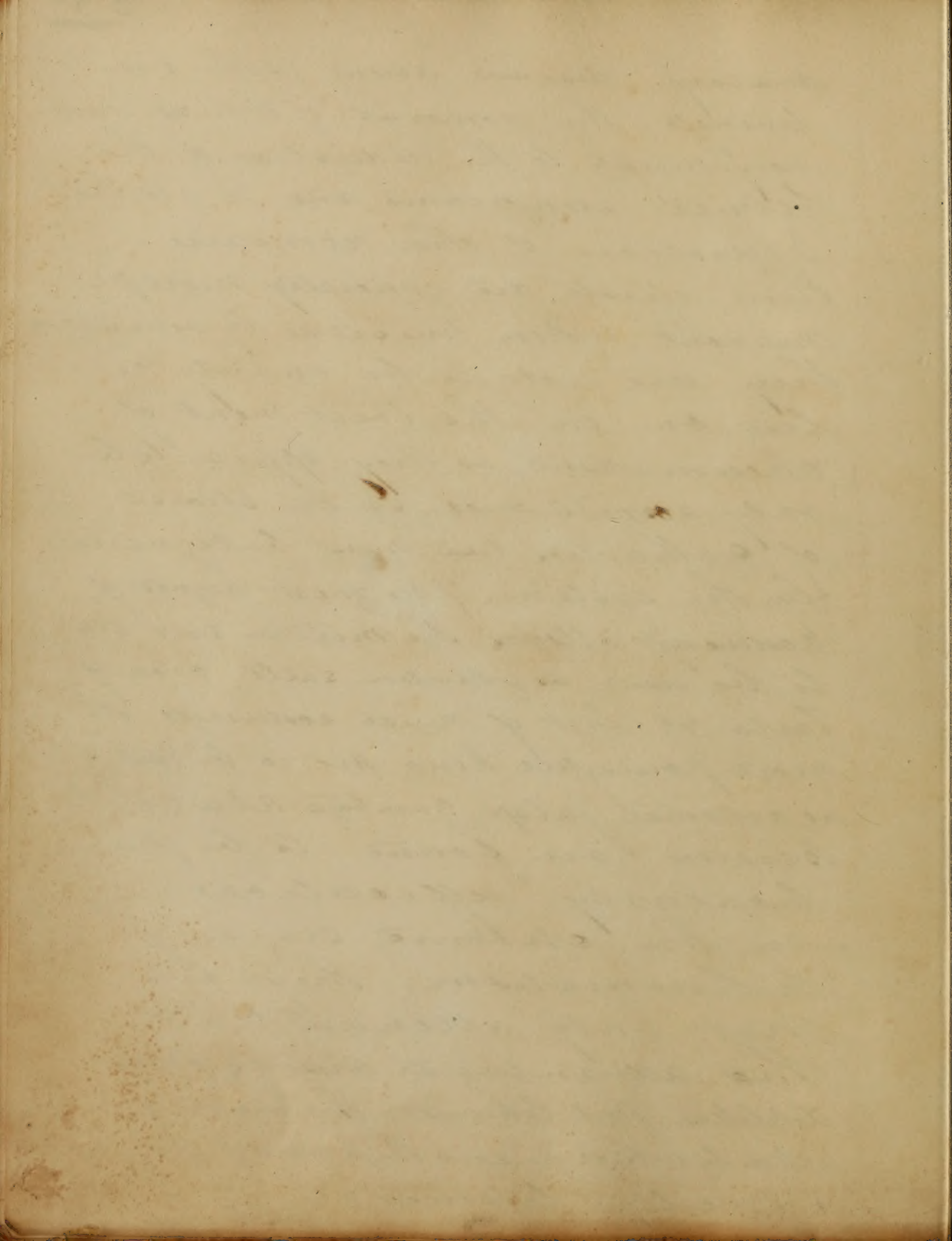
After the disease has continued for a
length of time, the inflammatory
symptoms abate and nature
about to establish a crisis, sudor,
rifies might then be exhibited with
safety, but at no other period
of the disease, when there is much ten-
sion in the pulse, and they indicated
unless bleeding has been promised. ~~Wheat~~

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diluents, are found to answer every purpose of more strong and powerful Diaphoretics, and the less stimulant they are the better. A few drops of Antimonial wine, given at the time of going to bed will often induce perspiration, which should be promoted by the warmth of the bed clothes &c. The Tr. of Guaiac. has been proved by the experience of many, to be a valuable medicine in both the acute and Chronic stages of rheumatism, it not only proves diaphoretic but removes costiveness. The Dulcified Scammonium is much extolled in the cure of this disease. Dover's powder is a remedy much used to promote perspiration, it is likewise given with the view of relieving the pains and of procuring sleep, which it frequently does. The warm bath is also a very effectual means of procuring sweat and relief to the pain. With regard to the exhibition of purges little need be said. They are indicated in all inflam-

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matory diseases attend with costiveness, the removal of which tends very much to the reduction of the febrile symptoms and to aid the operation of other remedies -
These effects are generally more permanent when preceded by venesection they are not to be entirely relied on in the treatment of rheumatism, as they appear to be only auxiliaries. In the choice of cathartics we must be regulated by the system, if no great degree of costiveness attend, the milder sort are to be used as Glauber salts cream of Tartar &c. but if much costiveness, the more powerful kind are to be used as colocine jalap gamboge Rhubarb &c. Blisters are found to be particularly efficacious in the chronic stage of Rheumatism. They are not only attended with the advantage arising from depletion, but likewise that, ^{of receiving external} action by which means the pains of the joints are greatly lessened or,



Pain of Stomach & bowels
Colic on the stomach

An
Inaugural Dissertation
on
Peristitis

Submitted to the consideration of the
Rev. James Kemp D. D. Provost

and of

The regents of the University of Maryland
for the

Degree of Doctor of Physick

By John A. Magruden
of Prince Georges County, Maryland

1825

Mr

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1835

To Gen^l Pearce M. D.

This Essay is dedicated, as a
small tribute of respect
for his superior talents, &c
and for his uniform politeness
to his friends and

J. P.

To the Hon. Secy of the Navy

Washington D.C.

Dear Sir

I have the honor to acknowledge the receipt of your letter of the 10th inst.

in relation to the proposed purchase of the schooner "Albatross" for the service of the Navy.

The Bureau has the honor to inform you that the same has been referred to the Board of Navy Commissioners for their consideration.

Very respectfully,
John C. Mather

Secretary of the Navy

Enclosed for the Board of Navy Commissioners are the papers in relation to the proposed purchase of the schooner "Albatross" for the service of the Navy.

I am, Sir, very respectfully,
Your obedient servant,
John C. Mather

Preface

The laws of the University of Maryland, under whose protecting smiles the author of the succeeding pages, has gone through the prescribed course of study, having rendered it necessary that all who obtain the laurels of her donation, shall first write a dissertation on something connected with his profession, I enter in obedience to this mandate upon the subject with feelings peculiarly novel, and with that diffidence which a young man must always experience, about to be initiated into a profession, contemplating in its extensive vista every science cultivated by civilized man. Those literary pursuits which tend to elevate the mental faculty, and to render the temporary abode of the mortal pilgrim more cheerful, look to medicine as the radiating source from which emanate every beam that gladdens the weary march of life. Medicine is not an insulated

Science dependant upon an abstract study - it is intimately blended with the early impressions of fundamental education and rises to the more sublime and exalted views of philosophy. Like astronomy, it surveys the boundless regions of space - pausing with admiration only at the foot stool of the Almighty. But to the benevolent mind of the philanthropist, medicine claims its tribute of adoration, when it administers its consolations to the palsied powers of life, and restores to the sympathising wife the hand that was wont to cherish her; or, to the mother, the innocent child of her travail; or, to the husband, the partner of his pillow: thus spreading its benefits through the relative ties of affection, to the more limited propinquities of neighbour and friend. What youthful mind could enter upon a subject so contemplative, with boldness; or could expect to throw light upon a literary study, so famed for its antiquity. It cannot be

expected then, that I should give any-
thing new, nor shall I indeed attempt
it

The Author

I return again for your kind - the dis-
ease which I have chosen for the subject
of my inaugural dissertation, is by com-
monly thought of these claps by the
physicians and the crowd the same. It
is not however my intention to enquire whether
myology has been of any benefit to the
disease, but to enquire as auxiliary to the
disease, it is certainly useful; but it
does not seem to be not adequate to
my all the benefits designed by the author.

To describe or inflammation of the
and the subject of my essay is devoted for
the quick brown gas, the stomach.

I shall now proceed to the consideration
of its symptoms which like all other
anginal cases - sometimes complies
there is first, and to find out the treatment

By order of the Board of Directors
of the Bank of the Commonwealth
of Pennsylvania
I have the honor to acknowledge
the receipt of your letter of the
10th inst. in relation to the
above mentioned subject.

The Board of Directors
of the Bank of the Commonwealth
of Pennsylvania
has considered your letter
of the 10th inst. in relation
to the above mentioned subject
and has resolved to grant
you the sum of \$1000
on the condition that you
shall pay to the Bank of the
Commonwealth of Pennsylvania
the sum of \$1000 on or before
the 1st day of January next
and shall also pay to the
Bank of the Commonwealth
of Pennsylvania the sum of
\$1000 on or before the 1st
day of January next.

Essay on Gastritis.

Fortunately for mankind - the disease which I have chosen for the subject of my inaugural dissertation, is less common than any of those clasped by Nosologists under the order of Pleurmasia. It is not here my intention to enquire whether Nosology has been of any benefit to the medical world, - as an auxiliary to the memory it is certainly useful; but at the same time it is not adequate to convey all the benefits designed by its authors.

Gastritis, or inflammation of the stomach, the subject of my essay, is derived from the Greek word, γαστήρ, the stomach...

I shall now proceed to the consideration of its symptoms which like all other diseases are sometimes simple - sometimes complicated. There is first, acute pain in the stomach accompanied

Essay on Persepolis

I return at length for many reasons. The first
is that which I have chosen for the subject
of my present dissertation is the
most interesting and curious of all the
antiquities of the East. It is a
subject upon which I have not
yet seen any of our countrymen
write. It is not only interesting
in itself, but also very useful
to the history of the world, and
the progress of the human mind.
I shall now proceed to the
description of the ruins, which
are situated in the province of
Fars, about 120 miles from
Persepolis, and 150 from
Susa. The ruins are situated
on a plain, and are surrounded
by a wall of brick, which is
now almost entirely ruined.
The wall is 1200 feet long,
and 100 feet high. It is
built of brick, and is
decorated with various
figures and ornaments.
The most remarkable
part of the ruins is the
palace, which is now
entirely ruined. It was
built by Darius the Great,
and was the residence of
the kings of Persia for
many years. The palace
was built on a platform
of brick, and was
surrounded by a wall of
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brick. The palace was
decorated with various
figures and ornaments.

Companied with burning heat. It is not
always confined exactly to the region of
the stomach, but extends as far as the
false ribs, and often shoots to the back.
Sudden and great prostration of strength.
The pain is generally much increased
by receiving anything into the stomach
and always by even the slightest pres-
sure. Extreme anxiety attended with vio-
lent and painful vomiting; frequent
hiccup. The pulse is frequent, small, con-
tracted, more or less hard, and sometimes
intermitting. It has been said, that it
is sometimes rather strong, but this per-
haps is a rare occurrence before bloodletting.
The thirst is urgent, and on receiving a
mild fluid into the stomach the pain
often seems for a few moments to abate.
The fluid however is soon rejected, and the
patient finds any relief obtained by
drinking, deceitful and transitory. The
(bowels)

Bowels are costive, though not obstinately so, unless the inflammation has spread to them; but the constant vomiting often opposes an obstacle to moving them. In acute gastritis, the tongue is often white and in some cases a diarrhoea attends, but the inflammation does not appear to be mitigated by it. -

Of the diagnosis - This disease has sometimes been taken for enteritis. It may be distinguished from it, by the seat of the pain ascertained by pressure, by the peculiar sense of burning heat in the epigastric region; and by the more severe vomiting and hiccup. - It may be distinguished from inflammation of the epigastric muscles by the state of the pulse, The illustrious fuller with his usual accuracy of description, has given us two kinds of inflammation, which attack equally the skin, cellular substance, and viscera. Gallaud

- I allude to the phlegmonous and erysipelatos. There seems to exist some foundation for this distinction; but I am yet to learn its utility; for the same remedies apply to both species. Governed by this impression, it is deemed unnecessary and inexpedient, to say anything farther as respects these divisions.

The termination of the disease in question is either in, Resolution, Suppuration, Gangrene, and sometime by haemorrhage, which is owing to the matter eroding the vessels. It is perhaps proper to say something separately of these terminations.

Of resolution - It is that termination of inflammation, which is cured without the destruction of any of the parts which it occupies, and is to be expected, when after proper treatment, the pulse becomes more soft and full, and the other symptoms (gradually

gradually disappear. It is the only favourable termination of the disease.

If the symptoms are severe, and do not suffer remissions, the period of resolution is generally passed in twenty four hours. In less violent cases, and when considerable remissions take place, it may happen after the disease has lasted for many days -

Of suppuration. - A tendency to suppuration, which is a rare termination of gastritis, is known by the continuation of the symptoms, without any considerable remission, and at the same time with no great degree of violence for one or two weeks longer. When an abscess is formed there is a remission of the pain, generally preceded by rigors. There is also weight about the pectoria attended with much anxiety. This termination is usually fatal, unless the abscess
(opens

is usually the appearance. It is the only
form of the disease. It is the only
of the symptoms as a fever and
suffer sometimes, the fever of
is generally profuse and
hours. It is the only case and
consequently remains a fatal
it may happen after the disease has
lasted for many days.

Of this nature. - A tendency to
suppurate which is a more common
form of disease, is known by the
presence of the symptoms, without any
consequently remains as at the
the more the great degree of
for an or two weeks longer. There
abscess is formed there is a
the pain, generally preceded by
there is also weight about the
abscess with more energy. This
often is usually fatal, only the

opens into the stomach, in which case
the matter may be discharged by vomit-
ing and stool, and the ulcer sometimes
heals -

Of gangrene - When the disease ends in
gangrene, it is known by a cessation of
pain, the pulse at the same time be-
coming more frequent and feeble; the anx-
iety and debility increasing with cold,
clammy, and partial sweats. -

Causes - The causes of gastritis, may
be divided into predisposing, external,
and exciting. The predisposing cause
acts by throwing the viscus into a state
susceptible of disease, anything that
tends to weaken the tone of the stomach
may act as a predisposing cause. The
external causes are blows in the region
of the stomach, contusion, incised or punc-
tured wounds, balls passing through the
stomach. The exciting cause, or that
(which

which brings the disease immediately into action, are poisons taken into the stomach, acid substances, the sudden application of cold to the body in general, to the stomach or the extremities, as in drinking cold liquors when the body is preternaturally warm; this more frequently occasions spasm, which however may terminate in inflammation. Repulsion of eruptions suddenly may act as an exciting cause, the translation of gout and other diseases; indigestible food, and violent passions of the mind may also excite the disease. When Gastritis arises from cold there is as much pain as when it proceeds from other causes. It produces sometimes a thickening of the coats of the stomach; but this more generally is a consequence of over repletion, or long continued use of ardent spirits. -

Treatment - Was a person, unaccustomed to behold the ravages of inflammation, (to approach

to approach the bedside of a patient, labouring under gastritis, and apply his finger to the radial artery, he would pronounce him to be in a fearful state of debility; but let the practitioner beware of drawing so hastily a conclusion. Inflammation produced by any cause, is still inflammation, differing only in degree, requiring for its discursive remedies differing only in the vigor of their application. The first thing to be attended to is early venesection, and the pulse will always rise from the operation, and when it has risen, the practitioner must abstract more blood for its reduction. The blood perhaps, at the first or second bleeding, will remain unchanged in its appearance; but after the full development of the heart's action, it will become sizzly. I know of no better rule for the repetition of the lancet, than the continuance of the pain, and vomiting, for so long as these symptoms exist.

exist - so long is inflammation pre-
sent, which will always require a
reiteration of the remedy. The lancet
is the more valuable, because purgatives
are inadmissible; it is true that Cal-
omel may sometimes be retained. The
European practitioners are in the habit
of using a combination of Calomel and
opium; but this practice is exceed-
ingly hazardous. Opium should not be
employed in any form, except in that
of embrocation; it then acts, by lessening
the sensibility. In the obstinate Constipa-
tion attendant upon gastritis, enemata
are valuable. An unpardonable error
in the treatment of inflammatory diseases
is the early application of a blister; they
should never be employed, before the
free use of the lancet, and until there is
evidence of declining action; for if they
act as stimuli they are surely unadap-
ted to that excited stage of inflammation
(when

when the high action of the heart, threatens the patient, with an extinction of animal life. The warm bath has been recommended; but it should never be employed to the exclusion of the lancet, I believe it to be better suited to the chronic state. When the symptoms continue without abatement, there is an extent of the inflammation involving the peritoneum and bowels; the pulse however is not so frequent, in gastritis proper, as in peritonitis, except in the last stage. The patient to aid the curative indications, may drink freely of warm drinks, (cold ones producing a contraction of the stomach) and if the stomach will retain it, olive oil; this remedy is more advisable in enteritis. What would be the effect of the tartar ointment, as an auxiliary? The lancet then together with enema, constitute the chief curative agents. The rapidity of the disease

prevents the institution of a salivation; which by diverting diseased action might probably be advantageous. In cases not very inflammatory, mercurial frictions are highly beneficial.

Received the enclosed of a letter
from Mr. [unclear] of [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]

An
Inaugural Dissertation
On
Hepatitis
Submitted to the Examination
Of
The Right Rev.^d Bishop Kemp D.D. Provost
And
The Regents and Professors
Of The
University of Maryland
For the Degree
Of
Doctor of Medicine
By
John W. Connor
Of
South Carolina

1825

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To

The Rev.^d Samuel H. Lennings M. D.

As a Testimonial of Respect
This Inaugural Thesis

Is Most Respectfully Inscribed

By
The Author

The
The
As a
This
I
J. M. Miller

Hepatitis

This disease is generally divided into two kinds acute and chronic, the former partaking more of the real and essential character of inflammation, the latter exhibiting symptoms of less violence as to their inflammatory tendency, but an enlargement and hardness of the liver with a less degree of pain. This disease appears to be influenced with respect to the frequency of its occurrence in a great measure by the temperature of different climates, warm and tropical regions are those in which it most generally and extensively prevails. They appear to be peculiarly adapted to

1845

The present is a fine specimen of the
kind and is characterized by the
taking place of the seed in a
manner not to be seen elsewhere, the
in fact upon a piece of paper
there is a distinct line drawn, but
the present is a specimen of the
a full set of papers, this is
the in fact with the paper to
of the present in a fine
the present of the present
and the present in a fine
it will be seen that the
they appear to be the same

the production of hepatic and bilious diseases; as on the other hand cold climates are to the production of typhus and pulmonary complaints; in fact the liver is said to be more frequently affected with inflammation in warm climates than any other part of the body, because of an increased secretion of bile supposed to take place in consequence of the debility produced by heat, by which the blood is thrown on the internal parts when exposed to change of temperature; or because the bile becomes acrid, and thereby excites irritation. This disease may be produced by a great variety of causes, such as sudden changes of temperature, external injuries from contusions. It is also occasionally brought on by violent exercise, by intense summer heats; by long continued intermittent and remittent fevers; by surfeits, high living and an inter-

perate use of vineous and spirituous liquors; by
vicious solid concretions, or any thing that may
obstruct the free passage of the blood through
this organ. Derangement of the digestive
organs; suppressed secretions; inflammations
compression, violent passions and commotions
of the mind, as anger, fear, love, grief, hypo-
chondriasis, hysteria, melancholia, All these
and the like occasionally give rise to ob-
structions and diseases of the liver. This
disease is also frequently produced by hard
study, by sedentary occupations and by
vicious uneasy and unnatural positions
of the body, by which the functions of
the liver are impaired in the freedom
of their operations. I believe this affection
often follows as a consequence of an immod-
erate and excessive use of certain poisons
and narcotics, especially tobacco and opium
and when this is the case I conceive that

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the affection of the liver is generally
or always secondary, the stomach being
the part on which their deleterious
effects are first exerted, and the liver
through the medium of its contiguity
or attachments becomes diseased by sym-
pathy. It is a well established and a gen-
erally admitted fact, that whenever the
functions of the stomach by any agency are
much disordered, the liver becomes implica-
ted in the disease and vice versa. Intermit-
tent and remittent fevers in all probabilit-
ity more frequently produce diseases of the
liver than any other single cause, or perhaps
than all other causes in combination.

This very likely is owing to improper treat-
ment in attempting the cure of these fevers,
perhaps to the use of ill timed remedies in

the commencement. In the cold stage
of these diseases when they attack strong
and plethoric habits, there is such a
determination of the humours from
the external to the internal parts of the
body, and the liver acting in obedience
to the same laws with other organs, con-
sequently receives its full share of the dis-
tention, or perhaps from the number
and capacity of its vessels more than its
due proportion. Therefore it is very obvious
that unless sufficient depletory measures
have been used to unload it of its oppres-
sive burden, its tender and delicate
structure unable to resist such violent
and repeated shocks must be subject to
injury, and thus give rise to inflammation

The acute species of hepatitis commences with a sense of chillings accompanied with pain in the right hypochondrium. sometimes very acute, at other times dull, extending up to the clavicle and shoulder most usually of the right side, which is much increased by pressing upon the part. It is accompanied with a cough, difficulty of breathing, and difficulty of lying on the side affected, together with nausea, sickness of the stomach and vomiting of bilious matter. The intestines are generally inactive and the stools show a deficiency of bilious secretion. The urine is high colored and small in quantity. There is loss of appetite great thirst and costiveness, with a strong hard and frequent pulse; the skin is

hot and dry at the same time, and the tongue covered with a white and sometimes a yellowish fur, and when the disease has continued for many days, the skin and eyes sometimes become tinged of a yellow colour, particularly when the disease is produced by calculi obstructing the biliary ducts.

Writers have made a distinction between the symptoms that occur when the inflammation occupies the convex surface of the liver, and those that are present when the disease affects the concave. As a large portion of the concave surface of the liver lies contiguous to the stomach, it must of course hinder the delivitation of this receptacle of our nourishment, whenever it is very much enlarged or swelled by inflammation.

as on the other hand the liver itself will be compressed by the stomach, when distended with food, so as to occasion ~~an~~ increase of all the symptoms. The same holds true also of the diaphragm which lies contiguous to the convex part of the liver. Hence follow a loss of appetite, sickness of the stomach, and vomiting, whenever the inflammation lies in the hollow part of the liver next the stomach, but if the inflammation be in the convex surface of the liver, then there will be greater pain and difficulty of breathing accompanied with cough.

The pale ribs likewise are sometimes thrust out into a swelling, become painful and are by the inflammatory tenderness of the liver urged into a protuberance comparable to that of the liver itself.

But all these symptoms and appearances or present only when the whole body of the liver or at least when the greatest part of it is possessed by the inflammation; for a small or slight phlegmon of this large gland will not be attended by so many symptoms, because they principally ^{arise} from the actions of circumjacent parts, which are impeded by the swelled liver. For numerous observations prove that the liver in its own substance is not susceptible of any pain that is very acute; because abscesses have been found in the livers of persons after death, when they have not before complained of any pain about the affected part during the whole course of their malady, in which they have felt only a sense of heaviness, or an oppressive weight.

It is asserted by some writers that acute hepatitis is always an affection of the external membrane of the liver, while the chronic kind has its seat in the parenchymatic substance.

The chronic species is usually accompanied with a sallow complexion, loss of appetite and flesh, costiveness, indigestion, flatulency, pains in the stomach, a yellow tinge of the skin and eyes, clay coloured stools, high coloured urine depositing a red sediment, an obtuse pain in the region of the liver extending to the shoulders & together with a sense of weight; an usual fullness and some enlargement and hardness of the liver, and often with a slight difficulty of breathing. The pulse is generally small quick and frequent.

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

These are the most common pathognomonic symptoms, but occasionally it is attended by a great many others, sometimes by a very troublesome and distressing diarrhea, and at other times by diarrhea and costiveness alternately for a long time. Frequently there is pain in the back part of the head and neck, an aching pain or soreness in the middle of the arms and legs as if they had been injured by some external violence, a sensation of numbness in the joints of the hips and knees, twitching of the tendons and fluttering sensations in various parts of the body. This disease is likewise accompanied with great drowsiness the patient almost suddenly falls into a sound sleep. The appetite in this disease is frequently but little interrupted, some times it is very much increased, so that the patient finds it difficult to satiate his hunger, and the food

taken in adds nothing to his stock of strength and vigour. The right side has generally been described to be the part in which the pain is seated in hepatitis, and this as a general rule holds good but it is subject to many exceptions, as for instance when the left lobe is affected the pain will be felt mostly in the left side, and when the middle lobe the pain will be seated in the posterior part of the chest and back, sometimes it is confined almost exclusively to the left side.

Hepatitis may end in resolution, suppuration, schirrus and sometimes though rarely in gangrene. It is sometimes carried off by haemorrhage from the nose or hemorrhoidal vessels, by sweating, by a diarrhoea and by an evacuation of urine depositing a copious sediment. It has sometimes ceased on the appearance of erisipelas and cutaneous eruptions.

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on the external surface. A diminution of pain, weight
in the organ, increase of the evening prostration of power,
flushing, of the countenance, propensity to night
sweats and other hectic symptoms, indicate that
suppuration has taken place. Continual hiccup,
cold extremities and a sinking pulse indicate the
presence of gangrene.

When this disease is accompanied by much infla-
mation and fever, bloodletting should be used
and active cathartics administered such as calomel
Galap and neutral salts; after these warm pome-
ntations to the part; the warm bath may be useful
in very severe cases, also the application of leeches and
cupping. Should the symptoms not abate by these
means a large blister may be applied over the region
of the liver. In acute hepatitis the whole of the
antiphlogistic plan must be employed. Should
all these means prove ineffectual mercurial frictions

must be used over the part and mercury exhibi-
ted internally until salivation is induced.
In chronic hepatitis salivation is the principal
remedy. Nitric acid may be given with great
benefit in some cases; it is said to be especially
applicabile in scorbutic and very debilitated
patients, on account of its antiscorbutic and
tonic powers; it may be given to the extent of
one or two drachms daily. This medicine like
calomel, must be given until the mouth be-
comes affected, the salivary glands enlarged, and
their secretion increased. As this is a chronic
disease we must make use of the chronic treat-
ment if I might be allowed the expression
Tonics, chalybeate waters and warm clothing
continued for a long time according to their
effects would doubtless prove very beneficial.

John W Connor

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A
Dissertation
on
Dysentery

Being an Inaugural Thesis
Prepared in conformity to the
Charter of the

University of Maryland

By

Henry Huber Jr.

of Frederick County

Maryland

1825

10
Dissertation
of
Dissertation

Being an English Dissertation
on the
Character of the

Character of the

of the
of the

1802

To
John B Davidge A.M. M.D
Professor of Anatomy in the University of
Maryland.

Sir,
As a feeble testimony of respect for your
talents as a public teacher in an uni-
versity which is justly esteemed
an honour and ornament
to my native state, of ven-
eration for your exalted
character as a private
citizen and of gratitude
for the attention you
have been pleased to
bestow upon me, this
my first literary
essay is most
respectfully
dedicated,

by your very hum-
ble and much obliged
servant.

The Author.
L

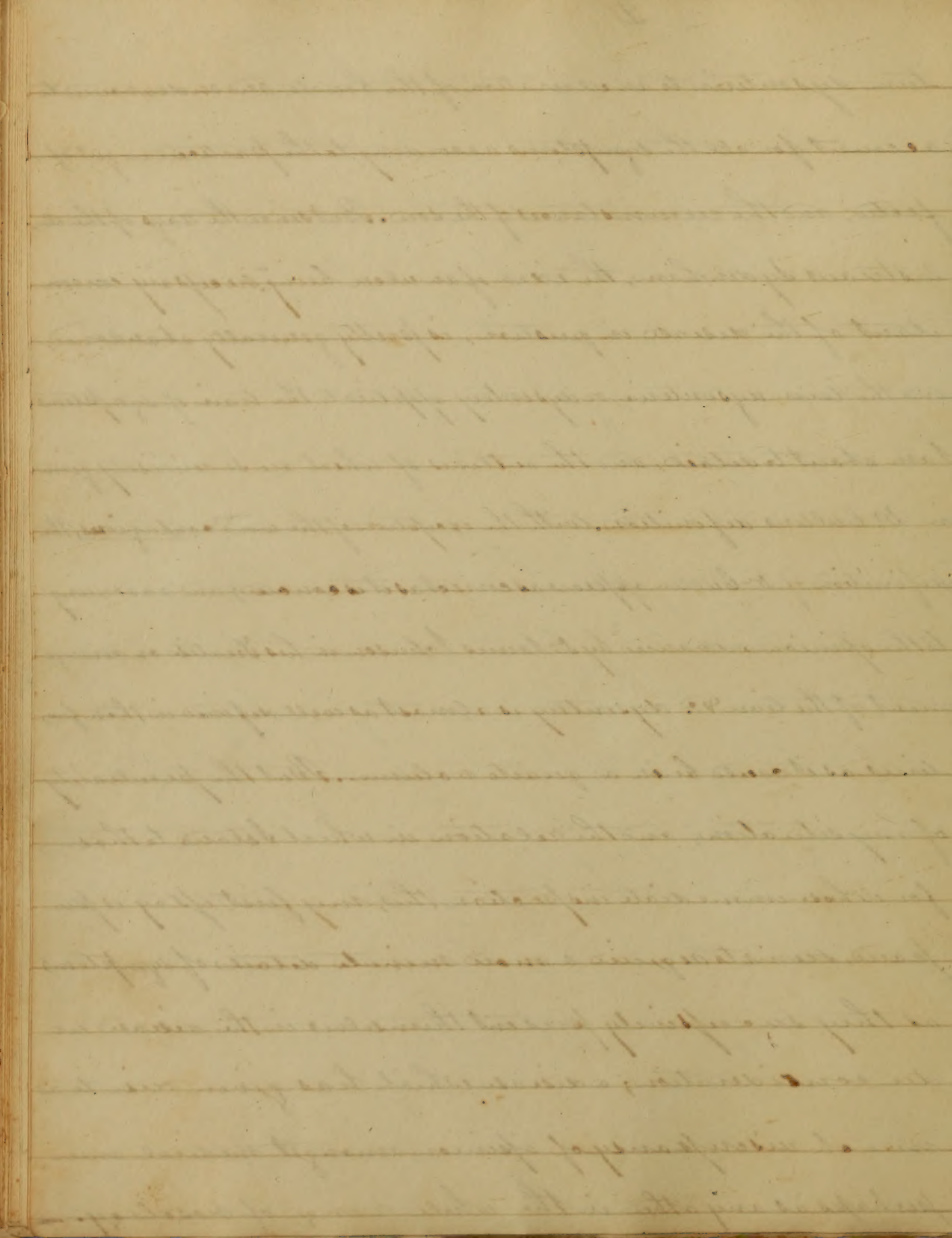
On the Dysentery

The disease which I have selected as the subject of my dissertation on the present occasion, is placed, according to Dr Cullen's nosological arrangement of diseases, in the class pyrexia, and order profluvia, and is defined by that distinguished physician, "a contagious fever, in which the patient has frequent mucous or bloody stools, accompanied by much griping, and followed by a tenesmus; the alvine faeces being for the most part retained." By the ancients, and particularly by Hippocrates, the term dysenteria or dysentery was used to signify, not only all the ulcerations, but all hemorrhages of the intestines, as well as every kind of flux, with or without. Conscious of the inconvenience attending this indefinite application of the term, some of the subsequent Greek writers restricted its meaning to an ulceration of the intestines, attended with gripes and tenesmus, and with mucous and bloody stools. This constituted the Formica of Celsus. Others applied the

11/11/11

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term dysenteria to an ulceration of the bowels, and endeavoured to account for all the symptoms according to the particular gut affected, and the circumstances of the sore. But since the days of the illustrious Sydenham, the idea of an ulcer being necessary concomitant of the disease in question, is pretty generally abandoned, and the term dysenteria, or dysentery applied to the train of symptoms I am about to detail, and the outlines of which are so concisely given in Dr Cullen's definition. With the exception of the word contagious, the definition of Dr Cullen appears as correct as it is concise; and according to the opinion advanced by Dr James Johnson in his Treatise on arrangement of the liver &c. dysentery is almost as well defined in those few lines as it could be in a quarto volume. But the peculiarity of my situation, and the relation in which I stand to those for whose immediate inspection this, my first essay is prepared, seems to require a more minute detail of symptoms as they successively present themselves in the disease under consideration; a disease which has given rise to as much discrepancy of opinion amongst medical men perhaps as any other in the whole range of nosology.



The dysentery, like other diseases of the class pyrexias, is generally preceded by some degree of languor, lassitude, nausea, anorexia, and is commonly ushered in by a chill or rigour, which is soon succeeded by a fever, as is indicated by increased force and frequency of the pulse, parched tongue, thirst, hot and dry skin, and not unfrequently some degree of pain in the head. To these symptoms, flatulence and griping pains in the ~~contents~~ intestines, constipation and a frequent desire to discharge the contents of the intestines soon succeed. By indulging the inclination to go to stool nothing is voided but a little mucous more or less tinged with blood, though the effort is attended with considerable straining and tenesmus. In many cases however, a diarrhoea is the first symptom of the disease, to which mucous, or mucous and bloody stools with tenesmus and fever succeed in a few days. When the disease is thus established, the inclination to go to stool becomes more urgent, the griping more excruciating, and the tenesmus more severe, inasmuch that the patient has

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but little respite. The matter voided varies considerably in different subjects, and in the same subject, at different stages of the disease. In some it will resemble mucus unmixed with blood, constituting the morbis mucosus of Dr. Boederer, and the dysenteria alba, of others. But more generally the mucus will be tinged or streaked with blood, less in the early stage, and more as the disease approaches its height. Sir John Pringle informs us that a watery fluid is ^{frequently} mixed with the blood and mucus; and sometimes a matter resembling blood alone constitutes nearly the whole of the substance discharged. In some severe cases, when the inflammatory action does not receive a timely check, ulceration and abrasion of the villous coat of the large intestine take place, and then, in addition to blood and mucus, pus and membranous films are voided. Lumps apparently sebaceous have also been observed in the matter voided by dysenteric patients, to which the term Corpora pinguis has been applied. These lumps have been considered as really sebaceous;

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but Sir John Pungli and Dr. Huxto examined one at their leisure, and found that the subject of their research was nothing but a lump of Cheese, though the patient afterwards informed them that he had not eaten any since the commencement of his disease, which had been of a fortnight's standing. Whether this lump of cheese had been formed by a collection of smaller particles which had passed undigested from the stomach to the colon before the patient was taken ill, or whether it had been since formed of milk which the patient had taken during the disease, those illustrious physicians could not determine, but they felt convinced that in whatever manner it had been formed, it was of the same nature with all the corpore pinguis that they had observed in the disease.

After the tenesmus takes place fecal matter is rarely discharged except by the aid of medicine. When feces do appear, unsolicited by art, they are usually found in con- and hardened balls termed scybalæ. When these scybalæ are discharged, or when copious discharges are produced by

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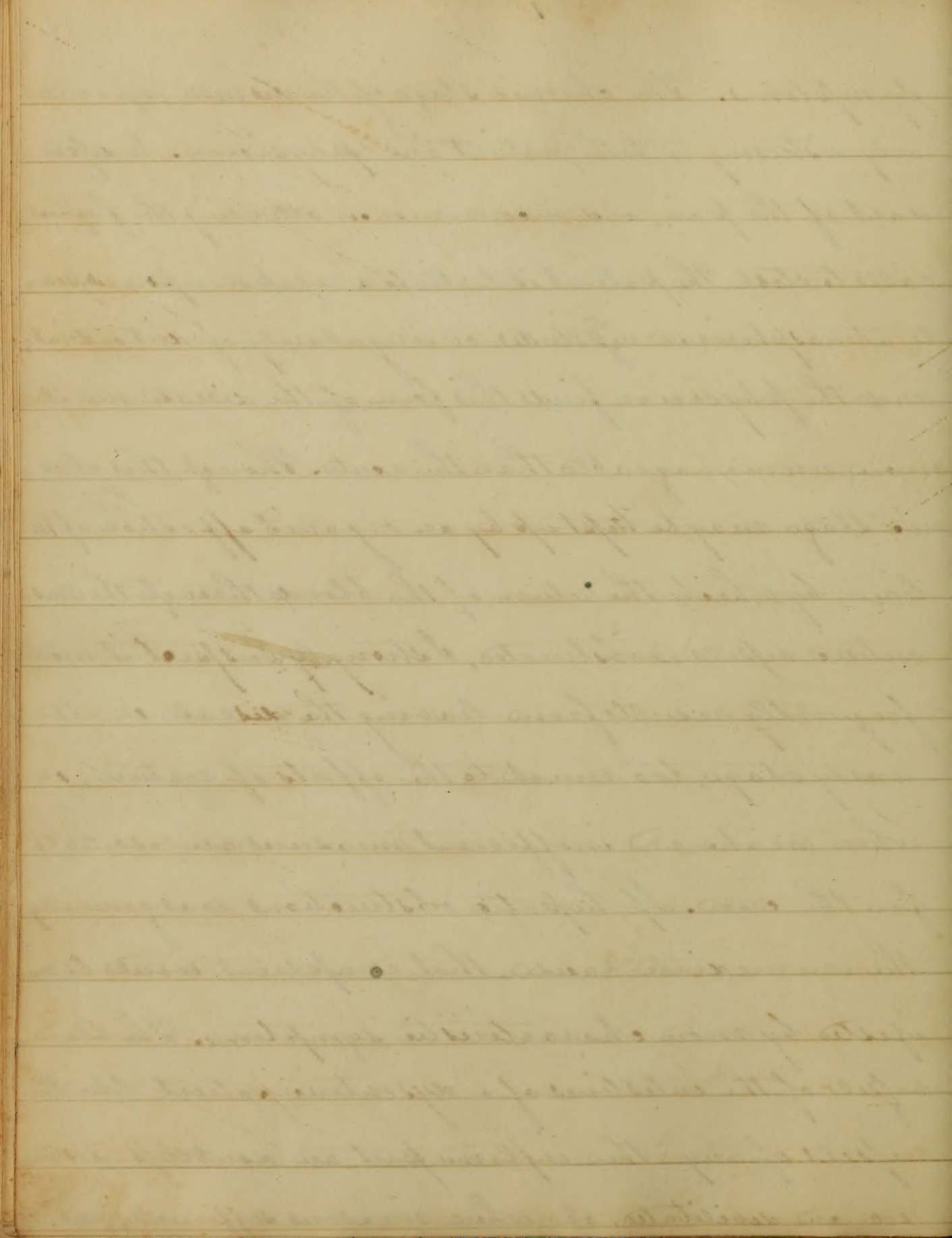
the aid of medicine, a considerable alleviation of the symptoms, and particularly of the griping and tenesmus takes place. In severe and protracted cases a prolapse ani sometimes occurs; and a stranguy, from inflammation of the neck of the bladder, has been mentioned as a symptom which sometimes accompanies the disease dysentery. —

The fever which accompanies dysentery is generally of the remittent cast, more rarely of the intermittent; and when great numbers of sick are crowded together, as in camps, jails, hospitals, or ships, the fever assumes the continued or typhus character. The fever frequently runs high requiring the prompt and energetic use of the most powerful antiphlogistic measures, and it generally continues with more or less violence throughout the whole course of the disease. In some cases however, the fever apparently ceases entirely, while some degree of griping & tenesmus, with mucous and bloody discharges continue, constituting the chronic stage of the disease; and sometimes a diarrhoea, and even a lenty, succeed the dysenteric

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symptoms. The chronic stage of the disease, is peculiarly distressing to both patient and physician. Independent of the pain and inconvenience attending the frequent calls to stool, the patient is liable to a relapse upon exposure to atmospheric vicissitudes or irregularity of diet or drink; and the physician finds this form of the disease much more unmanageable than the acute. Though this chronic stage may be kept up by an organic affection of the liver, by which the return of the blood through the mesenteric vessels is obstructed, I strongly suspect it more frequently results from leaving the disease in its early stage, too much to the efforts of nature, or when weak and inefficient measures are resorted to for the cure. If hepatic obstruction was generally the immediate cause, that complaint would be manifested by more characteristic symptoms. The blood-vessels of the intestines of a dysenteric patient, like the vessels of any other inflamed part, are doubtless distended and debilitated, and when measures sufficiently ener-



getic to relieve them of the oppression they suffer from a surcharge of blood are not resorted to, if gangren does not supervene, they become habituated, as it were, to their state of distension and morbid secretion; and the longer they are suffered to continue in this state, the greater will be the difficulty to restore their lost tone and healthy functions. — In connection with the above symptoms, it may be observed from the very commencement of the disease, that the functions of the skin and liver are very materially deranged. The perspiration is either partial or suppressed; and I think it may be set down as a general rule that the bile is deficient in quantity or vitiated in quality. Sir John Pringle says, "I have never known dysentery epidemic, unless in summer or in autumn when the bile is most liable to be vitiated; nor have I seen any number ill of it, without hearing several complain of sickness at the stomach and vomiting of gall." Though the bile may, in some few cases, be increased in quantity, I do not consider the "vomiting of gall," as

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demonstrative evidence of that circumstance, particularly in a dysenteric patient. The passage of the bile through the intestines is frequently, indeed, in the generality of cases, obstructed for several days in succession; hence a portion of what is formed and poured into the duodenum, may readily find its way into the stomach which is already in an irritable state, and be thrown up by vomiting.

The contraction of the abdominal muscles during the act of vomiting may also force an increased quantity from the duodenum through the pylorus; and hence, although the quantity is less than in health, the circumstance of its being thrown up from the stomach might lead to the supposition that the secretion was increased. But this is anticipating what more properly belongs to another part of this dissertation.

The dysentery is sometimes complicated with other affections, particularly with organic affections of the liver and their consequences. Dr. Staley attended a Mr. Prosser in March 1824, who in addition to an in-

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largement of the liver, haem dysentery, anasarca and ascites; but as I purpose to treat of dysentery alone, I shall not take its complications into consideration.

There are other symptoms, not pathognomonic of dysentery which generally occur towards its fatal termination, but these will be mentioned in the few remarks which I shall offer relative to the

Prognosis. —

In speaking of the prognosis, it may be remarked that, all the circumstances being alike, the dysentery is much more fatal in jails, ships, camps &c. where great numbers of sick are crowded together, than when the disease prevails epidemically over an extensive tract of country, and when no more than the members of a single family are confined to the same house. — This circumstance may be accounted for without supposing the disease to be contagious propagated by a specific contagion, as I will endeavour to demonstrate hereafter. —

Paper No. 1

It may be considered a sign of a bad case when the febrile symptoms are not sensibly mitigated by the first copious bleeding and the operation of an emetic; when the stomach continues irritable, attended with frequent retchings; when the pulse sinks or intermits; when the countenance alters much, and when hiccup is present, and when the patient is restless without complaining of much pain. Notwithstanding several of these unfavourable symptoms present themselves in the same individual, the patient may, by proper attention recover. But if, in addition to great prostration of strength, with a feeble, irregular or intermitting pulse, and cessation of pain hiccup occurs, gangrene may be suspected; and if, in the advanced stage of the disease, aphthae, petechiae, or copper coloured blotches on the surface present themselves, attended with anxiety and restlessness without pain, with grinding of the teeth, Hippocratic countenance, or copious liquid and involuntary stools, death soon closes the scene.

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A favourable termination may be anticipated when the fever abates under the curative plan, without being followed with any of the above mentioned unfavourable symptoms, and when the stomach is not very irritable, notwithstanding the griping and tenesmus ~~dis~~ severe, and the bloody discharges considerable. When copious fecal defections are produced, or when pyralism in the early stage of the disease, takes place, the patient may be considered out of danger. —

Unlike the measles, smallpox &c, the dysentery has no definite period of duration; nor am I aware that critical days have any controul over this truly painful, offensive, and distressing malady. In different subjects, and under different collateral circumstances, the disease varies greatly as to its duration. Where the inflammatory symptoms run high, it may terminate fatally in five or six days, or even in a shorter period; and where prompt and energetic measures are resorted to, it may be cured in a similar length of time. But it generally continues

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uses a much longer period: as a medium I would say from twelve to twenty days. Where some degree of griping and tenesmus continues, after the symptoms of general excitement have been subdued, the disease sometimes continues for months, or even, in some cases for years together.

Appearances on Dissections.

Upon opening the bowels of those who die of dysentery, the marks of intestinal inflammation and its consequences are sufficiently conspicuous, particularly in the colon and rectum. In the invaluable work on Typhus fever by Dr. John Armstrong, is the following remark: "The inflammation which is so liable to accompany dysentery is either of the subacute or the acute kind as in Typhus, and agreeably to my researches it is seated, for the most part, chiefly in the villous coat of the intestines, and in the liver." Inflammation of the liver however, does not appear to be a necessary concomitant of dysentery, as we learn from the acute observations of Sir John Pringle, though the liver or spleen is, not unfrequently found en-

larged. — Though the villous coat of the intestines, appear to suffer most extensively from inflammation and its consequences, and may probably be the principal seat of inflammation in the milder cases of dysentery, yet in those violent and obstinate cases which consign the ~~cases~~ patients to the hands of the investigators of morbid anatomy, the other coats appear from being exempt, as the following extract from the details of one of Sir John Pringle's cases will show. The rectum was most perforated and from thence the gangrene seemed to have spread itself to the colon, which was mortified, and chiefly at its lower end. The villous coat was partly consumed, and what remained was blackish, tender, and easily to be separated.

The vascular coat had the appearance of a preparation well infected with red wax. The ligaments which contract the colon and form the cells, were half corrupted and adhered loosely to the outer coat. Part of the cecum was also mortified; the rest, as well as the smaller intestines, were of a firm texture, but of an inflamed colour; and both

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them and the stomach were full of air!"—

The bladder, peritoneum, liver, and spleen are all liable to suffer from an extension of the inflammation. The gall bladder has been found enlarged and filled with vitiated bile; and the texture of the kidneys is sometimes altered and their pelvis enlarged. Ulceration and abrasion of the villous coat of the intestines are also to be met with in some cases; but when the disease proves fatal, gangrene of the rectum and colon will be found on dissection in the majority of cases.

The blood discharged does not appear to proceed from ruptured bloodvessels, but according to Sir John Pringle, it appears to have oozed through a number of fine pores into the cavity of intestines. Dr. James Johnson seems to think "if the plethora be great, blood itself will be poured from the mouths of the distended mesenteric vessels!"—Here the question seems to arise—Have not those deservedly illustrious physicians, as well as their preceptors and contemporaries mistaken the real character of the matter voided

There are the three main parts of the...

The three main parts of the... to suffer from an... of the... The three main parts of the... to suffer from an... of the... The three main parts of the... to suffer from an... of the...

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The three main parts of the... to suffer from an... of the...

by a dysenteric patient? That portion of the dejections which
 resembles blood, has been spoken of as though it was really
 such, and the opinion handed down from one ^{author} to another
 without that strict examination which the true interest
 of medical science requires. That this red matter does
 not consist of blood, appears extremely probable; and
 whether my opinion on this subject be well founded
 or otherwise, I beg leave to state the data of which it is
 predicated. In some cases of dysentery nothing is
 voided but an apparently mucous substance, evi-
 dently the result of a secretory process; and as it is by
 no means certain that the apparently bloody matter pro-
 ceeds from a distinct set of vessels, there is some reason
 to believe that it is the result of a similar process. The
 blood (as it is termed) and mucous are so intimately blend-
 ed as to preclude the idea of their having been separately
 formed and subsequently mixed in the cavity of the in-
 testines, particularly when we reflect that the frequent
 calls to stool cause their expulsion almost as soon

as they escape from the vessels whence they issue. If this
 red matter consisted of blood, it would seem to follow
 that it must possess the properties of that fluid; but
 I think it extremely doubtful whether this supposed
 blood either coagulates spontaneously, or exhibits a
 separation of serum. On this subject the authors I have
 consulted are not sufficiently explicit; but in the descrip-
 tions from a number of dysenteric patients that I
 have had a personal opportunity of examining, I have
 never seen a coagulation of blood, or a separation of
 serum; nor am I aware that the more extensive expe-
 rience of others has rendered them more fortunate than
 myself in this respect. It is true, Sir John Pringle, in
 detailing the post mortem appearances of one of his
 patients, speaks of a coagulum of blood. But the sen-
 tence is too vague to justify the conclusion that the sub-
 stance to which he applied the term consisted of co-
 agulated blood. His words are these: "Upon opening
 them" (the rectum and colon) "we found the coats thick

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ened, the inside as black as the coagulum of blood, and the whole surface more or less covered with a dark coloured bloody slime." It is now than probable that this dark coloured bloody slime constituted the coagulum to which Sir John Pringle alluded, for he immediately adds, the blood was no when collected in any quantity, but appears to have oozed through a number of fine pores &c. - Sir John Pringle, like the illustrious Morgagni, endeavoured to account for this discharge of blood upon the supposition that it was the result of hemorrhage from the minute arteries of the part, and Dr. James Johnson seems to entertain similar views on the subject when he says, if the plethora be great, blood itself will be poured out from the mesenteric vessels. But if subsequent observations should corroborate the opinion that the red matter which has been supposed to be blood does not possess the characteristic properties of that fluid, it will appear more rational to conclude that it is, equally with the mucous, the result of a morbid

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secretion. I am acquainted with no data sufficient to invalidate the opinion that the red and white matters are simultaneously produced by the same vessels, though it has been supposed that if the blood appeared in streaks it proceeded from vessels low down in the rectum, but if intimately mixed with the mucous, it proceeded from a higher source.

Causes of Dysentery

The dysentery has been generally classed with the autumnal and bilious remitting and intermitting fevers, and evidently depends upon the same remote and predisposing causes. This is rendered sufficiently manifest by the fact that bilious fever and dysentery prevail at the same time and at the same place, the predominance being, in general determined by the uniformity or variation in the temperature of the atmosphere. Thus, marsh effluvia or a long continued high range of atmospherical temperature will produce bilious remitting or intermitting fever; but frequent intermissions from heat to cold, or a sudden diminution of ^{atmospherical} temperature will

give dysentery the predominance. Dr. Hillary, (who practiced medicine in Barbadoes, a West India island in the 13th degree of North latitude, and who made very minute observations in the diseases which prevailed on the island, and the state of the weather,) informs us that very warm and dry weather rendered the cases of yellow fever more numerous; but when the perspiration was suddenly checked by cool and wet weather succeeding hot and dry, dysenteries became prevalent.

In another place the same acute observer says "I have always found from the best observations I could make on the variations of the air and weather in this island, that if the months of May, June, July, and August were very hot and dry, and the following months of September, October, and November were accompanied with much rain, so that the air was rendered cool, moist, and damp, and if the intermediate days were very hot, I always observed that dysenteries were very frequent and epidemical, and generally were more or less malignant, as the above mentioned changes were greater or less, more sudden or more gradual,

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and of shorter or longer duration." Sir John Perring, who also made his observations on the persons of the sick, says "the heat and moisture of the air appear to be no less the chief remote and external cause of the dysentery, than of the autumnal remitting and intermitting fevers." Dr. Blagden, in his treatise on the diseases of Minorca, says "sometimes a tertian is changed into a dysentery, or dysentery becomes a tertian." The identity of the causes which produce dysentery and the bilious remitting and intermitting fevers is also strongly supported by a series of facts detailed by Dr. Buel, in the 1st volume of the New York Medical Repository. Dr. Buel made his observations in the town of Sheffield in the state of Massachusetts, where dysentery and bilious fever prevailed epidemically and simultaneously. This writer informs us that in June (1796) excessive quantities of rain fell, causing considerable inundations, upon the subsiding of which, considerable quantities of decaying vegetable matter was exposed to the sun; and before the 20th of July the dysentery made its appearance; but the month of Au-

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gest was intensely hot and dry, during which time instances of bilious or marsh fever frequently occurred, "so that it was apparent that both disorders were endemic (epidemic)

Dr. James Clark says "the dysentery generally prevails at the same time that the remitting and intermitting fevers do, in the West Indies," and probably from the same cause;" and Dr. Scott's informs us that on the coast of Africa and in the West Indies, "dysentery is joined with intermitting and remitting fevers." Dr. James Johnson, who observed the disease in its most aggravated state, in the East Indies, says "the most accurate observers are sufficiently agreed in attributing it (dysentery) to atmospherical impressions operating through the medium of the skin; or, in other words, to *variae vicissitudines*:"

The observations of these authors, and the facts detailed by them, appear sufficient to establish the position that dysentery does not arise from any specific contagion.

Indeed the facts ~~also~~ detailed by Sir John Pringle alone would seem quite sufficient to establish this point, though

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that deservedly eminent physician could not, on this subject, subdue the prejudices and errors derived from his predecessors. In his observations on diseases of the army, part 1 - Chapter 3 - he says, "on the 26th (of June) in the evening, the tents were struck, the army marched all night, and next morning fought at Dettingen. On the night following, the men lay on the field of battle, without tents, exposed to a heavy rain. Next day they marched to Harar, where they encamped in an open field, and on good ground, but it was then wet, and for the first two nights they wanted straw. By these accidents a sudden change was made in the health of the army. For the summer had begun early, and the weather had been constantly hot; but the free and uninterrupted perspiration had as yet prevented any general sickness. Now the pores were suddenly stopped, and the humors tending to putrefaction were turned upon the bowels, and produced a dysentery which continued a considerable part of the season, In the space of eight days after the battle 500 were sick

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with that distemper; and in a few weeks, nearly half the men were either ill or had recovered from it." Dr Hillary also, although he could not entirely divest himself of the belief that the dysentery was contagious, seems to have been nearly emancipated from the thralldom of that error when he penned the following sentence: "As we have dysenteries constantly returning every year in the West India islands, with those rains of that time of the year, which are always epidemical, though not always equally epidemical malignant, no more than the seasons are always equally alike; may we not justly conclude, that the dysentery is most commonly thus produced from these causes, especially as these causes, are sufficient to produce it?" The circumstance of the dysentery returning annually with certain states of the weather, is sufficient of itself to prove that it does not arise from contagion; and there is another circumstance equally in point. The disease frequently attacks great numbers about the same time,

and even a considerable distance from each other, when no kind of communication had taken place. Authors are sufficiently clear on this subject; and I can bear testimony to the fact from personal observation.

If the position be correct, (and facts leave no doubt upon the subject,) that dysentery and bilious fever in its various forms, arise from the same remote cause, I think, with Dr. Bancroft, that it is absolutely incredible that marsh effluvia should produce contagion, when they disorder the bowels, and not produce it when they occasion intermittent and remittent fevers."

That persons who go from a comparatively pure air to an inquinated atmosphere, where persons are labouring under dysentery, may be attacked with the disease, is a fact which I feel no disposition to controvert; but this is no evidence of contagion, otherwise our autumnal remitting and intermitting fevers must certainly be contagious. An inquinated atmosphere may produce dysentery, when there is not a case within a thousand miles,

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and when, of course, contagion is out of the question. — It has been contended, however, and particularly by Sir John Pringle & Dr. Hillary, that although dysentery may arise from other causes, it assumes in its progress, the contagious character. There do not appear to be facts sufficient to support this hypothesis; and besides it is contrary to the laws which govern other diseases and the principle of distinct species of disease, upon which nosological arrangements are founded. Dr. Armstrong, in his invaluable work on Typhus fever, page 266, says "All the observations which I have been able to make incline me to believe that a fever is not never contagious except it originated from a specific cause; and hence I am inclined to doubt the commonly received opinion, that diseases proceeding from an ordinary cause may become contagious in their course." The American editor, in commenting on the above passage from Dr. Armstrong, uses this emphatic language: "The correctness of this opinion will be

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controverted by no sound pathologist. If there is any fixed law in physic, it is that which is founded upon the immutability of remote causes. No disease has yet been discovered which has assumed at any period of its existance; any of the attributes of contagion. If it be derived from a specific vitiated secretion, it is contagious as well in its nascent as in its mature state; and unless the cause when it originated were a contagion, it can never become so. It is the remote cause that stamps the character upon the disease, and unless contagion gives it the specific impression, we might as well rationally expect tares when we sow wheat, as to find contagion generated under any progressive change." If any disease arising from marsh effluvia could, in its progress become contagious, the yellow fever, from its malignancy, I presume would be as much prone to such a change as any other; and it is now pretty generally admitted that this disease is never propagated by specific contagion.

The foregoing considerations induce me to believe there

is no exaggeration in the following remarks from Dr. Mosely, on ~~the~~ Tropical climates. "As to contagion from infection in dysentery, I must confess I never saw an instance of it; neither do I believe there is any such thing."

That marsh effluvia, or the product of decaying vegetable matter acted upon by heat and moisture, have considerable influence in the production of dysentery, is sufficiently manifest from the extracts already offered from respectable authors, and particularly from Dr. Buol's observations; but I am not prepared to admit that this agent acts as the sole remote cause, or that its presence is absolutely necessary to the production of the disease in question or the milder forms of bilious fever. Marsh effluvia cannot be supposed to have had much agency in producing the dysentery in the army that was encamped "in an open field and on good ground" at Hanan; and Dr. Mosely says "it has often happened that hundreds of men in camp have been

seized with dysentery, almost at the same time, after one shower of rain, or from lying one night in the wet and cold." Dr. Hillary attributes dysentery to great atmospheric vicissitudes, viz. to cold and wet weather succeeding hot and dry; and as dysentery is a pretty regular attendant on the rainy seasons in the West Indies, and its violence determined by the degree of variation in the weather, marsh effluvia cannot be considered as the sole remote or predisposing cause.

Dr. Bancroft thinks that the dysentery produced by atmospheric vicissitudes "is not exactly like that which principally results from marsh effluvia; that it has a greater similitude to diarrhoea, and if accompanied with fever, that this is nearly related to that of catarrhs." That there may be a difference in grade, in proportion to the intensity of the remote cause, is quite probable; and believing, as I do, that heat alone will predispose the system to an attack of dysentery, I can readily conceive that, (all other circumstances being alike,) where

heat and marsh effluvia are conjoined, the disease may be more violent in grade than when it results from the influence of heat alone. If, as Dr. Bancroft intimates, there is a specific difference in the dysentery produced by marsh effluvia, and that which results from a sudden diminution of atmospheric temperature, it would seem to follow to follow that marsh effluvia exert some direct or specific influence upon the system. This indeed appears to be the opinion of Dr. Bancroft when he says (on yellow fever &c, page 352) "The causes which determine the morbid influence of marsh effluvia towards the intestines, so as to excite the disease in question, rather than intermitting and remitting fevers, do not seem to be well understood." The difficulty on this subject arises from our imperfect knowledge of the modus operandi of marsh effluvia when applied to the human system. The correctness of the opinion that marsh effluvia exert a direct or specific influence upon the system, I believe was first called in question by Dr. Sta-

The first part of the paper is a description of the
 various species of plants which are found in the
 country. It is a very interesting and valuable
 work, and one which every naturalist should
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 possess.

ley in an essay on bilious fever, published in the 5th volume of the American Medical Recorder. Dr. Staley endeavours to sustain the opinion that marsh effluvia exert no direct or specific influence upon the system; but supposes their effects to depend entirely upon the exclusion of a part of the accustomed portion of atmospheric air from the lungs. A high range of atmospheric temperature he supposes to act in precisely the same way, and consequently that there is no specific difference in the diseases produced by solar heat, or a rarefied state of the atmosphere alone, or by that and marsh effluvia conjointly. — Having adopted the opinions of Dr. Staley on this subject, I will endeavour to illustrate the correctness of the position as clearly and concisely as possible —

That a high range of atmospheric temperature produces a very considerable effect on the human system is proved by the fact that in warm latitudes, and during the warm seasons of temperate climates the bilious an perspi-

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 to determine the effect of the interest rate
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ratory secretions are much greater than where the temperature of the air is not so high. The manner in which this increased is exerted does not appear to be so well understood by most medical authors, though Dr. Pearson has given a very able paper on the subject under the head of "The decarbonising functions of the lungs" in the Transactions of the Physico-Medical Society of New York. The result of Dr. Crawford's experiments may serve to throw some light on this subject. According to Dr. Crawford "The quantity of oxygen gas consumed by a man in an hour when breathing air of the temperature of 54 degrees was found to be 1344 cubic inches: when the air was raised to 79 degrees, only 1210 cubic inches of oxygen gas was consumed in the same length of time; making a difference of 134 cubic inches." It has been observed that carbonic acid gas is exactly equal in volume to the oxygen gas consumed in its formation; therefore, by elevating the temperature of the air we breathe from 54 to 79 degrees, the blood parts with as much less carbon per hour as enters.

history recorded accounts than when the
 nature of the air is not so light. The volume is also
 increased in weight and not affected as to its
 weight or volume. But, though the density is
 all equal on the subject under the head of "the
 true function of the lungs" in the "Anatomy of the
 respiration" Society of New York. The result of
 these experiments is as follows: when a thin
 tube is inserted into the lungs, the result of
 the subject is according to the "Anatomy of the
 of oxygen gas contained by a vessel in a
 breathing air of the temperature of 64 degrees
 is 104 cubic inches: when the air is
 and only 120 cubic inches of oxygen gas was
 in the same length of time, making a
 100 cubic inches. It has been shown that
 gas is exactly equal in volume to the oxygen gas
 found in the formation; therefore, by extracting the
 portion of the air we breathe from 100 of oxygen, the
 result is with a much less volume than when

ed into 134 cubic inches of carbonic acid gas."— This would leave in the circulating mass per hour just one tenth part of the carbon that would have been thrown out at the temperature of 54 degrees; and when the temperature of the air is raised to 90 degrees and upwards, as is frequently the case, the quantity of carbon retained per hour will amount to about one seventh.—

The experiments of Beuikshanks and others lead to the conclusion that the skin, in the process of perspiration acts as an auxiliary to the lungs in the separation of carbon from the blood; and the experiments of Fourcroy and Bennenbach indicate that the liver is concerned in a similar office. These experiments derive considerable support from the fact that when the lungs separate the least carbon from the blood, viz. when the temperature of the air is considerably raised, the perspiratory and biliary secretions are augmented.—

If then by raising the temperature of the atmosphere from 54 to 90 degrees, the skin and liver are called upon

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to discharge nearly one seventh part more carbon, it may readily be conceived they are brought into excessive action, as is uniformly observed in those who go from a temperate to a tropical climate, or during the warm seasons of temperate latitudes. — If a rarefaction of the air alone produces this effect, it must follow as a necessary consequence that the evil will be increased when this rarefied air is loaded with miasmatic exhalations, still further diminishing the quantity of atmospheric air, and consequently of oxygen gas received into the air cells of the lungs in a given time. Hence I can see no necessity for attributing to marsh effluvia any specific agency in producing the disease, or of supposing those effluvia to possess any poisonous quality. — Dr Pearson thinks that a high range of atmospheric temperature may act as the remote, and marsh effluvia as the exciting cause of bilious fever; but according to my view of the subject, this opinion does not appear to be well founded. I view them as both acting in precisely

The first thing I noticed when I stepped
 out of the car was a sharp contrast
 to the humidity of the city. The air
 felt like a blanket, warm and soft.
 I took a deep breath, savoring the
 scent of pine and the gentle breeze.
 The sun was just starting to peek
 over the horizon, painting the sky
 in shades of orange and gold. I
 felt a sense of peace and tranquility
 that I hadn't experienced in a long
 time. It was as if the world had
 slowed down just for me. I
 looked up at the sky, watching the
 clouds drift lazily across. The
 birds were chirping happily, their
 songs filling the air. I felt a
 connection to nature that I had
 forgotten about. It was a beautiful
 surprise, a moment of pure joy.
 I smiled, feeling grateful for the
 simple pleasures of life. The
 world was indeed a wonderful
 place, and I was lucky to be
 here. I took another deep breath,
 feeling the warmth of the sun on
 my face. It was a perfect day,
 and I was going to make the most
 of it.

the same way, and that heat alone, when long continued, or heat and marsh effluvia combined, (as they generally are when marsh effluvia are evolved,) may act as the remote or predisposing cause of bilious fever or of dysentery. This opinion receives considerable support from the fact that when the milder grades of bilious fever, ^{frequently} occur when their origin cannot be traced to miasmatic exhalations; but the most violent grade of the same disease in the form of yellow fever never occurs except miasmata are superadded to heat. The identity of the ordinary bilious remitting fever and the bilious yellow fever is now pretty generally admitted; and as the dysentery arises from the same remote cause, what reason have we to conclude that difference in grade in the latter disease is evidence of a specific difference in character? - What particular effects carbon when in excess might produce in the system I am not prepared to say. Dr. Pearson thinks it acts as a "deadly sedative;" but I do not refer the evils which follow the application of heat and marsh effluvia to the sedative effects

of carbon in the blood. Dr James Johnson, in his Treatise on the influence of Tropical climates, and derangements of the liver &c. has handsomely illustrated the principle that excessive action produces the indirect debility of Dr Brown. The same principle has led to the following remarks from Dr Staley: "But it is a well established physiological fact that an organ from long continued excessive action becomes debilitated and its functions deranged. Hence it is no forced construction to say, the liver under the above circumstances, becomes affected with indirect debility, or torpor from excessive action; its functions become deranged; its offices irregularly performed; and derangement of the digestive organs, and consequently of the whole system are the consequences." When the skin and liver are inordinately excited, the predisposition is established; and when the causes which produced this effect continue to operate a degree of torpor will be produced which will subject the patient to an attack of bilious intermitting, remitting, or yellow fever, according to the intensity of the re =

mote cause, without any perceptible exciting cause, or
 from a very slight one, as irregularity of diet or drink, or
 exposure to night air. But if a sudden diminution of at-
 mospheric temperature occurs, accompanied with
 moisture, so as to give a sudden check to the perspiration
 and consequently to biliary secretion, dysentery will be
 the consequence. From this view of the subject I apprehend
 that Sydenham was not mistaken when he consid-
 ered dysentery as the fever of the season turned inward
upon the bowels. Though Dr James Johnson thinks
 this expression of Sydenham is perfectly unintelligible,
 he has produced the authority of his name and the result
 of his observations in confirmation of the principle of
 which Sydenham's opinion is predicated. In his chap-
 ter on dysentery in the invaluable work on the influence
 of the tropical climates Dr Johnson says "the same
 cause that, applied to one person, will produce bilious
 fever, in a second gives rise to hepatitis; in a third to
Mort de Chien; and in a fourth to dysentery." I therefore

consider long continued solar heat and marsh effluvia or
 miasmatic exhalations as the agent which acts as the re-
 mote and predisposing cause of dysentery; and cold, or a
 sudden diminution of atmospheric temperature accom-
 panied with moisture, as the exciting cause of the disease
 in its epidemic form. Any agent that will produce a sud-
 den check to the perspiration and biliary secretion when
 in excess, may act as an exciting cause, as the application
 of cold water to the feet &c. but in this way sporadic cases
 only will in general be produced; and hence we may ac-
 count for the circumstance that one person is sometimes
 attacked with bilious intermitting or remitting fever, while
 another person equally predisposed will be attacked with
 dysentery. When the skin and liver are inordinately excited
 from the causes already mentioned, they are, they are in
 proportion to the degree of this excitement above the heat
 they action, more easily struck torpid upon the applica-
 tion of an exciting cause, as cold for example; or the ex-
 citement may be so great as to produce torpor from excess.

action slow, and functional derangement is the necessary consequence. Closure of any secretory organ will necessarily be followed by a diminution in its appropriate secretion; and when this effect is produced upon the liver and skin, besides the inequilibrium of the circulation which must inevitably result, the digestive organs suffer from the diminished quantity and vitiated quality of the bile. If the inequilibrium in the circulation is not very extensive or suddenly produced general fever will be likely to ensue, because no local part is suddenly opposed, to the exclusion of the rest: But if, after having been inordinately excited, the biliary and perspiratory secretions are suddenly checked by an adequate cause, as the application of cold and moisture, the blood appears to recede from the surface to the interior of the system. In this state of things, the hepatic vein being partially obstructed, the mesenteric and mesocolic vessels necessarily become surcharged with blood, and a morbid secretion in the coats of the intestines, or on the internal surface of the body, fol-

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lows as an inevitable consequence. Thus, I think, we may account for the causes which determine the morbid influence of marsh effluvia towards the intestines, so as to excite dysentery, rather than intermitting and remitting fevers. Other causes of dysentery have been enumerated by modern authors, as putrid aliment and certain changes of diet; but whether these are sufficient to produce dysentery independent of a predisposition contracted by the operation of the remote causes above mentioned, is a question that does not appear satisfactorily settled. — The circumstances detailed relative to the detachment of United States Troops stationed in Baltimore in 1799, do not seem to justify the conclusion that the dysentery which prevailed that detachment arose exclusively from the operation of spotted or semispotted beef taken into the stomach. Although these soldiers were in vigorous health and spirits when they arrived in Baltimore, their active in marching from Pennsylvania to the latter place in the warm months of June, and their subsequent inactive state in Baltimore, may

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have laid the predisposition to the dysentery with which
 they were affected in July. As the illustrious professor to
 whom we are indebted for an account of the situation of these
 troops, (and to whose lectures I have listened with inexhaustible
 pleasure and satisfaction) has said nothing relative
 to the state of the weather in July, it is impossible for me
 to determine what agency ~~the~~ atmospheric vicissitudes
 had in exciting the disease. - But I think there is no diffi-
 culty in showing the manner in which the predisposition
 was laid, when we reflect that in July the weather in Bal-
 timore is warm, and the air consequently rarefied. "Se-
 guin examined his own respiration, in a state of rest, and
 found that 1544 cubic inches of oxygen gas were consumed
 per hour. After busily exercising for a quarter of an
 hour it was found, that he consumed oxygen at the rate
 of 3200 cubic inches per hour, which is 1856 cubic inches
 more than when in a state of rest." Similar results were ob-
 tained by the experiments of Lavoisier. The active exercise
 then, of the soldiers in marching from Pennsylvania to Bal-

timors and their subsequent inactivity in a rarefied atmosphere may have laid the predisposition to disease upon the principles laid down in a former part of this essay. The putrid aliment may have had some agency in determining the character of the disease: But as has been already intimated, I cannot determine what share to attribute to this agent, and how much to atmospheric vicissitudes.

The circumstances detailed relative to the dysentery on board the ship engaged in the African trade in September 1816 are still more inconclusive in support of the agency of putrid aliment or sudden changes of diet. The author says "the extreme heat of the climate, and heavy gales rendered the upper wet, and all the rice and bread on board were damaged."

Such hot beds of vegetable effluvia in a hot climate, accompanied with gales of wind, and moisture on board the ship, are surely sufficient to account for the production of dysentery, without calling in the aid of putrid ingesta or the change from full diet to short allowance. I am not, however, disposed to deny that putrid aliment, or a sudden change

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of diet may act as co-operating cause of dysentery; but candour compels me to acknowledge that I am not prepared to admit that they are sufficient to produce the disease, independent of the operation of other causes.

With regard to the proximate cause of dysentery a very few remarks in addition to what has already been said, will be sufficient. It is evident that authors, in speaking of the proximate cause of diseases, have sometimes mistaken effects for causes; and at others the disease itself has been viewed as the proximate cause. The opinion I have embraced relative to the pathology of dysentery necessarily leads to the conclusion that functional derangement of the liver and a consequent plethora of the mesenteric vessels must be viewed as the proximate cause of the disease. To endeavour to controvert what I conceive to be the erroneous opinions of gentlemen deservedly eminent in the medical profession, relative to this part of my subject, would extend the present essay to an unreasonable length. I will therefore proceed to state my views re-

ative to the

Treatment of Dysentery—

Venesection appears to be the most powerful and important remedy in the early stages of dysentery. When carried to sufficient extent its tendency is to reduce inflammatory action, and consequently to prevent any augmentation of that local plethora which I consider as the proximate cause of the disease. If, as I conceive is the case, the liver becomes torpid or oppressed from excessive action, it follows that the great object of the physician should be to remove that oppression and restore those functions. The most important step to an accomplishment of that object, is the reduction of the quantity of circulating fluid, and the diminution of the force of the heart and arteries. These effects can be speedily and effectually produced by bloodletting only. The quantity of blood which it is necessary to draw must be determined by the physician, from an attentive observation of the effects produced. The quantity may vary greatly according to the constitution and habits of the patient, and the

degree of inflammatory action. The blood should suffer to flow, until a sensible impression is made on the action of the heart and arteries; and the operation repeated as often as the symptoms which first indicated its necessity recur.

The illustrious Sydenham was an advocate for blood-letting in dysentery; and Dr James Johnson has adduced strong testimony in favour of the utility of that operation at page 44 of his treatise of derangement of the liver &c. - Dr Johnson says "venesection lessens, at once, the plethora in the mesenteric vessels, and consequently checks the effusion from their mouths. A general relaxation throughout the whole system follows; intestinal strictures give way; scybala and fecal accumulations pass off, and nature, thus relieved, attempts a restoration of equilibrium in the circulation and excitability, evidenced by some degree of action in the extreme vessels on the surface, and by a mitigation or cessation of the pain and irritability of the bowels." Dr Armstrong,

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(on typhus fever page 325,) in speaking of dysentery says "if any observations be correct, early and sometimes repeated venesection at once diminishes the force of the abdominal affections, renders the system much more susceptible of the action of purgatives and mercury, and not only shortens the duration of the disease but lessens greatly the changes of chronic affections supervening the primary disorders of the abdomen."

Notwithstanding the paramount importance of venesection, this remedy alone is not adequate to the cure of dysentery, without the aid of other remedies.

Though emetics are not universally recommended for the cure of dysentery, I cannot persuade myself that this class of medicines is not entitled to a conspicuous place amongst the remedies for this disease, and particularly in its early stage. The medicines from this class which appear to be most appropriate in the treatment of dysentery are the *Spica acuta* her and the Partite of antimony and potash, either sup-

erate or combined. Sixteen or twenty grains of calomel with two or three grains of the emetic tartar, made into a pill is a good emetic and in a convenient form, and is very appropriate in the disease in question, particularly when the irritability of the stomach, or the aversion to Speca cuanba is such as to afford grounds for suspending the immediate rejection of the latter medicine. The operation of an emetic not only removes from the stomach all offending and irritating substances, and thus prepares that viscus for the reception of other medicines, but it also causes a determination to the surface as is evidenced by the perspiration which is excited during the act of vomiting. The equilibrium of excitement thus produced, and the mechanical effects of vomiting, when venesection has been permitted, frequently restores the biliary secretion, and thus removes plethora of the mesenteric vessels. By exciting a free perspiration and biliary secretion, the equilibrium of the circulation is restored and consequently a temporary amelioration.

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ration or suspension of the griping, tenesmus, and bloody discharges from the bowels is produced. This class of remedies, however, does not appear to be so well adapted to the protracted stage of dysentery. The contraction of the abdominal muscles in the act of vomiting might, mechanically, produce an injurious effect upon the intestines, already in a highly irritated and inflamed condition. —

To render permanent the relief afforded by venesection and emetics, other remedial agents are necessary; and among these mild Mercuric of Mercury maintains a conspicuous rank. This remedy appears applicable to almost every stage of the disease, and has been given in various doses, either alone or combined with other articles of the materia medica. Dr. James Johnson informs us that he used calomel as a remedy in dysentery in almost every parallel of latitude; and this celebrated physician and acute observer recommends the article in the highest terms. —

His first manner of using it, was to give it in doses of

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from three to six grains, repeated sufficiently often to exhibit 24 grains in the day and night. With these doses the combined species and pulvis Antimonialis in sufficient quantities to give, in the same space of time, from two to four grains of the former, and from ten to fifteen grains of the latter. But from subsequent experience Dr. Johnson was induced to give the calomel in scruple doses, repeated two or three times a day till ptyalism was produced. Dr. Johnson states it as a remarkable fact that a scruple of calomel will sit easier on the stomach than either a larger or a smaller dose; and Dr. Armstrong, who is also an advocate for the mercurial plan of treatment has also adopted the scruple doses of calomel. It is somewhat remarkable that when ptyalism is produced from the exhibition of mercury in dysentery, the intestinal irritation immediately ceases entirely or is greatly reduced in violence. Ptyalism then, should be excited as speedily as possible

from this to six years, and the
 of the day, and the night. The
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and hence we may account for the propriety of giving calomel in such immense quantities as are recommended by Dr. Johnson and the American editor of Dr. Armstrong's valuable work on typhus fever. Calomel being such an important remedy in the treatment of dysentery, I should be induced to prescribe it liberally. If an emetic had been permitted, a scruple of calomel should be given in two or three hours after its operation; and if was not thought advisable to give an emetic, calomel should be the first medicine exhibited. This quantity should be given twice a day, or in violent cases three times a day till the gums become affected. The first dose should be followed, at intervals of two or three hours, with full doses of cold drawn castor oil, or the sulphate of magnesia until copious fecal or bilious evacuations are produced. If the stomach will bear it, small portions, from a fourth to a half a grain of the emetic tartar may be added to each dose of the sulphate of

magnesia with advantage. After the bowels are
 freely opened, a recurrence of the irritation they suf-
 fer may be measurably prevented, and the equilibri-
 um of the circulation promoted by the exhibition of an
 opiate combined with some sudorific, as if see caucama-
 ha or the antimonial powder every two or three ho-
 urs intervening the dose of calomel. The Pulvis Do-
veri will answer the purpose very well, but the pro-
 portion of opium may be varied according to the de-
 gree of inflammatory action, or the violence of the
 intestinal irritation. In those cases where the irritation
 and griping are very severe, from one to two grains of
 opium may be combined with the calomel. If the cal-
 omel is not sufficient to keep the bowels laxative state,
 recourse must again be had to the Ol Ricini, the
 sulphate of magnesia, or some other aperient. The
Pulvis Rhei has been much celebrated as a cathartic in
 dysentery, upon the supposition that it pos-
 sesses, with its cathartic, some degree of astringent property; and when

There is great aversion to the *Ol Ricini* and sulphas
 Magnesia the rhubarb may be a good substitute, though
 I am not aware that it possesses any extraordinary virtues
 as a remedy in dysentery. Salap, though generally con-
 demned on account of the drastic manner in which it
 operates, has been prescribed by my preceptor, in combina-
 tion with calomel, with very pleasing results when the
 origin of the disease could be traced to the influence of
 marsh effluvia.

If prompt and energetic measures are resorted to in the
 early stage of dysentery, I apprehend that astringents
 will rarely be found necessary, though the acetate of
 lead has been recommended by several writers in
 the American Medical Recorder. The propriety of
 using astringents in dysentery, to me, some what ques-
 tionable; and if given to the exclusion of sudorifics
 and evacnants, they may be extensively injurious.
 If they arrest the discharge of blood and mucus, (which
 appears to be the object for which they are given) before

There is great reason to believe that the
 Magazine the student may be a good subject though
 I am not an expert in that respect and extremely
 of a variety in quantity. I hope though generally
 known on account of the article however in addition
 of the other, but the student by my suggestion, in
 view with the student, with my feeling about the
 origin of the article could be made to the student
 in all affairs.

If possible and suitable measures are taken to
 carry out of this country, I apprehend that the
 will rarely be found necessary, though the
 I hope has been recommended by some
 the American Medical Society. The purpose
 of this report is to report to you, and
 to show; and of course to the exclusion of
 and I am sure, they may be extremely
 If they meet the objects of the student and
 I am sure to be the only one for which they are

the perspiratory and biliary secretions are restored, they will increase the local plethora, and thus act as a fuel to the flame they were intended to extinguish; and permanently obstruction and induration of the liver may be the consequence.

The warm bath, when it can be resorted to will be serviceable by relaxing the surface and promoting the secretion peculiar to that part of the body; but it is a remedy too inconvenient for general use, particularly in country situations. The pediluvium however, can always be resorted to, and should never be neglected, as it has considerable effect in promoting perspiration and consequently an equilibrium of the circulation.

When there is great irritability of the stomach, or a fixed and constant pain in the abdomen or right hypochondrium, epispastics are useful. The particular manner in which the beneficial results of epispastics are brought about appears to be a decid-

ratum with medical authors. It does not appear improbable that the principle part of their beneficial effects arises from the influence they exert upon the nerves, through which they tend to equalize the excitement of the general system. —

When acidity prevails in the stomach, causing flatulence and eructations, some absorbent, as the calcined magnesia or Creta preparata may be combined with some of the medicines above mentioned, or given separately with advantage. —

When the pulse sinks, and symptoms which threaten an approaching gangrene take place, Iuspicia or the cortex Cinchona with wine or Coquina brandy should be given to an extent proportioned to the urgency of the symptoms. But during the existence of inflammatory action, tonics, or antifebriles as they are termed, are inadmissible. Even when the fever of a dysenteric patient is completely intermittent, tonics should not be exhibited, before the local

plethora is removed by calomel and sudorifics. —

Glysters of starch, or some mucilaginous substance are frequently administered, and when they can be used without causing much irritation at the extremity of the rectum, they may afford a temporary abatement of the intestinal irritation and griping. —

With a view of promoting as much as possible, an action on the surface of the body, as well as to guard against a relapse from a sudden impression from variation in the temperature of the atmosphere, flannel should be worn next the skin. Mercurial frictions over the abdomen, and a flannel roller round the body, as recommended by Dr Johnson, no doubt may prove serviceable. —

The general principles of the practice here adopted, I presume will be found applicable to the dysentery as it is generally met with; but pecuniarity of circumstances may require some modification in the the curative plan of treatment. When dysentery is

complicated with typhus fever, the treatment must be adapted to the character of the fever, and consequently the depleting plan cannot be carried to so great an extent. And, according to Dr. Armstrong, (page 338,) "if dysentery were to attack soldiers while resting in a camp and well-fed, it would bear the active treatment before mentioned; but if it were to attack an army worn out by disasters, retreat, and want of food, much milder measures would be expedient; and it is no doubt to the different circumstances under which the same disease are liable to appear, that we must attribute part of that discrepancy of opinion which exists respecting their cure."

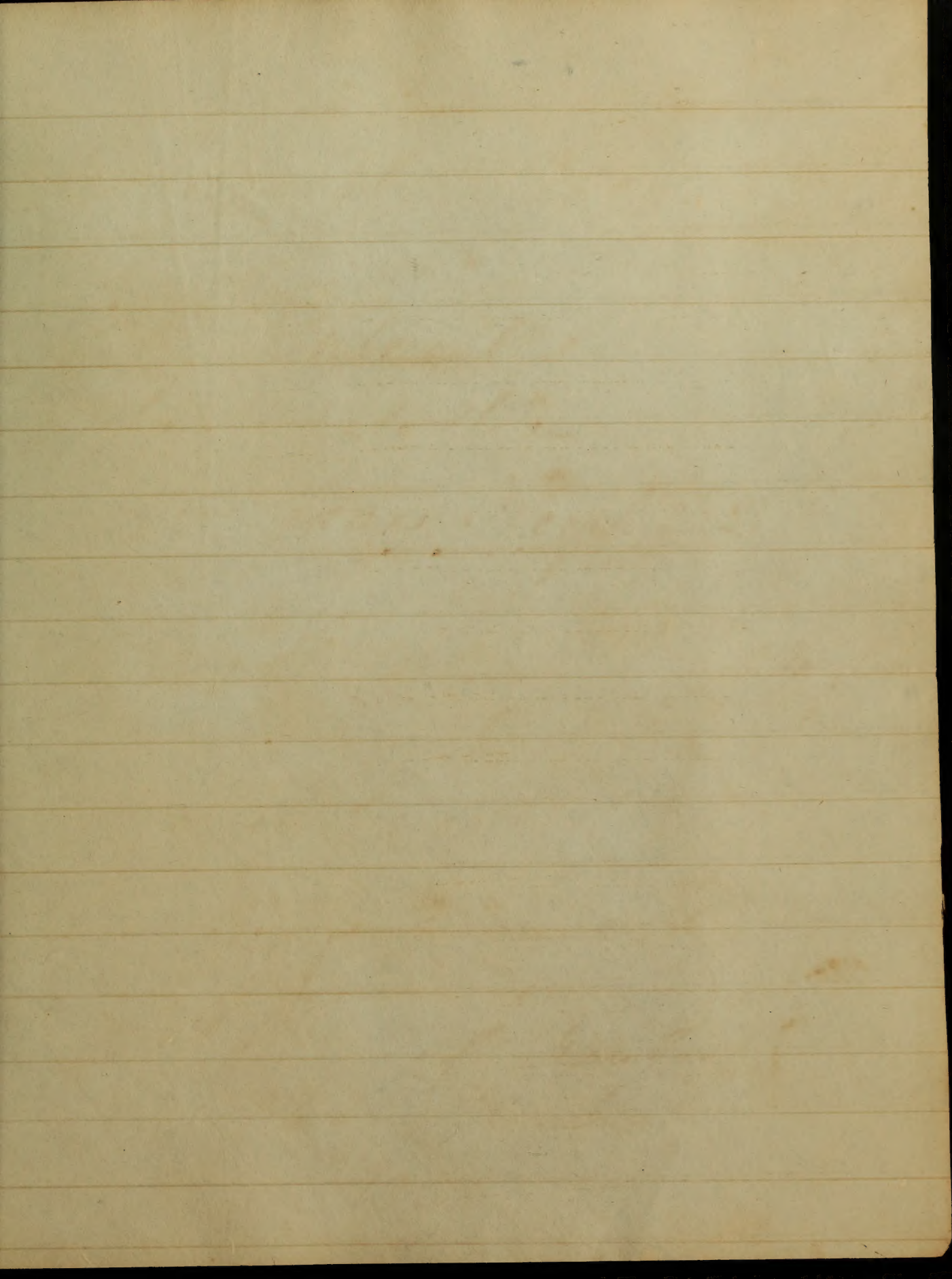
The diet throughout dysentery should be light and of easy digestion, as arrow-root, rice, or rice boiled soft and then put in milk and the whole gently boiled together, calves-foot jelly, Jamison's crackers made soft by being thrown in hot water or tea, &c. Wheat flour that has been well boiled, and then mixed with milk, and

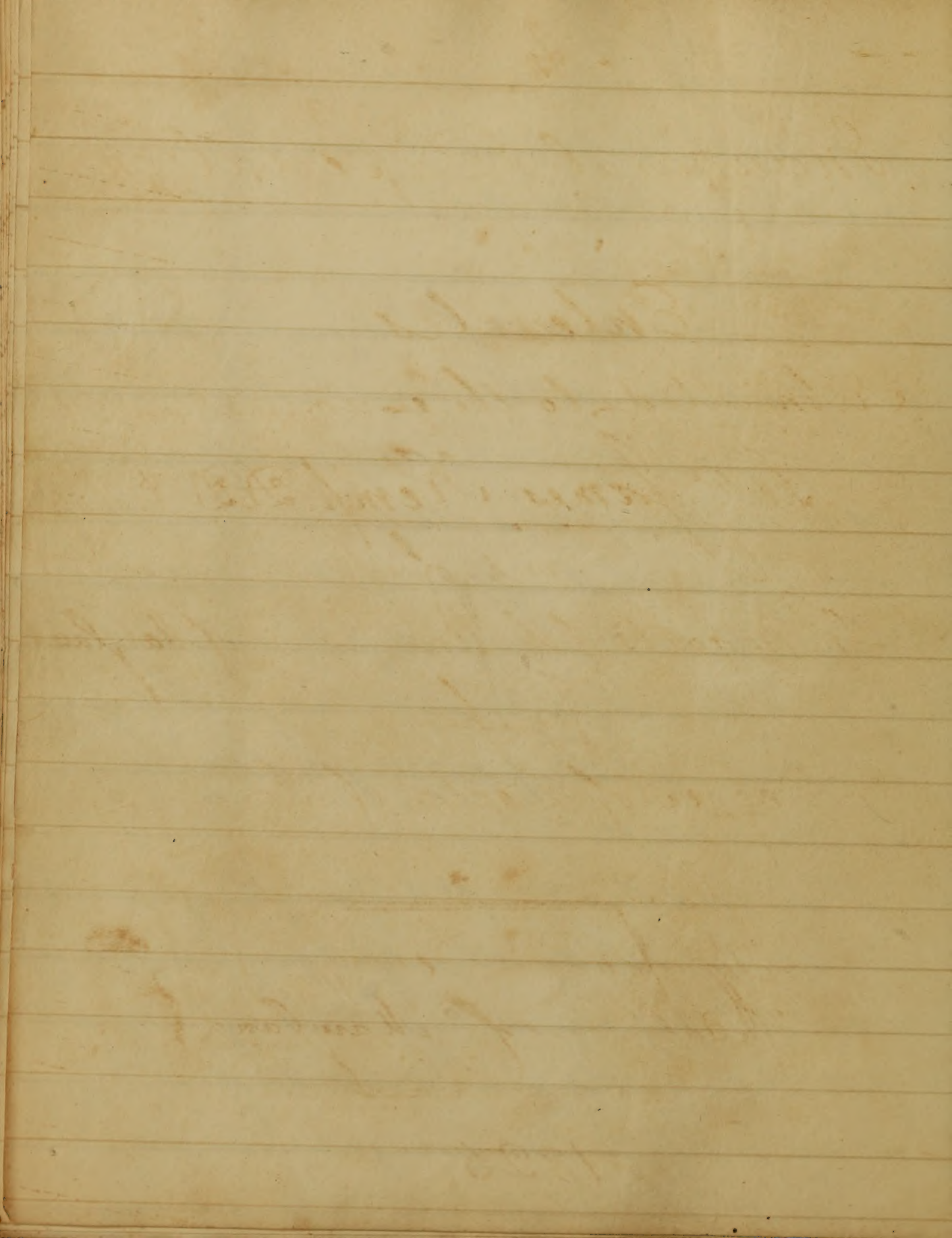
moderately seasoned, constituting what nurses term peap, is both palatable and proper. The drink should consist of warm tea, weak coffee, chocolate. An infusion of flaxseed, from its mucilaginous quality, would appear to be a suitable drink for a dysenteric patient. — During convalescence the utmost caution should be observed in order to prevent a relapse. Exposure to night air or atmospheric vicissitudes before the debilitated vessels which suffered most during the disease recover their tone, will in all probability be followed by a relapse. An imprudent indulgence in gross or irritating articles of diet may be followed by a similar result.

Thus much I have thought it my duty to say relative to the disease which I selected as the subject of my inaugural dissertation. The essay is much longer than I originally intended it should be; and this circumstance, I trust will be received as my apology for not dwelling more minutely on the disease as it is complicated with other affections.

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An

Inaugural Dissertation

To William Denny M.D.

on
Enteritis

Submitted to the examination of the

Rev. James Kemp. D.D. Proctor,

and of

The regents of the University of Maryland

for the

Degree of Doctor of Physick.

By John Denny
of Baltimore. Maryland

1825

No

Manuscript of the

British

submitted to the committee of the
Rev. James, Esq. D.D. Secy.

of the reports of the University of Maryland
for the
degrees of Doctor of Divinity

By John C. Smith
of the University of Maryland

1822

To William Denny M. D.

This dissertation is dedicated, as a
tribute of affection,
from his brother and

Pupil.

To William Denny - H. D.

The enclosed is directed to

the care of Messrs
from his brother and

Robert

Essay
on
Enteritis

The subject of this essay is one of those inflammatory diseases which sometimes affects the abdominal viscera. The division of Dr Cullen into the Phlegmonic and Catarrhatic being of no practical utility, I deem it useful to speak of the two species farther. According to the method laid down by authors, I shall proceed to the consideration of its Symptoms - Terminations - Causes - Diagnosis - Prognosis and Treatment.

Symptoms. Acute pain, in the abdomen, which is increased upon pressure and shooting in a twisting manner around the Umbilicus; obstinate costiveness; tension of the abdomen; tenesmus or vomiting, as the inflammation happens to be in the superior or inferior portion of the intestine; the vomiting is generally bilious or dark, fatid and in some instances stercoraceous; pyrexia; quick hard contracted pulse great prostration of strength. When the inflammation extends to the stomach the pulse becomes depressed, but in Enteritis alone it is always tense, until inflammation is subdued.

Its terminations are in Resolution, Suppuration, or Gangrene.

When it terminates in Resolution it is known, by a gradual diminution of the Symptoms, and a free evacuation of the bowels.

When in Suppuration, which is very uncommon it is known by a remission of the febrile symptoms, by occasional pains and shiverings, and purulent evacuation from the bowels.

Gangrene is marked by a sudden cessation of pain, and anxiety, the patient becomes calm and collected while the countenance assumes a livid and indescribably cadaverous hue; suppression of urine; piceus; subulcus tendinum; delirium; convulsions and death.

Causes - Long continued constiveness, may act as a cause in the production of Enteritis; Colic long continued or badly treated is frequently an exciting cause. There is a Chronic form of Enteritis which I believe is only spoken of by the Professor of the practice in this University, and this is most frequently the consequence of Colic at least it produces the Chronic form more often, as a consequence, than the Acute.

Any case of Colic, that does not readily yield, to the usual remedies, and the pulse becomes tense - the patient should be bled, in order, to obviate inflammation. Enteritis, is frequently produced, by incarcerated hæmias; indurated faeces. Sudden changes of temperature - sudden application of cold to the abdomen, when the viscera are pre-disposed, by debility - will excite it; eruptions of eruptions, when the intestines, are in the above mentioned state, may act as the exciting cause. poisons taken into the stomach, though, this more frequently excites Gastritis and the viscera become im-p-heated by the extent of the inflammation - indigestible food. Besides the causes enumerated, there are certain External causes - such as contusions immediately on the abdomen, or in the neighborhood. Incised or punctured wounds of the abdomen - balls passing through the intestines. In the list of causes thus given I forgot to mention in its proper place the metatasis of Gout and other diseases. I shall now, according to arrangement,

I have now a specimen of the
the vegetation of Port and other places
I forgot to mention in the former paper
to name for the list of cases then given
abdominal balls of the
Purified or purified
on the abdomen or in the neighborhood
Cancer - see an enormous number
enumerated in one certain
two - under the food. Observe the
is treated by the extent of the inflammation
= case of parotid and the vesicle
abdomen though the more frequently
the existing cause. Parotid taken into
in the above mentioned
= years of eruption when the inflammation
= the parotid is chiefly with acute
to the abdomen when the vesicle are
of temperature besides application of cold
= very abundant cases. Observe changes
frequently produced by increased heat
order to observe inflammation. Enteritis
becomes then the patient should be kept
up to the usual remedies and the
best case of Parotid.

proceed, to the Diagnostics, of the Disease
in question.

Diagnosis: It may be distin-
-guished, from Gastritis, by the seat of the
pain, and the pulse, is more tense in
Enteritis. From Colic it may be distin-
-guished, by the one being accompanied
with fever - the other not; by the pulse,
being fuller and softer, and by the pain
being usually, increased by pressure, in En-
-teritis and in Colic, it is alleviated and
the pulse as stated above is fuller and soft-
-ter in Colic. From Hepatitis, (with
which, it is almost impossible, to con-
-found it,) by the seat of the pain by
the sympathetic affection of the clavi-
-cle and shoulder - by the less prostra-
-tion of strength and greater fulness
of pulse, and by the colour of the
stool, and urine.

Of the Prognosis: Fa-
-vorable, when there is a gradual
remission of pain and other symp-
-toms. the abdomen, becoming less ten-
-der

to the touch; the pain changing
its seat and not confined, to a par-
-ticular part; the belly no longer
obstructed; a warm equable sweat; the
urine depositing a sediment; the pulse
losing its frequency, and becoming
natural:

We are to consider the prog-
-nosis unfavorable when the Lymph-
-toms indicating gangrene, as above
given, - are present:

I have now come
to the most important considera-
-tion in the history of disease, its
Treatment: The first step to be pur-
-sued in the disease in question
is free and early venesection no
matter, from what cause it may
arise. The best guide for bloodlet-
-ting in this and indeed all other
inflammatory diseases is the con-
-tinuance of the pain, and it
should be reiterated so long, as the
-inflammatory symptoms exist.

The blood drawn in Enteritis is usually sily and this is a good rule for the employment of the lancet. If the pulse should be depressed, we are not to be deterred from energetic measures - the pulse will rise, from resection and it must be reduced, by the same remedy. At the same time, that this active plan is carried into execution, local bleeding may be advantageously combined. With regard to the application of Bleed in Enteritis, they should in no case be admissible, until we have evidence of declining action. It is necessary, in some cases to apply them frequently. I am inclined to suppose a priori, that the Tartar Emetic ointment might act as valuable assistant in the treatment of this disease but as I have never witnessed its application, I cannot speak of it from experience.

The first thing I noticed when I stepped
out of the car was a heavy, sticky
heat that seemed to wrap around me.
For the first time, I felt the weight of the sun
on my face. The humidity was not just a
background noise; it was a physical presence.
I had heard that the South was hot, but
this was something else entirely. The air
felt like a thick blanket that refused to
be shaken off. I had never experienced
this kind of heat before. It was a
welcome challenge, but also a little
daunting. I had to adjust to this new
environment. The humidity was a
constant reminder that I was in a
different world. I had to learn to
live with it, to embrace it, and to
find a way to thrive in it. It was
a lesson in resilience and adaptability.
I had to learn to sweat more, to
drink more water, and to wear
lighter clothing. It was a process,
but I was determined to make it
work. The humidity was a test, but
I was up to the challenge. I was
ready to take on whatever the South
had to offer. I was ready to
embrace the heat and to make it
my own. I was ready to live.

Having recommended, from the best authority, the free and decided use of the lancet, I come now to speak of its auxiliary - purging. Medicines of the Cathartic class are more readily retained in Enteritis than in Gastritis, where the patient can obtain purgatives oil is best adapted and I have read of cases, where a great quantity of olive oil, has been taken in, with a beneficial result when no other medicine could be retained its administration therefore should always be advised. Enemas in Enteritis are invaluable. the Tartarised Antimony is said to have succeed in the form of Enema when all others have failed. The warm ^{bath} has frequently been resorted to with prejudicial results, owing to its being employed too early in the inflammatory stage; it should never be used in this or any other morbid affection arising from inflammation, until the

reduction of action. Dr Potter has remarked that when the warm bath is exhibited during the continuance of increased excitement and carried to the extent of affecting the general system, it produces suppuration by its stimulating powers, causing indirect debility. Mercury adds the same authority is of less use as an alterative, in enteritis, ~~of less~~ than in any other fever.

The exhibition of cold water, has been unequivocally condemned, as - then it would appear in coincidence with popular prejudice, than sound philosophy. It may be advantageously employed, as an injection, with care, by lowering its temperature gradually. A watery solution of opium applied to the abdomen, will be found to assist the above remedies it acts by lessening the sensibility. During the treatment the

the patient's strength, may be sup-
-ported by mild nourishment and when
all traces of a morbid character have
yielded to a healthy action he should
be reminded of the causes of the disease
and be advised, to keep up an equable
determination to the surface, by
wearing flannel.

From what has been
in the foregoing pages, written, it may be seen
that the curative indications are: - To allay
the inflammatory action of the bowels.
To keep the bowels open: first By gene-
-ral and topical blood letting - by the warm
bath and fomentations and third by the
frequent exhibition of purges.

The description of the above
disease has not been given from my own ob-
-servation but is taken from authors in it I
have advanced no new opinion as I have
never seen the disease in practice. The appli-
-cation of the tartar emetic ointment I have
never known recommended, but have thought
it might be useful from the modus operandi
of its action. Having said all that is necessa-

the patient's strength may be
restored by mild nourishment and water
all traces of a morbid character
yielded to a healthy action he should
be removed of the cause of the disease
and be advised to keep up an equal
determination to the surface by
evacuating flannels.

It is not what has been
in the foregoing paper written it may be seen
that the various indications are: to allow
the inflammatory action of the bowels
to keep the bowels open. First by
and one to keep blood away from the
bowels and from the system and then by the
present exhibition of purges.

The description of the above
disease has not been given from any view of
curious but a full form called in it
there observed no more of it. I have
never seen the disease in practice. But the
course of the disease is not to be
more than recommended but have thought
it might be useful from the modern practice
of a better plan of treatment.

on my subject, it remains for me only to make a few observations on the character of the university before whose consideration this essay will fall. The illustrious father of the Institution, may well look back with a feeling of manly pride and satisfaction, upon the work of his own undertaking. He has watched over it in its incipient progress, and did not forsake it when the adverse storm lowered around its walls and threatened to overwhelm the fabric with desolation. Nurtured by his attention, and fostered by his principles it has attained a rapid and unparalleled progress. The University of Maryland can commit unhesitatingly to the world, the alumni of her creation with a proud consciousness that the principles taught in her chairs will eminently qualify for their practice of their profession, the youths who have supported her cause.

To the Father of this literary school I have only to hope that when the evening of life has shed its last hallowed ray, that the remembrance of his virtues and of his scientific attainments may long shed around his tomb their benignant lustre, only to be extinguished when time shall cease. Of the several

... a few observations on the character
the university before we have
the year will be. The following
of the institution may well be
a feeling of unity and brotherly
upon the part of our own countrymen
has indicated over it as it respects
and did not forsake it when the
other courses should be well
to be established in the future
later. Attention by the nation and
to be given to the principles of
and unparaleled progress. The
of the progress and growth
to the world the blessing of
a great country that the
ought to be given with
for the progress of their
to the father of the literary world
only to hope that the evening
has that its last laborer may
presence of his nation and
the attainment may last best
their progress but only to be
when some shall come

Gentlemen, connected with him, in the li-
terary work, I must express my unfeigned and
undisguised satisfaction, at the principles,
emanating from their chairs, - trusting, that
these principles, may long reflect upon the
Institution over which they preside that bil-
-liancy, which will in future, secure her
from the persecution, of rivalry and animos-
-ity of the ignorant.

of the present
from the perspective of several
- away which will in future be
- history over which the people that
these principles may be reflected upon the
emerging from their own history and
emerged from their history at the present
- every work, I want to help my people and
- the present with their own hands

George W. ...

...

Henry ...

...

...

...

log of
181

Henry W. Fitzhugh
of Baltimore

from the offering of

Henry
I pray
Sam. H. Lyon
I have vain a show is getting
how vain

Henry W. Fitzhugh
of Baltimore

1825

Samuel H. Hamilton
I give thee all I can
in the front

Edward J. Collins
Edward J. Collins

Infirmary
Infirmary 33

333333
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Thesis

by

Henry W. Fitzhugh

of Baltimore

1825

Hydrophobia is a term that has been long used by Morologists to express a disease which they themselves admit is merely descriptive of a single symptom, which is sometimes absent & is not an unusual concomitant of various & very opposite affections. Since the publication of the Study of Medicine by the learned Doct^r Ford, the medical world appreciating his talents, and the fund of useful knowledge communicated by his enlightened publications are not only disposed to yield to him the measure of praise but also to coincide with him in his extensive view of the science & to adopt his generic terms for the several diseases.

Dr Ford in his 4th Class & 2^d Order Remarks that the term Lyssa was used by the Greeks for Rabies, and that he has ventured to restore the Greek term as being far more classical and correct than the technical term of the present day which is Hydrophobia or Water Dread. Since this is by no means a pathognomic symptom being sometimes found in other diseases &c. he further remarks that the symptom does not always occur in the disease. He mentions a case as reported by Dr Baughman where the patient called for drink through the whole course of the disease. It is a fact well known to most medical men that Hydrophobia or Water Dread

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may occur in many other diseases such as Cynanche Trachealis
Hysteria &c. satisfied as to the incorrectness of the generic
term Hydrophobia I think it high ^{that it should} be exploded & until
a more expressive one shall suggest itself to the world
-just I am disposed to agree with Dr Good in adopting
the Greek term Typha. The disease under consideration is
one of great antiquity, authors have not pretended to
date its origin; it may I think be considered coeval with
the human species. In considering the remote cause I
will merely mention some of them as suggested by dif-
-ferent writers, or might rather say conjectured, as no
valid arguments have yet been advanced in support
of any one cause. One considers it Extreme Heat or Cold,
another a deficiency of water, a third a want of perspiration,
a fourth a worm under the tongue, a fifth putrid
aliment &c. - a learned Gentleman of this City has advanced
it as his opinion that it depends upon changes of tem-
-perature, & that all these, or some of them, ^{mentioned as remote causes} such as want
of water, putrid aliment &c are exciting causes. it has
been sufficiently established that the disease very rarely,
or never occurs in uniformly hot or cold climates.

although this would appear to be the most satisfactory
& conclusion been as to the remote cause, yet it is ~~not~~ ac-
ceptable, and I fear it is a subject that must still
be obscured from the penetrating eye of the pathologist.

In considering the action of the canine virus on
the human system, I would first remark that a wound
is essential to its communication. This fact has been
opposed by Dr Sturte a German writer and a few others
the Doctor in support of his opinion mentions the case
of a boy who died of canine madness when his
hair had been licked by a dog that afterwards went mad.
I hope that any attempt at refutation of such opinions
as these will be deemed superfluous. It is a fact I
think sufficiently established, that all causes acting on
the nervous system when first impression is not suffici-
-ent to destroy life immediately, always result in re-
-action, and hence the analogy of this, to many other
diseases, for instance, Apoplexy, the effects of lightning,
and most of the diseases arising from the action of ani-
-mal poisons upon the system, as Small Pox &c.
In small pox we do not always find the system

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immediately impeded on the introduction of the virus,
it continues to be a local affection for a time then
by laws peculiar to itself, it exhibits all the phenom-
-ena of the disease - we first see the system expressing
its sympathy by strong cutaneous action & the disease
may continue its course in the form of a ~~simple~~ in-
-flam-matory fever - or in a system debilitated & incapable
of resisting its more violent action, as in the Confluent
Small Pox we have a fever assuming all the different
grades from the most inflammatory to those of the lowest
type, ~~and~~ in the commencement requiring all the
necessary depleting measures & before its termination
the patient may sink even under the administra-
-tion of the most energetic stimulating Remedies -
The Cancer Virus makes its impulsion first locally, and
may continue to exert its power on the point affected
for an indefinite time. When by the agency of some
exciting cause, its influence is extended to the system
generally through the system mentality of the nerves -
or if received into a system previously susceptible, or
when there exists great excitability or irritability of

the nervous system than we may learn all the phenomena
of the disease exhibited in a proportionally shorter period.
Although I have never seen the disease in an individual
-tion, yet after having noticed very minutely the several
symptoms, as detailed by the many notes on the subject,
and compared their accounts of success & failure of
remedies that are diametrically opposite to each other in
their applications & effects. I am irresistibly drawn to the
conclusion viz. that the action of the disease virus upon
the human system invariably results in a fever, and
that it is in many respects analogous to that of Con-
-fluent Small pox, capable of changing its character
and assuming all the intermediate grades between those
of the highest & lowest action - and if it would not
be considered presumptuous I would suggest, that the gene-
-ral ^{error} in the treatment of the disease arises from ^{these} not
-being sufficient attention paid to these changes -

I shall now proceed to the consideration of some
of the most prominent symptoms as they generally occur -
The disease very rarely makes its appearance before
ten days. the ordinary time is from ten days to three

weeks after the introduction of the virus, there are
known many instances recorded when the interval
was much greater, there is one authenticated case
when the disease did not make its appearance
until a lapse of time of three years & four months.

The first symptoms generally are a pricking & itching
in the part wounded with some local inflammation.
Pain then extends from the wound towards the throat
they become more & more violent & general, and of
a convulsive kind, affecting the neck & joints, then are
succeeded by a dull pain of the head, breast, stomach
&c. These symptoms are preceded, or accompanied by
Lapitude, Drowsiness, some times with Vertigo, the mind
seems divided, temper irritable, sleep is disturbed
by violent convulsions. The patient then becomes very
restless, eyes are red & watery - extremely sensible to the
action of air & light - increased discharge from the Salivary
glands, which they spit or blow from their mouth
with violence. The tongue is foul - great oppression of
the precordia is a constant attendant - a sighing - nausea
& sometimes vomiting - these symptoms are accompanied or

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to move the inflamed Muscles, this is no doubt
the cause in part, but in addition to the Muscles
of Deglutition being inflamed, I would suggest the
patients actual dread of being suffocated at every
attempt to swallow liquids - and arising I believe,
particularly from the inflamed state of the Muscles
of the Larynx, they like the Muscles of Deglutition,
generally cannot perform their functions in a perfect
manner. consequently the closure of the Glottis is
incomplete - although sufficiently to prevent the entrance
into it of solid foreign bodies, yet not so completely
as to exclude the more divisible particles of a fluid.
Besides from the capacity of fluids to be extended
over a greater surface, I am conceiv'd of their being
of a more general & permanent irritating cause,
Solids might be thrown beyond the Vena, where
the great difficulty exists & then probably their
own specific gravity might cause them to descend

We find the Disease considered as inflammatory
by the great Boerhaave & might not his opinion
have been predicated on actual examinations? for

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We are informed by the report of all those that
have made post mortem examinations, that the
Disease has, (but with one or two exceptions in which
they might have mistaken the Disease) invariably ex-
hibited Marks of inflammation, either of the brain
or its integuments, the stomach, the intestines, lungs
trachea, or muscles of deglutition. Dr. Delabere Klein
a man of enlightened mind, who has given great at-
-tention to this Disease as it occurs in the Canine Race
furnishes us with the result of his examinations in
many thousand instances when we invariably find
Marks of inflammation. He remarks "that the lungs
"stomach & bowels are so invariably affected that there
"is not the least hesitation in considering what is mad-
"ness (but what should be termed rabies) as a specific
"inflammation of these organs, superadding the speci-
"fic character of the complaint to the inflammation"

Before considering what I conceive to be the
most consistent mode of treatment, I will notice some
of those Remedies that have not only deluded the hopes
of the miserable sufferers, but also this tremendous and

fumidable of all human Maladies, but have trampled
the judgement of thousands of individuals, received the
mature Deliberation, Sanction & Record of Enlightened Legis-
lative bodies of this, as well as of most other Countries.
Experience has taught us of the palpable absurdity of
looking for a Specific in any one Medicine. but
so long as Credulity and Ignorance are linked together
we must expect to find them more disposed to repose
in the shade of indolence, rather than search dili-
gently for the salutary precepts of substantial truths.
In every age has Mankind been trammeled with
some boasted Specific. at one time we see the
famous Tongue Medicine of the East Indies, at another
the renowned Cornish Medicine. again the celebrated
powder of Palmstones the pulvis Antihypus of Dr. Mead
the boiled liver of a Mad Dog. egg shells. oyster shells.
Calcein, worm wood and a thousand others that have
flourished, failed & faded. - Even in the present day our
attention is arrested by some far famed Anagallis when
splendid Orators, bidding defiance to & disarming the
Monsieur Sympa of all its terrors. yet fading we see the

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portering hand of Momoko and ~~and~~ the Meed of Poets.
Next we have the Many Mouthed Snake Stone, quite as
murderous as its name denotes - again we are favored
with the most scolding remedy of Crois whom you
claimed the particular attention and reward of the
Philanthropic & benevolent Legislature of New York.
and last of all we see the Scutellaria Latiflora
rearing its head to offer consolation & relief to the
hopeless patient. From me have as little to expect
for it as many of its predecessors - to close this
catalogue of remedies, I would mention a method that
has often been adopted to relieve the poor sufferer of
all his troubles, even the very thought of it makes me
shudder. I mean that most inhuman practice of
smothering the patient to death - so long as we suffer
these propensities to hold the ascendancy over ^{our} judgement,
and consent to be led by ignorance, and superstitions,
in vain will every attempt be to progress in knowledge.

In the treatment of the disease I shall
in the first place proceed to detail what I conceive
to ^{be} the best method adapted to secure the patient from

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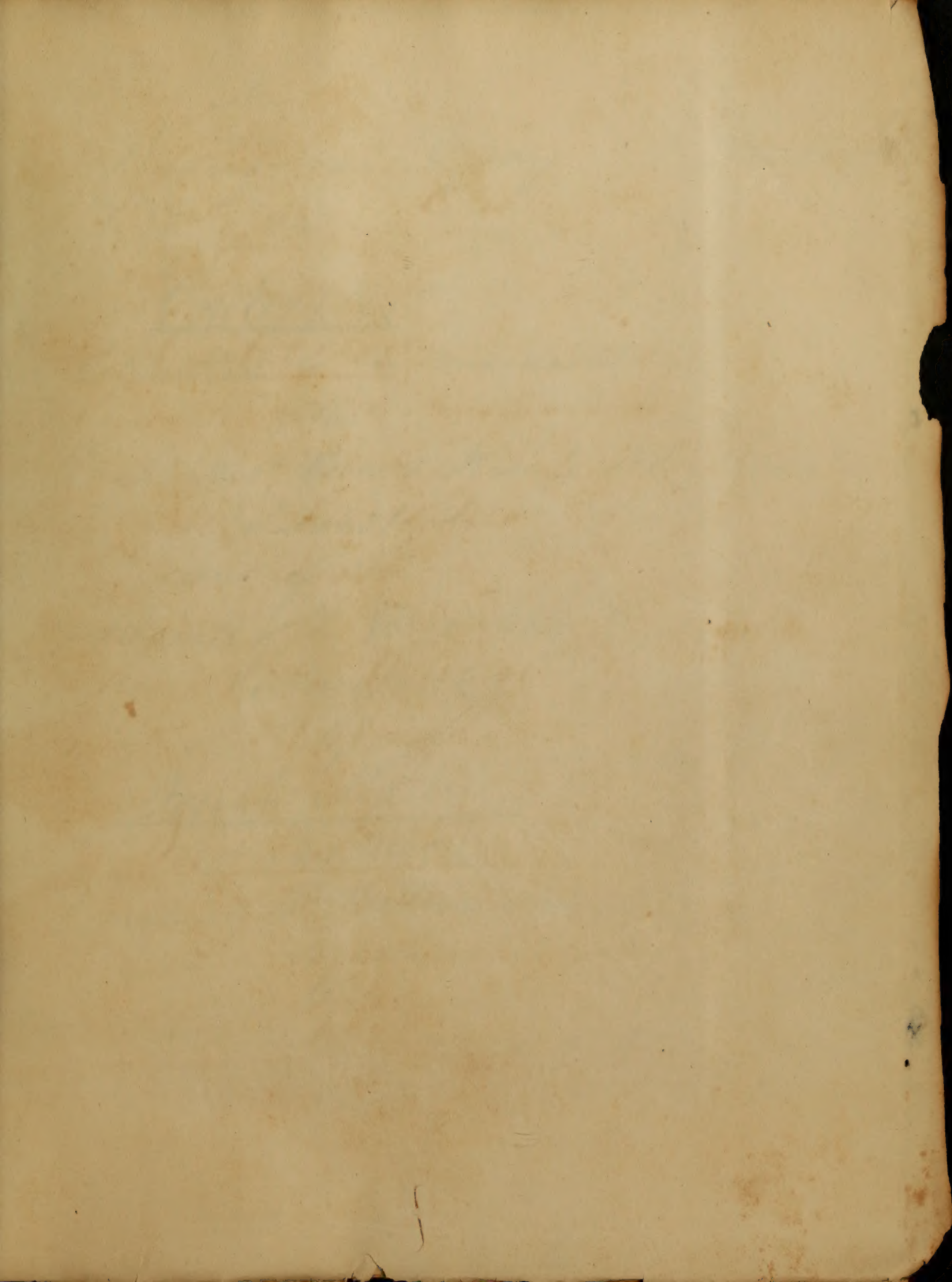
the impulsion of the virus, without noticing the very
many prophylactic measures ^{as} already recommended
by different writers on the subject. Should the wound
not have healed I would recommend that a strong
solution of the vegetable caustic be injected into it
by means of a syringe, by which means the caustic
may be brought into contact with every part of the
wound, which gives it a decided preference over the
other methods recommended, the action of the caustic
may be arrested, when necessary, by any vegetable acid
Vinegar for instance. This method was first suggested,
and practiced, with repeated success, by a very respecta-
ble physician of this City. Next to the caustic I
would give the preference to burning the part by
gun powder - in all cases the wound should be kept
in a state of supuration for some time. Should
the wound have healed I would open it and adopt
the same measures as suggested above. I would also
particularly recommend the use of Mercury both inter-
nally and externally that a speedy ptyalism might
be induced. The patients mind should be kept tranquil.

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and his thoughts as much attracted from the disease
as possible -

I shall conclude my observations by remarking
that after the disease has once manifested itself in
all its terrors, we must keep in view the position
that I have assumed of its being a Fever, and address
ourselves with unremitting ardour & assiduity to all its
changes. In this stage of the disease I do not believe
that any particular rules can be laid down for its
treatment. - it must be left to the judgement of the
practitioner to adopt such measures which under
the attending circumstances of the case may be deemed
most eligible. -

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Thomas

Wm. H. H. H.

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George H. H.

[Faint handwriting, possibly a signature]

[Faint handwriting]

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An
Inaugural Essay
on

Enteritis

Submitted to the consideration
of the
Right Rev.^d James Kemp D.D.
Provost
and of the
Regents of the University of
Maryland

by
Joseph Martine

of Baltimore
Member of the Baltimore Medical
Society
1825

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Particulars

Chas. H. Carter

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No

Nathaniel Potter M.D.
Professor of the Practice of Physick
in the University of Maryland

This feeble Production is
Dedicated, not as a Memorial
of its Value to the Profession
But as
a Tribute of the Respect and
Esteem of the Author

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to fading and the cursive script. Discernible words include "Water" and "of the".

Thesis to

Respected Sirs

The following thoughts are hastily thrown together (by dictation) in order to comply with the Laws of the University of Maryland previous to my receiving the highest honours of my Profession, and of a College which, I believe stands second to none on the Continent, and think I may venture to say second to none in both Hemispheres.

From the short time allotted to preparing an Inaugural Dissertation, independent of a serious Accident which has befallen me, I feel sensible of the many inaccuracies which may abound but

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but feel a lively hope that ~~the~~
being compell'd to write by the
Stimulus of Necessity, will be an am-
-ple Apology for all inaccuracies.

The Subject selected for the fol-
-lowing Remarks is the Disease termed

Enteritis.

This Disease is generally plac'd
by Nosological Writers in the Class
Pyrexia and of the Synochal Order
or Species and has two Varieties,
namely, the Phlegmonick and Ery-
-sipelatous or Erythematous.

The first Variety is attended
with pungent & some asert, twisting
pain about the Umbilical Region
particularly, and over the Abdominal
generally, with Vomiting & Consti-
-pation &c; which Variety or Species
is

is that to which, I design to confine my-
-self in the following remarks.

Enteritis like all other inflammato-
-ry diseases, is ushered in with a Chilly
Stage & subsequently Fever or Reaction,
Pulse small, frequent and hard (though
sometimes soft) and in the progress ir-
-regular, Vomiting - sometimes of a
bilious Character, Costiveness obstinate
at times slight mucous discharges from
the Bowels, great Anxiety, Eructations
frequent, Urine sparing & voided
with difficulty, the strength fails,
the Extremities become Cold - At
length the Vomiting becomes so violent
that the feces are sometimes thrown
up, the patient draws into a flex
position, relaxing the Abdominal Mus-
-cles, after a time the pain abates
the

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The Pulse (which had been irregular) is observed to change to Soft & more regular, the Countenance Hippocratic, cold clammy perspiration is the indication of the approach of Gangrene, Syncope & Suppression of Urine, distention of the Abdomen, with Singultus indicate the approach of Dissolution. —

This Disease is generally of a dangerous Character, for some times, in the space of a few hours it will terminate in Gangrene.

Another Result of Enteritis is Ulceration; which is discovered by a remission of y^e symptoms, irregular chilly feelings, distention, absence

Absence of pain, Pulse soft, the abscess bursting, the Patient swoons, and dies: but this is not a frequent result if the disease happens to fall into skilfull hands.

It is sometimes difficult to discriminate, between Enteritis and other visceral inflammations; for the inflammation frequently extends to neighbouring parts, creates a difficulty in ascertaining its chief seat. When the inflammation extends to the rectum it is difficult to distinguish it from Piles, though error in this respect will lead to no material error in Practice the treatment being the same. This Disease is distinguished from Colick, by the great sensibility to the

6
The touch over the Abdominal re-
-gion, in the former & the absence
of fever in the latter disease. It is
distinguished from Peritoneal In-
-flammation, by the pain in the
latter being more acute, inability
to move the Body or to raise it
which requires the action of the
Abdominal Muscles. ~

Prognoses

The Favourable are Shifting Pain,
Vomiting only at intervals, Alvine
discharges procured by Clysters &
Unfavourable are, when the Disease
is located in the ~~Large~~ ^{Smaller} Intestines, for
the nigher to the Stomach the disease
the greater the danger; Obstinate
Costiveness, but in this much depends
on the Habit of the Patient. Extreme
debility

debility, fluttering Pulse, Cessation
of pain - offensive Breath, pallid
Countenance, Irregular Pulse, clam-
-my Perspiration, Black & fetid
Stools &c &c

Causes

The same causes which predispose
in Inflammatory diseases generally
producing Debility might here be
enumerated but it is deemed in-
-expedient.

The Exciting Causes may be found
among the following, namely,
Cold from exposure to the changes
of the temperature; long continued
constipation, Vitiated Secretions,
Spasmodick Colick, Inverted In-
-testine &c &c

Termination

Enteritis may terminate in one
of

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of three different states viz. Resolution
Suppuration and Gangrene.

Resolution is the most favourable
termination, is frequently attende
-ed with a gentle diarrhoea.

Suppuration though a rare ter-
-mination, but is much to be
dreaded if the disease continues
for many days without yielding
to remedies; which termination
is indicated by irregular Shiv-
-erings, a sense of weight, pain
obtuse instead of acute. Should
the Abscess burst into the Cavity
of the Abdomen the danger is
imminent - but if into the Intestinal
Cavity a discharge of matter
from the Bowels indicates that
result

The Symptoms. We should proceed
on general principles, which hold
good in other Inflammations of the
Viscera. The first remedy is Blood
letting, which should be employed
as far as the habit of the patient
will bear; considering the Disease,
one of a high grade of Inflammatory
action, The Blood letting should be
repeated according to Circumstan-
ces, age, condition & habit being
taken into consideration.

Cathartics, should not by any means
be neglected, particularly such as
would give the least offence to
the stomach. For this purpose
Calomel stands foremost on our
list, interposing between the doses
Saline Cathartics, with a view
not only to assist its purgative
effect

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result, Stoughings follow, of the
coats of the Intestines - Acetic acid
& the subject of disease lingers
for a time to suffer a painful
dissolution. Gangrene is
more frequently the result of
Enteritis than of any other Infla-
-mation the tendency to which
is indicated by the Violence of the
Symptoms & their not Yielding to
remedies. This result is indi-
-cated ^{frequently} by Cephalic pain, pulse
intermitting, Cold clammy Per-
-spiration, Black thin stools
Singultus, Syncope which
last frequently closes the scene

Treatment

On the treatment of Enteritis we
must proportion it to the Violence

effect, but also to profit by their febrifuge properties. Mild Enemata are useful aids in effecting the intention just mentioned.

The Saline Purgatives most certainly do tend to allay the action of the Arterial System, therefore proper in all Inflammatory diseases. — Clysters might be call'd in to aid our intention here occasionally, but should be used with caution, lest the larger Intestines should be the seat of inflammation.

Fomentations will be highly useful particularly in the early stage of Enteritis, as also are Refrigerants.

Local Bloodletting is no doubt a useful remedy in such cases of Enteritis, where gradual Abstraction

might

might be considered expedient
 & after general Bloodletting had
 been carried as far as might
 be deemed prudent or proper.

The dread of debility in the cure of
 Enteritis, might be attended with
 a fatality much to be regretted.
 I am of Opinion, that there is but
 little danger to be apprehended
 from debility, generally speaking,
 in the treatment of Diseases of
 high Excitement.

Warm Baths might be employed
 with advantage before a severe
 degree of debility is brought
 on by treatment, together with
 the use of mild diluent drinks
 to induce gentle Diaphoresis.

but

but should there be much anxiety evinced by the Patient, the baths would, either local or general be inadmissible & should give way to the more active operation of an

Opispathic of large size, which should be large enough to cover the whole surface of the abdomen.

Some writers have recommended the use of Opriates both alone & in combination, no doubt from a mistaken idea, that the disease in question, should be arranged among those of a Spasmodic

Spasmodic Character. Opiates
 might possibly be beneficial, in
 irritable Subjects, but I would
 recommend much caution
 in the use of them, and
 then, not until free evacuations
 had been established and even
 then would combine with the
 Opiates, some Purgative article,
 one of which should be Calomel
Convalescence.

During Conva-
 -lescence, a most rigid adhe-
 -rence to light & diluting nutri-
 -ment should be enjoined, for
 the disease is apt to recur from
 a

a very slight cause. Continu-
-ness and exposure to cold
should be carefully avoided.

Dissections have shown,
beyond doubt, that the disease
in question is one of a highly
inflammatory character; tend-
-ing to run rapidly into the
Gangrenous or Suppurative
state. The inflammation, in
Enteritis not only affects the
intestines, but is apt to extend
to the neighbouring viscera
Omentum, Peritoneum &
Mesentery &c —

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A Thesis

on

Insanity, as illustrated by Phrenology.
Submitted to the examination

of
James Kemp D.D. Provost;
And to the Regents

Of the University of Maryland,
For the Degree of Doctor of Physick,

April 3^d 1825.

By
Lunsford Pitts Vandell
of
Murfreesborough, Tennessee

"Tentare vias intactas"

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Handwritten text in the lower section, possibly a list or a set of instructions.

Handwritten text in the lower section, possibly a list or a set of instructions.

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To Charles Baldwin M.D. Professor of the Institutes
of Medicine & Clinical Practice in
Transylvania University:

Who is high-minded, honourable & benevolent,
A zealous & successful cultivator of his profession;
A writer, chaste, classical, and elegant;
A teacher, dispensing learning & science, and
Giving celebrity to the Country in which he lives;
As a small memento of esteem

and
Gratitude,

This is most
Respectfully dedicated

By
One who is
Proud to acknowledge him the founder
of his
Medical education,

and
The author of many of the views
contained in
This dissertation.

The Author

Baltimore, March 12th 1825-

Preface.

In the following production the author makes no pretensions to great originality. A subject so often treated of by professed & learned authors is not susceptible of much novelty of invention by a mere tyro in Medical Science. Many opinions started by other writers, however, are supported by ^{additional} arguments, facts & illustrations; some hints have been amplified & extended, and an effort made to establish a system of Pathology & Therapeutics upon a basis of Mental Physiology. How far he has succeeded in this is for his able & impartial Critics & Preceptors to determine. He hopes they will allow him credit for some industry of research, at least, & for a clear application of the phenomena of mind in a state of health to the illustration of mental disorders.

It will be easily perceived that his theory is founded upon the system of Mental Philosophy lately originated by Drs Gall & Spurzheim—a doctrine in which, in all its details, the author cannot say he has perfect confidence, but so far as it relates to an exposition of the mutual cooperation of mind & matter in all processes of intellection, notwithstanding the obloquy & ridiculeaped upon it by its enemies, he hesitates not to offer it as his opinion that it affords the best exposition of

the principles & faculties of the human mind yet
spread the world. And since true pathology must al-
ways grow out of a knowledge of natural healthy action,
we may not be considered sanguine in the indulgence of
a hope that this system may point-out a happy &
successful method of treating the most dreadful dis-
order "that flesh is heir to." The fascinating spell
of spirituality will, at least, be dissolved & the minds
of medical philosophers be directed to matter, the seat
of all diseases. For the want of some lucid exposition of
the connexion between mind & body, like this, the cul-
tivators of medical science were suffered to grope in
darkness & uncertainty, treating of these disorders
under the vague title of affections of the mind,
the divine particula ~~separata~~ itself, unapproach-
able by the energies of our art.

If in the following pages any thing be found
supportive of the science of phrenology, or illus-
trative of its application to a plan of practice
whereby we may be enabled

"To raze out the written troubles of the brain,
And with some sweet oblivious antidote
Purge the stuffed bosom of that perilous stuff
That weighs upon the heart;"

the author will consider the time & labour which
he spent in their composition not unprofitably
employed.

Metaphysical Poem.

Mind in all ages of the world has been a subject of the Philosophers study & attention, & the theme of the Poets and Orators praises & admiration. Its nature, essence, faculties, and attributes, formed a matter of serious inquiry & investigation among the cultivators of Science of Greece & Rome - From that period to the present day it has had its admirers & its votaries, & continues, ^{still} to form one of the most interesting & profitable branches of study. The disorders too which obscure its manifestations have not been overlooked or neglected. But notwithstanding they have been industriously investigated & a class of disorders continues to remain enveloped in a thick cloud of ignorance & obscurity. While the treatment of other diseases has advanced to a considerable degree of acuteness & success, that which the light of our knowledge has enabled practitioners to employ in these, is vague & inefficient. This disparity is, however, of no ancient existence. A few years since saw each involved in a common obscurity - It was not until Medical philosophers ceased to speculate & theorise & resorted to the sober method of experiment & induction, that medicine assumed the shape of science, & began to be practised with advantage & success. And we hope we shall not be considered dogmatical if we give it as our opinion that the same course must be pursued to lead to a clear knowledge of the nature

nature, and a correct method of treatment in those diseases
which assail the mind. The pathology of those disorders which
sturb the economy of the body has for its foundation a
enough knowledge of all the corporial organs, their func-
es & their laws; and in like manner we must look to the
erations of the mind in a state of health & perfection for
first understanding of its derangements—

But let us enquire for a moment if Mental Philosophy, as
posed in the most popular works upon that subject, ex-
bits a clear & intelligible physiological picture—such as
uld enable us better to understand ~~better~~ the nature of
ntal disorders—such as would constitute a solid basis
a philosophical system of pathology? Certainly
at system does not promise much light or assistance to
branch of science in which the faculties of the hu-
an mind are divided into Memory, Judgement, Imagin-
tion &c; since observation teaches us that a disorder
one of these faculties may refer only to a particular
bject, while on all others it retains its truth and
tionality. Thus a disappointed warrior may attack a
ck of ship for his enemy, & yet be a philosopher
in his mind can be brought to bear upon another point.

The great errors & deficiencies which run through
metaphysical systems of Locke Reid Stewart &c
under the subject confused & unintelligible are, those
making the mind a single general power, destitute
faculties except as acquired by habits of study; & as
pendent of matter in the various processes of intelluction.

3.
That these are errors, & such as must, while they prevail;
or prove an insuperable barrier to a definitive knowledge
of mind in a state of health, & to the proper establishment
of a solid & extensive pathological system of mind, must
be admitted by every one at all accustomed to observation.
But these errors however gross are necessarily consequent upon
the method pursued by the Metaphysicians in their studies &
investigations of mind. In a state of health & perfection the
mind is unconscious of its dependance upon the body for
active intelligence, and so far from a knowledge of the
necessity for this mutual cooperation being of service to the
superior, it would serve only to perplex & to distract him.
- would find it impossible to engage in any analysis or
investigation while he felt that the brain was engaged - just
as an attention to the exercise of vision would destroy all
pleasure arising from the view of a painting or land-
scape. An exemplification of this fact is daily to be
met with in affections of the brain, where we see the
mind always accompanying it, & suffering a correspond-
ing derangement in its economy, from the lowest grades
of simple inactivity, consequent upon headache, up to
raving mania or delirium, the effect of phrenitis, or
cerebral disorganization. Here the feelings declare that
the brain is involved, & reference is immediately made to the
brain as the seat of the ailment. In like manner the student
& pursuing too long his investigations perceives a weariness
& inactivity of mind which he feels to have its origin in
fatigue & exhaustion of the sensorium.

These facts of themselves, independently of those furnished
Surgical literature, in which the mind always participates
the lesions of the brain, or, ^{of} the fact of the mind's devel-
ing its powers in proportion to the growth & maturity of
the brain; & falling off in energy & activity as the body
clines in old age, incontestably prove the agency of
matter in all the operations of Mind. To these phenomena
which have been universally observed & received as truths,
would be an act of supererogation to add that affor'd
Monomania, where one faculty only is disturbed, the
others retaining their accustomed vigour & exactness.
These circumstances, then, taken collectively force us
dissent from the principles of those philosophers
is as to the paramount excellence of Mind, & its ade-
acy to thinking & perception without the aid of matter,
well as from the beautiful sentiment of the Poet,
The souls dark Cottage battered & decay'd,
Lets in new light through chinks that-time has made?
For it has always appear'd to us from our limited obser-
tion that the tenant suffers in proportion, here as
other cases, as his habitation is "battered & decay'd."
And although we find nothing to object to in the phi-
sophy which teaches that
Each wave of time some faculty destroys,
Drowns now the wish & next the sense of joys,
Breaks one by one lifes fragile wires that bind
The sinking body to the soaring mind,
Till one vast billow mightiest of the whole
Bursts.

[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines of light brown ink on a yellowish background. It is likely bleed-through from the reverse side of the page.]

"Bursts the strained cabinet & frus the soul" 3

et as it refers to a future, an attend, & as we are taught to
live, a more perfect state of existence, it cannot influ-
ce our opinions of physical phenomena. And that
y doctrine which teaches us to look forward to the Sepa-
tion of the soul from its corporeal tenement, as a period
it which is to consummate its purity & perfection, is
unded upon the principle of its connexion with matter.
r deprive mind of its material coadjutor, allow it sub-
t to all the changes & calamities, per se, to which it
pears incident, & we at once overthrow the doctrine of
immateriality, and as successfully a belief of its
mortality. Matter alone is susceptible of mutation, &
sequently of passing from a state of health to a state
disease. - whatever is subject to these changes may be
lately destroyed, & of consequence, to admit that mind
capable of any physical alteration independently of
atter, is at once to strike at the root of its eternal du-
tion. In fine then, it appears that whatever
anges the mind suffers, - of health or disease, growth
decay - its energy or imbecility, gravity or spright-
ness, all depend upon attend conditions of the brain
- difference in the texture of the Sensorium -

The next error which I have mentioned as prevailing
the systems of the Spiritual metaphysicians is that
describing the mind as "a single general power", a
bulw rasu", possessed only of capacity and
ctivity. This error, like the first, is corrigible only
by,

⊕

This apparent paradox, of the unity of mind & yet its endowment with a plurality of faculties, is easily reconciled upon the principle of its association with matter in all its operations. Though in its essence simple, indivisible, - possessing no parts, yet connected with an organ complicated in its structure, the manifestations of mind will appear various & multifarious. Analogies for this are not wanting. The vital principle, which is simple in its essence when associated with the various organs of the body produces a variety of results. The principle of gravitation is equally productive of a variety of operations when applied to mechanics. And thus we might proceed to enumerate various other examples of this principle -

6
observation & experience. For as consciousness gives us
knowledge of the faculty which is active, so in like
manner it can never inform us correctly of the number be-
-ing to the mind. As one faculty only can be in ope-
-tion at the same time this faculty is all of which con-
-sciousness can take cognisance; & thus the mind turned
-upon itself presents the appearance of a single gen-
-eral power, susceptible, as well, of one application as another
-but that this appearance is false & deceptive is pro-
-ved by observation & all sound reasoning. We observe
-the minds of different individuals various degrees
-strength & activity, - characters various & discre-
-ant, & these varieties, - holding as we do the mind to
-an unit, & consequently the same essentially in all -
-are wont to attribute to a plurality of faculties. [⊕]
- In the same individuals we often observe the power
- manifesting different feelings & faculties to be
- various & unequal. Thus, a capacity for languages
- shall be great, while the person is unable to compre-
- hend numbers, he shall be possessed of avarice while he
- is defective in courage, shall feel the impulse of Natu-
- ral love while he is insensible to the emotions of
- benevolence. And yet these are all faculties of the
- human mind, possessed in a more or less active state
- by every individual. The exercise & cultivation of
- one faculty, & neglect & disuse of another ~~strengthens~~
- strengthens the one while it enervates the other.
- Some of the intellectual faculties arrive early at
- maturity,

While others are late in acquiring their vouted sign⁷.
I profusion. But if the mind be a single general
power, susceptible alike of all directions or applica-
ons, in what manner can we explain this diversity
energy in the mind of the same individual? If he
is capable of one intellectual exertion with suc-
cess, if he excel in one branch of study, in one
region of science, his mind being a single
energy; why not equally in all? How can that
which is single, possessed of no attributes but activity and
intelligence - manifest in the same individual a plural-
ity of faculties, varying in strength, and appearing at
different periods of his existence? To these interroga-
tions the friends of the Spiritual system reply, all
this diversity in the faculties of the same person, &
this disparity in the minds of different individu-
als, is owing to the force of example or education, or
industry, or to the powers of attention & association -
the mind being blank, open alike to every im-
pression, capable of any direction, the same naturally
every individual, & dependent solely upon educa-
tion for its character; then minds tutored by the same
discipline, & placed under similar circumstances
must invariably exhibit the same marks of in-
tellect. Observation, however, teaches us the incor-
rectness of this. We see some persons favoured by the
most auspicious circumstances making poor ex-
hibitions of talent; while others opposed by every
~~difficulty~~

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estate - by indigence & by obscurity, rising to repu-
tion, to fortune, & to fame.

There must, then, be some original disparity in the
inds of different individuals, or some difference in
in powers of application. And to what else can be
tributed the difference of these powers but a radical
dissimilarity & inequality in the constitution of the mind?
There is some superiority in the mental texture of those
who so far excel their more humble fellows - some
eiser organization in the intellectual frame of a crew-
, a Franklin, or a Locke, which adapted them to ob-
vation & successful inquiry; - of a Shakspeare, a Mil-
, or a Byron, which enabled them to win the admi-
tion of the world; - of a Maturin, or a Raphael, to
whom they owed their powers of painting & of music -
Upon the principle of the minds destitution of
faculties coaptated together, & exercising over each
ter a mutual influence, in what manner are
to account for those commotions of feeling, those
conflicting passions which must have disturbed the
appings of every one? The exercise of every facult
of the mind is pleasant in itself. Hatred, jealousy,
venge, all afford to the mind during their ascendent
etion a species of delight - and it is only upon a cool
dispassionate reflection upon our conduct that
wickedness or impropriety appears. The miser
his treasures, & grasping after wealth which he means
to enjoy, sees not the ridiculousness & folly of
his

is conduct while Covetousness is the predominant
faculty. And does the lover with the same faculty which
tempts him to weave fair garlands for his lady's brows - to
wattle forth his love-sick soul in tender Madrigals, and
which renders him ridiculous, turn about after the subsi-
dence of his feeling, & review with shame & regret his
behavior and his passion.

Nature, in the creation of her *Chef d'oeuvre*, has not
far erred from her common course of regularity & order
to leave his mind indeterminate & unfinished, to the in-
fluence & direction of fortuity or accident. To every
branch of science or art may the "*poeta nascitur
- fit*" be applied, with the same truth as to the dealers
of fancy. To every one whom nature has destined to rise
above an humble mediocrity, a track is laid out, which,
to be successful, he must pursue. Truths so indispu-
table as these it would be superfluous to illustrate
with examples from nature.

Notwithstanding the existence of faculties, in the
common sense of the term, is explicitly denied by the Mit-
hysicians, they nevertheless enumerate certain op-
erations of the mind, certain general functions,
which they have denominated faculties. They have
used the words faculty, function, principle, & law
indiscriminately thus confounding attributes wholly
distinct. A faculty is the power or capacity for
the performance of certain actions, possessed of in-
herent principles & functions, & regulated by certain
laws.

* A principle governs the faculty of vision leading it irresistibly to seek the case half immersed in a denser fluid than the atmosphere, presenting an angle.

principle is merely an ultimate fact, without activity^{ed} without functions. While a law is simply a general rule, characterising a number of phenomena, which are ultimate facts. For example; there belongs to our nature a faculty of seeing, of tasting, & of feeling, and each of these faculties we are capable of exercising or restraining at pleasure. Each of these faculties are regulated by their own proper principles & laws. Thus the eye beholds the objects which surround it when it is opened in the light, & a law compels it to perceive those which are near it with greater accuracy & precision than those which are distant. The mind is possessed of a principle by which it is enabled to recall the ideas of the reflecting faculties, to direct & regulate their operations. A like principle exists in the human mind placing them ^{passions & emotions} from under the control of the will - giving them energy, & force, & vividness, setting their impressions beyond the power of its call. How great & ever a difference may exist in the energy & activity of the faculties of different individuals, the laws & principles which govern them must be the same. A faculty is as different from its function as the liver is from the bile, or the stomach from the process of digestion, which it performs. It is something specific & determinate, which the individual being possessed of, is indeed capable of the performance of certain actions, & which wanting is ignorant of its nature, & incapable of all its functions.

This, however, is by no means the case with the faculties of

[The page contains approximately 25 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the document. The text is too light to transcribe accurately.]

the Metaphysicians. With them one faculty is II
the function of another, and may all be traced back to the
power of Conception. An idea in their system passes
through a suit of faculties, & is first conceived by one,
associated by another, imagined by a third, & abstracted
by a fourth. But from this it is abundantly evident
that all the faculties which they have enumerated are
merely functions, & that their views concerning them
are vague, indefinite, and indistinct.

In the systems of old-school metaphysics, attention,
memory, Imagination, Judgment & Association are enu-
merated as faculties. But attention is merely the ap-
plication of the faculties which perceive, and as the
reception of objects must exist in the mind previ-
ously to the application of attention to them, it can-
not be a faculty, but simply the function of per-
ception. Memory is incapable of exercise until the mind
is stored with facts giving field to its operations, & thus
comes the functions of perception attention, & af-
fection. The same objections apply to all the above
mentioned faculties, the exercise of the one being re-
quisite to the operation of another. Besides, it has
been within the observation of every one that a Mem-
ory, Imagination or Judgment upon one subject
does not necessarily imply the same upon all. The
reverse being most commonly true. A painter or
musician who shall remember all the nice shades
of a portrait, or the slight variations in a tune, will
often

then be incapable of retaining a knowledge of languages
 mathematics. A mechanic whose ingenuity & judgment
 the design of his machines shall astonish the world,
 may yet be a novice in logical reasoning, or in the com-
 on affairs of human life. The Poet, the fertility & sub-
 nity of whose imagination may delight the minds of his
 aders in the more elevated walks of poetry, will often
 ail in humble pastoral.

Provided that these were faculties how could these things
 cur? In what manner would it happen that a man whose
 judgment formed correct decisions upon certain sub-
 ets should be defective upon another, that the memory
 rich at a single effort could bring in review the whole
 catalogue of ^{past} events, or the imagination with intuitive pow-
 -_{er} seeing the whole horizon of futurity, should yet when
 rned upon other matters prove treacherous & inefficient?

Division of Insanity.

Mental disorders differ from each other according
 the organ affected, & to the force and intensity of its
 rangement. But as the organs upon which the various
 aults ^{of the mind} depend for their activity are so little under-
 stood, their number being not yet ascertained, & their
 unctions involved in the deepest obscurity, it is evi-
 nt that any Classification formed upon this plan
 ust necessarily be imperfect. Yet as the common ar-
 rangement of these disorders is by no means complete or
 tisfactory, & as this holds out a better prospect for
 rovement, & of arriving at perfection, it is the one
 which we shall adopt.

The division of mental disease into Mania & melancholia is highly imperfect, since these alternate with each other - that which is simple Melancholy today, changes its features by tomorrow, into furious mania - Besides, a derangement of some faculty upon particular subjects does not necessarily imply a complete mental disorganization. A man whose judgment leads him astray when under the inordinate (morbid) influence of Love, Ambition, or Revenge, will yet show himself rational and wise on other matters. The character of Insanity is directed by the organ in which it has its seat, & its grade depends upon the intensity of the exciting cause, together with the previous predispositions existing in the part. If the cause be slight, & the power of resistance of the organ be great, the disease will be gen-
 erally melancholy; but if it be overwhelming, & the ability of the part to resist its influence be feeble, the person sinks into Mania or idiocy.

The peculiar physiognomy of mental disorders depends, ^{as emphatically} upon the organ deranged, as does Hepatitis Gout Apoplexy upon the Liver the brain or the Stomach - their peculiarity of symptoms. If the organ be the heart whose exercise spreads pleasure & "the delightful sunshine of good-will to all" over the mind, the individual, in his insanity, will be cheerful & happy - disposed to extend favours to his fellow-men, & to meliorate the condition of all mankind. If, on the other hand, the organ be

[The text on this page is extremely faint and illegible due to the image quality. It appears to be a dense block of handwritten text, possibly in a historical or scientific context.]

which in its operation excites painful feelings
jealousy or hate, of suspicion or revenge, the character
the maniac will present a combination of every thing
that is horrible.

Since then it appears that individuals may, ^{be} deranged
on one subject & sane upon another, or manifest dif-
ferent degrees of mental aberration on various subjects,
at division which does not admit them must be imper-
fect. The arrangement which appears to me to correspond
with nature, is the one made by Esquirol, & lately
adopted by Spurzheim; in which Monomania is used
& melancholia, & Polymania for mania, by which ^{rather}
understood a derangement of all the faculties of
mind.

In the man deranged from the inordinate
rise of this feeling of vanity some morbid change
has been effected in the organ of the brain through
which the operations of this feeling have mani-
fested. So also the lunatic whose hallucinating idea
associated with the ideal excellence of female nature,
the excessive impulse of disappointed love owes his
order to undue excitation in the organ of amativity
in proximity & intimate relation in which the organs
of the mind exist towards each other, precludes ^{however} the pos-
sibility of one labouring long under disease without call-
ing some of its neighbors into sympathetic association.
Thus, irregular action communicated to one region of the
subal map, is carried by quick vibrations through
the concatenations of the Chain -

The Causes of Insanity—

15

The causes productive of mental disorders may be ranged under two classes, — physical & moral; under first head including all such as Mediate or immediately injure the tone or organization of the brain; & comprehending under the second, those which producing a powerful or protracted mental emotion or excitement gives to some one organ an undue ascendancy. The physical causes have again been subdivided to the dynamic — or such as act immediately on the nervous system, & into the secondary or such as act thro' a medium of sympathy.

Though we use the term moral to characterize some the causes of Insanity, yet we would wish to be understood as having as direct a reference to some previous derangement in the physical laws with ^{which} the mind is affected, as when we speak of its disorganization by mechanical violence, or from the effects of inflammation. Notwithstanding mental excitement may be traced out as the true remote cause, yet before that regularity & obliquity of mind characteristic of lunacy appears, some derangement must first be wrought in the texture of the brain. The individual deranged from love, ambition, or religious enthusiasm professes his disorder as strictly from material imperturbation or disarray, as him who is cursed with it by inheritance. Moral causes may provoke a faculty of the mind to excessive action, but the disorder is seated primarily in the brain.

Dynamic Causes.

These causes may be again subdivided into, first, such diminish the energy of the brain by weakening its vessels through the excessive action of the heart; 2^{dly} into those mechanical injuries which at once destroy the cerebral texture, and 3^{dly} into original malconformations. Under the first class of this division is meant to be included fever & inflammation of the brain. Here, as in all other cases of inflammation, there exists an infarction of the vessels in which the inflammation is seated. This is an inevitable consequence of inflammation; for all the causes productive of this affection are such as are debilitating in their action. This infarction or engorgement of the blood vessels of the brain, is however, by no means universal; for the Cranium being a plenum will admit of no more blood at one time than another, & consequently in proportion as it is accumulated in one part it is forced out at another. The language of unqualified determinations to the brain producing headache, delirium &c, is neither precise nor correct, & should therefore be abandoned. For the reason which I have assigned it is evident the cranium must at all times contain equal quantities of blood; though this were not the case, & accumulations of this fluid could take place, it would not be upon the principle of increased determination to the part, but the disability of the vessels to perform their natural & healthy function.

17.
That the march of the circulation is carried ^{on} through
the whole system by the vis a tergo, or propelling power of the
heart, is a fact in Physiology now clearly established. And
since this is the case it must follow as a matter of course
that the progress of the blood must be the same in every part of
the body, - in the head, the arteries of the foot, & radial of the
arm. Then whenever we observe a disproportioned accumulation
in any part, we are to refer it to the debilitated condition of its
vessels. What the previous change in the life of the part is,
which produces the weakness of the vessels & the phenomena
of inflammation, the scrutineers of the Anatomist or Pathol-
ogist have never yet been able to discover. In some cases
of inflammation the tone as well as the sensibility of the
part appears to be augmented. Thus when it supervenes
upon a healthy brain its action is to oppress & derange
the functions of the organ. The degree of excitement ex-
isting in it - in an ordinary state is the medium quan-
tity of health, but the morbid change increasing this vigor
beyond the healthy standard. A case in exemplifica-
tion of this principle is related in the 45th case of the Ed-
inburgh Review, of a young lady restored to activity
of mind, by ^{the use of her Memory} inflammation of the brain in an attack of Ty-
phus, who had laboured under fatuity from an early
age. She, however, relapsed into her former state of im-
becility when the excitement of the fever subsided.

Mechanical violence. This is an abundantly produc-
e source of mental suffering. The experience of every
practical Surgeon can furnish him with numerous ex-
amples of Minds

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deteriorated in condition or changed in character from lesions of the brain. This being the organ through which the faculties, & feelings, & sensations of mind are manifested, every cause which produces a permanent alteration in its structure must be attended with a correspondent variation in the sentient principle itself. Dr Spurzheim relates the case of a boy who sustained a loss of mental energy by a blow upon the head, but received in exchange an increase in his propensity to quarrel. Some change in the tone of the organ of Combativeness was probably the cause of this singular phenomenon. In the surgical observations of Acrell, the case of a boy is mentioned who suffering some cerebral disorganization requiring the Trepan for its relief, felt after his recovery an irresistible propensity to steal. An analogous change must have been wrought in some other organ of the mind in this case. Dr Jenner relates the history of a similar case. Pere Mabilion, who afterwards evinced such intellectual vigour & activity, is said to have been dull & unpromising until he suffered a fracture of his Cranium from the falling of a tile. Professor Caldwell, ^{in his lectures, mentions} the case of the son of the celebrated Dr Priestly, who, according to his father's own account, was dull & unapt until his head was fractured from accidentally slipping from a window. In his lectures Professor Dudley relates a similar case of a man. Receiving such a blow as destroyed several inches of the Frontal & Parietal bones, with nearly half of the anterior lobe of the Cerebrum, depriving him of Sensation for the time.

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but ultimately, instead of affecting the mind injuriously,
it increased his fondness for, as well as his powers of, argu-
mentation. In the loss & regeneration of so great a portion
of the brain more organs than one must have been affected,
but the Professor, more observant of points of ^{than speculation} practice, suf-
fered this to escape his notice. In the course of a year
the new organization of the brain of this patient ceased vig-
orously to perform its healthy function, he relapsed
into fatuity, & ultimately sunk under the affection.

These are rare & singular examples of the fortu-
nate issue of mental injuries, furnishing strong
& convincing evidence of the connexion between mind
& matter, & in this condition, of the plurality of its
faculties. The cases in which a loss of intellectual
vigour has been sustained by the sufferer from lesions
of the brain are numerous. Few are happily bless-
ed with an augmentation of mental energy in compen-
sation for the bodily suffering, in comparison with
those who are totally deprived of their reason.
I saw a woman in the Summer of 1824 wandering
through Tennessee a miserable idiot, produced by
a fall from a horse when she was a child. The
madness of the celebrated Hadfield who shot the
King, was occasioned by a blow on his head. Slight
injuries of the Scalp sometimes produce Insanity.
Hereditary imperfection in the organization of the
brain is a frequent cause of this disease. Where the
disease inherited is complete idiocy, it depends
upon.

[The page contains approximately 25 lines of handwritten text in a cursive script, which is mirrored across the entire surface. The text is illegible due to the extreme blurriness and low resolution of the image.]

a radical & thorough defect in the texture of the
rain, while to Mania a predisposition alone exists.
Of all hereditary diseases Insanity is most persevering,
or though it may pass over one generation, the second
rarely escapes, the disease clinging to the family till
by admixture or proper management the taint is neu-
tralized or drained away.

In the Cretins of Switzerland a remarkable exam-
ple of this hereditary affection is furnished. Their whole
frame indicates a want of tone & organization. Their
crania are small & deformed, or immense in magni-
tude & misshapen, with the whole cellular substance
of the body loaded with adipose or a fluid. They are
more idiots from birth.

Indirect Physical Causes.

The causes which indirectly, or through the medium
of sympathy affect the brain, & thereby disturb the
mind are more numerous. The brain being the origin
of all nervous & sensorial influence, is necessarily the
sympathiser of the whole system. In affections of
the Stomach, Liver, the alimentary canal, & the
uterus in the Female, the brain holds an intimate
consent. Chlancholia & Hypochondriasis derive their
names from their supposed origin - and although
this view is founded upon principles of the antiqua-
d humoral pathology, yet it shows the influence
which in a morbid condition this viscus exercises
over the functions of the brain.

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Whatever cause deranges the function of any
corporeal organ so as to involve the brain must of neces-
sity be productive of a mental affection. The liver, as its
sympathies with the brain are more numerous & power-
ful, is the most fruitful source, in its diseased condition,
of the mind's aberrations. But it is only necessary in cor-
poreal affections to enquire the extent to which the
mind is sympathetically involved, & we are acquainted
with the condition of the mind.

Moral Causes.

By Phrenologists, upon whose system of intellectual
philosophy my theory of Insanity is founded, the fac-
ulties of the mind are divided into three orders - propen-
sities, sentiments, & the reflecting faculties - the
first class attached to organs situated in the base of
the brain, the second occupying the vertex, & the
third that part situated anteriorly, or in the forehead.
The organs which afford exercise to the propensities of our
nature are said to be larger & composed of fibrils coars-
er & stronger than those of the sentiments, or facul-
ties of reflection. Upon this superiority of organization
may be explained the paramount energy & influence
of our passions & emotions. The texture of the reflecting
organs being more delicate & refined, the processes of in-
struction which they induce are more subtle & ele-
vated but at the same time less powerful & energetic.
Thus when attacked by disease those which in a heal-
thy state enjoy a preponderance of power with fine
character.

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Character to the Mental affections; - just as the most powerful muscles of the body draw it in their direction when attacked by convulsions.

In the ordinary healthy operations of mind there exists an equable balance between every faculty - a quiet & imperceptible state of commotion & activity - the reflecting faculties indirectly controlling the operations of those of feeling & propensity - but when one organ gains the ascendancy, the proper balance is destroyed, the quiet operation is disturbed & irregularity & disease are the result.

After having seen the comparative strength of operation in the material coadjutors of the mental faculties, - the vigour of those belonging to passion & emotion - the delicacy of those which cooperate with judgment & reflection - we shall find no difficulty in falling upon those which are most frequently productive of mental alienation. The circumstance, too, of the passions being but indirectly under the control & governance of reason & the will, adds to their facility of inordinate excitation. An object presented to the mind fitted to elicit passion or feeling will be productive of the event in spite of the remonstrance of our wishes or our judgment. Thus the bravest warrior experiences some misgivings of courage - some little fear - when placed in the midst of battle & of danger - the appearance of Helena upon the walls of Troy excited emotions

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of love in the breast of every Grecian Sage
 and warrior though by her perfidy it was they were
 suffering the privations of war - and Cyrus, distrust-
 ing the power of his philosophy, his reason, & his
 honour, refused to see the beautiful captive lest her
 charms should make him err.

This course of a priori reasoning will be found
 supported by observation & experience - A Mad
 mathematician or astronomer upon the subjects of
 his pursuits, would be considered a prodigy - The
 incentive to abstract study involves none of those
 passions - engenders none of those feelings which are
 apt to run into morbid excess. And in addition,
 no education or training of which the reflecting
 man is susceptible would ~~not~~ give them an
 ascendancy over the mind, such as could be pro-
 ductive of Insanity. They may be attended by
 those of superior power - they may invite to the
 participation of their excitement - those which in
 their inordinate excitation endanger the sound-
 ness of mind. The Mathematician in his dreams of
 perfection, while applying his science to purposes
 practicable only in his ardent imagination, may
 bring down upon himself the lunacy of Vanity. As-
 tronomy, the most sublime as well beautiful of sci-
 ences, may excite in the minds of its votaries such hopes
 of utility - ambition of ruling the elements of heaven
 & destinies of men, as will dethrone reason - of

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[The page contains approximately 25 lines of extremely faint, illegible handwriting in a cursive script. The text is mirrored across the page, suggesting bleed-through from the reverse side. No specific words or phrases are discernible.]

furnish melancholy examples of of this truth -
 Orators, Priests, politicians, warriors, divines, & all
 such as pursue professions calculated to call forth
 the most violent feelings - passion, or enthusiasm, are
 extremely subject to alienations of mind. Revolu-
 tions and all great political events, involving the
 great interests of nations & of men, exciting
 to the angry passions of the human breast,
 stirring ambition, hatred, revenge, are proty-
 pe sources of Insanity. But of all the fac-
 tories of the human mind, love is the passion
 whose inordinate activity leads often to the
 disease of the mind. Pinel remarks that
 of 113 patients in the Bicetre Hospital of France
 4 were from love, leaving but 89 to all the
 disappointments, passions, & distress, occasioned by
 the French Revolution. Dr Rush gives a comparative
 view of causes which confined the patients to the Lu-
 natic Asylum in Philadelphia in 1782. Of the
 victims of this disorder 7 were from Love,
 the organ of Love may be considered the founda-
 tion of every organ of the mind, commanding
 the most extensive range of sympathies, call-
 ing into action almost every organ. Arriving at
 maturity at that period of life when all the
 passions & emotions are in full prime, - when the
 vigorancy of feeling is at its height, & when the
 mind is most susceptible of irregular impressions,

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disappointment is easily productive of madness. As the character of the mind - its energy its disposition &c - depends upon the form of the head, has been inquired whether this can ever influence Mania. I can see no reason why an dly formed head might not give the same predisposition to Mania that a contracted Chest does Consumption, or a ^{cranium} an commonly large to Hydrocephalus. An unusually small & misshapen head is uniformly accompanied by imbecility of mind. And since this is the case with small one, I can ~~see~~ find nothing to prevent the conclusion, that, one of defective, will be accompanied by a mind defective in its character. Thus, if the organ of Ambition or Love be disproportionately developed, & the brain receive the shock of cause productive of Insanity, it will most probably manifest itself in the excessive action of these organs. This is nothing more than a more extended view of the irregular Central excitement of Cul- which is defined by him to constitute the proximate cause of intellectual disorders. The heads of such persons as are deranged from inordinate activity of any one faculty are und fully developed in the region corresponding to seat of the faculty. The Cerebellum of the Skull a man in the possession of Dr Gale, who imagined had six wives, is unusually large.

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the organ of Philoprogenitiveness in the Skull
 a woman deranged upon the subject of her children - imagining herself pregnant with five - belonging to the same gentleman, is boldly developed
 In those females who are so unfortunate as to suffer prior to overcome the delicacy & virtue of their nature, are found to have heads full at the base - A case of this kind fell under my own observation in the Spring of 1824. When I saw her, she was insane, hallucinated with the idea of some being obstinately suing for favors which, without the sacrifice of her virtue, she could not grant. The infirmities of her nature, however, finally proved strong; she yielded to the importunate calls of passion & was destroyed.

Seat & Pathology.

To give, here, a complete enumeration of the symptoms of the various forms of Insanity, would be a useless expenditure of time. Every aberration of the mind from its natural healthy state is more or less of an alienation. In one individual the degree of insanity is so slight as scarcely to be perceptible; in another when the cause is more powerful, & the energies of the brain weaker, it approaches to Mania - in a third its character is mightily fantastic & gay - while in a fourth it assumes a gloominess & horror which nothing can dispel; owing entirely in each to the susceptibility

① Dr Pitts, in the Medical Recorder.

the brain to disease, or to the organ in which
 the disease is situated. Thus we have the infinite va-
 riety of Melancholy, Mania, Tristimania, Lypemania &c.
 Various have been the theories of pathologists as
 to the Seat of Mental disorders. By Hippocrates the
 at & proximate cause was supposed to exist in the
 disordered condition of the Liver. The Spleen is men-
 tioned by other writers as the viscus primarily in-
 volved in Mental disorders. Or Prost locates the dis-
 ease in the Intestines - founding his opinion
 on the fact of their being observed inflam-
 ed in cases of Madness which have had a fatal
 termination. A disordered state of the blood vessels
 the brain is supposed by Rush & Armstrong to
 give rise to this disease. While by a writer in one
 of the Journals of the day ^(*) with much less sim-
 ilarity of truth, located it in the Mind itself.
 Diseases of the liver, & in fact of the whole range
 of the chyliferous viscera are apt, secondarily,
 to affect the brain, & through its medium the mind -
 but this is by no means conclusive of the proxi-
 mate cause having its seat & existence in these
 parts. Head ache is often occasioned by indigestion
 & faulting of stomach; affections of the liver ac-
 casion a pain in the left shoulder, Angina
 pectoris is attended by acute pain in the inner
 side of the arm, nausea & vomiting are often the
 consequences of affections of the kidneys or
 uterus.

But these phenomena do not declare that one
 disorder is primarily seated in the stomach from
 nausea & vomiting, that another from the sup-
 plying there, has its origin in the shoulder; but
 only shew the prevalence of that universal
 principle of the animal economy - Sympathy -
 the brain being the sole & exclusive organ of the
 mind - the only one of itself indispensable to the
 manifestation of consciousness, feeling, thought,
 & disease of the body, no disarray of its healthy
 motions, will be productive of mental disorder,
 until the brain itself is brought into morbid
 consent. Hence appears the folly of locating the
 remote cause of insanity in any of the abdom-
 inal or thoracic viscera; - parts which merely
 operate with the general whole to sustain
 the powers of the System, & are only secor-
ndarily instrumental in thought.

But of any theory yet mentioned that which
 appears to me to involve the greatest absurdity -
 & most false pathology, is the one which ef-
 fays to place the disease in mind itself - Mind,
 the opinion of the author, is immaterial &
 mortal - insusceptible of any change, revo-
 lution, or decay. Disease is an aberration from
 health - a change of action from that which is reg-
 ular & salutary, to that which is morbid; but as
 change is predicable of that only which has parts,

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belief of its violability by disease presupposes its
 sterility. But consciousness declares mind to be
 unit - the same essentially in the infant just be-
 ginning to think, & in the old man bending under
 pressure of years - possessed of the same attributes &
 feelings, without increment, or addition of parts in
 long lapse of time. Consciousness could not be
 his kind & faithful monitor, reminding us that
 we are the same thinking & accountable being in
 various stages of our life, were the mind composed
 of a number of parts & these subject to the laws
 of mutation & decay in common with other matter.
 The mind thus constituted could not present a
 single consciousness; but every faculty would be
 endowed with a consciousness of itself, and thus,
 instead of one, referring always to the same being as
 we are the same, we should have a variety of conscious-
 nesses. Neither could the mind connect the know-
 ledge of the past with its present feelings and
 actions, for each particle of the mind possessing
 knowledge of its own existence & attributes, could
 not, when it had served its being, transfer to its
 successor its feelings & its knowledge. Thus the
 mind instead of being the reflecting & anticipat-
 ing principle which we now see it, would present
 appearance of isolation, possessed only of a
 view of the present, unconnected with the past
 or the future -

[The page contains a dense, handwritten manuscript in a cursive script, likely from the 18th or 19th century. The text is extremely faint and difficult to decipher, appearing as a continuous flow of characters across the page. The ink is light and the paper shows signs of age and wear.]

The most acute philosopher has never yet been able satisfactorily to explain the phenomena of mind upon any known properties of matter. And because in its present imperfect state the mind is incapable of acting without the cooperation of matter, he acts very unphilosophically who infers that it is the attribute of matter. In its present condition matter is the organ whereby mind holds intercourse with the external world, it is essentially no more necessary to its existence than is the instrument ^{that of} the musician who plays on it.

Every cause, therefore, productive of a disorder in the mind effects, either primarily or indirectly, some physical change in the brain. Nothing out of this can reach or operate upon the mind. That this change is before it has extended far, the accuracy of our anatomical observations has never been able to discover. In other organs it would probably be denominated a disease of function; but obviously to the accession of ~~any~~ disease a change must first be wrought in the organization of the part. In every part of the body disease first appears in the life of the part, in the nervous system, effecting there some change - weakness - disarray - upon which supervene the symptoms of disorders in every other texture -

We come now to a part of our Subject to which all have written a mere prelude - The introduction, the character of the disease has been delineated, its course, so far as they are accessible by signs or symptoms, pointed out, the imperfections created the ravages of the disease clearly laid down - now remains only to fulfil those indications for as is within the power of Therapeutics - which researches of the pathologist have thrown upon the Subject. Without what is to come all that is gone before would be negatory & useless. This is the Cynosure towards which all our wishes aspirations & efforts point, though in the attainment of it, we have much dark un-
traveled space to travel over.

unless it appears in the sequel that all the preceding physiology is susceptible of a practical application - fit to lead the way to the proper philosophical explanation of mental diseases - their cure their alleviations, it will be justly rejected as apothetical & speculative. When writing on a subject of such moment as the present, & pressed with a proper sense of the dread responsibility which rests upon medical men, I wish to rid myself of all idle theorizing - more than the health of the body - more than the enjoyment of mere sensual pleasures

The first of these is the fact that the
 government has been successful in
 its efforts to reduce the
 number of slaves in the
 country. This is a great
 achievement, and it is
 one that should be
 celebrated. It is a
 sign of progress, and
 it shows that the
 government is doing
 what is right. It is
 a step towards a
 more just and
 equitable society.
 The second of these
 is the fact that the
 government has been
 successful in its
 efforts to improve
 the lives of the
 poor. This is also a
 great achievement, and
 it is one that should
 be celebrated. It is a
 sign of progress, and
 it shows that the
 government is doing
 what is right. It is
 a step towards a
 more just and
 equitable society.

pend upon the judicious conduct of the
 physician, when treating - whether literally or
 practically in this walk of the profession -
 The cure of mental disorders will depend, of
 course, upon the nature of the exciting cause. And
 this as in all other departments of nature the
 sage - "causa sublata tollitur effectus" is strictly
 applicable. That alteration in the healthy struc-
 ture of the brain productive of disease must be
 removed, & the manifestations of mind will be
 strong, clear, & unclouded. If the alienation of
 mind depend upon any malconformation of the
 brain, or upon disorganization, the effect of me-
 chanical lesion, we shall not err, if, in the
 present state of medical knowledge or, per-
 haps, any degree of perfection of which it is
 susceptible, we pronounce it irremediable.
 It is only over derangements so slight as to mani-
 fest themselves only in function, that medicine
 tends its remedial influence. That disorder
 which seriously implicates structure is beyond
 the pale of our art. The Cretins of Switzerland
 whose idiocy depends upon imperfect organi-
 zation are incapable of restoration to sanity.
 When the disease depends upon morbid irrita-
 ting matter in the alimentary canal, it is
 removed with the dislodgement of the exci-
 ting cause.

When the result of protracted indigestion, cause extremely productive of a sourness of spirit & despondency of mind, & often of the milder grades of Insanity, the whole course of remedies for the removal of this disorder are put in requisition. If sympathetic disease of the brain have not become established, when the remote cause is removed, the mind will return to its former state of health. But if the disease of the stomach have existed long as by sympathy to effect a serious change in the structure of the brain, other remedies than those used in Dyspepsia will be required.

From what has been said the great necessity of attending early to mental disorders will appear evident - of muting them with a giants arm at the very onset - for when once an organic change of magnitude is effected, all chance for restoration is gone - And such is the delicacy of texture of the cerebral mass that, this disorganization sooner occurs in it than any other part of the stem - The brain is farther removed from the immediate seat of the operation of medicines, and it is therefore requisite that those means which are to act indirectly, & consequently with less force, should have a timely application - not notwithstanding the knowledge of the nature & treatment of these diseases, in the possession of the Profession.

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often put into early application, & till the
 change wrought in the part by the first shock
 the cause is beyond the reach of our art. Patho-
 gy, in the light which she has shed upon the
 nature of the disorder, has been much more be-
 lievable than Therapeutics in the means to re-
 move it.

Venesection in mania, when it is attended acit-
 ually is, by signs of high excitement, is the
 last anchor of hope. The turgid state of the
 bloodvessels of the brain must thus be removed.
 Bleisters & Mercury come in well next, as stim-
 ulants, to excite the debilitated bloodvessels to recover
 in tone & lumen. Opium when it depends
 on excessive irritability, or upon relaxation
 the vascular system of the brain may be
 useful. The cold & hot both have both been
 ehly recommended in some stages of this
 case. The cold bath must act upon the
 same principle as depletion remedies, ab-
 tracting from the force of the circulation.
 A warm bath, when used moderately, acts
 as a gentle exciter of the system and is ap-
 plicable only to the disease in a low grade.
 Emetics by some writers have been recommended
 Wilson Gendall, of Tennessee, as early as the
 year 1801 was in the habit of using this remedy
 successfully in mania a potu.

But in Insanity, as in all other diseases, the
 his skill & judgment consists in a judicious and
 well-timed application of the various remedies to the
 different stages of the disease. That which in simple
 melancholy or slight aberration of intellect would
 be attended by success, would, in furious mania
 be nugatory & inefficient. And on the other hand,
 would be a useless expenditure of professional
 skill, & an improper punishment of the pa-
 tient, to treat a slight case of Monomania with
 the severity of a total derangement.

In the moral treatment of Maniacs all
 writers are now agreed that they should be governed
 with mildness & lenity, where harsh treatment is
 dispensable. Corporal punishment is in very
 few cases, admissible. Persuasion is the principle
 which to govern them, & the proper excitation of
 interwailing passions & emotions. It is needless
 to set judgment, or one of the reflecting faculties,
 in opposition to a raging passion for the purpose
 of taming it. The voice of reason is drowned &
 lost in the confusion of impetuous feelings. To
 attempt to persuade a lover of the folly of his
 passion, would be vain, & if we cure him of his de-
 lusion it must be by calling into play a more
 powerful counterwailing passion. Passion must
 always be set in opposition to passion, if we wish to restore
 the faculties of the mind to a true healthy equilibrium.

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I have thus, with some labour, brought my
 subject to a close. The symptoms of the disease have
 been intentionally left out, since to have embraced
 all of every species of Insanity, would have swelled my
 dissertation far beyond the proper size. The symp-
 toms, too, being the reverse of intellectual health,
 there can be no difficulty of arriving at a know-
 ledge of the disease. The causes of the disease
 have been fully enumerated, & their modes of
 operation explained. The pathology of the disease
 has been fully gone into, & I hope, some light thrown
 on this intricate branch of medical science.
 It now ^{only} remains for me ~~only~~ to bespeak the in-
 dulgence of that Preceptor to whose judgment this
 dissertation may be referred. Longer, considerably,
 as the majority of such productions, he will natu-
 rally expect to find ^{in it} more defects. The time which
 was allowed myself ^{for its arrangement,} granting myself capable, of
 excludes the possibility of any finish or elegance
 in composition. To give a lucid view of the philoso-
 phy of the disease, to furnish all the important mat-
 ters which relate to its character, has been the principle
 which I have kept constantly in view. And while
 wishes & cautions were directed solely to this point,
 it is to be expected that many literary inaccuracies
 & imperfections should escape my observation.
 Trusting to that liberality & indulgence which
 always accompany great minds for an extenuation
 of

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! the many defects which throughout mark this
utation, it is submitted in confidence to their
did consideration by their obliged

Pupil & sincere friend,
Lunsford P. Yandell

Handwritten text at the top of the page, including the name "Wm. P. ...".

Dissertatio Inauguralis
De
Rheumatismo
Quam

Annuncti Summo Numine,
Nro admodum Reverendo
Jacobo Kemp D. D. Inspecto,
Ceterisque Gubernatoribus
Academiarum Ferrae Mariae,
Præsertim Excellentissimo Facultati
Medicæ

Pro Gradu Medicæ Doctoris
Examine
Subjicit

Robertus H. Nelson
Virginienſis

Civitatum America Federatarum
Civis

Anna Domini

1825.

Opisthion chrysopygus

Pharmacia
Linn

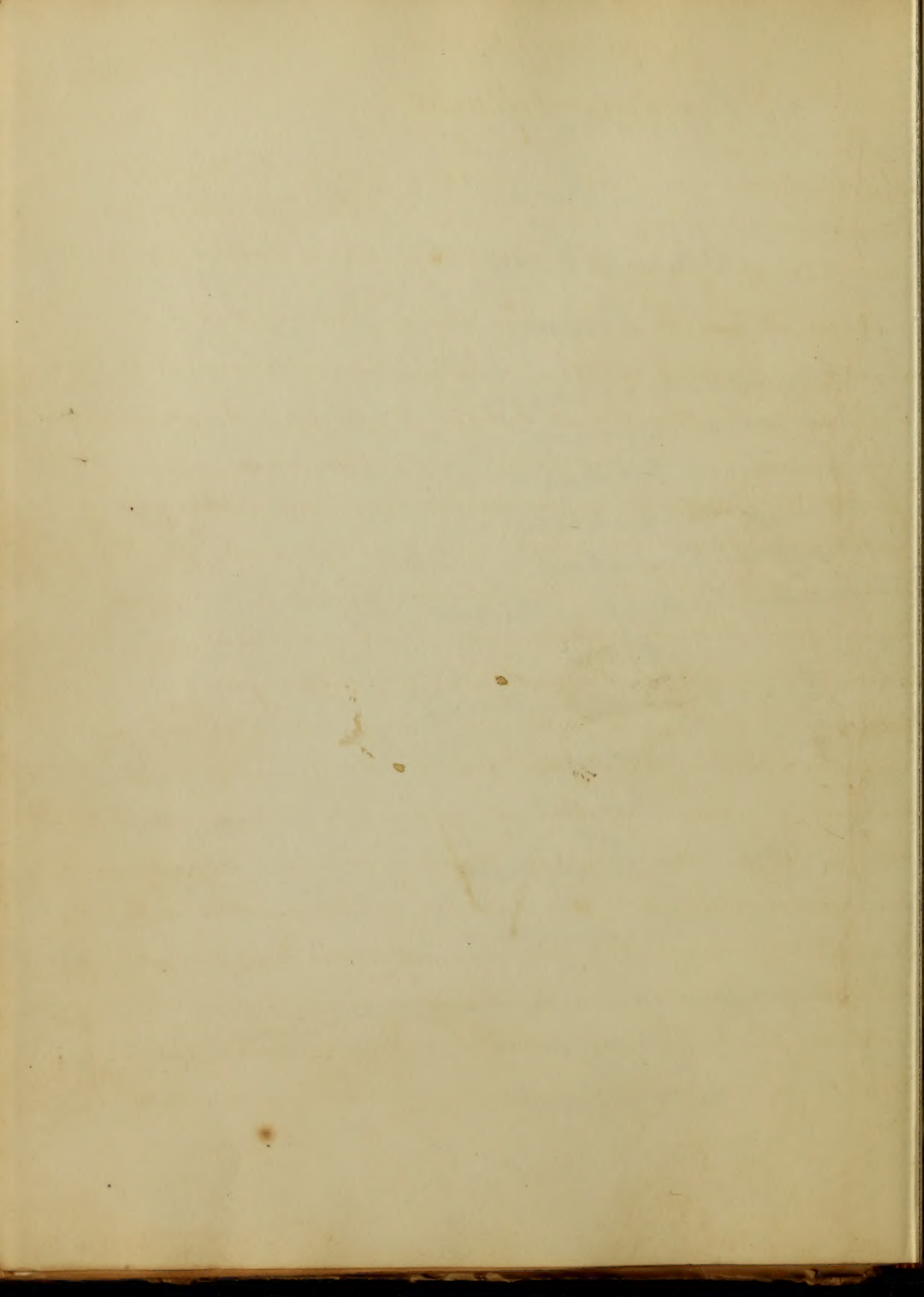
Pharmacia
Linn
Pharmacia
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1872



Rheumatismus.

Morbi Definitio.

Rheumatismus, qui duas in species, acutam et Diuturnam dividitur, Morbus acerbus, aliqua externa, et causa plerumque manifesta exoritur, atque in classe Pyrexiae, et ordine, Phlegmasiae, a Cullenio ponitur.

Rheumatismus Acutus Diathesi inflammatoria Morbus, Musculos, Ligamenta, et Artus affectans, artus majores et cervicis et lumborum Vertebrae, Genua, Humeros et Cubitos, et interdum Carpos et Tarsos, atque pedes, manuum aut pedum digitos. Plurimum interdum articulo uno finitur, corporis partes multas tempore eodem, huc morbus saepe invadit, quum gradu frigido fere incipit, qui pulsu frequenti, pleno, et tenso, statim succeditur. Dolor circa articulos, acerbus et lancinans, qui musculorum cursum sequitur, uno ab artu ad alium removel, et motu vehementer ingravescit. Postquam dolor aliquandiu permansit, artus fere tumidi, et tactui magis acervi fiunt, atque calor et rubor accipit magno comitantur. Quaequam pulsus vulgo firmus et plenus, tamen interdum demissus et depressus. Si quis sudor intersit, paucis in partibus non per corpus totum apparet. Urina fere rubra et postquam aliquot dies morbus permansit, faeces lateram pulveri similes deponit. Nulla intestinorum obstructio, nisi sit aliqua disorganizatio Hepatica, aut intestinalis ex cibi usu. Diathesim inflammatoriam minuentis, obstipata fiunt. Sanguis detracta, vestem coriaceam exhibet. Diathesis febrilis vespere multum augetur, quod nocte dolorem acerbiorum facit.

Journal
of the
Society

The following is a list of the names of the members of the Society who have been elected to the office of Secretary for the year 1850. The names are arranged in alphabetical order. The names of the members who have been elected to the office of Secretary for the year 1850 are: [illegible names]

Quum afficiuntur ligamenta et tendines sola, pulsus, parvus et tensus.
 Per Metastasin, Cor, Diaphragma, Hepar, Intestina, atque organa alia,
 morbi sedes fiunt. Si Cor sit morbo affectum, respiratio difficilis
 palpitatio et singultus gravis, atque pulsus abnormis et depressus,
 superveniunt. Saepe laevo uno, maxime dextro, pulsus nullus. Sunt
 etiam fastidia, inquietudo, et cordis tremor. Paralysis, Rheumatismum
 interdum consequitur, quae generum duorum; una ex musculorum
 inflammatione, alia ex fasciarum condensatione, et nervorum compressione
 consecutaria eorundem, quibus partes torpor efficitur. Hoc inflammationis
 genus omni ab aliis discrepans, suppuratione raro desinit.

Rheumatismus Diuturnus ullo febris indicio fere non comitatus;
 si intersit febris, nullius momenti, et prae imperceptus. Artus
 laborante, fere frigus, usus defectus, arditas, et torpor, sudore
 frigido et glutinoso atque dolore acuto comitantibus, qui, calore variante
 et calore abstracto, magnopere ingravescit, et corpus totum
 vehementer enervatum. Morbi haec forma, sine mutatione ulla
 saepe diu restat, atque non raro, per vitam, comes gravis.

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Morbi Historia

Rheumatismus in calidis coeli regionibus, rarus. Vere et Autumnus
 saepius occurrit, quia illis temperatibus, transitionibus variis Calum
 subicitur. Aer humidus et frigidus, vicissitudinibus subitis ea uide
 ad aridum, excitando huiusce naturae morbum tempus opportu-
 nissimum; sed si morbum excitare coeli temperies talis, quouis
 anni tempore, appareat.

Rheumatismus Acutus, omnis aetatis sexus et constitutionis
 morbus, tamen a pubertate ad annum tricesimum et quintum,
 frequentior. Homines corporis validi et constitutionis sanguinea,
 tiam ii, qui coelo frigido exponuntur, atque multum sub die
 sercent, Rheumatismo multo saepius laborant, quam qui
 onstitutione et vita a se differunt. Forma Diuturna in
 hominibus, magis aetate protractis, frequentior. Hi hoc morbo
 laborantes, omni aere transitione, artuum dolori, rigori et
 inflationi, obnoxii. Morbus nonnunquam tam acerbus, artus
 luxationem ex parte facere. Plurimis aegrotis, anni tempore
 alidissimo, dolor minus acerbus, et minoris momenti, inflatio,
 amen sunt exempla, quibus a calido ad frigidum transitio omnis
 aegrotis auxilium attulit.

Diagnosio

Rheumatismi distinctio ab Arthritide aliisque corporis humani morbis medendi rationem dissimilem postulantibus, Medico maximi momenti. Rheumatismus et Arthritis interdum tam complicati et mixti, morbum principium difficulter dignosci, tamen natura tam diversa, investigationem attentam medendi methodum satis accuratam ostendere.

Rheumatismus ex aliqua causa manifesta plerumque oritur atque stomachi aut intestinorum morbo, nec anteceditur, nec comitatur, dum, contra, Arthritis non aliqua tali causa, manifesta oritur, et ejus impetus, corporis languore et capitudine fere anteceditur, atque stomachi aegroti indicibus manifestis comitatur, nimirum ventris inflatione, et stomachi eriditate. Rheumatismus juvenum, validorum, et strenuorum, morbus; Arthritis, etate provectorum. Rheumatismus, artus majores, Arthritis, inferiores aggreditur. Febris Rheumatismum et Arthritidem comitans, remissionibus et accessionibus subicitur, quae Rheumatismo certis, Arthritide temporibus incertis, redeunt. Rheumatismus non hereditarius, Arthritis, hereditate naturali a patre ad filium frequenter traditur, et victu luxurioso, potu

nimis, atque vita ignava induci potest, qua Rheumatismum nunquam procreant. Rheumatismus Acutus semper inflammatorius: Arthritis aut cum, vel sine febre intersit infirmitate miti videns. Morbis Hepaticis dignoscatur intestinatorum conditione abnormi, fœcoris induratione et amplificatione, aliisque indicis comitantibus.

Rheumatismus pectoris musculorum a Pneumonia dignoscatur, tussi acerba, respirandi difficultate et pulmonum excretionibus hunc morbum posteriorem consequentibus. Subinde dignoscendi difficultas inter Rheumatismum et dolorem ex Venerea Lues, reliquis atque Scorbutis orientem. In agroti historiam, mores, et consuetudinem, investigatio attenta, sententiam accuratam formando, medicum juvabit.

Causa Proxima

Rheumatismi causa proxima videtur esse virus venereum, quod in articulis seorsum seorsum

Causae Praedisponentes.

Frigus corpori magnopere calefacto, adhibitum, aut ad corporis partem unam frigoris applicatis, quum reliqua supra temperiem consuetam, sudoris repressio subita, sub die apositis longa, vestimentorum humidorum impositis, locicibus humidis decubitis, vestimentorum densorum raris permutatis, atque Vere et Autumnis aeris transitiones subita, Rheumatismo Acuto praedisponunt.

Rheumatismus Diuturnus illis causarum supra nominatis associatur, et etiam artuum distortionibus et luxationibus, atque venesectionis aliorumque febrim minuentium neglectu, forma acuta, enim errore certe laborat Magnus Cullenus, cum licet liberum Venesectionis usum, morbum disponere formam diuturnam aponere.

Causa Proxima

Rheumatismi causa proxima, eadem sicut causa ^{proxima} inflammationis universae.

Quæstio Participii

... hanc participii ...
... hanc participii ...
... hanc participii ...
... hanc participii ...
... hanc participii ...

... hanc participii ...
... hanc participii ...
... hanc participii ...
... hanc participii ...
... hanc participii ...

Quæstio Participii

... hanc participii ...
... hanc participii ...
... hanc participii ...

Prognosis

Si utantur rationes prompta et efficaciæ, morbo inunte,
 diu raro manet, aut diuturnus fit. Quia corporis pars
 nulla vite necessaria hoc morbo fere laborat, raro fatalis;
 sed si negligenterur remedia propria, atque morbus
 cursum caperet, corporis alicujus partis Paralysem
 efficiat, aut diuturnus fiat. et omni oris transitione rediens,
 vitam omnem variis acceptionis gradibus remanebit.

Medendi Methodus.

Formam hujusce morbi acutam pugnando, modis omnibus
 Diathesim inflammatoriam minuendum uteremur. Si actio
 inflammatoria magna, sanguinem detrahere non ceperimus,
 dum pulsus mollior et lentior factus, corporis calor, minor,
 atque cutis, mollis. Venesectio topica etsi commode usa
 postquam inflammatio generalis est reducta, morbo ineunte,
 dentaxat. Metastasin creat. Diathesim inflammatoriam
 minuendo et morbum curando, Cathartica utilia,
 maxime Mercurii Hydrargyri mitis, et Sales fixales.
 Remedium efficacissimum, proxiime Venesectioni, Diaphoretica.
 Quum calor corporis magna, frigidissima, optima, scilicet,
 Haustus salini et Nitrum, aut solum, aut Antimonio
 conjunctum. Pulvis Ipecacuanhae compositus, Diaphoreticum
 optimum. Cum sudor semel excitatus aliquot horas
 mediocriter protraheret, opus desideratum perficere.

Diaphoretica alia minus efficacia, forma acuta aliquanto
 domita, adhibeantur. Clasis hujusce, Mesereum, Guaiacum,
 Sarsaparilla, et Eupatorium. Opium portionibus magnis
 dolorem lenire adhibitum, sed nisi medicamento aliquo
 sudorem excitante, aut dulci Mercurio conjunctum,
 noxium videtur. Diuturna in forma, Stimuli interni et
 externi, momenti magni medicamenta. Hydrargyri et
 Antimonii tartarizate Unguenta, Resicatoria Cantharidum,
 Sinapios Cataplasmata, Ammonia Solutio, Terebinthina
 oleum, Unguentum Stramonii foliis aut floribus factum,
 Capsici Linctura, Moxa, et Cauterium, quae balnea tepida
 et Sulphurea adderentur, bonae sunt applicationes externae.
 Xanthoxili Frasinici, Phytolaccae, Guiaci, Stramonii,
 Colchici Autumnalis, et Capsici Lincturae, Acida Populii
 Simplicis, Raphanus, Carbonas Ammoniacae, Terebinthinae oleum,
 Mezerei Decoctum, pini foliorum et fragmentorum, et Lauri
 Capafrae, et Ilicis Aquifoliae corticis Infusa, forma diuturna,
 interne commode adhibeantur. Quum medicamenta alia

fallunt Hydrargyri Bursae mitis salutem frequenter reddet.
 Reditum hujus morbi injucundi Lanificium Laninum, aut
 ad regionem sub sole ardentiore positam, remigratio
 avertet. Si postquam medicamenta predicta eserta,
 morbus maneret, usus annuus Balneorum fontium tepidarum
 & calidarum, quo, in Virginia, aliisque civitatibus federatarum
 inveniuntur aut morbum removit aut, Symptomata ejus sic
 tenuavit, ut Vita Vesperam jucundiorum efficeret.

Finis

An
Inaugural Dissertation
on the
Noncontagious Nature
of
Yellow Fever
and

Experiments on Black vomit, which
is Ejected in the last Stage
of that disease.

By
G. G. Longue
of
Maryland—

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An

Inaugural Dissertation
For
The Degree
of

Doctor of Medicine

Submitted to the examination
of
The Rev^d Bishop Kemp S. S. T. P. Provoost
The
Trustees and Medical Faculty
of

The University of Maryland

on the

Fourth day of April

1825

Thompson's Pipe

of the

Book of

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of the

1855

To James Touper M. D.,

Dear Father

Please to accept this dissertation
as a small but sincere tribute of
gratitude and filial affection
from your
Obedient Son

G. G. Touper

To the Hon. Secy of the Navy
Washington

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the application of the Hon. Secy of the Navy for the appointment of a Surgeon General of the Navy. 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. P. [Signature]



To
John B Davidge A, M, M, D,
Professor of Anatomy
in the
University of Maryland
Much Respected
Sir

It is a source of satisfaction
to me thus publicly to express the high
esteem entertained for you, in whom are
concentrated professional eminence, distinguished
talents, and uncommon ability to teach -

I am impressed with a lively sense of
gratitude and affection by numerous
testimonies I have received from you in
the double capacity of preceptor and friend.

I pray you may enjoy health adequate
to the continuance of those labours in
the field of science, and the chair you so
prominently fulfil, which have been
so productive of benefit to society -
and honour to yourself -

Your obliged

friend and Pupil

Gideon G Long

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To John Quincy Adams

President of the United States

Respected Sir

I take the liberty to dedicate the following papers to you, they are but a feather compared to the great mass of facts and other information, that might be adduced to prove that the Yellow Fever is of domestic origin, and not contagious under any circumstances -

To the Statesmen in a political point of view it is an important enquiry, and matter of great moment, by relieving our merchants of those, Useless Quarantine Laws which have so long and at different times shackled the commerce of our country by instituting oppressive delays and oppressive embarrasments; independant of the suspensions of intercourse between our large Cities - moreover the error of the contagious nature of Yellow Fever has produced vexatious, precautions to guard against imaginary dangers - at the neglect of the only proper means of ameliorating the condition and preventing

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the recurrence of this fatal pestilence to the
inhabitants of our large cities -

It is the peculiar character of all con-
tagious diseases to be propagated in all coun-
tries, climates and seasons, (they are equally,
if not more contagious, in the coldest, as
well as the hottest weather) - Fortunately for
us indeed - that it is not a contagious disease

If it were our fine and beautiful country
would have long since been depopulated -

With sentiments

of sincere

Respect

Gideon C. Foyen

Observations on Yellow Fever

The great author of the universe ~~has given~~
has given to our country, an extent to feel
the influence of four zones - embraced in such
an extended length of territory, from north to
south, and from the Atlantic, to the Pacific
ocean, east ~~and~~ ^{to} west - It is obvious that we must
be liable to all diseases, peculiar to such an
extent of ~~territory~~ ^{country}, and diversity of climate -

In the middle and southern states, we
find on their Atlantic border I had almost
said immeasurable, bays, creeks, inlets and rivers
of an uncommon magnitude and extent - and in
the western states we find lakes and rivers ~~not~~
superior in size to any known in other quarters
of the world - with few exceptions -

On the margin of these great water courses
we find the face of the country, mostly low,
abounding with extensive marshes, lagoons, ponds
and small reservoirs of stagnant water - the soil
on the water courses rich and often alluvial
the rise and fall of the water different in
different places.

thus yielding, in hot climates and hot
seasons an immense quantity of putrid

Chlorophyll in the Leaves

The first object of the present experiment was to determine the amount of chlorophyll in the leaves of the plant under investigation. For this purpose a certain quantity of leaves was dried and weighed. The residue left after the extraction of the chlorophyll was again weighed, and the difference between the two weights was the weight of the chlorophyll. The results of the experiment are given in the following table.

Weight of leaves (gms.)	Weight of residue (gms.)	Weight of chlorophyll (gms.)
10.0	7.5	2.5
20.0	15.0	5.0
30.0	22.5	7.5
40.0	30.0	10.0
50.0	37.5	12.5

From these results it is seen that the amount of chlorophyll in the leaves is directly proportional to the weight of the leaves. This is to be expected, since the chlorophyll is contained in the cells of the leaves, and the number of cells is proportional to the weight of the leaves.

Vegetable effluvia. Marsh Miasmata or if you
please poisonous air -

This is the fruitful source of all our Au-
temerical diseases, It is the great Matrix of all
our Intermittent, remittent, Bilious. Malignant
Yellow fever -

Without this Matrix of putrid vegetable
matter, there can no more be a bilious, or
Yellow fever generated amongst us, than there
can be Vegetation without earth, water, or
air, *

In our large cities this superabundant ~~an-~~
~~ten~~ accumulation of putrid exhalation com-
bined with an artificial heat from the
reflection of the sun on the walls and pave-
ment and confined air, in narrow and
dirty streets is the cause of the yellow fever.

Our country abounding with such an
immense source that yields this putrid vegeta-
ble exhalations, combined with a hot sun
together with the great abuse of ardent liquors
produces those numerous febrile, bilious and
other diseases, which is the great avineer from
life to death, of the inhabitants of the United
States, and the West India Islands -

* See Mather works vol 2

The yellow fever is a disease peculiar to and belong to the United States, indigenous to it and all other hot climates abounding with putrid vegetable exhalations -

The diseases of the Marsh family if they may be so called produced by these putrid exhalations, Marsh Miasmata, poisonous air, or by whatever name you please to call it, put on a mortality and an uncommon degree of malignity when accompanied by an inflammatory constitution of the atmosphere -

Medical writers in Europe for more than a century past constantly speak of an inflammatory disposition of the atmosphere and of its influence in imparting a preternatural degree of malignity to fevers arising from putrid exhalations -

The celebrated Hippocrates who wrote - about 2285 years ago - speaks of this inflammatory constitution of the air - Dr Sydenham also mentions it over and over again, the Baron van Swieten, Dr Mosely, and many other celebrated writers -

Lampriere a British Military surgeon of Jamaica ascribes the uncommon mortality of the yellow fever in the West Indies to this

inflammatory constitution of the Atmosphere

Dr. Rush informs us that such an inflammatory constitution has existed in the United States, since the year 1791 this disposition in the atmosphere to produce diseases of a ~~highly~~ highly inflammatory character is sometimes local, but it sometimes pervades whole countries.*

"The records of medicine prove that this inflammatory state of the atmosphere has continued from one to fifty years in different countries +"

Dr. Sims has given a long and interesting account of these inflammatory constitutions of the atmosphere from the year 1590 to 1782 in the first volume of the Manchester Memoirs, from which it appears that they were sometimes general over Europe and at other times confined to particular countries -

"The pestilential constitution of the air in the United States, began in 1791. This I infer from the yellow fever making its appearance that year in New York - It prevailed in Charleston, in 1792. In Philadelphia in 1793. And it has been epidemic in one or more

~~See Brandegee's annotations~~

+ See Dr. Rush's address to the Citizens of Philadelphia

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of the cities and Country Towns every year
since -

We observe the effects of changes in the qual-
ities of the Atmosphere not only upon disease
but upon animal and Vegetable life. Swarms of
different kinds have lately appeared and
multiplied in an unusual manner, the
the fruits of the earth have ripened, and de-
cayed in many instances sooner than in
common years - These facts have been
noticed by farmers in every part of the
United States. It might be asked why
was not the yellow fever imported before
the year 1791. It is seldom absent from the
West India Islands - The intercourse between
our Cities and these Islands has been extensive
and constant particularly in the wars
between 1756 and 1763, *

It is a well known fact to most physi-
cians that diseases not only vary from change
in the Atmosphere but they also change
from the progress of Agriculture, Civilization
Mode of living &c &c

Dr. Rush says the influence of the
Atmosphere has been evinced in the changes
our Annual fever has undergone since the

* see Dr. Rush address to the Colonies of the U.S.

The other day I received from my friend
a copy of the report of the committee
of the House of Representatives
on the subject of the
proposed amendment to the
Constitution of the United States
relating to the right of
citizenship. I have read it
with much interest and
am glad to see that the
committee have recommended
the adoption of the proposed
amendment. I think it is
very desirable and I hope
it will be adopted by the
House of Representatives.

the year 1760. From that time until 1778 it appeared in the form of a Milt Intermittent or slow nervous fever - after the year 1778 it appeared chiefly in the form of Milt bilious remittents, since the year 1792 the Milt Acetummal bilious fever have nearly disappeared, and violent inflammatory remitting and bilious Malignant fevers have taken their place

Is the Yellow Fever a Contagious Disease

The facts and observations that might be written on this subject would fill volumes.

The nature of an inaugural dissertation can but briefly touch on the subject.

It is remarkable that no nation admits the plague or the Venereal disease, to be of domestic origin, from time immemorial. It has been chased from one nation to another, in search of a birth place - and the origin has been ascribed to the planets by some writers.

Credulity and ignorance, combined with accidental circumstances is a source of error in the origin of diseases.

The Luës Venerea, which has existed time immemorial happened to rage with great violence in Spain, about the time America was discovered, its origin was chased to that country.

A pestilential fever which accidentally occurred after the introduction of the potatoe into France caused an edict against the cultivation and use of that wholesome vegetable by the french.

See Dr. Fongue's dissertation on the origin of the Luës Venerea -

Equally as

court - contemptable and absurd is the belief of the importation of the yellow fever of our country -

The arrival of a vessel from the West-Indies in one of our filthy docks in the month of August ~~or~~ September, and the sickness and death of a sailor or of a few persons in the filthy neighbourhood of the vessel, caused by putrid exhalations has been erroneously connected together as cause and effect.

To none of the European countries has the yellow fever ever been communicated by the many thousands of sick and convalescent sailors, and soldiers, that have arrived in them both in peace and war from every part of the West India Islands.*

Their quarantine laws are intended for vessels coming from the Levant and other sources of the plague -

But it is worthy of remark that in consequence of the common belief of our importing the yellow fever from the West-Indies - in 1793 that the Court of London imposed a quarantine on vessels going from Philadelphia to England - in 1793 - if it could be carried from Philadelphia to England why not carried from

* See Rush's advice

the West Indies to England - error is never -
consistent with itself -

The quarantine laws of our different Cities
is an acknowledgement of the belief in the
contagious nature of the yellow fever and
a belief that it is actually imported from
the West-Indies and also that the infection
can be carried from one City ^{to another} by travellers
Vessels &c &c -

This erroneous belief has caused a suspen-
sion of intercourse, of one or more, of our
Cities with each other, during the prevalence
of this disease - to almost the entire stop of
commerce and trade, of those Cities for se-
veral months in the year -

Again the belief in the contagious-
nature of the yellow fever is attended with
distressing circumstances by the desertion
of the sick by their friends and retentions
and necessary attendants -

I have heard of instances shocking
to humanity of persons being suffered
to perish in this country for the want
of necessary attention -

Who know or can conceive, how
often and to what extent the strongest

And best ties which exist between mankind have been broken, by persons acting under the terror of ~~imaginary~~ dangers. Many persons are driven by it to abandon their homes, their occupations, and even their nearest and dearest relations and friends in the hour of sickness, and by this dereliction of the duties of humanity, this denial of assistance, and those consolations, which might have been afforded, without the smallest danger, to render those visitations, incalculably more affecting and fatal, than they otherwise would have been—

Dr Don R Amesto in his work asserts that the barbarous and antisocial belief of the importation and contagion of the yellow fever, has from its baneful influence in Spain, caused many unfortunate victims to be abandoned, and left to starve in their beds. That others have been shot at the very doors of houses in which they endeavored to find an asylum; and that many others were carried alive to their graves—

Let the zealous who have contributed to this monstrous inhumanity—reflect upon it, and if their intentions, have as I hope been

been good, let them at least maturely examine
and reconsider the foundation of their belief
before they endeavour again to carry it into
action - It neither requires nor even indi-
cates a mediocrity of understanding or learn-
ing to adopt the common notion of con-
tagion, and foreign importations in regard
to epidemics - Nor does the facility, with
which these are propagated afford the smallest
presumption in their favour - By much the
the greater part of Mankind do not possess
either sufficient industry or knowledge for
the due examination of a subject so intri-
cate and complicated, nor have they so
much the power and habit of close and
accurate reasoning, as is necessary to decide
respecting it - Every one however can believe,
and the belief of contagion, is a ready so-
lution of all difficulties, without ^{the} trouble
of enquiry and even of thought: And we
need not therefore wonder that contagion
like witchcraft, should have been univer-
sally believed (though as little understood)
and as often with as little foundation -"

This ~~foundation~~ erroneous belief too has
given rise to serious and in many instances

~~And in many instances~~ rumours loper to our
Merchants engaged in commerce by an un-
reasonable and vexatious quarantine laws of
long duration - it has moreover exposed the
health and lives of our Mariners, in sickly
situations in hot months and unhealthy
seasons - And often too when they were -
within a few miles of their families and
friends -

Of the many hundred instances of persons
who have taken the yellow fever in
town and gone to the country and have
died - there is not one solitary instance
of the disease being communicated -

* Dr. Rush once believed the yellow fever could
spread by contagion -

or the best forgiveness of the friends, of science,
and humanity, if the publication of that
opinion has had any influence in increa-
sing the misery and mortality - attendant
upon that disease - Indeed such is the pain
he feels, in recollecting that he ever enter-
tained or suggested such an opinion, that
it will long and perhaps always deprive
him of the pleasure, he might otherwise
have derived from a review of his attempts

* See Rush's works
+ See Bancroft

to

to fulfill the public duties of his Station,
Then we see this great and good man who
perhaps had seen more of the yellow fever
than almost any other physician, coming
forward and publicly renouncing an
error and begging forgiveness - After this
honest avowal of an error how much
more estimable does he appear in the
eyes of all good and learned men -

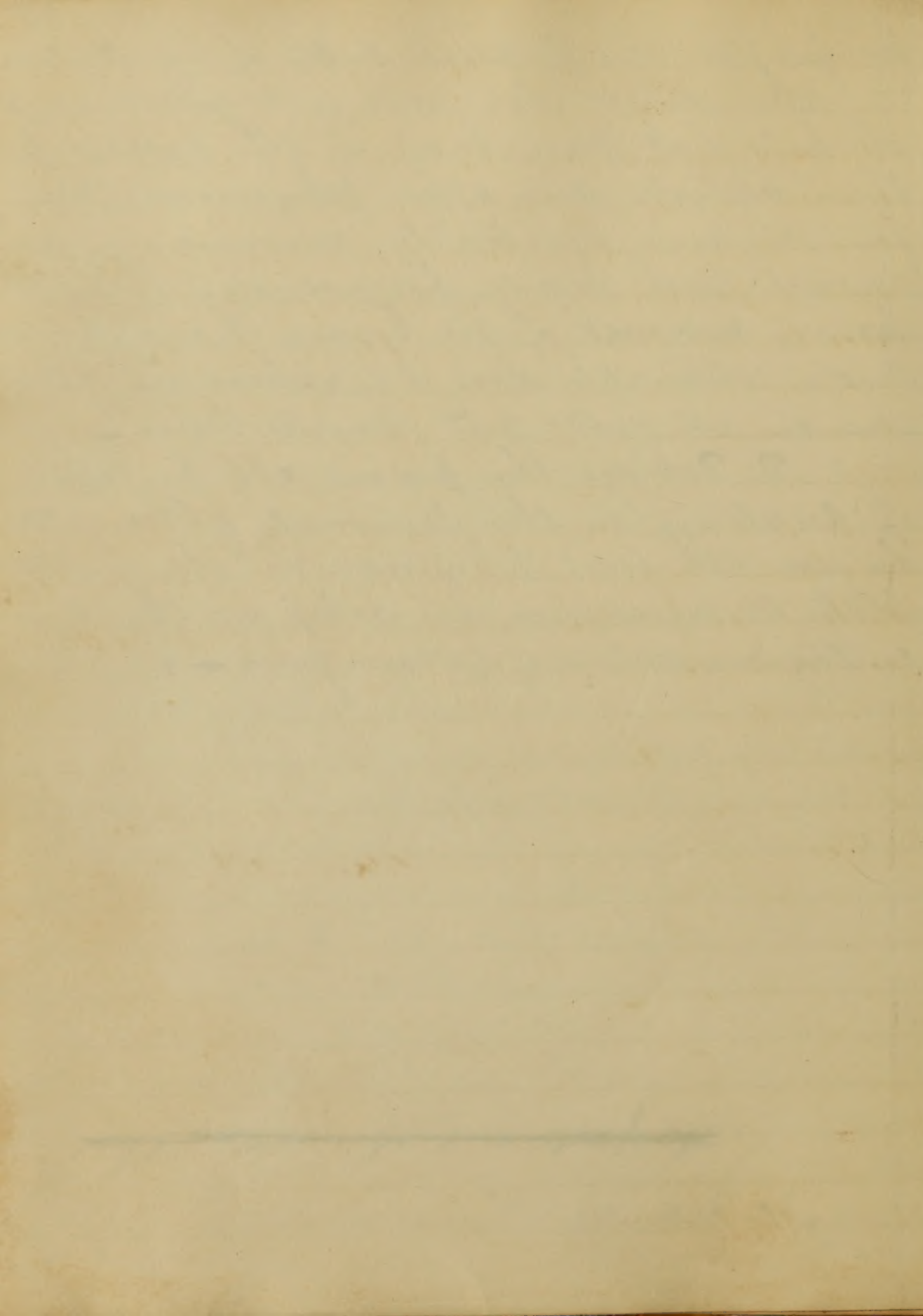
Dr. Davidge the present able professor
of Anatomy in the University of Maryland
he was the first physician in the United
States to announce his belief in the non
contagious nature of yellow fever - *

* Le Dr. Davidge's Physical Sketches -

the fact that the published history of the station
shows in the year 1852 that the station
had been built on the site of the station
then the fact that the station was built
on the site of the station in 1852
is a fact that is not mentioned in the
history of the station in 1852
of a station in the district of the station
in the year 1852 the fact that the station
was built on the site of the station in 1852
is a fact that is not mentioned in the
history of the station in 1852 -

~~the fact that the station was built on the site of the station in 1852~~

the fact that the station was built on the site of the station in 1852



On Black Vomit

The original opinions respecting Black Vomit that it was poured out by the liver, or that it was dark or putrid bile - but from more minute examinations, repeated dissections and experiments, it is now satisfactorily ascertained, that it is a fluid, See Genesis, formed exclusively in the stomach, and small intestines. but more frequently confined to the stomach alone -

It is unquestionably a secretion from the inflamed vessels of the stomach. it is a bland tartalep substance, except when bile is discharged occasionally with it -

The discharge of this substance invariably announces to the Physician, the hopeless state of his patient - In its first appearance it requires to be examined minutely to ascertain its nature - being then only a few small brownish particles floating in the fluid contents of the stomach -

As the disease advances the flacky particles get more and more numerous, and of a darker colour - untill it becomes as dark and as thick as black coffee grounds - the stomach, (in many cases) discharging almost incessantly large

but most commonly picking it up in large quantities

large quantities. The patient sometimes heekeeping
or belching it up, in large quantities.

In repeated dissections that my Father made
on persons who died, with the Yellow Fever -
(in the City Hospital of Philadelphia in 1799)
he invariably found this black matter in
the stomach, and sometimes in the Intestines,
and the internal coats of the Stomach in
some cases were entirely covered with it, and
in others it had a dotted coloured or chequered
appearance - and one Stomach which he pre-
served in clear Spirits of Wine - (was remark-
-able for the regular dotted, or chequered
appearance) - after being repeatedly washed the
black matter had the appearance as if it
was issuing from the fine extremities of the
blood vessels or internal coat of the Stomach

If the yellow fever was a conta-
-gious disease and the black vomit which
is as much a secretion from that disease,
as the Venereal, Virus, Small Pox matter, or
any other secretion, are from diseases specif-
-ically contagious, it would as certainly produce
yellow fever, as any other of the specific-
-contagious, producing, diseases of their own
kind -

My Dear Father

I will esteem it a peculiar favour if you will furnish me with the experiments you made on Black vomit - or any other observations made on the yellow fever - as you saw a great deal of that disease while you were a pupil of Dr. Keen and during the time you were at the City Hospital of Philadelphia, which was appropriated entirely for the reception of Patients with the yellow fever

Your affectionate
~~and interested~~

Son and Pupil

G. G. Torrey

My Dear Mother

I was glad to hear of a
person of your rank and
position you made in the
new school institution over on the
line. It was a great deal of
time that you were a pupil of
the school. I hope you were
not disappointed in the
results of your studies. I
am sure you will be
able to do well in the
future. I am glad to hear
of your efforts.

Yours affectionately

Mr. J. J. J.

10th Street

My Dear Son

The experiments you request were made on the black vomit, to satisfy my own mind relative to the contagious, or non contagious nature of the yellow fever. At that time most Physicians believed the disease to be highly contagious. I do not believe ~~then~~ ^{at that time} I should have ~~gone~~ gone to such lengths with the experiments on black vomit, if I had not been perfectly assured that the ~~disease~~ ^{yellow fever} was entirely under the control of medicine, if suitable remedies were used at the commencement of the disease -

I shall trouble you but with observations of mine - what you have already heard and learnt you ought to know the nature and history of the yellow fever -

In July 1799 the yellow fever again made its appearance in Philadelphia, at this time I was a pupil of Dr. Rush and in consequence of this disease having proved so fatal in Philadelphia, the year before. ~~that~~ in August 1799 the City was

was nearly depopulated - I offered my services at the City Hospital, to the board of health which I hardly need tell you were very willingly accepted -

Dr. Rush and Physicns. were the attending physicians to the Hospital, to which no patients were sent except those having the yellow fever.

I had an opportunity of seeing the disease in every possible form, it could assume - it is in fact an epitome of ~~almost~~ ^{many} ~~every~~ diseases with this invariable symptom - a sense of soreness and pain when pressure is made on the precordia - and notwithstanding all the variety of forms, this disease assumes in different patients when it proves fatal it is invariably, accompanied by a discharge of the black vomit -

I endeavoured repeatedly to save ~~the~~ black vomit, while at the Hospital in vials, and bottles, by having them well corked, with leather or bladder tied over them - but they almost invariably burst, with a loud explosion, with a stretch so intolerable, that the rest of the students and myself, in the Shop

were compelled to leave it for ~~several~~
~~hours~~ some time -

While at the Hospital I was very desirous to make some experiments on black vomit, but it was almost impossible, to get any from a patient, that had not been taking some kind of medicine, which might alter the nature of the black vomit * so as to leave doubt as to the true result of the experiments that might be made -

In September the year following I had an

* Dr Isaac Catherill of Philadelphia made many experiments on black vomit, by analysing it -

The black vomit, from which these experiments were made was procured by me from patients in the yellow fever - in the City Hospital of Philadelphia and furnished to Mr Parker one of the board of health and by him presented to Dr Catherill -

There is no doubt the experiments made by Dr Catherill, is credible to him, and made with the greatest accuracy - but I think the black vomit could not be relied on, as the patients from whom this black vomit was procured had all taken more or less medicine, which might

an opportunity, and leisure to make the following experiments, -

Being at this time on a visit to my parents near West River, in Anne Arundel County (the yellow fever prevailing at this time in Baltimore) I was requested by Dr Henry Hall to visit two patients just from Baltimore - with the yellow fever - a Cpt Gotee, and Mr Mandell -

Mr Mandell, was in the last stage of the yellow fever, puking up large quantities of black vomit; he had taken no medicine of any kind, and had been some time on the passage by water from Baltimore, to West River - and had taken nothing since he sickened, ~~but~~^{except} cold water -

I concluded I could not have better black vomit to make experiments with, to ascertain the contagious or noncontagious nature, of yellow fever -

might have altered its nature or given different results, in a chemical analysis - again it is a ^{substance} ~~subject~~ like every other animal secretion that runs speedily into putrefaction. ~~see~~
~~will be seen hereafter~~ -

fever - and to ascertain that fact the following
Experiments were made -

Experiment 1st
I took on some fair amount of cold in the
winter, but never felt of that kind
yet felt very much to indicate the
fever from the fact they were by nature
but a cold in nature and continued for
some 5 or 6 days. I felt very much
from the experiment and for the
first time in my life I felt that
cold fever.

Experiment 2nd
I took on some fair amount of cold in the
winter, but never felt of that kind
yet felt very much to indicate the
fever from the fact they were by nature
but a cold in nature and continued for
some 5 or 6 days. I felt very much
from the experiment and for the
first time in my life I felt that
cold fever.

Experiment 3rd
I took on some fair amount of cold in the
winter, but never felt of that kind
yet felt very much to indicate the
fever from the fact they were by nature
but a cold in nature and continued for
some 5 or 6 days. I felt very much
from the experiment and for the
first time in my life I felt that
cold fever.

Experiment 1st

In presence of Dr Hall the pure black vomit as it was puked up immediately from Mr Mandell's stomach was caught in both the of my hands and my face was literally rubbed and washed with ^{it} as much, and as long as is generally done in cold water -

Experiment 2^d

I held my ~~nose~~ face almost in contact with a chamber pot nearly filled of black-vomit just puked up - and tried to inhale the effluvia from it into my lungs by repeated and deep inspirations which was continued for several minutes - I felt no inconvenience from these experiments except the unpleasant association of ideas that would naturally occur -

Experiment 3rd

I got my friend Dr Hall to inoculate me with the fleecy particles of black vomit (just puked up from the stomach) in three or four ^{different} places on each arm; no inflammation or any thing occurred worthy of notice -

Experiment 11

In figure 11, the force is applied to the
rod at the point of suspension. The
rod is in equilibrium in the vertical
position. The weight of the rod acts
at its center of mass, which is at the
point of suspension. The force applied
at the other end of the rod is equal
in magnitude and opposite in direction
to the weight of the rod.

Experiment 12

Let us now consider the case where
the force is applied at a point other
than the center of mass. In figure 12,
the rod is suspended from a point
to the left of its center of mass. The
weight of the rod acts at its center
of mass, which is to the right of the
point of suspension. The force applied
at the other end of the rod is equal
in magnitude and opposite in direction
to the weight of the rod. The rod
will rotate clockwise about the point
of suspension.

Experiment 13

Let us now consider the case where
the force is applied at a point to the
right of the center of mass. In figure 13,
the rod is suspended from a point
to the right of its center of mass. The
weight of the rod acts at its center
of mass, which is to the left of the
point of suspension. The force applied
at the other end of the rod is equal
in magnitude and opposite in direction
to the weight of the rod. The rod
will rotate counter-clockwise about the
point of suspension.

Experiment 4th

Black vomit immediately from the Stomach was strained through fine muslin, and about a tablespoonfull of the flacky particles were put into a piece of thin muslin and bound to my nostrils - so that I could inhale the contagious effluvia (if any) into my lungs, this application was continued about one hour and so adjusted to the nostrils, that the air should pass through it more or less into my lungs at every inspiration - This application was continued one hour, no inconvenience was felt from this experiment.

Experiment 5th

I applied ~~two~~^a large blisters to each of wrist, and as soon as they drew the sores were washed with black vomit immediately from the Stomach, no uneasiness was felt from this experiment - or irritation produced to the blister -

Experiment 6th

The flacky particles of black vomit was laid thick on the blisters and bound to them with bandages - so that the poison or contagion (if any) might be absorbed into the system no inflammation or uneasiness, either to the blister or system was felt from this experiment.

Experiment 7th

Fresh black vomit was again repeated on the blisters, and the same experiments repeated as yesterday, and the same results -

Experiment 8th

About a pint of black vomit was poured down the throat of a small fat pig, which I threw was to be killed in a day or two and cooked - of this pig 8 or 10 persons ate - nothing occurred worthy of notice, either in the appearance of the health of the pig, or those who eat of it -

Experiment 9th

A quantity of black vomit was mixed with flour out of which a great many pills were made, of an large size as could conveniently be swallowed -

Experiment 10th

Out of the preceding black vomit pills - if they may be called so, one was given every 2 hours, to a negro woman labouring under a chronic disease - they had no perceivable effect - A great many of these pills were given to different persons and no effect was ever perceived from them - ~~It has been men-~~
tioned -

Experiment 7

... and the same result -

Experiment 8

Experiment 9

I am happy to observe that Dr Griffith
has made some experiments on black vom
several years since the experiments I made
the same results -

It has been mentioned
by medical writers that a great mortality often
prevails among some domestic animals during
yellow fever, or other violent malignant
diseases, and it has been supposed that Cats &
Dogs die from it -

Experiment 11th

Two Cats were inoculated with black
vomit - no inflammation or other perceiv-
able effects appeared to be produced -

Experiment 12th

To the same two Cats a teaspoon full of
black vomit was given no effects were
produced -

Independently of these experiments black
vomit was given, to different domestic
animals - to Dogs and Fowls with the
same results as in the precedent experiments.

Mr Kendall was visited every day until
his death and fresh black vomit produced
every day - as he was in the last stage of
the disease, it was thought unnecessary to
give him any medicine - He took nothing
but a glass of water occasionally -

From these experiments I infer that the

yellow

Yellow fever cannot be communicated by the Black vomit, and I also infer that it is not a contagious disease, because there is not one solitary instance, that I have ever heard of the disease being communicated from one person to another - in the many hundred may I might have almost said thousands instances of persons, having contracted the disease, by breathing the impure air of Cities - and dying in the country -

In all contagious diseases there is uniformly an efluvia or secretion that produces the same disease, we see it in Measles, Small Pox, Canine Madness, Lues venerea, Cow Pox - and jaund fever &c

We see that Yellow fever cannot be produced either by the efluvia from the patient - or by the secretion of Black vomit which is a secretion from the Stomach Lui Genus - and I believe is as peculiar to that disease - as much as Small Pox matter is to small pox, or Cow pox matter is peculiar to the vaccine disease -

There is an opinion reported by many respectable physicians that they have discovered Black vomit in the Gall bladder -

And in the Secret leading to the Decodenum
in considerable quantities as well as in the
stomach, and they also assist, their belief that
the Liver has some agency in forming this
substance -

This I am convinced is an error - In
some dissections that I have made I have
found this black substance in the Gall
Bladder, but on minute examinations
and comparing it at the same time
with genuine black vomit, it is in total
difference - The black substance from
the Gall Bladder tinging linen of yellow
colour, and bitter to the taste - the genuine
black vomit, is tartalep, and imparting
no yellow colour to white paper or linen -

The appearance of two things may be so
exactly alike as to deceive in the appearance
~~between artificial and natural substances~~
almost any person, and it is only by experiment and
minute examination that the difference is disco-

-Vend -

I am perfectly assured in my own mind
from what I have seen and read that the yellow
fever is a disease indigenous to our climate
and country and that it cannot be communicated
by

by contagion in any way - but when it prevails in our towns that the same cause exists to give it to thousands i.e. breathing putrid exhalations - or impure air -

If these experiments and observations are of any use to you - I have no objection to their being put in your inaugural dissertation

Your affectionate Father
James Foye M.D.

As indicated in my report - that the
interest in the case had been
quite to give it the treatment it
needed -
of these experiments and observations
and if any case to give a better
to their being put in your hands
of the
your efforts to
John W. ...

An
Inaugural Dissertation

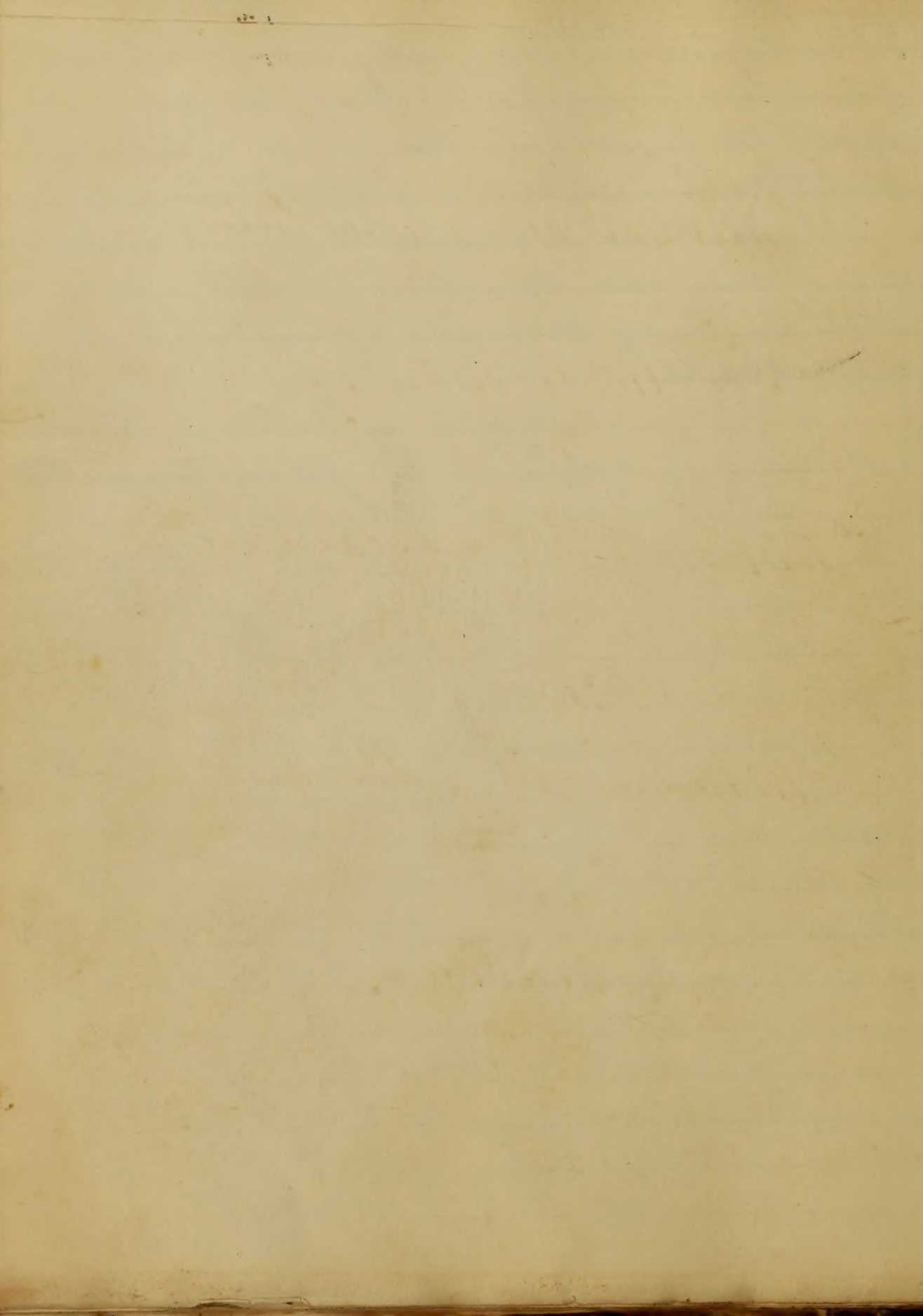
For the Degree of

Doctor of Medicine

by
William B. Morgan

of
Virginia

1855



An
Inaugural Dissertation,

For the Degree of

Doctor of Medicine;

By

William W. Morgan

of

Virginia.

1825^o

Chirurgus Practicus

For the Degree of

Doctor of Medicine

William B. Chapman

of Virginia

1838

A Dissertation

on
Hepatitis,

Submitted to the Examination

of the

Provost, Professors & Regents.

of the

University of Maryland;

For the degree of

Doctor of Medicine

By

William W. Morgan

of

Virginia.

1825

A Dissertation

On the

Substance of the Examination

of the

Government of the

of the

University of Maryland

for the purpose of

1800

William M. W. W.

W. W. W.

Hepatitis

Of the various diseases incident to our Climate, affections of the Liver, call for the assistance of the Physician, perhaps, as frequently as any other, and in selecting a subject for an inaugural dissertation, I know none more appropriate than Hepatitis, ~~both~~ as well from the frequency with which we meet with it, as its great tendency to an unhappy termination, when not properly combated, by the means we so plentifully possess.

Hepatitis is generally divided by Authors in Chronic & Acute, the same causes that produce the one, will under different circumstances of Constitution

U.S. 2000

of the various diseases incident
to the climate of the tropics, and
the influence of the various
on the general health, and in relating
a subject for an important
I have been able to afford
to me, or from the
with which we must
to be an end of
and which are
of the various
of the various
of the various
of the various

excite the other.

Of the remote causes of this disease Marsh Effluvia must certainly be reckoned the most frequent. It has been supposed that it acted by contaminating the Blood. This, says the distinguished Professor of the Theory and Practice of Physic in the University of Maryland, "is not so, or it would, ~~so~~ soon as it came in contact with the Heart, produce death" some have imagined that it acted on the Spine, and ~~disseminated~~ ^{diffused} it through the Blood, this I think cannot be the fact, and others have supposed that it acted first on the Stomach, and by sympathy on the Liver, this I think the most probable mode of its operation.

Where the Bark and Quine are substituted for the Larcet & Mercury in Intermittent Fevers, affections of the Liver frequently recur.

Stimuli of different kinds, as ardent spirits when taken to excess, will produce it, under circumstances where Marsh Effluvia could not have been evolved.

4. it is not generally so. inflammatory, as when cited by Marsh & Flussia.

Calculi in the Biliary ducts have caused this disease. It has been contended by some that calculi cannot be produced in the Liver, but, says Dr Potter, "they may be formed in any part of the system, even in the Gall-bladder".

The late very erudite and accomplished Physician the venerable Dr Cullen, says, "The remote causes of Hepatitis are not always easily discerned, and many have been ascribed on a very uncertain foundation, the following (says our Author) "seem be frequently evident. External violence, from falls or contusions, certain passions of the mind, violent heat, & excessive cold &c."

Having detailed the most common causes of this disease, I shall now proceed to its symptoms, and from thence to its treatment.

... of the ...
... by ...
... in the ...
... been ...
... in the ...
... in any part of the ...
...
... and ...
... Dr. ...
... not ...
... on a ...
... the ...
...
... of the ...
...
... detailed the ...
...
... from ...

Hepatitis assumes a great variety of forms, the
 chronic is often accompanied by Intermitent and
 remittent fevers, Dr Potter says "there is more ~~danger~~
 mischief going on with fewer marks of ~~inf~~
~~ammation~~ danger in this disease, than in any
 other, and hence, the necessity of discovering the
 degree of inflammation.

The acute form of Hepatitis is generally attended
 with, pyrexia, pain in the head, right hypochondrium
 & of the shoulder, and under the Clavicle, if the left
 lobe is diseased, the left hypochondrium, and sho
 oulder become affected.

The tongue is frequently white, sometimes yellow,
 skin hot, & dry.

Stools, irregular, sometimes constipated and at
 others a profuse diarrhoea, stools, brown, green
 & white, as the quantity, and quality, the bile may
 be, if the patient has had no evacuation for
 two or three days, and takes a Cathartic they will
 be found black.

Urine high coloured generally

River is frequently enlarged, which ~~if you~~
 be discovered under the ~~Less~~ lower part of the
 sternum, if not in the Hypochondriac regions.
 The Leg (says Dr Potter) is sometimes swelled in
 an acute stage, a symptom not often accom-
 anying the chronic form.

The Patient generally lies more easily on
 the affected side.

The Pulse is small, hard & frequent.

Such are the symptoms that generally accomp-
 any the Acute disease, distinguished from the Ch-
ronic by the latter being attended with fewer
 symptoms and they less violent in degree
 than the former.

As a congested state of the Liver seems to be
 the proximate cause of this disease, we would
 (may say) naturally, recur to the Laxative as our
 remedy in altering its diseased state, but, high as is
 my opinion of the Laxative, we cannot here trust

it exclusively, we must bring in to our aid that
valuable class of Medicines Purgatives,
bleeding and purging alternately and freely,
we remove the congestion of the Liver, by the
lancet: and the vitiated bile from the Intestines
purging; so long as this vitiated secretion
remains in the intestines it will there act as
an irritant and all our means no matter how
efficient will be unavailing.

~~Of the Acute~~ I would here recommend as purga-
tives, the oleum Ricini, combinations Jalap., Aloes,
Rhubarb, Scammony, Gamboge, ~~and~~ the neutral Salts.

The Antimonial Preparations are of little value,
except when they act as purgatives.

In the Acute state, Mercury should not be
exhibited. (for says Dr Potter) if you have an
Acute Hepatitis and use Venesection & Mercury,
you keep up inflammation with Mercury
as fast as you reduce it with the Lancet.

India where the disease is common they depend
Mercury, to the ^{almost} ^{almost} exclusion of the Lancet, and
hence their want of success.

When this disease is excited by the irritation
of a Calculus, the Pulse may be reduced for
while by bleeding, but it will soon regain
its former standard.

We have little more to do in the inflam-
matory stage than bleed & sponge, freely, but
when we have reduced the Pulse, and the other
symptoms of inflammation have abated!

Mercury may be brought in as an invaluable
auxiliary, exhibited in small, and frequently
repeated doses, so as to produce its alterative
effects, and here the Blue Pill seems preferable,
to any other preparation of this metal.

When the pain in the side continues for
some time, after the other symptoms of
inflammation have been subdued, might not

the more the disease is common the more
necessary to the preservation of the race, and
as their want of success.

then the disease is excited by the
a. Galactin, the tubes may be reduced, or
filled by blocking, but it will soon appear
former substance.

have little more to do in the
factory stage than block the tubes, and the
we have reduced the tubes, and the
of inflammation have a
may be brought in as an
activity, exhibited in nature, and
later stage, or as a
and here the tubes will remain
any other preparation of the
the the tubes in the
one time, after the
tubes have been reduced, and

ointment of the Tartrate of Antimony &
tark, which has been used so frequently in
some diseases of late, be of more benefit ^{here}
in the external application of Cantharides.

This essay was commenced merely in com-
pliance with the Laws of the University, and
not with the expectation of throwing any
light on the subject. I will conclude with
summing up the principal remedies for the
cure of the disease. they are Bleeding, Purgings,
Mercurials, Enemas, Blisters &c.

An Inaugural Essay
on the

Contagion of Typhus Fever
Submitted to the examination of the

Right Rev^d Bishop Kemp D. D. Provost,

and Regents of the University of Maryland

For a degree of Doctor of Medicine

on the third day of April A. D. One thousand
eight hundred and twenty five

By James Cheston Jun^r

of Maryland

The Honorable

Secretary of the Treasury

Washington

Dear Sir

I have the honor to acknowledge the receipt of your letter of the 10th inst.

in relation to the proposed

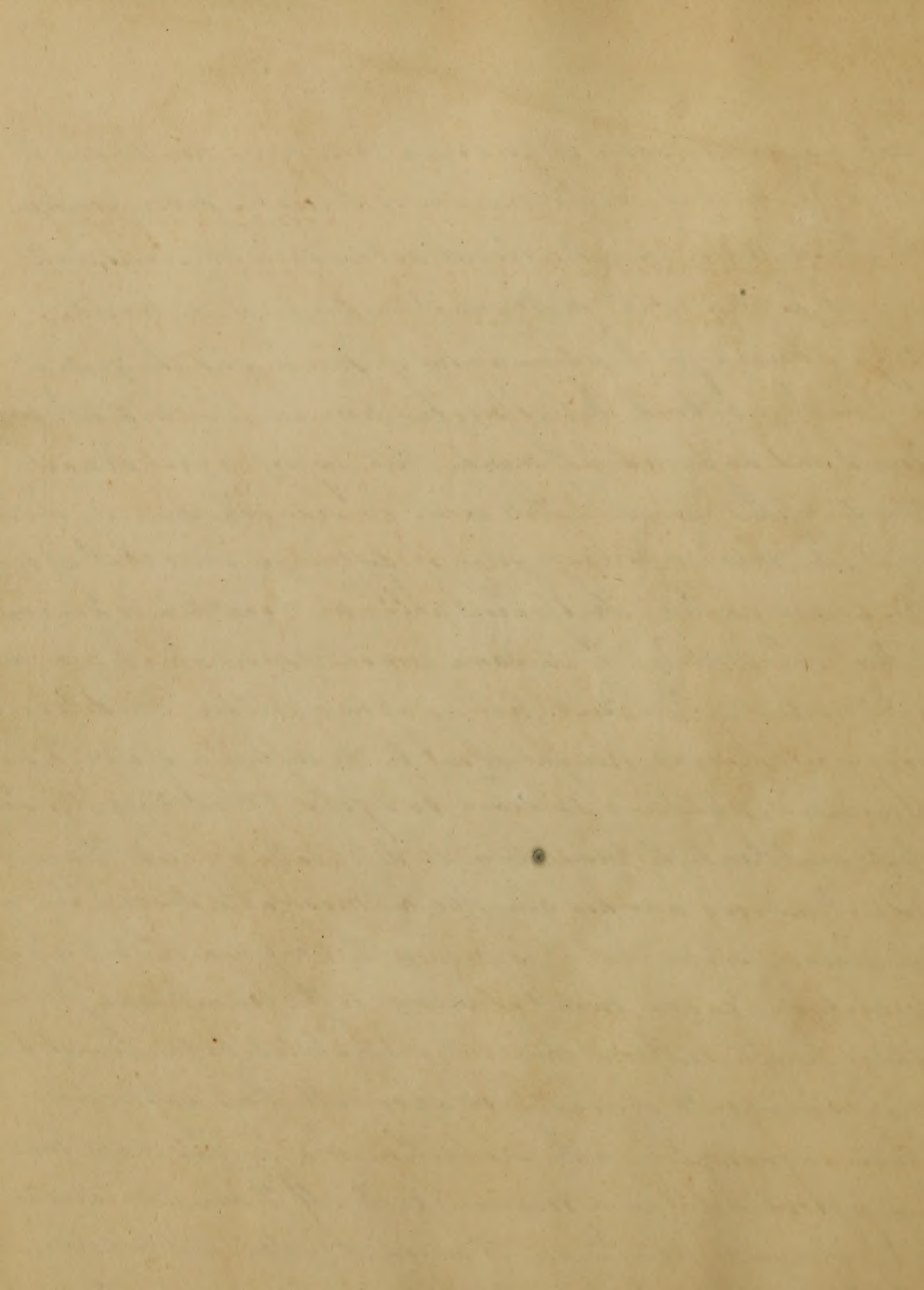
amendment to the Constitution

and in reply to inform you that

The same has been forwarded to the proper authorities for their consideration and I am, Sir, very respectfully,
Your obedient servant,
John C. Calhoun

But a few years have elapsed since those fevers now known to be the product of marsh miasm or vegetable decomposition were described by every Nosologist as contagious diseases, and received as such by the most enlightened men of the world.

Happily however for the advancement of science and the general welfare of mankind, these opinions have been discarded by every sound and unprejudiced mind. With respect to that disease termed Typhus Fever there still exists considerable diversity of sentiment; the most important point of difference being that of its contagious quality. The opinion which we mean here to advocate is - that it is produced by the same remote causes which give rise to Intermitents & Remittents, acting upon a certain condition of body which has been brought about by the influence of a cold, damp atmosphere, depressing passions, bad food & cloathing, crowded apartments and the indulgence of debilitating vices. Hence we find Armstrong who has given us the most able description of the disease, states that it is frequently confined to particular districts of London, owing as he says to the lowness and fetidness of those districts & from their being inhabited by the lowest and most abandoned of society; on whom all those depressing causes so favourable to the production of a Typhus state must be supposed to act with peculiar force. If it were contagious and propagable from person to person, why should it be confined



To these particular districts? May it not be owing to the dampness of the atmosphere, the crowded state of society in the manufacturing towns and consequently great number of poor that Typhus is so common a disease in Great Britain as to give rise to an idea that it is nowhere else to be found; and not to any specific Contagion? We are supported in this view, that whatever debilitates the body and brings down the powers of life predisposes to Typhus fever, by the statements of Remstrong, who asserts that wherever there is general distress among the poor Typhus is certain to appear provided Miasm be generated. An example of this occurred in Ireland in 1817. There had been an entire failure of the Potatoe Crop from long continued rains which deprived the lower Classes of society, of their usual sustenance, and the sod was so wet that they were without fuel: under these circumstances Typhus fever made its appearance and destroyed great numbers: yet notwithstanding its supposed highly contagious property, those who were able to live comfortably, entirely escaped although they had constant intercourse with the sick. This fact we relate on the authority of an intelligent and highly respectable fellow student who witnessed the circumstances. We also feel ourselves in a measure supported in the opinion we have adopted by the acknowledgements of some who maintain that it is a contagious disease. Good when speaking of Typhus in his Study of Medicine says, "Though febrile Miasm arising from a decomposition of human effluvia has a peculiar tendency to generate Typhus, we have seen that

the same Miasm arising from a Marsh effluvia or a decomposition of dead organized matter, under a peculiar state of modification, has produced remittents of a Typhus Character and sometimes specific Typhus itself." And indeed the same author goes so far as to assert that Typhus may be produced by all the Causes which produce any other fever. And Armstrong although educated in the belief that it was produced and propagated by a specific Contagion and after having taught the same ~~idea~~ ^{doctrine} himself has acknowledged his error with a degree of Candour which does him credit, and states that he now believes it to arise from the same Causes which give rise to Intermittent & Remittent; and that he has seen those three forms of fever pass into each other and also that he believes this peculiar Miasm to be the only Cause, as he has never seen the same Combination of symptoms produced by any other cause. It is true he is still of opinion that in some cases he has seen it propagated from person to person, but it is not at all to be wondered at that he should not be able to divest himself at once of this opinion. Yet the Case which he cites as illustrative of its contagious quality does not tend in the slightest degree to substantiate his position, for the subject had been exposed to the same Causes which gave rise to it in the first Patient.

It is stated by different authors upon the subject that it is rarely Epidemic, and this they ascribe to the slight degree of volatility of the Miasm. This is a singular Reason, for if it be contagious at all, and inter course with the healthy be not

restricted, the more concentrated the virus the more forcible would be the impression; and as we cannot conceive a disease so formidable in its character to be produced by a very feeble poison, it ought to be communicated as readily and be as generally diffused as the Small Pox or any other contagious fever -

It has been urged as an objection to the opinion that this disease is produced by Marsh Miasm, that it occurs at a season when Malaria is generated in very small quantity if at all. This objection cannot be admitted as valid for we do not yet know at what degree of temperature vegetable putrefaction may take place, & provided there be a sufficient degree of warmth and moisture for this process, the lower the temperature the more certainly will Typhus be produced: not from any change effected in the quantity or quality of the poison, but from the more depressed state of the living powers and consequently diminished capacity to resist any offending agent. Hence Typhus is chiefly a disease of cold and humid climates. But on the other hand if the temperature be so low as to put a stop to the putrefactive process Typhus is at once checked. Thus Armstrong mentions that "whenever the ground is bound up for some days by a hard frost, Typhus ceases to exist in districts where it before prevailed". Bancroft who is one of the most able and ingenious defenders of the doctrine of Contagion of Typhus, has we think completely set at rest the question of the disease being produced by human effluvia.

Among a variety of facts which he has adduced in support of his position, he has cited the Kamshathans & several tribes of Savages upon the authority of M. Lessep, as a people entirely exempt from any species of fever: now it is a little singular that such a man as Bancroft should have inferred that any race of men are free from febrile disease of every description merely because a traveller had not mentioned them in the list of those diseases which he had observed. These people we are informed occupy their huts beneath ground for seven months in the year and live entirely on dried meat or fish; no mention being made of vegetables. Now however noxious the air of these cabins may be to a stranger we should not expect that people whose "ambrosial repast is the Mergal, or fish flung into a pit until it is quite rotten" would feel any inconvenience from the stench which surrounded them. Even if the circumstances present in these situations were capable of exciting a fever in a stranger, it is not probable that those who had been accustomed to their influence from birth would suffer; this is strongly exemplified in the inhabitants of miasmatic districts. The above observations equally apply to the remarks of the same author in relation to the Russian peasants.

In the deportation to Cayenne of 'Job Stone' and others, the prisoners were placed under all those circumstances which we have already mentioned as favourable to the production of the disease, provided vegetable putrefaction had been present, but as this is not even hinted at we do not think that the narrative militates in the slightest degree against

the opinion we are endeavouring to maintain. In the Black Hole at Calcutta they died simply for the want of sufficient Oxygen to support life, and from excessive pressure; and we should as soon have looked for the production of Typhus fever from placing an individual in a partial vacuum, as under these circumstances and have as confidently anticipated his revival upon the free admission of air in the one case as in the other.

The disease as it occurs in our own Country is unquestionably non-contagious, and we find it constantly occurring in those situations most favourable to the production of Marsh Measles, and among those orders of Society most obnoxious to all those depressing Causes likely to give rise to a Typhus Condition of Body, as among the free blacks in our large & populous Cities. In Philadelphia this disease prevails every winter in the Alms house and although the President pupils and trustees frequently suffer, there has never been an instance where the disease has been communicated to any one of their own families. We are aware that those Gentlemen who have embraced the opinion of its being a contagious disease deny the existence of the disease in this Country. In reply to this we can only say it corresponds exactly with the best descriptions which we have of the European disease. But to meet them on their own ground if the disease were contagious it certainly ought to have been imported into this Country after the long & enter course which has subsisted with Great Britain and would certainly have manifested this contagious quality here. Indeed there is no doubt but the disease has been brought repeatedly in Convoit ships, yet in no instance have the patients

been known to communicate the disease to others. It had been alledged that from some peculiar influence of our climate or atmosphere we are either rendered insusceptible of its poison or the disease itself is deprived of its contagious quality. This is mere supposition however unsupported by any analogy. We look with confidence to Armstrong to set aside this doctrine of contagion and have no doubt that the time will arrive when it will be as generally discarded as that of the contagiousness of Yellow fever is at present.

Finis.

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distension? will always cause
constriction - certain fluids

Inquiry Physiological
on the
Phenomena of vomiting
Submitted
as
Inaugural Dissertation
To the Provost & Professors
of the
University of Maryland
for the degree
of
Doctor of Medicine
by
Robert Smith
of
Maryland
April 1st 1825

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The subject which I have selected for my Essay, is one, to which the attention of Physiologists has been conspicuously directed. The point to which I allude is the phenomena of vomiting, or rather that action, or series of actions, by which man & other animals, similarly organized, reject by the mouth the substances which have been introduced into the stomach, or in other words its contents.

The knowledge of the causes, the phenomena & the results of this process, constitutes one of the most interesting points of Medical Theory.

It is a subject upon which a great deal has been written, & yet, notwithstanding the multiplied research, the numerous experiments & reasonings which it has provoked, Physiologists are by no means settled with regard to it. The necessity then of a, thorough acquaintance in what this process consists, what organs perform it, & what modifications it imposes upon those organs, as well as the system generally

The subject which I have selected for my Essay
is one which the attention of Philosophers has been
consequently directed. The point is not, as I shall
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of activity which I mean to discuss, consisting of
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The knowledge of the cause of the phenomena
& the results of the process, constitutes one of the
most interesting points of Natural Philosophy.
It is a subject upon which a great deal has been
written, & yet, notwithstanding the multiplicity of
the numerous experiments & reasoning which it has
produced, Philosophers are of various opinions
regarding it. The necessity of a thought as
preparation in what the process consists in, is
expressed by some of the great Philosophers in various
ways. Some regard it as the action of the

is at once apparent, for it is obvious that we should always be borne out by principles, in the application of the several emetic agents, which are resorted to with therapeutic intentions.

Emetics are so often given by some Practitioners, whilst others on the contrary doubt so much their effects, & proscribe them in so absolute a manner, that it is desirable & important, to the enlightened Physician & humanity, to understand the principles which are to regulate him, in the prescription of an order or class of remedies, which act so powerfully on the principle organs of the economy, & upon the system at large. It is here that Physiology alone can throw any light upon Pathology & Therapeutics. It is the lamp which can alone guide the judicious Physician in practice.

The abdominal muscles, the diaphragm, the stomach & oesophagus, the pharynx & the mouth, are incontestably the organs without which emesis could

not be performed. I do not however wish to be understood as conveying the idea that all these organs are absolutely indispensable to the accomplishment of this act; or that an animal cannot vomit if deprived of one of them. All that I wish to convey is, that all these organs concur in a state of health & in a well organized subject to its performance.

Towards the close of the 17th Century, Physiologists admitted that vomiting was referrible to a brisk contraction, or rather, a violent & convulsive action of the stomach. This view was however held more upon vague grounds than upon any exact, or settled knowledge of facts. Their attention was in no manner directed to the abdominal muscles, & the idea that the oesophagus or the diaphragm contributed to the process, was altogether remote from these reasonings.

Francis Bayle Professor of Physic in the University of Toulouse, appears to have been the first who studied the phenomena with a view

not to perform. I do not know what the law
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to a rational Theory, he directed his attention to the subject whilst occupied in other researches connected with the living laws. His experiments on living animals so far as they go, appear to have been executed with much address.

The name of Francis Bayle is distinguished in the annals of experimental Physiology, but unfortunately, ~~he~~ set out with his mind so strongly imbued with mathematics, that in his reasonings connected with the animal economy, he seems to have forgotten that it was regulated by a vital principle. On the subject however which we are now examining, his mathematical principles led him to a nearer approximation to the truth, than his predecessors. His calculations induced him to reject the stomach as too feeble to reject its contents. He regarded this viscus as altogether passive, & referred the phenomena of vomiting exclusively to the contraction of the abdominal muscles. I am aware that this view of the subject has been given to Chiase, but the merit of the hypothesis belongs

uniquivocally to Bayle, whose dissertation on the Subject was written in the year 1681—

Chirac was first Physician to Louis the 15th & it was not until the year 1686, that he published his physiological researches. In the same year he published his Theory of vomiting which is precisely the same as that of his predecessor Bayle—

The experiments & conclusions of Chirac may be seen detailed in the Memoirs of the French Academy. (An 1700).

The celebrated Anatomist Linnæus adopted to a certain extent this theory, he contended that the Stomach contributed to the Phenomena, whilst he admitted that it chiefly depended upon the diaphragm & abdominal muscles. From this period Physiologists became greatly interested in the subject. Linnæus remarks that it seduced the learned as well as the ignorant. Linnæus himself entered the lists & denied the legitimacy of the deductions of Bayle & Chirac.

Little was one who opposed this view & especially Haller whose imposing authority went very far in overthrowing the new doctrine. Little maintained that the stomach was furnished with strong muscular bands, capable under provocation of powerful contraction. He supposed that this contraction was sufficient to discharge the contents of the stomach, & that consequently this viscus must be regarded as the essential organ in vomiting.

Siutand grounded his hypothesis on a case which came under his observation. It was a female whose disease indicated the necessity of an emetic. The most powerful agents of the emetic class were administered without producing any effect whatever, the woman died. Siutand anxious to ascertain the cause of this singular phenomena opened the body. The stomach was found enormously distended, its textures presented however no evidence of inflammation, in fact we are informed that they were natural & healthy. The inference which Siutand drew, was

that the enormous distention had paralysed the power
of the stomach, & that in consequence it was in-
capable of contracting upon its contents. To this
cause he referred the incapability of vomiting. He
states that the abdominal muscles & diaphragm
were in a sound state & that nothing opposed their
contractions. If this case however be surveyed as it
should be, it is evident that no arguments can be
drawn from it adverse to the theory of Bayle &
Chiac. In the view which Licutand takes respecting
the powerless state of the stomach we perfectly
agree, not so however in the conclusion to which he
comes. That the stomach must feel primarily the
impulsion of the emetic agents introduced into it there
can be no doubt, now in this case it was incapable
from the paralysed state of its vital powers of any
such impression. The connection between it, the
abdominal muscles & diaphragm was in consequence
interrupted, and it was to this cause that the

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peculiarities of the case are to be referred. The case in no manner establishes that the stomach alone by its contraction expels its contents—

The experiments of Magendie, to which we shall presently refer, renders this more than probable. Haller, who in his day so ably treated of the subject of general anatomy, gave to the stomach two modes of contraction, both of which he considered necessary to the explanation of vomiting. The one, antiperistaltic produced by the longitudinal muscular fibres, originating in the duodenum & propagated towards the cardiac. The other a motion of the stomach brought about by the fleshy bands which descend from the oesophagus & spread themselves obliquely upon its surface, the contraction of these fibres producing an approach of its parieties, & consequent diminution of its cavity. On this subject, Haller by no means manifests that sagacity which on most other subjects is so conspicuous in his writings, he gives us no

experiments upon which he rests his reasonings & he even confesses that in his numerous experiments upon living animals never to have seen the second species of movement which he has called to his aid explanatory of the function of vomiting.

Such however was the empire exercised by this illustrious Physiologist, & such the magical influence of his opinions, that his theory on vomiting defective as it was received the general consent, accustomed to accredit all that he advanced, some undertook to examine critically & by cautious induction what he revealed as truths. The doctrines which he taught were therefore universally adopted, the few who were incredulous of his opinions were hushed by his imposing authority. It is to this cause that we are to infer the neglect of the opinions which had been previously inculcated by Bayle & Chirac, Opinions which were founded on various & multiplied experiments, & which may be tested by any individual who will examine for

of the function of writing.
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himself. Their theory established on the only rational & solid basis was set aside by illustrations the most forcible, illustrations which were deduced from the arrangement of the fleshy fibres of the stomach. The authority of facts was thus overthrown by the authority of a great name & the common herd always more ready to be seduced by ^{the} one, than enlightened by the other, sanctioned the most erroneous principles, which had they examined would have been found unstable & led to an earlier triumph of the truth.

It is to Magendie, so well known for his ingenuity & address in experimental physiology that we are indebted for having revived the subject. His paper containing the result of his researches, was read before the French Academy in 1813 (25th of Jan^y). His views which went to support the theory of Bayle & Chirac were however far from being received in all their extent & his paper produced as lively & as pertinacious a discussion as when originally promulgated by his predecessors.

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To the comprehension of the subject in all its extent, it will be necessary to pass over in the abstract the groundwork of Magendie's conclusions, together with the several objections which have been brought forward in opposition. It is only by submitting the opinion of Physiologists to a strict examination that we can anticipate arriving at a clear & settled digest.

The first experiment of Magendie was made upon a full grown dog to which he gave 6 gr. of Tart. Emetic, so soon as its impression became manifest he made a small incision into the linea alba, opposite to the stomach, into which he introduced his finger in order that he might be enabled to ascertain whether or not the stomach contracted. at each effort of the animal the finger was compressed by the diaphragm & abdominal muscles, this contraction was of course sensibly felt by the stomach but so far from this viscus contracting as auxiliary to the expulsion of its contents, it on the contrary seemed to augment in volume

Magendie next extended his incision into the linea alba, for the purpose of observing with greater accuracy the movements of the stomach, the nausea & vomiting continued, & it was evident beyond contradiction to himself as well as his associates, that the phenomena of vomiting which had been referred by Haller to the stomach as the most active agent, was entirely referrible to the diaphragm & abdominal muscles, the stomach experiencing no contraction which was proper to it during the process. The above experiment was repeated several times with the same result. They prove beyond cavil or contradiction that it is the pressure exercised on the walls of the stomach by the surrounding muscles that dislodges its contents & establish the validity of the view as originally advanced by Bayle & Chirac.

Not satisfied with the deductions which he drew from the above isolated experiments, Magendie so modified his researches as to place the matter

The first part of the paper is devoted to a
discussion of the general principles of
the theory of the microscope. It is
shown that the resolution of the microscope
is not only dependent on the wavelength of
the light used, but also on the numerical
aperture of the objective. The author
discusses the various methods of increasing
the resolution, and shows that the use of
ultra-violet light is the most effective
method. The author also discusses the
importance of the quality of the glass
used in the objective, and shows that
the use of special glasses is necessary
to obtain the best results. The author
concludes by showing that the resolution
of the microscope is not only dependent
on the wavelength of the light used,
but also on the numerical aperture of
the objective.

beyond doubt, he put ʒss. of Tart. emetic in 2 ounces of water, & injected it into the jugular vein of a large spaniel dog, & immediately, made an incision in the linea alba, sufficiently large to enable him to draw the stomach out of the abdominal cavity. The efforts which characterized vomiting was soon manifested, & quickly became violent, every exertion was made by the animal to vomit, but not a particle of the contents of the stomach was rejected, the organ remaining immovable in the midst of the general convulsive efforts. The experiment was several times repeated, & the result was similar: proving that however great the contraction of the surrounding muscles may be in vomiting, yet the stomach itself remains permanently passive—

Magendie still solicitous that not the slightest ground should remain upon which to rest an objection, determined to extract the stomach completely from the living animal, & to substitute in its place a common bladder. This object was to ascertain whether liquids

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determination to collect the second copy from
being omitted, & to substitute in its place a
letter. This effect was to create a better

contained within the bladder would be expelled in the same manner as the contents of the stomach in vomiting. To this end he attached to a bladder a portion of gum elastic catheter, two inches long & a half inch in diameter. The animal was placed upon his back with the feet tied & extended, so that the abdomen might be completely exposed. An incision was made in the linea alba & the stomach extracted, the gastric vessels were all tied before they were divided, leaving a sufficiency of the cardiac portion of the stomach to be gathered about the catheter, he withdrew the stomach & the bladder was introduced, & the tube firmly fixed. The bladder now occupied the place of the stomach, the opening in the abdomen being well secured by sutures. The bladder was next filled with a colored ^{fluid} by means of a tube introduced by the mouth: things being thus arranged 4 gr. of tart. emetic in solution was injected into the jugular vein, nausea soon commenced which was succeeded

by strong efforts to vomit, ^{the} colored fluid contained in the bladder was thrown out by the mouth, precisely after the manner of vomiting, nor could it be perceived that there was any diminution of the powers which in the natural state are destined to produce vomiting.

This singular experiment was repeated several times with the same result; they incontestably proved that altho' the stomach may concur in the process, that it is by no means the only organ interested. This part of the problem being established, Magendie determined to find out what parts, & to what extent the abdominal muscles, diaphragm & oesophagus contributed to this process, this consideration may be considered secondary, but still it is all important to a clear rationale of the process—
In his experiments for the purpose of illustrating this point, he commenced by ascertaining the extent of the agency of the abdominal muscles, to this end he cut up their attachment to the ribs & linea

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alba, & turned them off the abdomen: The muscles were
^{so detached}
as to leave only the central fibrous tendon or the linea
alba, & the peritoneum as a covering to the abdominal
contents. Through the peritoneum the movements of
the viscera could be readily observed, 3 gr. of tartar
emetic in solution was now injected into the jugular
vein, which in a short time produced strong efforts
to vomit, ending in the discharge of the contents of
the stomach. This effect was produced by the violent
contraction of the diaphragm, the stomach which
was carefully examined thro' the peritoneum showed
no signs whatever of contraction. At each convulsive
contraction of the diaphragm the ^{abdominal} contents were so
violently forced down as to rupture the peritoneum
in several places, the tendinous central line was
the only part which resisted its efforts & altho'
passive, the efficacy of its existence was proved,
for on dividing it the contents of the stomach
escaped with much less force. This arose from the

Stomach being compressed with much less force when the
diaphragm ^{acted.} His next object was to ascertain the extent
to which the abdominal muscles participated; for this pur-
-pose it was necessary that they should be left entire
& the powers of the diaphragm withdrawn. The disposition
of the diaphragm being such as to render it impossible
to destroy ~~the~~ ^{its} movements without killing the animal,
it became a matter of necessity to render it powerless
by other means, to effect this however appears no easy
matter. If the diaphragm received its nerves solely from
the Phrenic their section would necessarily produce a
complete paralysis, but as the diaphragm receives several
filaments from the dorsal portion of the spinal
marrow, we would be led to infer that a simple section
of the phrenic would not entirely paralyze it, & if we
were to divide the spinal marrow, the diaphragm it
is true would be cut off, but ⁱⁿ doing this we should
should also paralyze the abdominal muscles. In this
respect there ^{we} would be induced to infer that experiments

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with regard to the agency of the diaphragm must be to a certain extent imperfect. Yet data sufficiently opposite to one purpose are still left upon which conclusions may be rested, as the following experiments of Magendie will shew. In a large dog the Phœnic nerves were divided in the neck, & at the same time a portion of tart. emetic was injected into the veins, in a short time the indications of its impression become evident, but the vomiting which followed was very feeble, permitting a little time to elapse ($\frac{1}{4}$ of an hour) a second portion was injected but without any efforts whatever succeeding. The abdomen was now opened & the stomach compressed betwixt the two hands, this however failed to excite its contents, not even nausea was present. In the repetition of similar ^{experiments}, the same phenomena always took place.

Subsequent to the researches of Magendie, Legallois & Bectars associates, have presented us with the results of their interesting researches, in

several departments of Physiology. The subject under consideration attracts their experimental enquiries: they think that the division of the phrenic nerve, is followed by a complete paralysis of the diaphragm, as they uniformly remarked, that so soon as the nerves are divided, the diaphragm becomes quiescent. The experimental proof of this fact consisted in elevating the sternum & anterior portion of the ribs of the animal, & maintaining respiration by means of the insufflation of air. They found that immediately on suspending the introduction of atmospheric air, the diaphragm pressed down with great force, whilst at the same time the ribs were elevated, these motions were constant, whilst these movements were going on, they divided the phrenic nerve of the left side, & immediately half of the diaphragm of the same side became immovable whilst the other side continued to contract, upon cutting the right phrenic nerve the corresponding portion likewise became quiescent. This

experiment establishes that the diaphragm is the principle & most important organ in vomiting. The abdominal muscles concurring only indirectly by the resistance they offer to the diaphragm.

The next point which Magendie felt solicitous to settle, was to ascertain whether or not the œsophagus contributed to the process, & to what extent. For this purpose it was necessary to destroy both the action of the abdominal muscles & diaphragm, with this view he detached in a large dog the abdominal muscles, leaving nothing as a covering to the belly but the linea alba & peritonium.

The phrenic nerves were also divided in the neck, things being thus managed, a strong solution of tart. emetic was injected into the jugular vein without effect. It was again injected without producing any sensible effort to vomit. Magendie however informs us however that if the abdomen be simply opened & the stomach left in situ that

vomiting may take place by the violent & quick contraction of the inferior ribs, pressing from right to left; the diaphragm at the same time depressing itself & the œsophagus drawing up. This compression of the hypochondria combined with the traction of the œsophagus, may even be carried to such an extent that liquids contained within the stomach will be rejected, altho the diaphragm be paralyzed by a section of the phrenic nerves in the neck.

It has long been an established fact that the progression of the alimentary materials ⁱⁿ the ^{œsophagus} diaphragm is especially owing to the contraction of this tube.

Physicians have laid bare the gullet in the neck & have described its action during deglutition.

Haller is particular in his description of the mechanism of deglutition, but there is a phenomenon which has escaped his attention, nor can I discover any notice of it except in the writings of Magendie. It is a constant alternate motion of contraction &

relaxation of the lower third of the oesophagus.

If the finger be introduced into the chest thro' an opening made upon the left side the oesophagus may be felt alternately rigid & relaxed. In its relaxed state it is soft & readily displaced, whilst in the opposite state, or that of contraction it is firm & resisting. The contraction commences at the superior third of the tube & is gradually prolonged to the cardiac

Magendie regards this motion as altogether independent of irritation, he thinks that it is kept up by the filaments of the pneumo-gastric nerves, to which form a compact plexus around the inferior portion of the oesophagus. On dividing these nerves it was found to cease instantaneously. During the contracted or rigid state the cavity of the tube is completely closed, its walls being so closely approximated as not to permit even fluids to pass. The mucous membrane which lines it internally is projected more or less into the stomach in the form of a hood. The contracting

are more frequent, stronger & more prolonged when the stomach is distended with aliment than in a state of vacuity. After each deglutition it remains for some time contracted as if to prevent the regurgitation of the food swallowed, causing it to remain until the stomach is habituated to its impression, & commences to act upon them. nevertheless the substances introduced into the stomach frequently ^{escape} from that organ, into the canal which is above it, when the contraction of this canal has disappeared before that of the stomach. But even in ^{this case} the egesta seldom reach as far as the pharynx for when regurgitation does take place as soon as it reaches the inferior third of the esophagus it contracts immediately & presses it again down into the stomach. The egesta never rise up in the mouth except in such cases as when they excite disgust, or when driven in great force or in large quantities they irritate the mucous membrane of the pharynx, producing a relaxation of the fibres of this canal, or

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invented peristaltic action through its whole extent.

It is from this mechanism that we are to refer the regurgitation which we frequently observe in infants. Rumination in the herbiviri is excited after the same law.

From the above facts it is very evident, that the oesophagus is not passive in vomiting.

The Physiologists who have arrayed themselves in opposition to Magendie have in this respect fallen into a serious error. They have, one & all, neglected the consideration of this organ. In their experiments & speculations they have regarded exclusively the stomach neglecting to take into account the other organs, the co-operation of which are indispensable to the full execution of vomiting.

When the oesophagus is destroyed in the neck part. emetic whether introduced into the stomach, or injected into the veins, produces the same effect? it is the same also when the gullet is divided at different heights in the thorax until we arrive within two inches

inverted position, the action through its whole extent.
It is from this mechanism that some have derived the
conception which we frequently observe in nature.
Comparison in the position of matter after the same
From the above facts it is very evident that the
configuration is not perfect in itself.
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mechanism of which are indispensable to the
execution of working.
When the hypothesis is adopted in the
but makes a better relation with the organs,
exists in the same manner the same effect.
is the same also when the matter is divided at
height in the three parts we have seen in

of the diaphragm. If a section of the œsophagus be made at this point & the whole of it be dissected out, leaving the pharynx, tart. emetic injected into the veins will also produce vomiting. But if the portion within two inches of the diaphragm be cut away in a level with it & the whole of the œsophagus at the same time be dissected out, tart. emetic injected into the veins produces no effect whatsoever. The last experiment was repeated by Magendie several times & in every instance with the same result—

The experiments of Segallio & Beccard on the same subject have presented us with highly interesting results, & whilst they agree with Magendie that tart. emetic will produce no effect (the œsophagus being entirely removed) when injected into the veins, yet if it be placed within the stomach its impression becomes immediately manifest. Their results are interesting in as much as they lead to a positive conclusion that tart. emetic when injected into the veins

owes its operation, to the impression which it produces primarily upon the œsophagus, consecutively extending to those organs, the concurrence of which produces full & complete emesis.

In the experiments of Legallois & Bectard, they find that when the œsophagus was detached from the pharynx & extracted, hanging from the neck of the animal, that it alternately contracted & relaxed giving evidence of a strong peristaltic action, commencing above & extending towards the cardia. The motions were regular & to a certain extent synchronous with respiration. When vomiting, was provoked, the œsophagus was drawn up by powerful & successive jerks. Independently of the traction or drawing up which the œsophagus exerts upon the stomach, it also performs other functions during vomiting which have been noticed by the same experimentalists. They remark that it is not often, until repeated & ineffectual efforts that the animal

subjected to experiment discharged all at once a large quantity of the stomach's contents, several efforts were made terminating in one which expels a large quantity, according to these gentlemen all these antecedent efforts serve only to accumulate by small quantities the contents of the stomach in the esophagus which drawing up & contracting discharged them with more or less force.

It is no doubt upon the same principle that after nausea has existed for some time unaccompanied with any distinct effort to vomit, that all at once a flood of matter is discharged & without any effort or manifest contraction of the abdomen. It is also upon the same principle that eructation takes place —

The Physiologists, who in opposition to Magendie, contend that the stomach is the chief & most active organ in vomiting, ground their conclusions for the most part upon experiments which were made a long time ago. To say the ^{least} ~~best~~, these experiments should have been repeated by them, but instead of doing this

They content themselves ^{by} declaiming against vivisections. They contend moreover that experiments on living animals, furnish no legitimate data upon which absolute & rigorous conclusions may be founded, concerning similar phenomena in man, & that it is impossible that the phenomena of healthy organs can hold any parallel with those exhibited in dogs who are suffering under any acute pain & convulsions & who in fact are tortured to death. These arguments, if such they can be called, are specious; they are calculated to subvert our common sense in the appeal which they make to our humanity. If Physiologists were all to permit themselves to be influenced by such feelings the science of life would be at end. To what cause are we to refer the progress which has, of late years, been made in Physiology? is it not to the experimental zeal with which the subject has been explored, protracted experiments & we shall soon see closet dreamers & speculations without number, & with them Physiology

4
The first thing I should mention is that
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evaporating into air, nothing without "local habitation
or name".

It is only by experiments that we can establish any thing fixed or certain in physiology, & with regard to the subject under consideration, the sole means which can enable us to know whether the stomach does contract, is to examine the organ in an animal during the process of vomiting. By what train of reasoning, by what inductive physiology can we overthrow the facts which have been revealed to us by the experiments of Magendie, Legallois & Bectan on the subject in question. The opponents of Bayle, Chiarac & Magendie refer to the facts as stated by Wepper & Haller, who inform us that they have in their researches seen the stomach contract. These assertions are brought forward with the seeming confidence that they are unanswerable.

It is true that Wepper & Haller have informed us that they have seen contractions in this viscus, but

without at all calling in question the integrity of their
~~of their~~ statements, why should it not be acknowledged
that these philosophers were mistaken, the laws of
the economy are the same now as they were in their
day, & we may ask by what strange anomaly ^{they were} enabled
to discover that which could not be made evident to
Magendie to Bectard & Legallois. whatever may have
been remarked by Wepper & Kaller we consider as altogether
inconsequent & to bring forward the facts as stated
by them at the present day, in opposition to the
enlightened authority just cited, to say the least, looks
like being driven to the last extremity.

It is maintained that if an incision ^{be practised in} the anterior
wall of the abdomen & corresponding to it, another incision
be made into the stomach, that on introducing the
finger the contractions of this viscus can be readily
felt during vomiting. But M & L Begin, who has
repeated these experiments denies that any such con-
traction will take place, the sensation of contraction

which the finger experiences is evidently referrible to the contraction of the abdominal muscles. He states, in fact, that nothing positive with regard to the stomach can be ascertained in this manner for the finger being introduced into the stomach, it must necessarily be gathered up, or rather be compressed at each contraction of the abdominal muscles & diaphragm. Mr. Began so modified his experiments as to be enabled to combine the sense of sight with that of touch: the abdomen was accordingly laid open, & the stomach exposed to the combined inspection of both senses. No contraction whatever of the stomach could be discovered - We have here the testimony of one sense rectified by that of another, & surely a fact established by the combined operation of both, is more ^{worthy} to be credited than one simply established upon impressions separately transmitted by one, (that of touch) & under circumstances too in which erroneous conclusions may be readily drawn.

Portal, who advocates the theory which

endeavors to establish that the stomach is active; feels himself borne out in maintaining this view by the following experiments. He selected two dogs, to one he gave a portion of arsenic, to the other nuxvomica.

The first dog very soon manifested the operation of the arsenic by hiccough, vomiting & violent convulsions. In this state he opened the abdomen by an incision on the right side, so that he might be enabled to see the stomach; the vomiting still continued & he informs us that he distinctly saw the stomach alternately contract & relax with great force, & that this uniformly took place in the act of expiration. He informs us that he, several times, compressed the stomach (betwixt his hands) when the diaphragm was in a state of contraction, for the purpose of ascertaining whether mechanical pressure would force the contents of the stomach into the gullet, & thus produce vomiting. But he tells us that all his efforts were in vain, from the circumstance of the strong compression

which the diaphragm exercised upon the lower portion of the oesophagus when in a state of contraction.

The dog, to which he gave, the *nux vomica* vomited violently, & continued to vomit notwithstanding the abdomen was laid open. Portal concludes from these experiments that vomiting can take place by the stomach after the muscles of the belly are divided, this we do not deny. The experiments of Magendie which we have already exposed prove this incontestably.

But Portal refers the vomiting entirely to the stomach, remarking that the diaphragm has little to do with it, in as much as the passage of the contents of the stomach into the oesophagus only takes place during expiration or when the diaphragm is in a state of relaxation.

Portal has fallen into a very serious mistake & which overthrows all the inductions which he has deduced from his experiments, he states that in an animal during vomiting the stomach appears to

contract during inspiration & dilate during expiration -
now this we admit, but we cannot agree with him,
when he says that the first of these phenomena
coincides with the contraction of the diaphragm & the
latter with the relaxation of this muscle. During the
efforts exercised by the diaphragm & in the most violent
contractions of this muscle, expiration for the most
part takes place. This assertion, it is true at first
sight appears paradoxical nevertheless the proposition
is readily demonstrable. When the diaphragm contracts
violently upon the abdominal viscera, it is scarcely
depressed, or at any rate it depresses itself with very
great difficulty growing out of the resistance which
the viscera oppose, sustained & kept up as they must
of necessity be by the abdominal muscles. The
abdominal viscera are compressed, in fact between two
forces which antagonise each other. If the diaphragm
were depressed the abdominal muscles would become full
or protuse, this however we know does not take place

in the efforts to vomit. The abdominal muscles are on the contrary very much depressed towards the epigastrium & under the false ribs. In the struggle which is thus established between the diaphragm & abdominal muscles, the diaphragm which is far the feebler force of the two would be readily overcome, & the viscera within could not be so effectually compressed if it were not for the auxiliary forces of the intercostal muscles; which forces cooperate to depress the thorax. The air in the lungs would now escape but the glottis being closed & preventing it, it must necessarily react upon the thorax & especially the diaphragm. It is the intercostal muscles, & the air kept in the thorax by the glottis which enables the diaphragm to counterbalance with advantage the action of the muscles of the abdomen. Connected with the consensus, thus established respiration is momentarily arrested, the glottis finally yielding the air escapes producing that peculiar noise which is so characteristic of vomiting. The diaphragm is at this

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junction deprived of the auxiliary powers which sustain
it & of course yields also, the viscera are, at the same
time forced up towards the thorax. A temporary calm
now succeeds, deep & full inspirations are ~~now~~ made
to repair the loss which the suspension of respiration
had occasioned: the calm continuing until the contraction
of the abdominal muscles are renewed. The efforts to
vomit never takes place during inspiration, the discharge
of the contents of the stomach is attended with the
expulsion of the air contained in the thorax at the
instant that forced expiration takes place, the
stomach is compressed & continues to be so until the
diaphragm overcome by the abdominal muscles yields
& is forced up in the thorax producing a forced
expiration of the air contained in the lungs.

The truth is Portal mistook for the relaxation
of the stomach, the projection which this viscus
makes when it is pressed from above by the diaphragm
& laterally by the ribs, & he on the contrary further

mistook the cessation of this projection for its contraction. The least attention is sufficient to show how erroneous his conclusions are, for simple pressure with the hands will not empty the stomach: its contents are never emptied or forced into the oesophagus, except when the diaphragm contracts. The contraction of this muscle accompanied with a traction or drawing up the oesophagus is absolutely essential to its protraction.

Some time after the publication of the memoir of Magendie, M. Maingault read to the Society of the faculty of Medicine a monograph in which an attempt is made to overthrow the theory of Magendie. The committee appointed to report on the merits of this paper was composed of Legallois & Bectard, the experiments of M. Maingault were repeated before them; but the report of these gentlemen so far from agreeing with the author, deduced from their conclusions entirely conformable to those of Magendie.

M. Bérard in his course of experimental physiology has repeated the experiments of Magendie before a large audience. His pupils have seen & examined for themselves & their conviction has uniformly been, that of all the organs which concur in the process of vomiting the stomach is the feeblest & of itself incompetent to the act. The experiments of Magendie have also been repeated in England & Germany & in no instance have we the legitimacy of his results contested by those, who untrammelled by prejudice have deliberately examined for themselves. A theory resting as this does upon premises which have been so repeatedly examined & by Physiologists so competent to judge must be regarded as beyond the reach of sensible criticism. Magendie's paper was read before the first class of the Institute. Cuvier, Humboldt, Penel & Percy were commissioners to enquire into the verity of his experiments. The report was decidedly in favor of Magendie—

Mr. Rogers in the course of experimental physics
has reported the experiments of the apparatus of the
a large distance. The paper has been examined
thoroughly, then corrected, and a copy of the
that of all the experiments was given in the
of examining the apparatus in the further
experiment to be made. The experiments of the
have also been reported in Rogers's Journal
and the apparatus was in the hands of the
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in form of a paper.

Distinct from the objections which we have just canvassed, it has been maintained that if the Stomach was not the most essential organ in vomiting, that this act would be provoked every time the Stomach was compressed by the abdominal muscles & the diaphragm. And it is asked, how is it that vomiting does not take place under those circumstances in which great pressure is exceeded as in parturition, the evacuation of the faeces & the numerous & various efforts the abdominal muscles undergo in sustaining burthens. And if say they that vomiting is dependent upon pressure exterior to it, how is it that vomiting does not take place. The conclusion from the above facts would be just if the abdominal muscles & diaphragm were the only organs concerned, but there exists many other organs, the concurrence of which is indispensably necessary to the accomplishment of the act & which are not taken into account in summing up the above objections.

It is not only necessary that the stomach should be compressed but the ~~oesophagus~~ must also be the seat of antiperistaltic contractions, which cause it to admit through the cardia, the materials of the stomach, transferring them by a force peculiar to it to the pharynx. The latter continues the movement projecting them into the mouth. Now the concurrence of all these organs is altogether wanting in the objections which we are now encountering, moreover the ~~oesophagus~~ ^{oesophagus} opposes itself actively (Magendie has proven to the egress of the substances within the stomach, experience teaches us that this tube presents in its inferior third strong contractions during which the contents of the stomach cannot issue from it. If we pay attention after a full meal to what we experience, more especially if the alimentary materials offend the stomach we find that an effort is necessary to dispose the oesophagus to reject a passage to the food, attention to this is

often necessary in order to maintain a state of contraction
in the esophagus & if for a moment our attention be
withdrawn we are surprised with a regurgitation of food,
which we may distinctly feel & which we can cause
to recede before it reaches the mouth, by causing
a strong movement of deglutition, & strongly contracting
the esophagus. ^{It} is evident that in this case the
stomach distended beyond its proper relations, or of-
fends in its functional capacities, & contracts in
order to disengage itself of its contents. The force
is felt both in the pylorus & cardia, the pylorus
will not admit them ~~because~~ because they are not
sufficiently elaborated, & the cardia refuse them on
account of the contraction of the esophagus. But
if they are urged towards the esophagus at the
moment that it is relaxed, & enter its cavity,
antiperistaltic actions may be produced & regurgitation
take place. It is in this manner that we see
dogs vomit when their stomachs are gorged. And vomiting

may also be produced in them by strongly compressing
their stomach betwixt the two hands, provided the
pressure is exercised when the œsophagus is relaxed.

The muscular fibres which enter ^{into} ~~the~~
the composition of the stomach, are under the influence
of the impressions, made upon its internal mucous
tissue. During chymification the chyme is carried
towards the pylorus in proportion as it is formed,
by the action of the muscular fibres which act
by a slow undulatory motion, & when any portion of
the alimentary materials not yet elaborated present
themselves towards the pylorus, they are rejected &
carried back, to be farther submitted to the action
of the stomach. In birds of prey feathers & other
substances not digestible, which they swallow in
their repasts are gathered together in the cavity of the
stomach, & carried towards the cardia, this highly
sensitive part becomes irritated & a slight contraction
of the abdominal muscles in conjunction with the

of the abdominal muscles in connection with the
arterial part - former consisted of a slight contraction
themselves, caused however the entire of the belly
their vessels are gathered together in the camp of the
relaxation and the vessels contract they become in
of the stomach. A list of my patients the
cannot back to be further admitted to the
themselves under the system they are given to
the elementary materials not yet to be
by a slow catalytic action, and in my patients
by the action of the stomach. These vessels are
themselves the system is perfected as it is found
before being perfected the system is
of the important parts upon the external surface
the completion of the stomach, in which the system
The muscular fibres which are
performer is needed when the system is
then proceed to the two last periods of the

antiperistaltic action of the oesophagus & stomach is sufficient to cause these substances to pass out of the mouth. The same phenomena takes place in pigeons in feeding their young, they discharge the contents of their stomach in the mouth of their offspring. In animals who ruminate the phenomena is referable to the same law.

Those who contend for the activity of the stomach in vomiting lay much stress upon the number, the volume & direction of the fleshy fibres which form a component part of its texture.

They insist that if the stomach is not the principle agent in vomiting, that these fibres are ~~not~~ given for ^{no} any purpose whatever. The important purposes which they subserve we have referred to, but we would ask what is the most likely means to render us acquainted with their energy & manner of action? Is it to say vaguely that vomiting depends upon their convulsive contraction. is this

calculated to advance us one step towards the truth? Certainly
not. but if we uncover the stomach, stimulate its walls,
& excite vomiting, observing with attention the phenomena
which it presents, we are then in the way of making
clear & legitimate deductions. If under such circumstances
we see the stomach immovable under the most
violent contractions of the abdominal muscles. If on
irritating its walls, whether internally or externally,
by mechanical means, we observe it to present no
other motion than a vermicular movement, common
to the whole intestinal canal, & which by the by,
is less energetic than in the small intestines,
we are necessarily forced to the conclusion that this
motion is the only one the stomach is susceptible of.

Vomiting is an act independent of volition,
an act produced by an irritation of the mucous
membrane of the stomach, or rather of the parts
comprehended under the splanchnic sensorium. There
are examples related of individuals who could vomit

at pleasure, & we have seen some where the still more extraordinary fact of two individuals who could at pleasure control the action of the heart, such examples are, however rare & are to be considered as anomalous to the laws of organic life. The examples of individuals who could at pleasure vomit, cannot be considered as examples of true emesis, they are all mere examples of mere regurgitation. It is said that Bichat could unload the contents of his stomach whenever he thought proper, & M. Montegre in his researches on digestion, published in the gazette de sante, informs us that he could by an effort of eructation bring up the contents of his stomach. He availed himself of this faculty in his investigations on the subject of digestion. Richardson in his elements of Physiology, mentions a similar case of a gentleman attached to the war office.

On the whole then we may conclude that emesis cannot be produced unless an irritation of a

peculiar nature be provoked in the mucous membranes of the superior part of the digestive canal, this irritation acts powerfully upon the mucous ^{follicular} ~~gagular~~ glands & exalent vessels, the immense quantity of secretion which they pour out proves this. Darwin relates the case of a man, who had swallowed but a pint of drink, but who on vomiting immediately, after discharged six pints of liquid. The duodenum, liver & pancreas are also powerfully excited, as is manifest from the large quantity of their secretions found out.

So far the mechanism of this process appears intelligible, but with respect to the modus operandi of emetics it may be regarded as a question not easily solved. Physiologists for the most part refer their action to a specific impression upon the stomach inducing in it a convulsed antiperistaltic action. This rationale of their operation is by no means satisfactory for we know that emetic substance injected into the veins will produce the same effect

as when taken into the stomach, & experiment has proved that vomiting will take place even when this organ is extirpated. This fact proves that the impression of emetic agents upon the stomach is by no means indispensable to their operation. It would seem that the impression is received by all the organs under the dominion of the splanchnic sensuum. We know that this constitutes the great centre of the sympathy, which we so conspicuously manifested in the course of organic life. It is here that the impression of emetic agents must be primarily felt & consecutively transmitted to the moving organs whose action is so essential to the execution of vomiting. The subject is one surrounded with difficulties & why fast. emetic injected into the jugular veins should produce the same characteristic impression as when taken into the stomach, we cannot so readily explain. We are much in want of proper data to enable us to know upon what principle it is that different substances produce

different effects upon the life & textures of the various organs of the body. To say that they operate by an impression upon the stomach, which impression modifies the vital relation or movements of the whole system, or its particular dependencies is to generalize upon too narrow a foundation, & which if deliberately canvassed, will be found incompetent to illustrate many interesting phenomena, which we see daily manifested in our administration of the therapeutic means. We in the first place know, that many agents exert a marked impression upon certain organs. Cantharides & turpentine when administered in a given dose uniformly operate upon the bladder, mercury acts upon the salivary glands, & cream tartar provokes powerfully the secretion of the liver. arsenic, when applied externally, kills by being absorbed & producing inflammation of the stomach. Are we in explanation of these facts to rest satisfied with the assertion but their effects were referrible to an impression on the stomach, sympathetically extending

by nervous irradiation to the organs which especially
manifest their agency. We hold such ~~an~~ explanation as
unphysiological, would it not be more in accordance
with reason to explain their operation upon the fact
of their being absorbed: That turpentine is absorbed we
have evident proof of in the violent odour which it
imparts to the urine. Not that we for a moment
suppose that it is thrown off by the kidneys on the
contrary we regard it as thrown off by the mucous
membranes of the bladder. We are borne out in this
view from its being recognised in the lungs, its agency
in chronic bronchitis & in leucorrhoea, an agency growing
out of the circumstance of its having a relation
with the secretion & vital properties of the mucous
membranes. That this is the manner that turpentine
act, we infer from the fact of the genito-urinal ~~as~~
well as the pulmonogastric; both discharging it
with their secretions. In the case of inflammation
of the bladder, it does not produce its effects by

virtue of any alteration which it impresses upon the secretion of the kidneys, it cures by its direct stimulant impression upon the capillary secreting system of these features. We consider this proved from its being equally efficacious as we have just stated, in leucorrhoea, & in chronic discharges from the uterus as well as in chronic bronchitis. Madder is deposited in the bones & in no other feature of the body & this because it holds a relation with the constituent elements of this feature.

May not tart. emetic whether injected into the veins or introduced into the stomach produce its effects upon a similar law, operating upon the mucous membranes about the cardia &c.

What is here proscribed would seem to gain additional strength from the fact of tart. emetic producing the same effect when applied to the serous surfaces, here it must act by being absorbed as arsenic does & not only is the mucous membranes of the gastric system irritated but that of the lungs is likewise.

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An
inaugural essay on cancer
submitted

to the examination

of the

Rev. James Kemp D. D. Provost,

the regents and medical professors

of the

University of Maryland

for the

degree of doctor of medicine

by

Washington W. Hitt

April 1 1895

Benjamin H. Hickman M.D.

I take the liberty of dedicating to you this little essay; and permit me at the same time to assure you that the gratitude which I feel for your kindly attention and useful instruction, as well as the respect I entertain for your private and professional worth will remain with me unto death.

H. H. Hitt

The term cancer or carcinus is of greek origin and imports a crab; the disease being thus called from the canceriform or crab-like ramifications of the dark, distended veins of the cancerous tumour.

With Hippocrates, we may perhaps more properly, consider all the species as comprised in the occult and open cancer. A cancer then, is a hard unequal tumour with or without ulceration - We call that an occult cancer that is not yet burst, and that an open one which is ulcerated.

Dr Cullen places this genus of disease in the class local and solid tumours - He defines it a painful scirrhous tumour terminating ^{in a} fatal ulcer - Since Cullen's time many writers of the present day, among whom are Dr Baillie and Mr Abernethy concur in regarding it as local alone - "If the disease be merely local, it is difficult, and perhaps insuperably difficult, to say why a blow on a conglomerate gland, as the breast for example, should some times produce a cancer but more generally not: or what that power is that excites the cancerous action in one person, from which another, or perhaps a hundred others, remain free upon an application of the very same injury to the same organ. A blow on the knee often produces white swelling; but ten thousand children receive blows on the knee without any such effect following - In this case we resolve the difference of result, without controversy into the presence or absence of a scrophulous constitution; and without this view of the subject we should find ourselves at a loss for an answer.

The cases, moreover, in which cancerous tumours are found in other parts of the body after one, or more than one, has been extirpated lead us by an easy thread to the same conclusion,

provided the tumour has been removed in an early stage of the disease; and before ulceration has taken place; for it is possible that the specific matter of a cancer, generated and matured locally, may be absorbed and deposited on the organs which are afterwards affected - "But if the extirpation have taken place before the formation of the specific matter, it is not easy, except by a constitutional taint, to account for any subsequent appearances -"

The cases related by our present professor of Surgery (whose opinion we venerate, and whose talents we view with admiration) all tend to establish it as constitutional - "The case of a lady whose ^{from her} husband having failed in business had a thousand ulcers on her skin of a cancerous disposition; after which the womb became affected and she died - The case of a man who from grief had them all over his skin - Some men of strong ambition, in consequence of disappointment become affected with cancer. Thus Buonaparte during his exile on the island of St Helena died of cancer; for upon examination after death the cardiac orifice of the stomach was found ulcerated;

"It is still stronger in proof of an hereditary predisposition that various members of the same family have exhibited the same disease either simultaneously or in succession; and that the descendants of those who have been afflicted with it seem to have more frequently suffered from it than others. It is not necessary to advance individual instances in support of these ~~prop~~ositions. The same remarks have been made upon a general survey of the disease in most ages; and the doctrine of an hereditary predisposition has, in consequence, descended to us as a result of such remarks from the time of the Greeks and Romans."

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Main body of faint, illegible handwriting, appearing to be a letter or document. A small, dark mark or signature is visible near the center-right of the page.

"The truth seems to be" says Dr. Good "that cancer, like gout is dependent upon a peculiar diathesis or state of the constitution, which disposes a scirrhous tumour, or any other occasional cause, to produce a cancerous ulceration, and consequently to generate the specific matter of cancer; which matter once absorbed into the system, even though, by a removal of the local affection, and the influence of a healthy habit, it should remain dormant or be kept in subjection, may augment the original predisposition, and transmit a seminum to the future race."

How far a predisposition to cancer, whether original or derived, may manifest itself by external signs, I am not able to determine. It is perhaps generally visible in those that affect the mind; but far less so in those that affect the body. In phthisis, the predominant diathesis has a striking exterior; in scrophula, the outward and visible sign ^{is far less distinct, though such a sign} seems to prevail generally: in gout, there is no specific exterior that we can depend upon. Dr. Parr, however, has conceived that cancer has its outward character as well as well as phthisis, and that it is indelibly marked in the complexion: "for we have found," says he, "cancer more frequent in the dark cadaverous complexion, than in the fairer kind. The complexion we mean is distinct from the darkness of the atrabilious, or melancholic habits: a blue tint seems mixed with the brown, and is chiefly conspicuous under the eyes, or in parts usually fair. This may, perhaps, be a refinement without foundation, but we think we have often observed it. There is certainly by no constitutional symptom by which it can be predicted, if in women, a scanty and a dark-coloured catamenial discharge be not a prognostic of the future disease. Cancer has certainly been traced in females of the same family."

"In the last two or three cases of cancerous breasts" says Dr. Good "that have occurred to me, the patients have been of fair complexion, and

light hair: one of them indeed, peculiarly so. The lady was about fifty, and had had a large family, all of whom were so fair as to make a near approach to the phthisical exterior, tho' none of them ^{have} ever exhibited its pathognomics.

Cancer has also been considered by many practitioners to be contagious but there seems no sufficient grounds for such an opinion. Inoculation has been said to have produced it; but like many other specific acrimonia, it does not act very readily in this way, even if it act at all; for Mr. Calvert affirms that he inoculated himself and several of his pupils, without any other effect than that of local inflammation; and that even this did not always ensue. It has been swallowed by dogs with impunity.

The parts most usually affected by cancer are the excretory glands, and especially those that separate the fluids to be employed in the animal economy, rather than those that secrete the excretitious parts of the blood. The lymphatics are seldom primarily affected, though they may become tainted from their connexion with cancerous parts. "I never yet" says Mr. Pearson "met with an unequivocal proof of a primary cancerous scirrhous in an absorbent gland" and hence we behold a striking difference between the nature of cancer and scrophula. But though the secretory glands are most open to the attacks of cancer, any part of the body may become its seat. We meet with it however in females chiefly in the breasts and uterus, and in males chiefly in the testes and glands penis, and also in the tongue, stomach, lips, cheeks and angles of the eyes. Women are more subject to cancer than men; and in these the mamma and uterus are the organs most predisposed to its influence. Celibacy as well as the cessation of the menses conduces to its production; and hence antiquated maids are most affected with it;

and nests to them, Mothers who have not suckled their own children. Then follow women who are past child bearing. To which we may add, that when cancer occurs in men it is chiefly in the lips, and when in children, in the eyes. The occasional or exciting causes are numerous: but to account for their efficiency, it seems indispensable, as we have already observed, to suppose the existence of a cancerous predisposition or diathesis, since we see the same causes acting in innumerable instances daily, without betraying any tendency to such a result. When this is present it may be produced by an external injury upon any of the parts most susceptible of cancer; by an indurated and chronic tumour incidentally inflamed or irritated: an accumulation of acrid filth in the rugae of the skin which is a frequent cause of cancer in the testes, particularly among chimney sweepers: the acrimony of an herpetic eruption: a sudden suspension of a periodical hemorrhoidal flux, and a cessation of the menses; and when in the stomach, by a previous life of ebriety or irregular living. With these seven colds seem also to cooperate, as the disease is generally admitted to be both more frequent and more virulent in the high northern latitudes, than in the southern regions of Europe.

When cancer takes place in the breasts, it usually commences with a small indolent tumour that excites little attention. In process of time, this tumour is attended with an itching which is gradually exchanged for a pricking, a shooting, and at length a lancinating pain; a sense of burning and a livid discolouration of the skin. Adhesive bands are now formed in the integuments which become puckered, while the nipple is drawn inward by suction, and in some instances completely disappears; the tumour rises higher toward the surface, and feels knotty to the finger;

at the same time that the sub-cutaneous vessels are distended with blood and show themselves in dark cancer-form varices - The march of the disease may be slow or rapid, for it varies considerably in its pace; but at length the integuments give way in a few points to the ulcerative process, and a small quantity of caustic ichor, or of lymphatic fluid tinged with blood from the eroded vessels, is thrown forth with short and deceitful relief: the ulcerative process in the mean time advancing and spreading wider and deeper, till a considerable extent of surface becomes exposed with a discharge of a peculiar and most offensive fæces - Then again the ulcer sometimes affords a delusive hope of recovery by its granulating; but the granulations are soft and spongy, and not unfrequently bleed from the loose texture of the new vessels, or their erosion by the cancerous matter - It is rarely, moreover, that they extend over the entire surface of the sore; for more generally while one part is covered with them another is sloughing, and each of the parts runs alternately into the action of the other; and not unfrequently the lymphatics become affected as high up as the axilla, and in their course betray a few smaller tumours - But whether this is a mere result of contiguous sympathy or of cancerous taint is uncertain - When the disease has spread widely or continued long, some of the muscles of respiration participate in the irritation, and the breathing is performed with difficulty -

Cancer is said in a few instances to have terminated spontaneously - De Haen gives us one example of this; and Parr affirms that he has seen six cases of the same in his own practice - But he adds in proof of its being a constitutional affection, that in every case the cure was followed by some other disease,

as an enteritis, fixed pains in the limbs, a sciatica, or an apoplexy."

In general however, a cure is rarely effected but by the knife or a caustic; yet the progress of the complaint may perhaps be arrested; and we are often able without cutting to render it, at least tolerable, for a series of years - In ^{an} early stage of the disease relief may be obtained by topical bleeding, as with leeches; and topical refrigerants applications, as Saturnine lotions, or sheet lead as the lining of tea packages - The diet should be limited to the mildest nutriment, and wine be sedulously avoided - At this period indeed, whatever can prevent or lessen inflammation should be seriously studied, and adhered to -

Pontean relates a case cured by rigid abstemiousness alone - the patient taking nothing whatever but water for a period of two months -

"As however, the disease advances and assumes more of a chronic character, the activity of the smaller vessels may be gently roused in order to relieve or prevent congestion - and when the irritation is not great, we may by degrees apply gentle stimulents also externally, and let the Saturnine lotion be superseded by the acetated solution of ammonia - Far water is recommended by Quadrio, or an illumination of the surrounding parts with mercurial ointment combined with a small portion of camphor"

"The internal medicines which have been chiefly trusted to for the cure of cancer, are the laud and unibetate narcotics and the mineral tonics: the former apparently for the purpose of taking off irritation, and in some instances, correcting the specific acrimony; and the latter for supporting the living power, and thus enabling the system to obtain a triumph over the disease by its own remedial energy -

Of the first class the chief have been the belladonna, and hemlock, and particularly the latter, which appears to have been the most promising - Then on many who advocates for this remedy in the cure of cancer, and as well as many who proscribe its use, for one principle reason, viz. the uncertainty of its effects on the system, and hence the contradictory accounts of its effects which are furnished by different writers; DeSaen asserts that it affords neither cure nor relief of any kind; Bierchen, that it aggravates real cancer, though some times serviceable in scrophula; and Lauge, that it is altogether inefficacious. Lothergill is friendly to its use; and Bell recommends it both internally and externally, alone or in combination with opium.

"The advocates of the medicine have, doubtless, in some instances, suffered themselves to speak of it in exaggerated terms; and it is highly probable that in others, when it has seemed altogether inefficacious, the hemlock, whether in powder or extract was administered in an imperfect state" - Dr. Bullen gives a striking example of this last fact in a lady who, being very particular in the use of this medicine, employed the powder as mostly to be depended on, and weighed out her own doses, beginning with a small quantity at a time and proceeding gradually, till she took sixty grains at once. By this period the parcel of her powder was exhausted; and she had derived no beneficial effects. She supplied herself, however, with another parcel, and being warned that different samples were rarely of the same strength she reduced her first dose of the new plant to a scruple: yet even this nearly killed her: for in ten or fifteen minutes she was affected with sickness, tremor, giddiness, delirium and convulsions.

Happily the sickness proceeded to vomiting, and the poison was ejected. But of the fresh supply she was never able to take more than five or six grains at a dose, notwithstanding she had taken sixty grains of the preceding, without any mischief.

"Of the mitatic exides that have been brought into use, the only ones it is necessary to notice are those of Mercury, iron, and arsenic. The first has been uniformly found mischievous when carried to the extent of salivation. It has more generally been employed as a gentle stimulant or alterant; to this if pain be great should be added a small quantity of opium; at the same time carefully guarding against constipation by any convenient aperient."

Iron has been tried in almost every state of combination, and there is reason to believe that in some of these it has proved beneficial - Dr. Denman, in his observations on cancer (page 77) says that he has never found any medicine that possesses the pretention, that iron does in this disease -

"Of all the medicines of this class arsenic has acquired the highest and most extensive reputation - It has formed the basis of almost all the secret remedies which have at any time been current, whether external or internal. Of the real effects of arsenic, as of several of the preceding medicines, we labour under great obscurity from the discrepant reports which have been communicated - Le Hebrau with a host of practitioners antecedent to, and contemporary with himself, employed it both externally and internally, and regarded it as a specific - Schneider and Custamond declare it to be useless, though the latter employed it locally as an escharotic. Fatal effects may easily be produced, provided a sufficient degree of caution be not employed during its exhibition."

It acts differently on different constitutions, though generally speaking it proves beneficial; and in some cases may produce a radical cure. But more commonly, like the preparations of hemlock and iron, it unfortunately loses its effect as soon as the habit has become accustomed to its influence, and the cancerous taint, or cancerous action, resumes its victorious career. And perhaps the only power that is capable of neutralizing cancer, or keeping it permanently in subjection is the existence of a predominant diathesis of some other kind. "How far the remark may have been made antecedently I know not, but from a pretty close attention to the subject within my own sphere of observation, I have been led to conclude that cancer does not often make its attack upon those who are constitutionally subject to gout, and seems to be restrained by its influence".

"The list of external applications is still more numerous than that of internal. We have already glanced at the local treatment before ulceration has taken place. After this period, sedative applications do not succeed, and moderate stimulents alone seem best to afford relief. When the poison was supposed to be of an acid character a solution of the alkalis was employed to correct it. It was after wards conceived to be of an alkaline nature; and various acids were used. But poultices of carrots or charcoal have of late years been in more general use. All these have a considerable influence in correcting the oppressive action, and keeping the sore clean; but whether they go beyond this has been doubted. Yet even this is of great importance, since such an effect must necessarily give some check to the spread of the ulceration and afford solace to the patient, and probably improve the nature of the discharge itself. And hence many writers have been sanguine enough to expect an entire cure from such processes.

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"^{ly}
Fomentations of hemlock and various other narcotics have been also used; and some times tepid baths of the same in which the patient has been ordered to sit for twenty minutes at a time. One of the best detergents appears to be arsenic finely levigated and sufficiently reduced in strength by an union with calomine or some other ingredient. It is also one of the best caustics, in a simple or more concentrated state, and was freely employed as such by Mr. Justrmond.

"We have already observed that sheets of lead among other preparations of this metal were applied to the cancer, and bound over it with some degree of force - But a prepun of a much severer kind together with the use of the same metallic sheeting has of late years been employed by Mr. Young and apparently with a very salutary effect, so far as relates to checking the spread of the disease, a diminution of the tumour, and an improvement of the nature of the discharge.

"After all when the cancerous character of the tumour is once decidedly established, there is little dependence to be placed upon any plan but that of extirpation by a caustic or knife -

"Even this remedy, however, can only apply to exterior organs - In all other instances the practice is melancholy from the beginning - The die is cast almost, if not altogether irrevocably; and all we can hope to accomplish is to postpone the fatal result, to mitigate the sufferings of the day and soften the harsh passage to the tomb -"

Quaedam
de *Yitano* vulnibus orientis,
Sive
Yentamen Inaugurale,
quod
examine Rev. Episc. Kemp D. D.
nec non
Rectorum et Facultatis Medicarum
in Universitate Terrarum Marianarum,
pro gradu M. D.
Subjicit
Levi C. Cordell,
Virginiae civis.

Nullum est jam dictum, quod non dictum prius.

MDCCCXXV.

Terentius.

London

to the Hon. the Secretary of State

Sir

Benjamin Franklin

has

the honor to inform you that

he

has the pleasure to inform you

that he has the honor to inform you

that he has the honor to inform you

that

John C. Carter

Secretary of State

London

MDCCLXXV.

Prefatio.

Nulli non tempore extiterunt illi, qui cuius mortali esse ingenium proprium sibi existimaverunt, equidem et testatur quotidiana experientia, quod eorum opinio bene sustentetur. Eiusdem quoque est sententiae Virgilius, qui, clarus felici carmine, olim ita scripsit, non omnia possumus omnes.

Si igitur ita res se habet, fortasse cavendum est, ne, quod facere ne fas est, moliamur. Itaque hoc verum in memoria tenens, tractare in hac dissertatione proposui morbum, qui etiamsi non levis momenti et certe cura medicorum dignissimus sit, tamen tendere argumentum facile tractu, mihi videtur. Ceterum monendum est, quod mihi sit solum desiderium in his coeptis, cura fideli exequi

nostrae mandata Universitatis. Vicere enim me
oportet, et in presenti exerceo calanum in rebus ad
medicinam pertinentibus, non sponte audeam: non
quidem si mihi sunt summae facultates et quoque
satis temporis.

Quaedam

de Tetano vulnibus orientis.

Tetanus traumaticus subinde multis in regio-
nibus, sed frequentius et quidem maxime in locis
aequatori proximis, quorum aer in menses aestivos
calidissimus est et in hiemem parum frigidus, apparat.

Utisque in Indiis malum frequentis, ibique pro-
fecto terribilem et maxime lethalem se praebet.

Ex hoc, proclivitatem morbo ab actione caloris in corpus humanum derivari probe arbitramur.

Quae verum sit natura causis excitantibus, verbo "traumatico" facile noscitur. Varietas autem est magna illorum vulnorum, quae hunc morbum possunt producere a maximis, laceratis, contusis vel incisus ad minimam puncturam usque. Ac annales medicinae quidem demonstrant aut vulnus exiguum acicula factum aut injuriam leviem vitrei frustulo aut liqui assula, saepe solam fuisse causam. Aliqui medici et certe non pauci opinantur, ut plaga in aponeurose sit causa frequentissima.

Verum enim vero credo, hanc sententiam fulcrum non habere solidum et mihi consentit Prof. J. B. Davidge, ni fallor. Notum est omnibus, quam insensiles sine inflammatione tendones sint. Qui tunc ^{possimus} de illis subito

Inascentibus, veram reddere rationem? ille iudice, equidem
nos credere lacerationi nervi esse causam frequentissimam, magis
debet.

Quae vero sit pathologia huius morbi, quidem
adhuc nescimus. Necessè est tamen dicere, paucos medicos,
quibusdam post matrem investigationibus, in quibus velamina
medullae spinalis inflammata esse invenerunt, ut hic sem-
per videre proximam morbi sedem possumus, inductos esse cre-
dere. De hac re autem antequam ad pathologiam insti-
tutionem pro certo advenimus, aliae quidem dissectiones, et plus-
quam minutae, sunt necessariae.

Symptomata huius varietatis causam non sequuntur tam
oculose, quam in alia: nonnunquam enim octo, decem, vel plu-
res dies ante praeteriunt quam indicium Tetani exiguisimum
vidimus, et saepe non donec post vulnere cicatrizationem.

Plerumque in musculis cervicis primum molestiae in-
 diciunt aeger sentiscit et quod esse aliquid Rheumatismi ille
 falso putat. Hoc in initio, consociatum incommodo parvo,
 magis ac magis crescit et jam maxillaria cum molestia, quidem
 ac non sine dolore separanda. Aliquid itidem dysphagiae
 cito apparet. Cum his post non longum tempus est tractus
 dolorosa, quae thoracem subinde transfigit, a cordis scrobiculo ad
 vertebrae usque penetrans, aliaque signa augescens. Hic spas-
 mus sub cartilagine ensiformi ipse etiam augetur et merito
 signum pathognomonicum vocatur est. Nunc sequitur,
 multitudo contractionum ad musculos pertinentium, qua
 ferme sine intermissione aeger cruciatur - Maxillaria jam fir-
 missime obserata fiunt, et conatus aegri potentissimus ad ea
 distrahenda nihil valet. Lingua etiam torpida rigidaque
 fit, tametsi parum aspera aut discolorata, nisi febris, quae

in hoc morbo est rarissima. Respiratio in paroxysmum frequens et difficilis: facies plurimum anxietatis et moeroris exhibet, et interdum sardonici formam risus. Saepe dysphagia tantum augetur ut ei nomen hydrophobiae propriis esset. Pulsus quoque parvus ac regulae non consentaneus; caeterum frequens ac celer spasmodum violentia fit. Oculi manent immoti; et semper abdominis parietes in malo sunt implicati, qui ad tactum duri et nodosi videntur. Ad extremum animi facultates plerumque sunt integrae, quo tempore convulsiones saepe finem tragicum afferunt. Per omnem morbi cursum dejectio faecum nulla vel rara, nisi data sint medicamenta, quae ad purgandum idonea sunt, eorumque quantitas solito major necepe est.

Ex numero violentiaque spasmodum et quoque

viribus aegri, prognos deducendus est. Quapropter, musculo-
rum rigiditate permagna et universali, in die secundo vel ter-
tio saepe moritur: miti autem et partiali, mors interdum non
accidit ad hebdomadae finem usque, saepius vero multum
post hoc. Revera et reditum ad sanum, die quarto jam per-
acto, esse certissimum ratus est Hippocrates. De hac re au-
tem, ejus verba sunt, Qui a tetano corripuntur, in quatuor
diebus perierunt. Si vero hos effugerint, sani fiunt. Profecto
autem non desunt, quae satis demonstrant morbum hunc
ad finem fatalem productum fuisse "longo post tempore".

His igitur perspectis, quae ad curam pertinent, jam
sunt consideranda. Ex signis vero "consilium medendi"
recte deduci potest, quae et necessitatem vehementer agendi
contra illam corporis inevitabilitatem ex qua praesertim pendere
Tetanus videtur, nobis indicant. Certe et haec fuit

conditio, quae proclivitatem morbo in initio constituit, ut
supra diximus. In primis vero oparetur quamlibet irritationis
causam auferri, namque semper est bene vetus proverbium
observare: nempe, *causa sublata, tollitur effectus*. Itaque
nervo laeso, eum dividere jubetur. *Proposuitur* vero quibus-
dam ad curandum, in vulnere, medicamentis escharot-
icis vel stimulantibus, novam inflammationem excitare.

Larrey, chirurgus celebris, autem usum cantherii commen-
davit, postea quae promovere suppurationem hotatus est in
vulnere; alii vero cantherio causticum lunare anteposunt.

Medicus Darwin, linamento in spiritu terbinthinaceo mad-
efacto, quod ad sedem injuriae adhibendum est, ibique in-
flammationem cedere suggestit. Atqui nos docet in mem-
tam revocare, quod ac multa experientia probavit, nul-
lum praeceps modum qui ad vulnus solum spectat, ad

produendam sanitatem futurum sat. Ac omnia ante
remedia interna opium est habendum, quandoquidem
hoc 'magnum dei donum' saepius respondit quam alia.

Hujus vero portiones et magnae et saepe repetitae imperiose pos-
tulantur, quum dosis communis in titano nullum habet ef-
fectum. Ac quidem quantitas, quae in rebus ita se haben-
tibus sumpta in die uno, incredibilis est. Leoniam vero
tincturae opii majus in agendo celeritatis, ea ante opium
solidum est habenda, haec tamen opacitate, ut usus nulla
re interdictus sit. Si satis per os adhiberi non potest, uti
ea in clysteribus non solum fas est, sed quoque oportet. —

Porro externus opii usus commendatus, atque ut, sic ad-
hibetum, commodum afferre effectum possit, sincere cre-
dimus. Nam est medicamentum, quod ac simul ven-
triculum contingit, effectum etiam in digestis partibus ex-

erit. Ideo agens in nervos partis, ad quam sit applica-
tum, opium, cum externe utitur, impressionem propriam in
artis nervos, qui ita abundant, certissime faciet. Equi-
dem in spasms et doloribus ita gravibus, quodcumque, ex
quo minimum beneficii sperari potest, nos oportet versari.

Plurima remedia alia, quae stimulandi facultatem pos-
sident, medici subinde praescribere solent, sed proximum
opio stat vinum, quod in quantitate per magna liberaliter
est et tempore eodem cum piore. Vinum etiam solum
dicitur curationem effecisse, ubi alia ^{frustra} inutilia videntur
et quidem cum cortice peruviano adhibetum. Med. Astruc
plurimum laudavit. Valde et mihi placet, exemplum,
quo haec duo remedia, id est dicere, opium vinumque ad cu-
randum satis fuerunt, commemorare. Aeger aetatis 45
ingressus, Junio mense, a quo decepta est, quo vulnus mal-

leolum externum derudante recepit. Partes dilaceratas
 coaptatae et emplastro adhaerivo conservatae sunt tam aequae, in
 statu quo, quam fieri potuit. Injuria tamen tanta erat,
 quod adhaeris, primo processu, inter partes non eveniebat: contra
 autem vulnus ad suppurationem ibat. Cataplasmata jam
 adhibita: nullae verum granulationes sanae apparere, fun-
 gus autem per omnem vulneris superficiem cepit oriri, quem
 ad delendum escharotica utilia visa sunt. Attamen sub se-
 cundae fere hebdomadae indicia tetani sere exhibere et quae
 ultimo formam horrendam visum assumpserunt. Hic etiam
 praecipue visus est ille in cordis serbiculo dolor, quem proprium
 esse tetano creditur. Opii jam virique quantitates, inaritate
 magnae sunt praescriptae, et quoque remediis idoneis sub-
 inde alvus soluta est. Post paucos dies indicium quodli-
 bet morbi prorsus evanuit et exinde cito vulnus omnino

12

conglutinatum est.

Inter plurima in hoc morbo remedia, quae alio aliove tempore laudibus data sunt, non praetereundus est Hydrargyus, quo, etiamsi hinc quibus laudatur et illis culpa- tur, nihilominus in multis morbis, medicina nulla ma- jore admiratione digna videtur. Me vero judicente, in alia tetani varietate prescribere hydrargyrum melius est, in hac, quam nostrae argumentum dissertationis selegimus: namque mihi videretur si non perniciosus, saltem in- inutilis.

Res postulat ut pauca de balneo frigido nunc dice- remus, cui certissime esset gradus inter remedia pro tetano plurimum altior hydrargyro, et equidem de ejus utilitate dubitari non potest. Hoc vero certum est, vim in se roborantem balneum frigidum habere, qua corpori humano

det vigorem: quin et impressionem imprimis subitaneam
 fortem que facit. Hinc et quidam prodesse in hoc malo
 videretur, et jam bene notum est, medicos in Jamaica
 aliis que insulis vicinis prescribere cum beneficio hunc re-
 medium in tractatione hujus morbi, frequentissime solere.

Transimus jam ad vesicatoria, quae secus spi-
 nam imposita creditur illis qui opinionem medullae
 spinalis inflammatae habent, ut illa sint remedia
 utilia: forsam et aliis admodum adjuvent. Nec de-
 sunt exempla, ubi vesicatoria multum profuisse, si
 paucis medicis damus tute fidem, visa sunt.

De amputatione, injuria prima membro inflicta,
 nunc non disseremus. Sat est mere dicere, experientia
 probatum esse, ut nullum beneficii, dolore in epigastrio
 jam exato, a membrum desecando sperari possit.

Restat jam itaque, ut de praecavendo tetanismo paulisper dicatur. Nec potest effici melius, quam modum memorare, quem in ejus praelectionibus de materia medica Prof. Baker suggerit. Consistit in hoc, nempe, in adhibendo opio, cum primum apparebit minimum spasmi indicium: quidem et hujusmodi proprietatis maxes probatum fuisse, duobus exemplis, ille vidit. Nonnunquam accidit manuum, cubitorum vel pedum plerimum contusum esse, cum quiescit lit, an non membrum ita contusum computari debet? Verum attingimus ultimum laborem terminum in praesenti, ad quem, gradibus gradibus, promovimus

Professores medici in academia Marylandica.

Accipite, viri viri illustres, mea vota sincerissima ut vos Deus quam diutissime servet salvas, beatos et florentes.

Dissertatio Inauguralis
DE

Carotidas, praecipue encephali in morbis, ligando.

Quam

ex auctoritate reverendi admodum viri,

Jacobi Kemp. S. S. T. P. Academiae

Terra Mariae Praefecti.

NEC NON

nobilissimae Facultatis Medicae decreto.

Pro DOCTORIS *gradu*

*summisque in medicina honoribus ac privilegiis rite et legitime consequendis,
Candidatum examini, subjicit*

Robertus T Musgrave,

Baltimorensis.

11119

11119

11119

Samueli R. Jennings. A. M. M. D.

Artem Salutiferam feliciter exercenti,
Medico perito, prudenti;

Viro

Ingenio, doctrina, virtutibus
Prastanti;

Et beneficia vere paterna,

sibi considerate constantique delata

hocce tentamen inaugurale,

summa quidem observantia,

gratique animi testimonium,

lubens offert

Auctor.

Dissertatio Inauguralis &c &c

"Fatus est anceps auxilium experiri
quam nullum". Celsus.

CUM historiam medicinae atque chirurgiae, ut
ab antiquis exculta, spectemus; et inveniamus om-
nia medicamenta, etiam hoc die, omne malum
mederi, quam inefficacia sunt; nobis deploro-
randa parva progressio quae, in arte meden-
di, facta est. Cum autem altera ex parte
ad inventa, quibus scientia nuper locupleta est,
et utilia additamenta ex eis nascentia ocu-
los convertamus; ingenia et perseverantiam eo-

rum qui tam secundi fuere, veneramus, et ad-
huc exitum etiam magis feliciorum speramus.
Non est jamdidum cum usus arterias ligandi
in aneurismis inductus est; et paucos abhinc
annos, Gulielmus Hunter chirurgorum eruditissimo-
rum Europa, arteriam humeralem in plicae bra-
chii aneurisma ausum ligandi retuit. Non igitur
mirandum est, ut putaret praclarus vir Joannes
Bell. Carotidibus, in aliqua re, accessum non
praeberi. Sed enim, post non multo, vidit et ipse,
hoc magnum ausum prosperè gestum; et hodie non
alicui trepidationem injicit, aut metu percellit. Ergo
cum necesse sit, oportet nos paratos esse, huic arteria
sicut ulli alteri, sine trepidatione accedere. Hanc

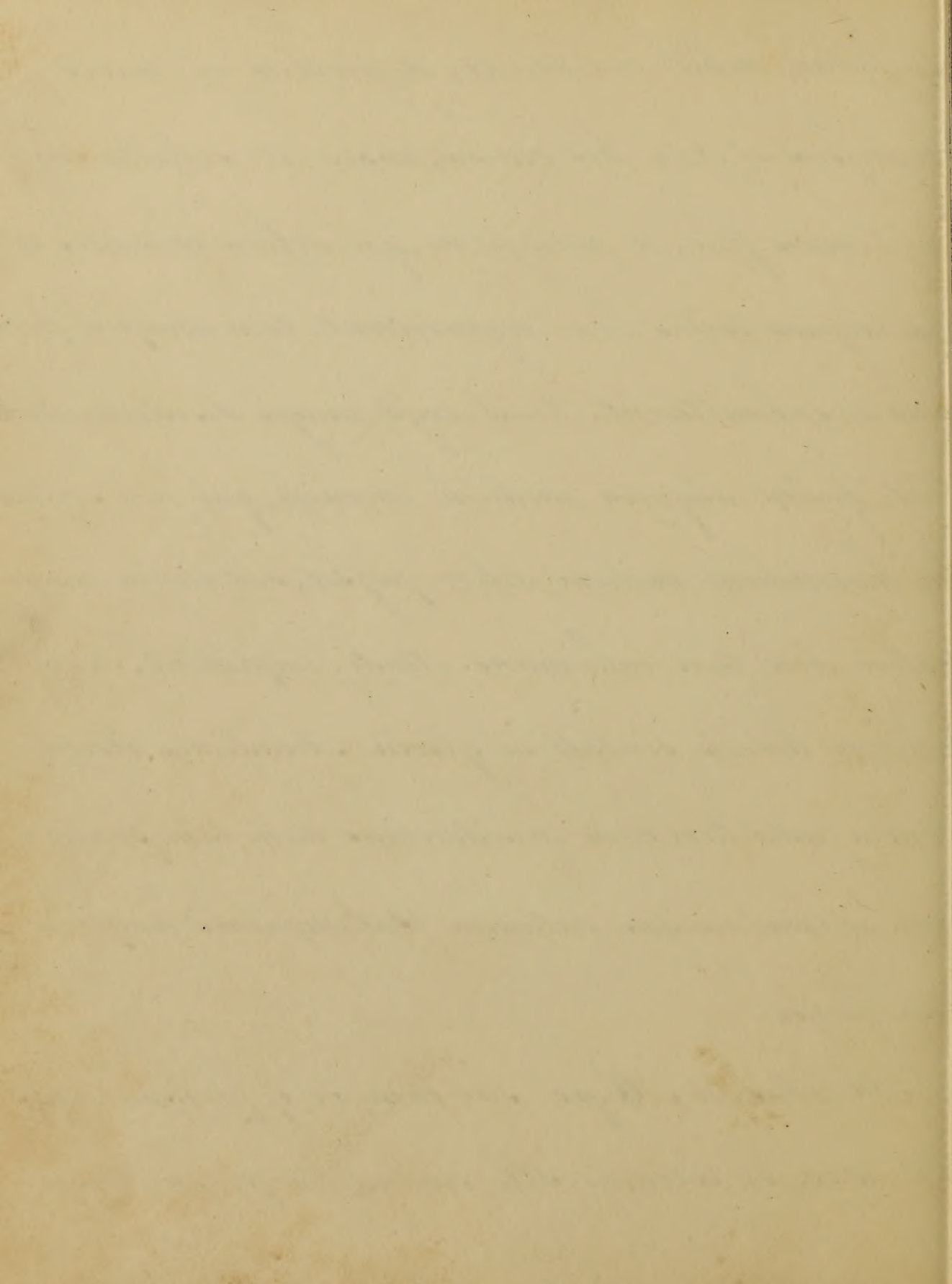
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arteriam Ashley Cooper, A. D. 1005 in aneurisma,
primum deligavit. Neque nobis causa est credere, ex
hac operatione ullum aliud bonum, nisi in aneuris-
ma, eo tempore expectari. Postea tamen factus est u-
sus tam late diffusus, in alios morbos, qui infra trac-
tandi sunt, ut in maximos et utilissimos profectus
chirurgia recentioris aestimandus est. Fungus Hama-
todes tam frequenter obveniens in Antrum Highmo-
rianum, et tam certe fataliter terminans, sciscitari
coegit, quoniam modo potissimum hoc malum exter-
minaretur. Morbus ut olim specificus haberetur,
extirpatio partis totius affecta necessaria putabatur.
Quo id efficerent, modis sacrissimis, scalpello, scalpro,
malleo, et ferro calido, uti solebant: etiam hac

capissimè nihil valuerunt, et morbus vi aucta
progressus est. De his causis, anxia et sollicita chi-
rurgi mens fuit, et paucissimi, qui dolores cruciatos et
spas exiguas vitæ boni cognoscerent, tam ancipiti per-
iculo se submitterent. Quid-ergo magis desiderandum
fuit, quàm aliquem modum inveniri, qui non solum
hoc horrendum malum delere posset, sed etiam neces-
sitatem more tam inhumano utendi, impediret. Non
parvum honoris civitati ac gloria Academiae Terra
Marie additur, cum consideremus hanc tam precla-
ram ac tam novam rationem Patlimoniensi comper-
tam fuisse.

Morbus, in Aegro sub cura H. G. Jamison. M.D.
4. D. 1020, se ostendit. Ille secundum prescriptum



tum constitutum, et quod supra memoravi, opera-
tionem cepit; imprimis arteriam carotidam, lateris
affecti, ligatus; credens, ut ait "that he should not
only obviate the risk of hemorrhage but thereby less-
en in a great degree the risk of reproduction
which has hitherto been so appalling in such cases."*

Hujusce periculi exitus tam felicis omnium expectati-
one evenit, ut multum apud medicos disputationem
movaverit. Visus est ager erudite Professore Davidge,
cujus menti præcellentis, indagacioni indefessa et per-
ceptioni subtili, scientia et præcipue medicina multa
inventa magni momenti ^{jam} deluerat. Ipse, alumnis
prasentibus, hanc novam ac præclaram sententiam
~~substantiam~~ et qua postea corroborata, ausus est
Via. Medical Recorder. vol. 4 n.º 14

proferre; Primiò; hunc morbum nullam naturam
specificam possidere; secundo, ^{eum} tumoribus similem
ullius aliis classis, sanguinis copia diminuta, posse
mederi. Secundum hæc consilia, unam solum ~~arteriam~~
~~arteriam~~ carotidum, et si id non valuerit, etiam am-
bas ligare monuit. Si talis ratio, viginti abhinc
annis, commendata fuisset, sine dubio undique vio-
lenter oppugnata fuisset; et plurimi eam periculo-
sam et audacem putavissent. Illud sapissime feli-
citer actum fuisse, neminem latet; hoc etiam factum
fuisse adolescente, qui tum ei sermone interpreti,
vulgatum est: et casus, nunc valet.

Tametsi hoc facinus præclarissimum chirurgia
recentioris, quod huic soli malo pertineat, contem-
plamur;

plenuer; tamen mihi videtur multo majora beneficia ex hoc periculo posse deduci. Quanam sint, quam paucissimis, investigabo.

Nescio quod in encephali affectibus unquam cogitatum esset: eos, in quibus nimium viget sanguinis, se curari posse, credo. Nam, ut neminem latet, ~~arteriae~~ carotides, his partibus tam ingentem sanguinis copiam suppeditantes, in eorum morbos magnum dominium exercent. Quinetiam textura earum vasibus plena, cum vita animali tam proximè conjuncta est; quod in morbis hujusce ordinis abundè sanguinem detrahere nos oportet. Equidem scissimè deplorandum est, satis non posse sanguinis amitti, vita adhuc manente, partes exitio liberare

Physiologia peritis aestimatum est, ut sanguinis
totius corporis pars quinta in caput missa sit. ~~Carotides~~
~~Carotides~~ Carotides communes vertebralibus quadruplo
maiores sunt: Carotides internae cum arteriis med-
ullis durae matris, duplo majorem vertebralibus san-
guinis multitudinem, in cerebrum important. Fac-
esse, quod corpus totum libras triginta sanguinis
contineat, sex cerebrum recipit. Una carotidum
obstructa, supplementi pars tertia encephali remota
fuerit, * vi cordis minime diminuta. Hoc efficere
modis usitatis deplendi tertiam partem sanguinis
totius corporis detrahere necesse esset; si quidem
ullo modo tantum damni sanguinis corpus sus-
tinere posset. Equidem sapissimè depletio et reactio
+ et impetus triens, quem reactio renovare non posset.

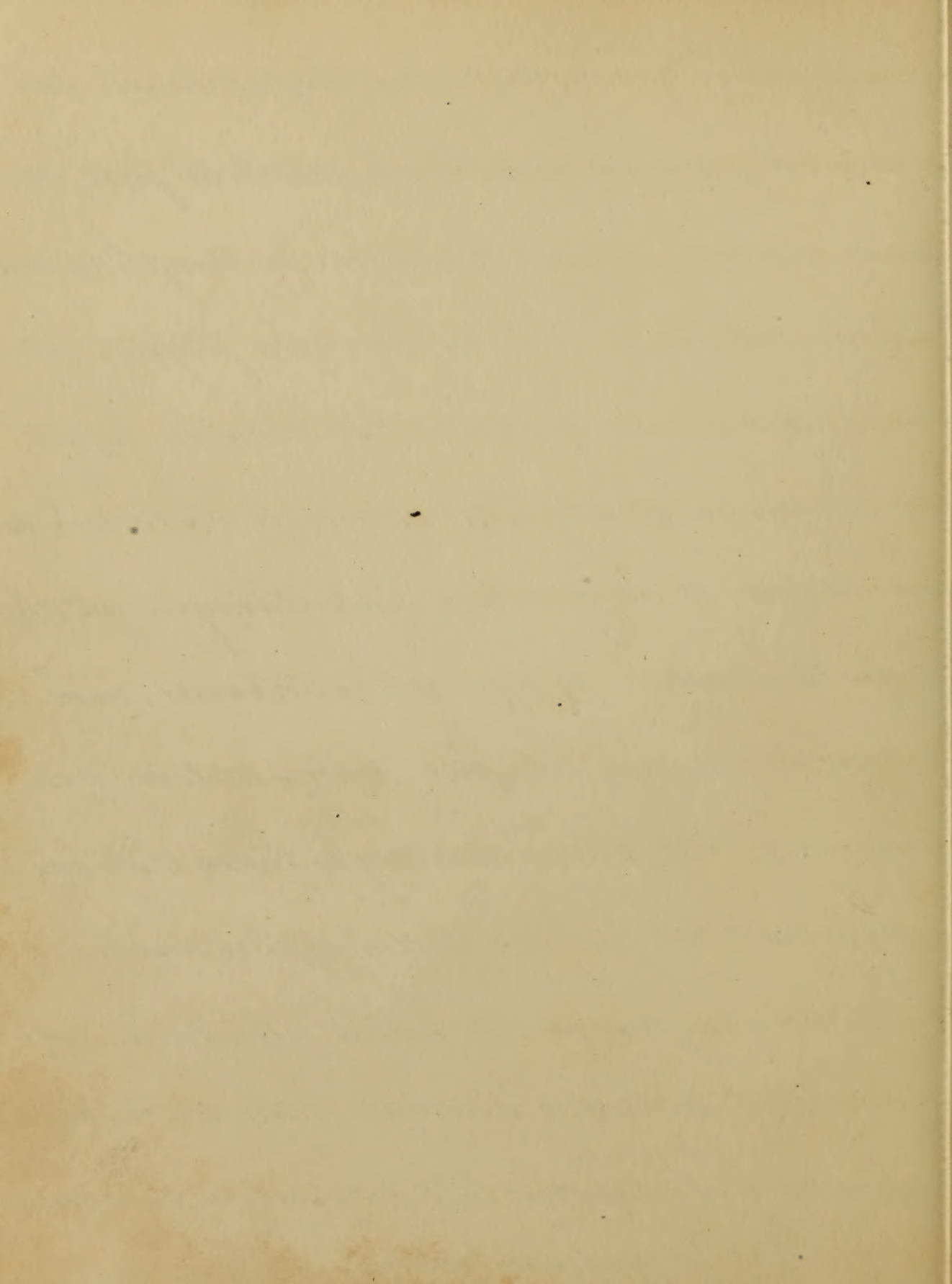
alternatae sunt; donec ager inflammationi vel morbo delictus fuerit. Simul ac utilitatem facimus, sanguinem suppeditam per unam carotidem removendo; vitatis modis deplendi multum jurare licet. Una carotidem deligata et morbo progrediente, ambas ligare nos oportebit. Arteria vertebralis circulationem per cerebrum continuare sufficientem et arteriis, thyroidea inferiori, profunda cervicali, et cervicali superficiali, ramis subclavianae adjuvabuntur; quae, thyroidea superiori, pharyngea, occipitali & ramis carotidis externa communicant. His obiectum sit, quod arteria vertebralis et haec communicantes dilatata tantum sanguinis, ut antea, importarent. Sit ita sane; ut in vitula, cervo

et ore &c, cautam esset, quorum carotides in plu-
rimos ramos dividuntur, et iterum conjungun-
tur: ita cum his communicantibus, impetus
magnè comminutus foret.

Apoplexia ipsius natura in opprobria
medicorum semper habita est; et morborum om-
nium excitiosissimus videtur. Nam, etiam hoc
die, quàm ars et studium medicina tam dili-
genter cultum sit; verbis praclari Boerhavi
uti licet, "At si illa ipsa jam facta est, vix
ulla spes supererit."* Nam simul atque aggres-
sa est, rarissimè captam dimittit; sed oppugna-
tionibus iteratis operam perficit. In paucis, fortuna
sic faucat, eventum horrendum protrahi posse.

Hujus morbi pathologia diu disputata est. Sed
etiam ab antiquis satis bene intellecta fuit, mo-
dum idoneum curandi indicare; ne disciplina ma-
nicis pathologia humoralis devincta fuisset; ut
plane de sequente appareat, "si vena in caput
superveuerint sanguinem, dolor brevis totum ca-
put detinet et ad cervicem interdumque ad alias
partes transmittit; deinde ubi surrexerit, cum
tendricosa vertigo occupat. Febris autem non
prehendit."* et secundum cognitiones obscuras
anatomicas tum habitas "cutem capitis discindi
iussit, ut sanguis exiret, sicque plenitudo im-
minueretur." Sententia Eutropii historici Romani
minionem ejus temporis indicat. "Subito sanguine

* Hippocrates. De morbis Lib. II. cap. 6.

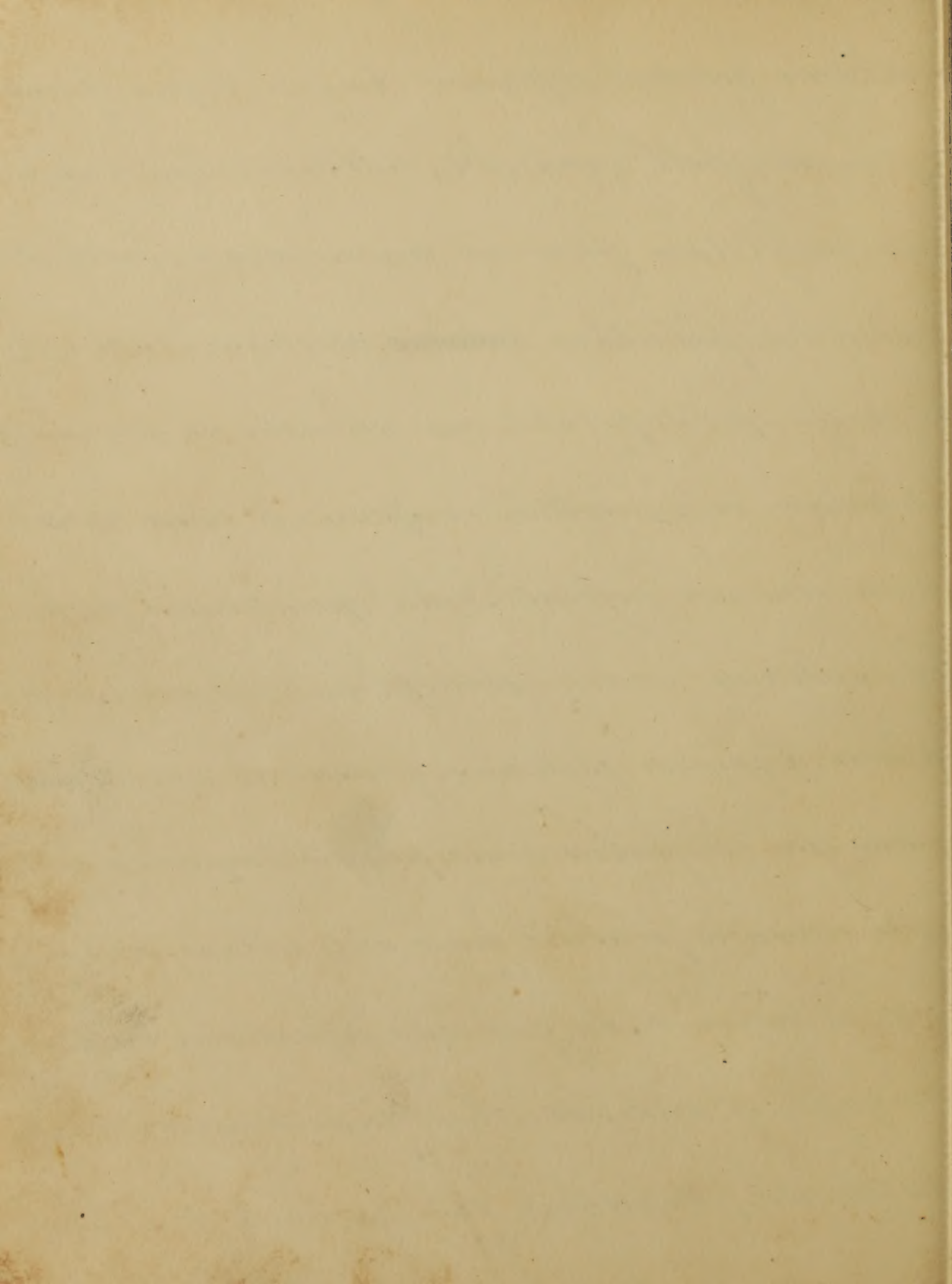


ictus, casu morbi quem Graeci ἀποπληξιν vo-
cant.* Boerhaavius ait, "hunc morbum accidisse quo-
tis illa progressa essent causa, qua potuerint
impedire integre vel multum affluxum liquidi
cerebrosi spirituosi in organa sensuum motuum-
que voluntariorum, superstita interim, cerebellosi li-
quoris in cor, et naturalia organa respirationis, ita,
et forsitan rediti, aliquo, qui ad has functiones sus-
tinendas quodammodo sufficiat." Credens ut Gallenus
"ipsum cerebrum sensorium organum a natura fac-
tum non est, sed sensoriorum sensorium." Ille cau-
sam dat, "omnia quae vasa interioris cerebri ita
colverunt, ut exiens liquor aggestus, suo compressu,
fornicatas cerebrosorum nervorum origines laedat.

Talia sunt, sanguis in plethoricis ^{§ 8.º} ^{*} buectoritatibus
tantis prospectis, et factis quibus sustentur; arduum
est dicere; quomodo illustrissimi nosologi ordine
neurosam collocavissent; et celeberrimi medici eti-
am hodie cum eis consentirent. Nam experientia
~~experientia~~ docuit, quod, in hoc morbo abundanter
sanguinem amittere necesse sit; et novere antiqui
quanti valuit hoc remedium; sed corpus magno-
perè debilitatum, usum interdicare visum est.
Fieri tamen potest, ut morbus quidem id deside-
ret, corpus autem vix pati posse videatur: sed si
nullum tamen apparcat aliud auxilium, peri-
turusque sit, qui laborat, nisi temeraria quoque
via fuerit adjecta; in hoc statu, boni medici est

ostendere, quàm nulla spes sine sanguinis detrac-
tione sit: faterique quantum in hac ipsa re motus
sit: et tum demum, si exigatur sanguinem mit-
tere. Satius est enim anceps auxilium asperiri quam
nullum." Et alio loco: "Si omnia membra vehementer
resoluta sunt, sanguinis detractione vel occidit vel
liberat." + Omnes, sanguinis de proximis detractionem
multum valere, coarguti sunt. Sed de vasibus qua-
plurimum successus producerent, non consentie-
bant. Dum alii venam aeternam juguli, alii vasa
naris interna, alii arteriam temporalem commen-
darent; alteri cognoscentes quàm inefficaces hi
modi fuerint, (quid hæc vasa cum internis ne-
quaquam communicant) totam fiduciam in

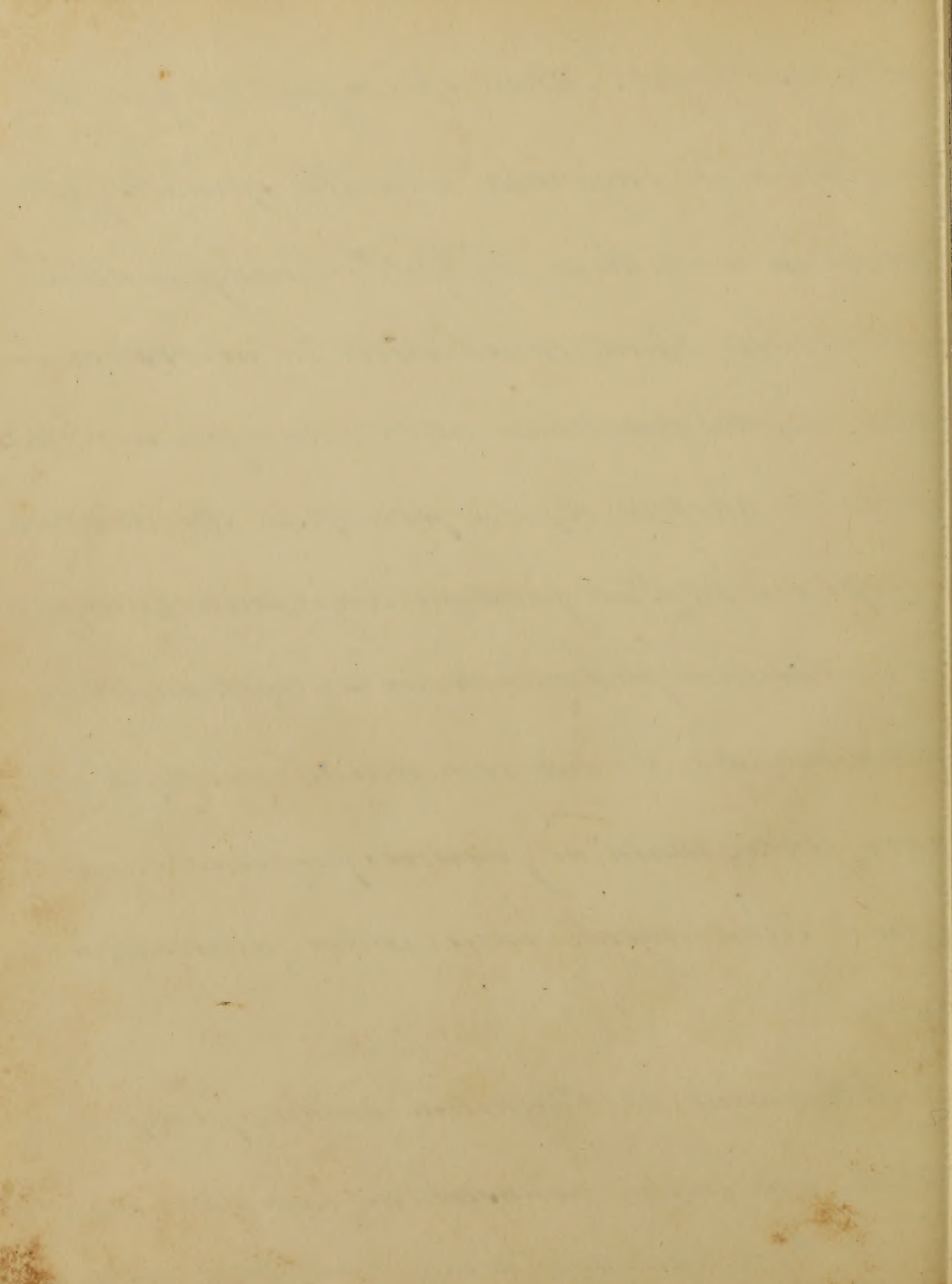
depletionem generali reposuere. Eae quo supra memo-
rari, manifestè apparebit, nullum aliud vas cum
sede morbi tam proximè communicare, nec tantum
promittere, quantum ~~carotidas~~ carotidas. Nam reve-
rà nulla spes supererit, nisi circulatio sic imperari,
ut cerebrum extravasationi se aptare, et vasa vires
eorum renovare possint. Nihil operationem probi-
bet; sed enim contra, conditio acri imperiosè pos-
tularet. Equidem callemus, quasdam apoplexia
species esse, in quibus homo, paucis temporis, deletur,
nulla occasione praebita, hunc aut ullum alium
modum experiri. In quo casu, dissectiones Valsalva
Morgagni, et aliorum illustrium anatomicorum
consultando, perspectum erit, quòd in cerebellum



extravasatio fit. Altera species fiat, in qua ex-
travasatio in vaginam medullae spinalis facta
est, et in cerebellum diffluit.* Ubi cumque nobis
interponere liceat, causa morbi in cerebro exis-
tente, nostris conatibus aderit; namque carotides
in hanc partem capitis praecipue dividuntur.
Aproplexia accessus, quadam conformatione corporis,
et quibusdam praemonitoriis symptomatibus,
praedictus sit. Si hoc remedium, in apoplexia
jam facta, multum juvaret; profidendum est
igitur, illud, morbi intra initia, plurimum
posse.

Aliquando, in Phrenitide accidit, praecipue in
aestate, vim cordis venae sectione non satis cohiberi

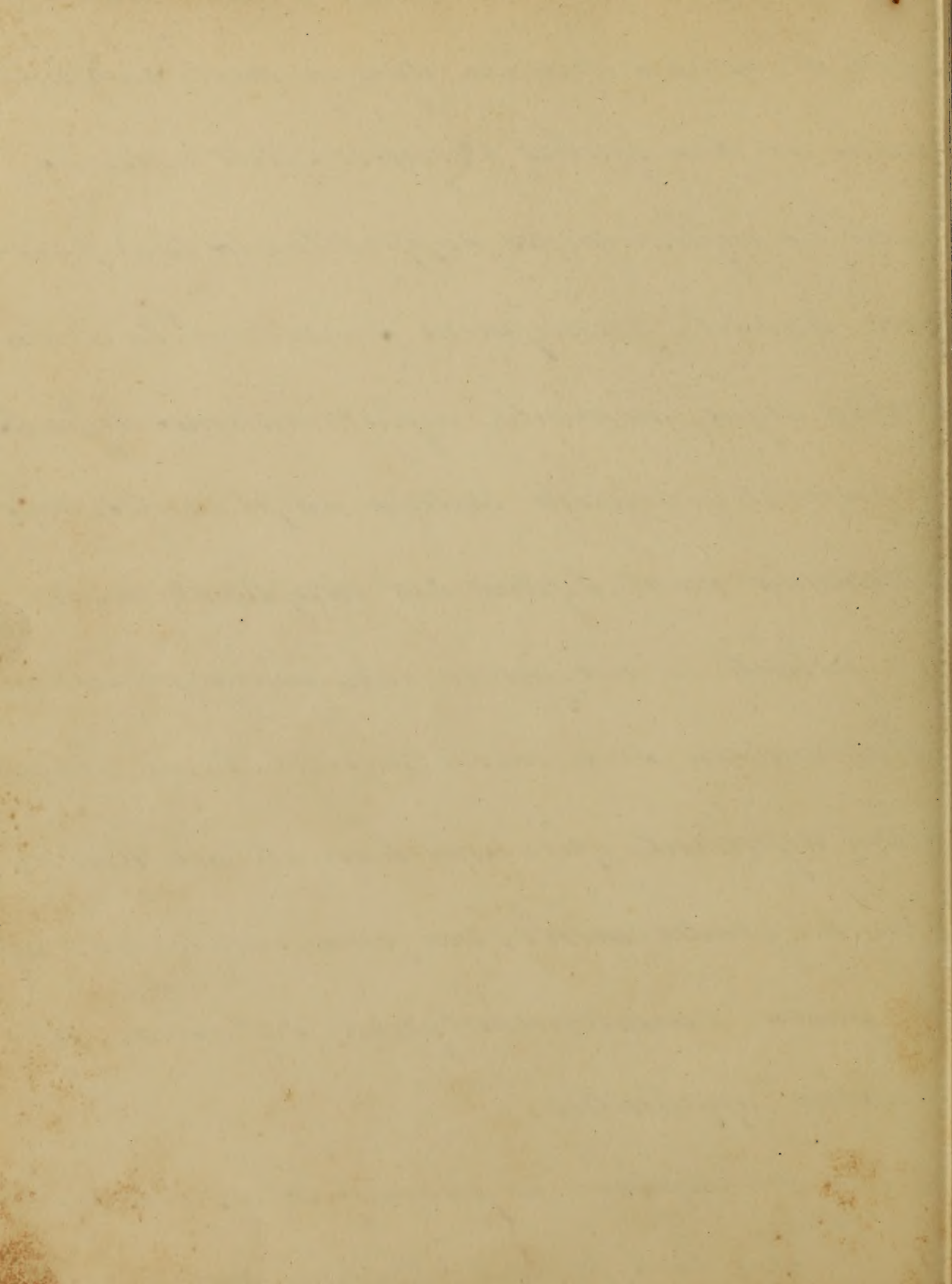
* Vid. Morgagni. de caus. et sed. morb. epist. III. cap. 3.



posse, et medicus demum aegrum morti resignare
coactus est. Res, quibus Professor Mott arterias
partibus inflammatis suppeditantis tam pros-
perè ligavit, principium sanserunt.* Eae cerebri
molitia atque momento, inflammationes difficilis-
curandi, et graviores exitum implicantes, nobis
expectandae sunt. Siquidem cur non liceat, modo
tam potenti in hoc morbo uti, quam membrum
inflammatione sive morte servare. Donec modi-
citate defecerint, operatione hac uti non licebit,
et in hoc gradu morbi, non plus iritationis crea-
bit, quam vesicatorium, quod sapissimè et
utilissimè applicatur.

Qua de apoplexia et phrenitide observata sunt;

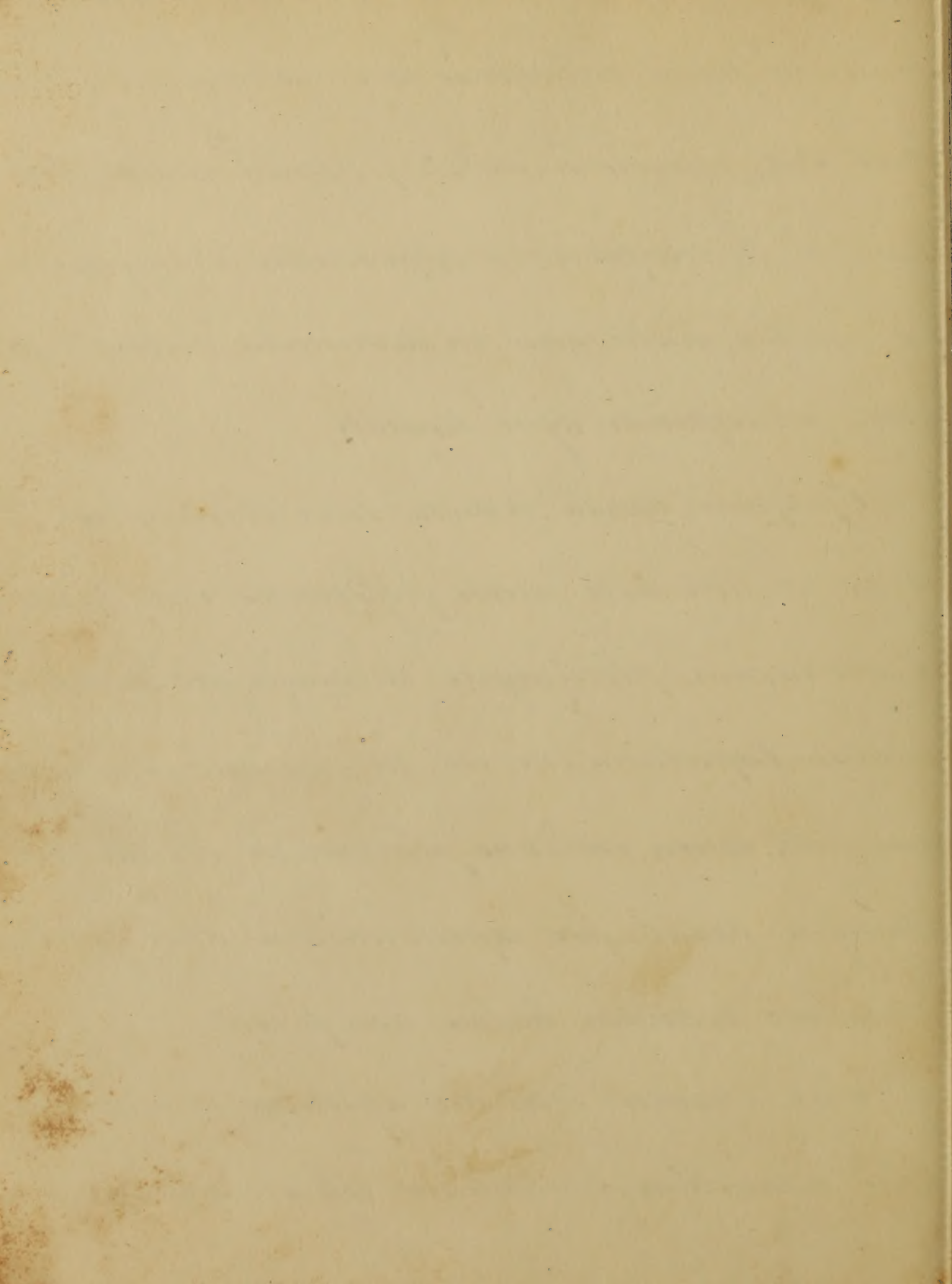
New York Medical & Physical Journal.



quàm in puris collectionibus & in cisterna, in quibus
Petrus Cott calvariam trebra perforare solebat, tum
etiam in hydrocephalum applicentur. Namque, seu
hic morbus, aucta seu vis diminuta arteriarum
esset; principium aque constat.

Epilepsia causa remota tam obscura est,
ut de ea non certi dicere possumus. Sed vis aue-
ta arteriarum plerumque in causis excitantibus
putatur. Expectandum est, ut, numero canalium
diminuto, causa excitans plurimum obstata esset.
Utique cadat, hoc experimentum utile foret,
et malum eventum habere non possit.

Sive mania morbida affectione arteriarum
cerebri, secundum sententiam illustris Doctoris



Pulsi. necne, causata sit; certum est, ut arteria
valde' compatiuntur, et mihi videtur quod haec
operatio bene' eveniret.

Postremo' satis constat, omnes hos morbos
egrum' medicabiles, et antea in opprobria med
icorum habitos, esse. Quinetiam quotidie experien
tia docemur, hanc operationem non periculosam,
sed enim contra, tutam et innocuam esse. Ergo
si nullum bonum ex eo, certo certius est, nullum
malum oritur.

