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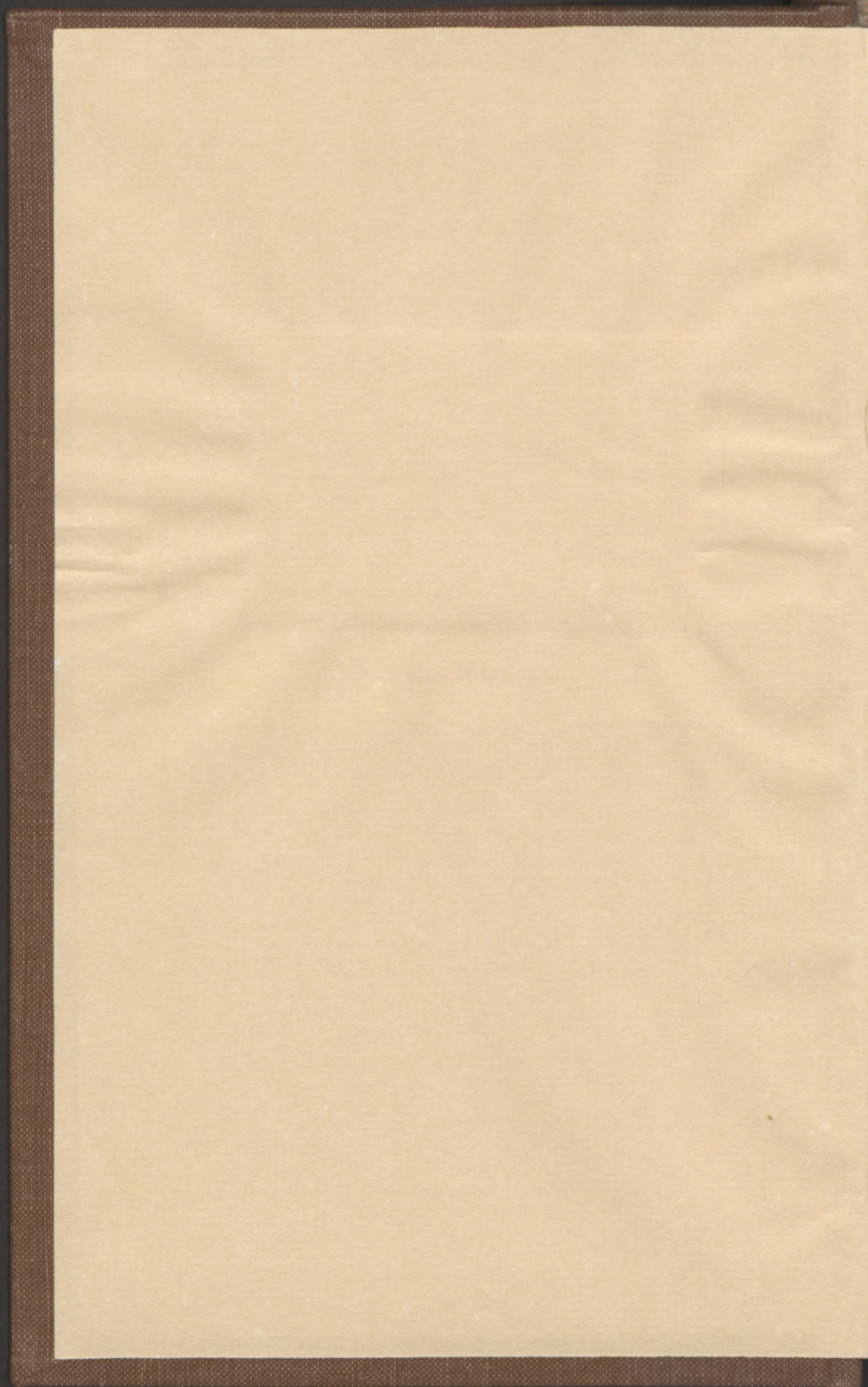
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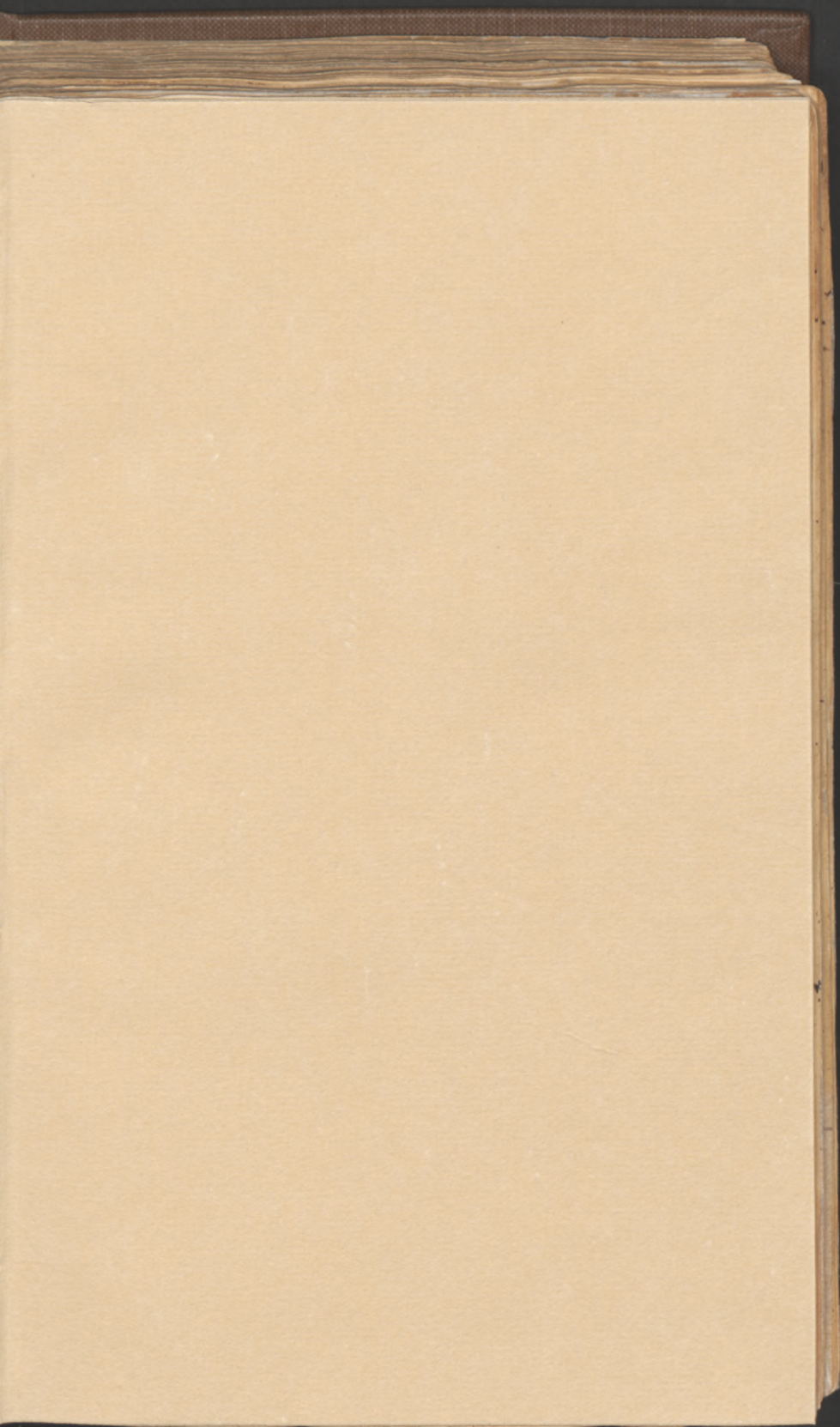
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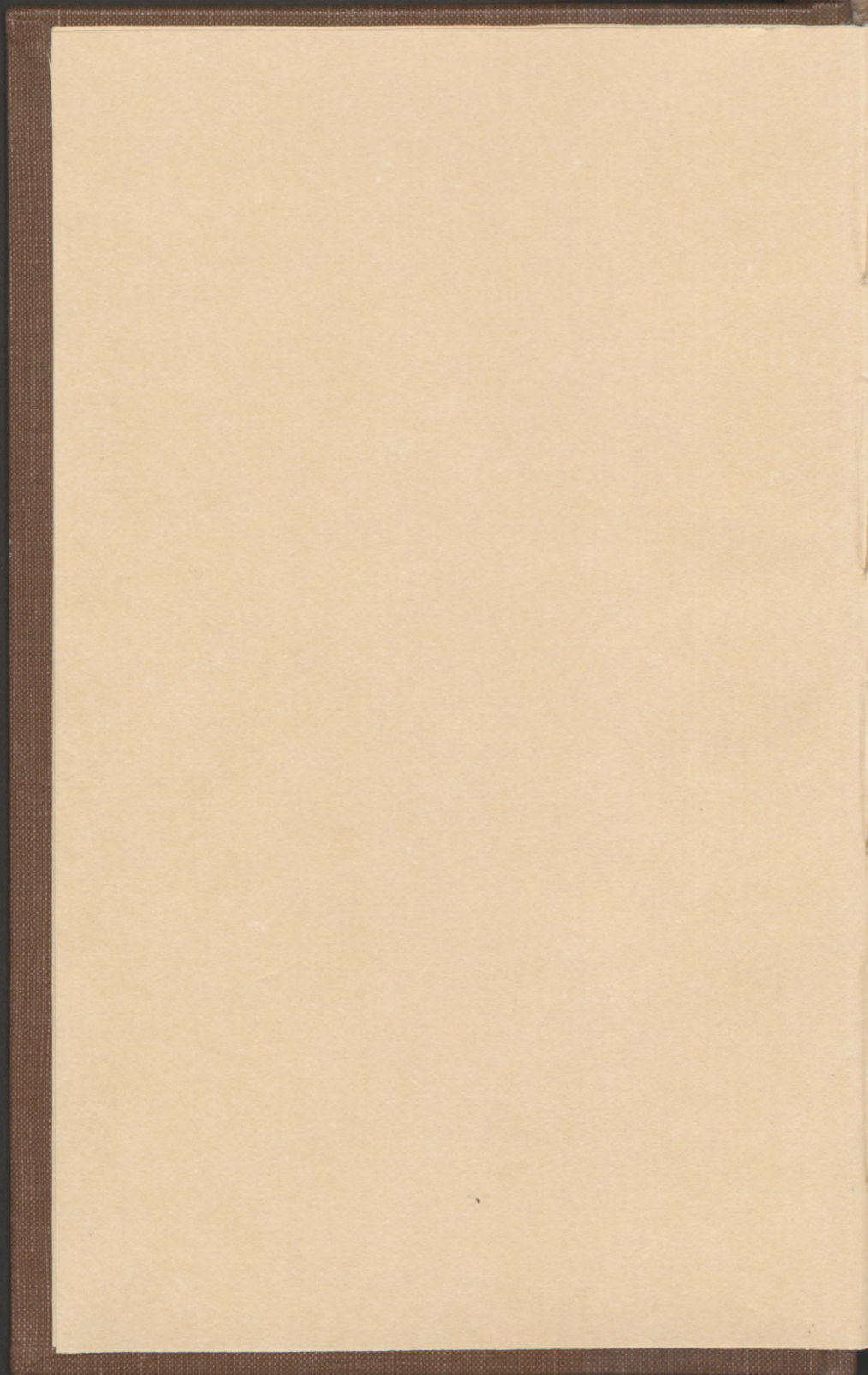
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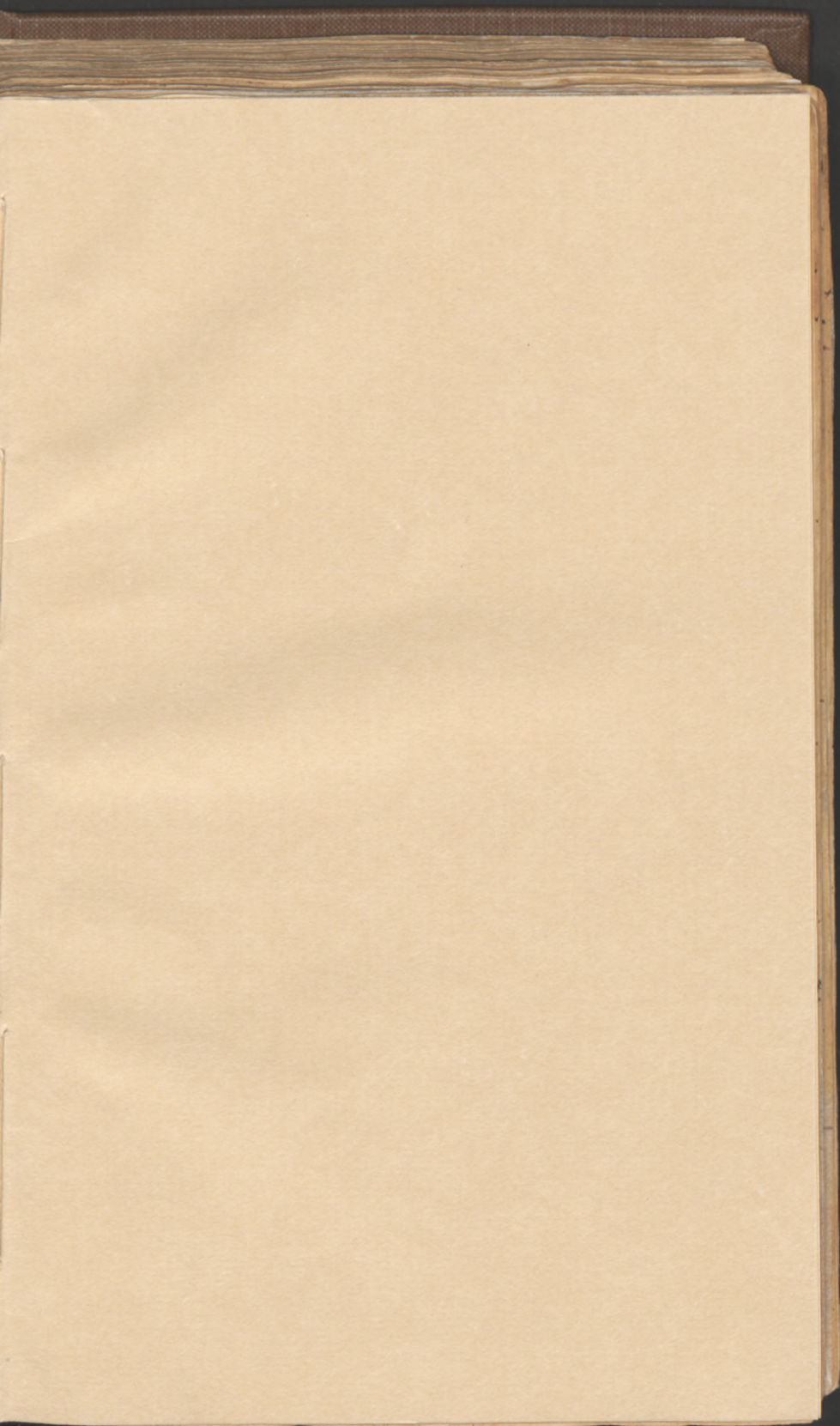
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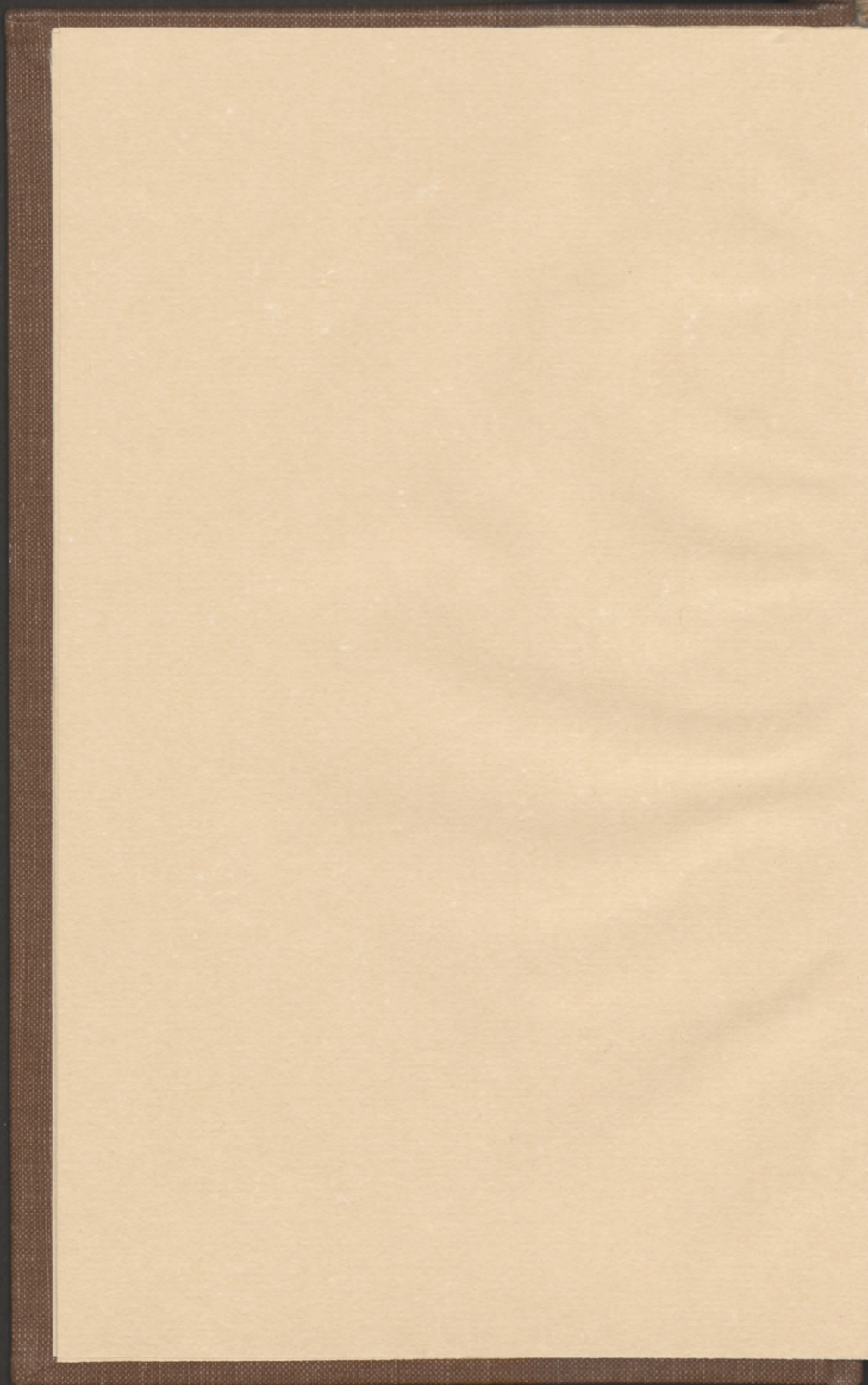
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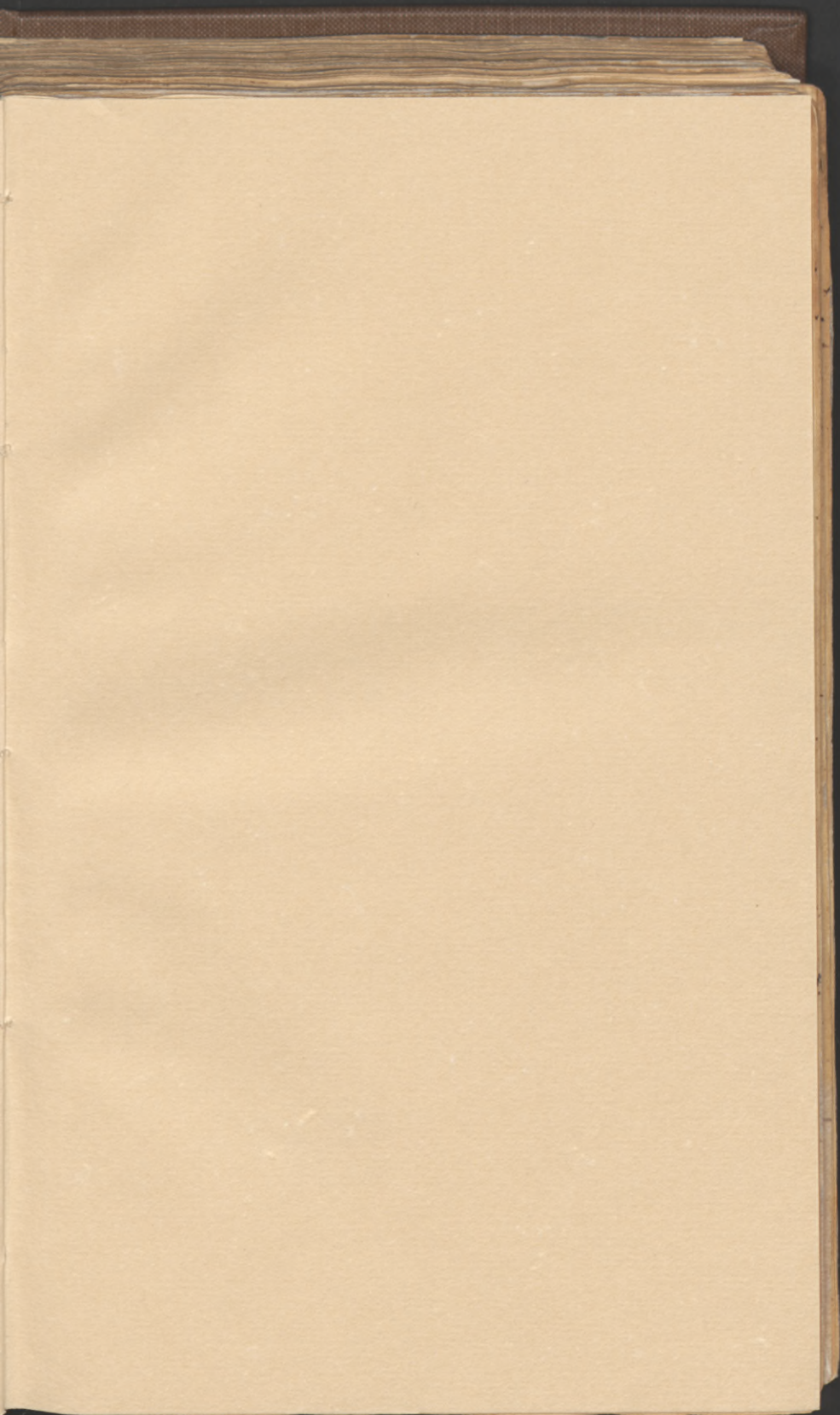


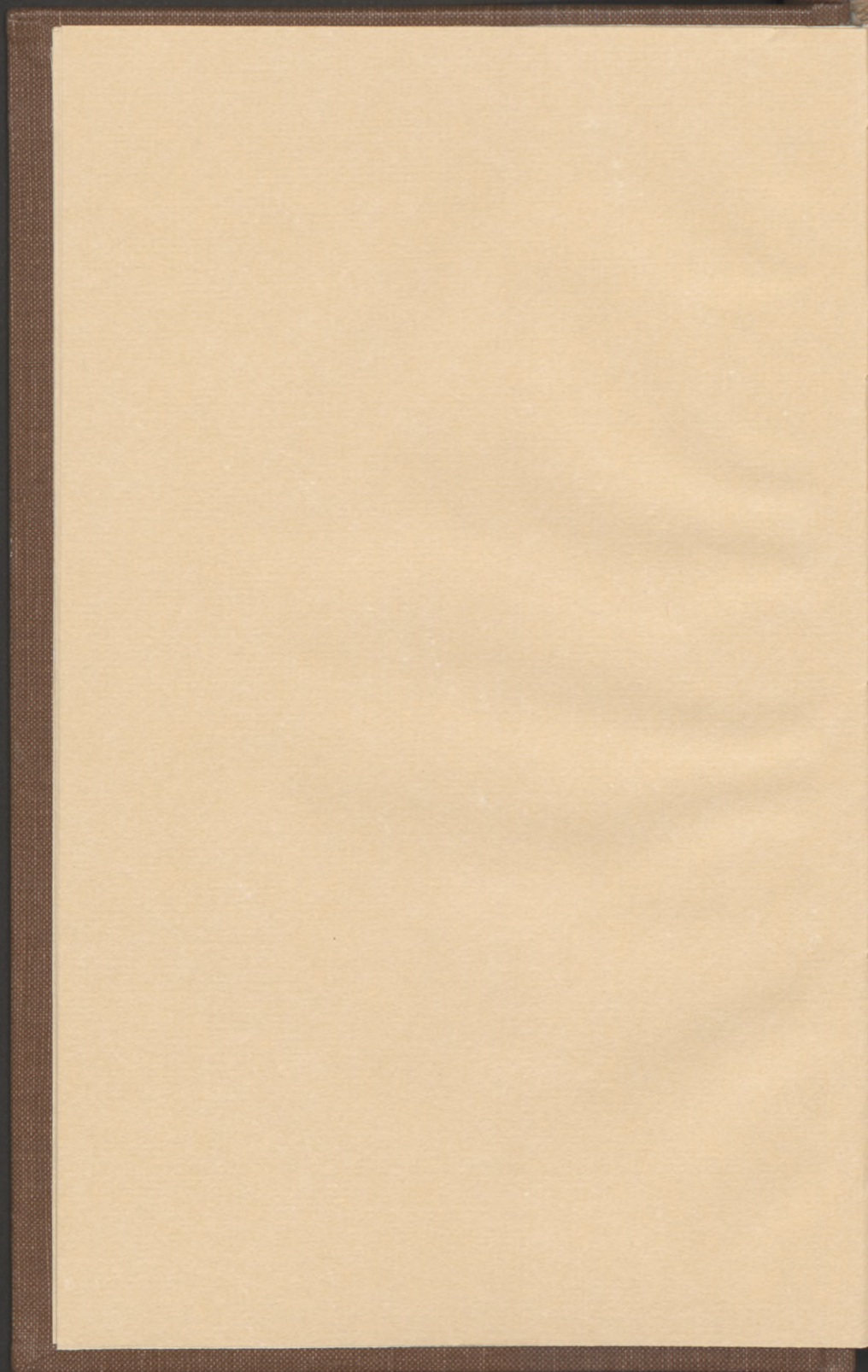


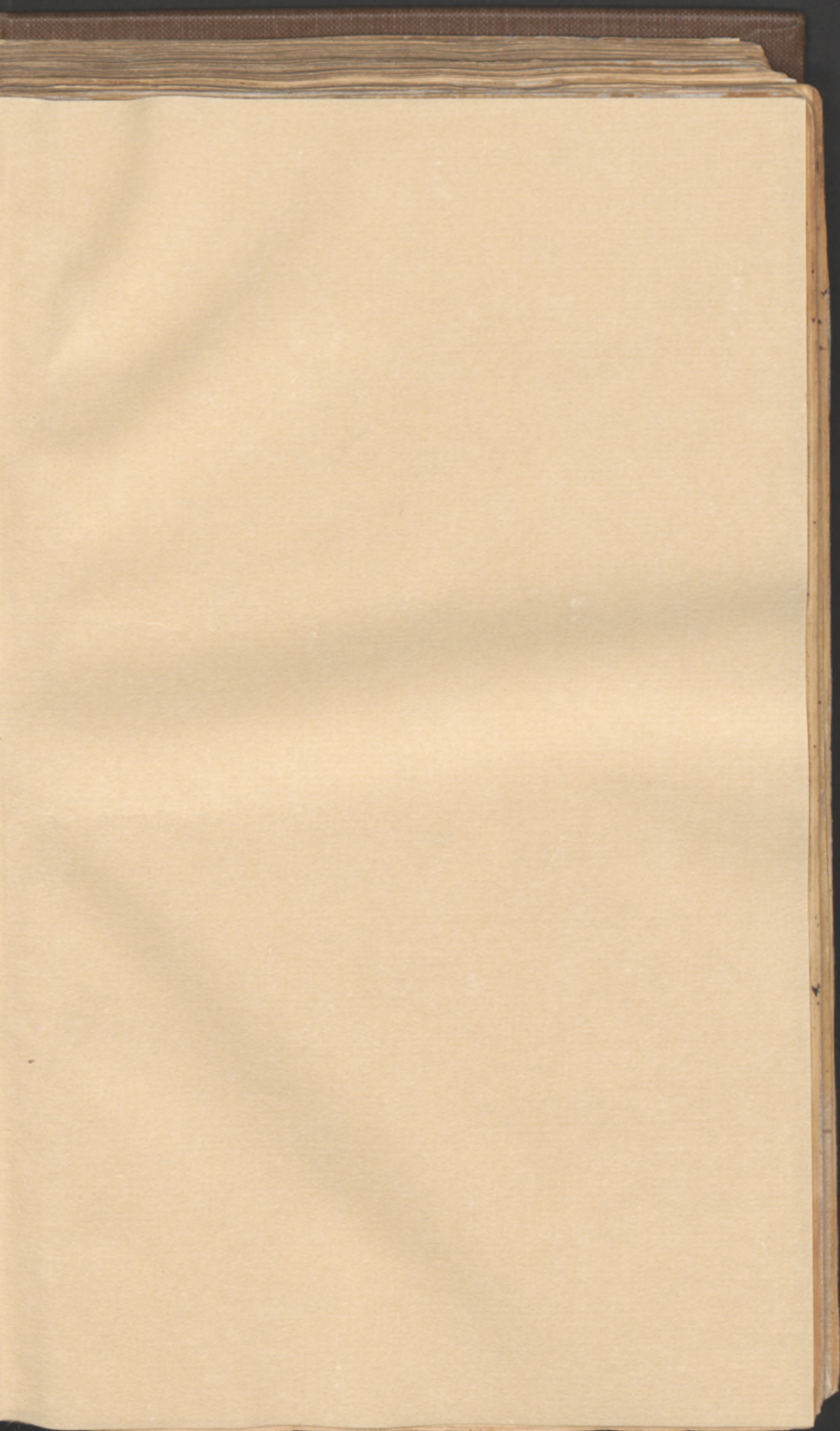


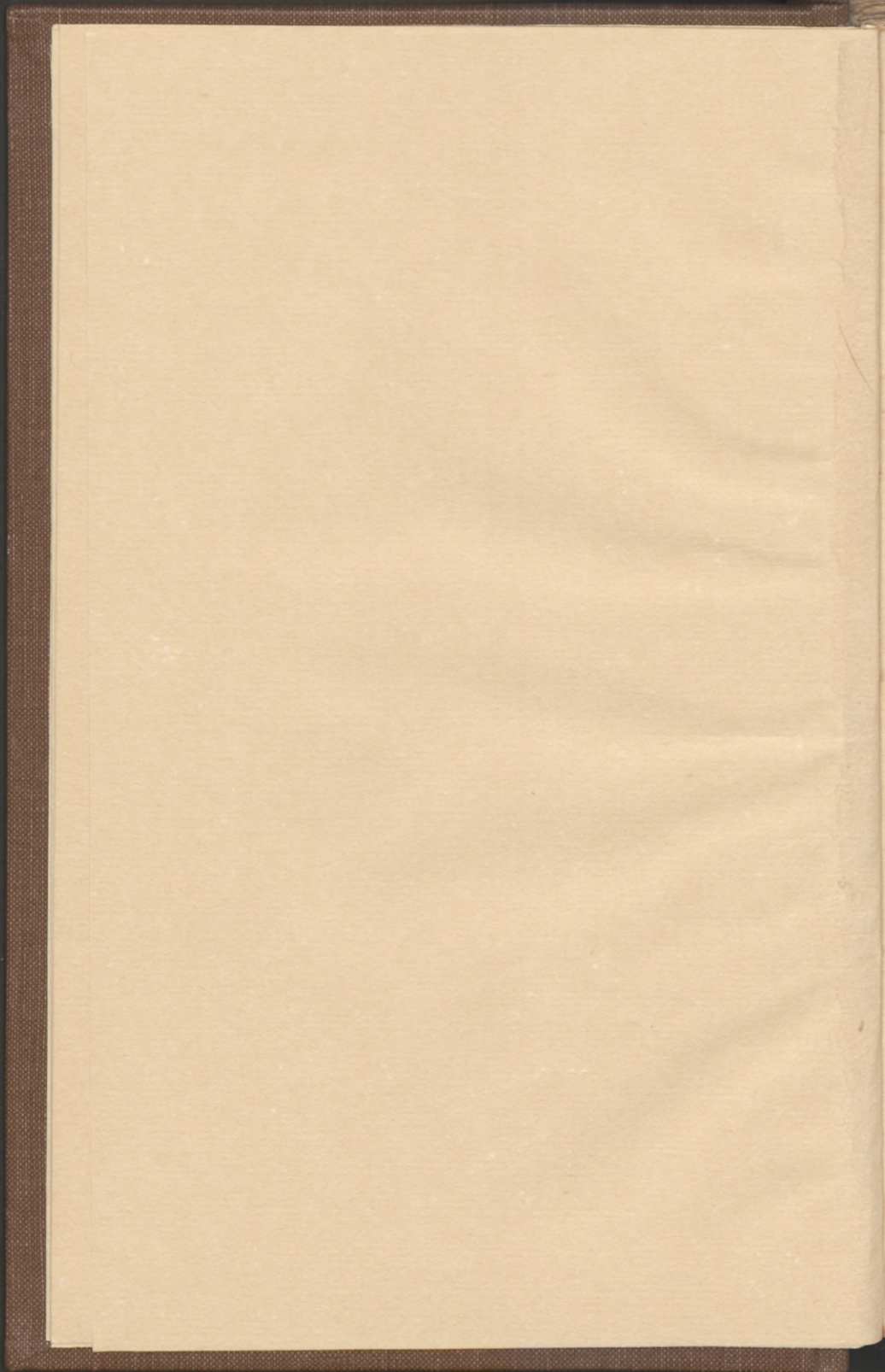






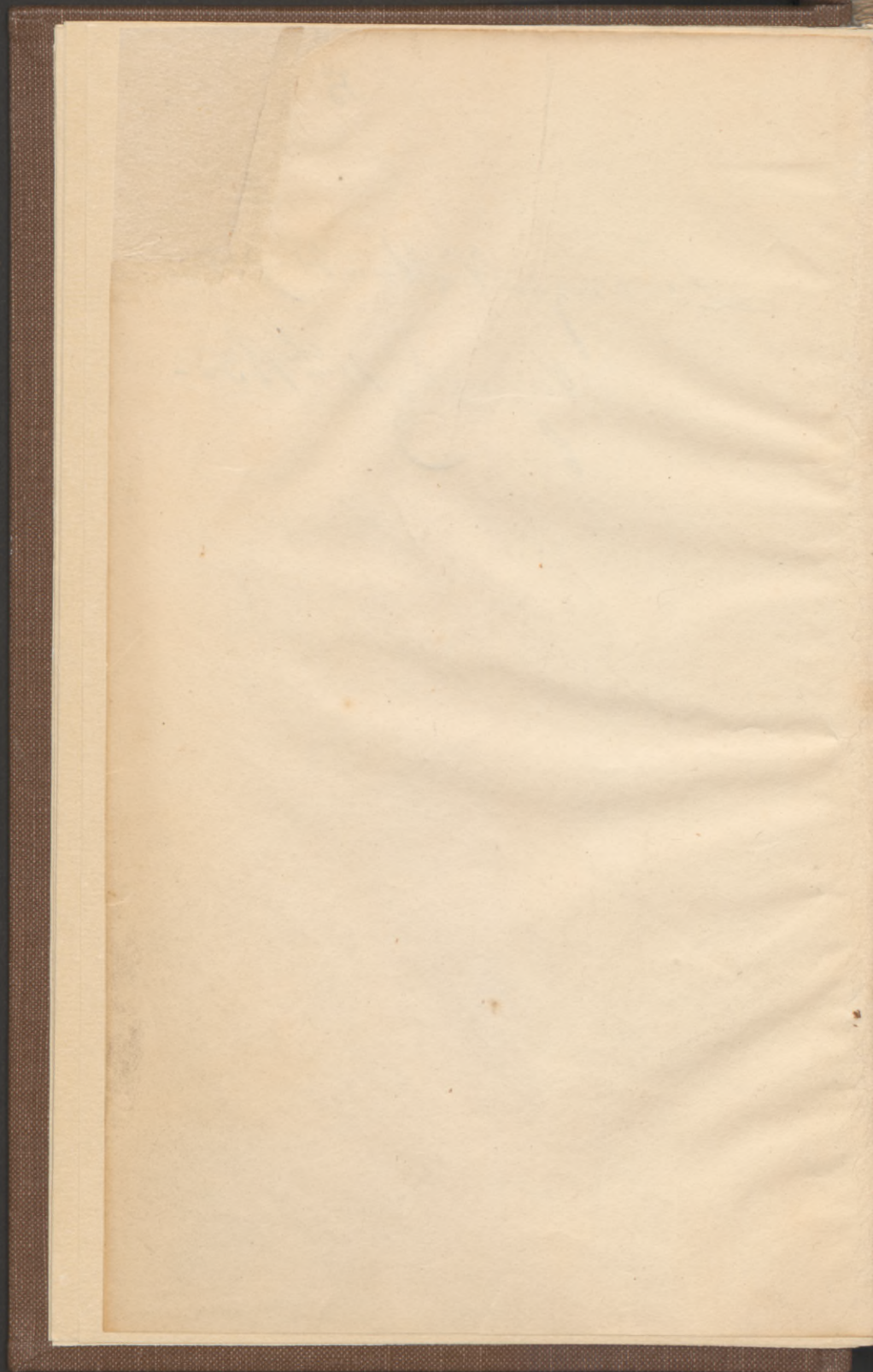






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Lorenzo N. Henderson  
August 11<sup>th</sup> 1833 -  
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Notes on Lectures on the Theory & Practice of Medicine, delivered by Daniel Drake - 1830-1



On organic & inorganic life - animate & inanimate beings.

Life is dependent on organization. With respect to this organization - how did it originate - as respects mineral chemical attractions exert a considerable influence in their organization. It has produced the crystalline forms. This constitutes the vital power. In formation of Sulph: soda. There is an affinity between the sulph: acid & soda - & a new body is formed. Having taste, figure &c.

In animal life there must be something else added

2  
to organization. This is then  
something which we call  
vital force. It sets it  
in motion & keeps in place  
all the organs. To under-  
stand this machine we  
must take it a part &  
examine each separately.  
In all mach: It is a point  
wt we can take hold  
of & contemplate this  
object - but in the  
human mechanism we  
dont know where to  
begin - It is a number-  
less of parts - each seem-  
ing of equal importance  
to the whole. The same  
substance is found every  
where - If we cut in any  
part pain is prod: & blood



3

will flow - Hence blood &  
nerves are every where. Ema-  
tiation takes place in all our  
organs - Hence absorbents - Nerves  
every where. But all these  
are cemented by the cellular  
lymph. Thus thus blood vessels  
nerves absorbents & cellular  
membranes are found every where  
Now when you <sup>to abst. from</sup>  
the human meat: <sup>the blood vessels & nerves</sup> & what will  
you have left? A mere caped  
mountain. Nothing wanted  
to represent life. All the  
figures with which you will find  
in books are found in those  
three universal ones that I have  
spoken of. They are all mod-  
ifications of the same  
things with some few sub-  
additions.

The blood vessels are all  
connected - all seeming to or =

4  
ignite & terminate at the  
heart. completing a complete  
circle. There is continually two  
columns of blood, one going  
& the other returning to the  
heart. & then again every  
thing is con: with the brain  
& spinal marrow, either  
directly or indirectly. No  
matter how remote the  
part, even to the en-  
amel of the teeth. When  
in it is sensibility, the  
must be never.

Whatever view we take  
of the human system  
we will find it a con-  
tinuous of being, acting,  
moving. Take every other  
system away & yet still  
we will feel, think &  
move. The circulation will  
go on. Take all the other

ancey & you will think  
an animal capable of ex-  
isting & performing in two  
degrees, the part which we  
now do.

The various convolutions  
of the blood vessels, nerves &c.  
may be compared to a hol-  
low tree & its branches - all  
forming & constituting or-  
gans, performing their pro-  
per functions. They are  
the component parts of  
all our organs.

We know of the embryo  
is a fluid mass - that from  
this <sup>it is</sup> ~~it is~~ <sup>built up</sup> ~~is~~ <sup>built up</sup> - I do  
not mean to say of the  
nerves & blood vessels from the  
brain &c. like the branches  
of a tree - but that they  
are finally con: as if it  
& constitute one whole.

6  
You might enquire into the  
relative importance of these  
two depans - How what use  
the animal creates food?

If we view our self as  
intely. being & looking to the  
plea<sup>sure</sup> of mind - & Nois. con-  
cern intel: gratification  
we would say that  
the nerves of the heart  
the ascending & lat N.  
blood vessels were to  
supply their wants - but  
here we to consider our  
social relations. That  
this was the great end  
of our being and might  
be led to dif: conclusions.  
The vegetable tribe seems  
wholly employed in forming  
& obtaining these fluids -  
When we consid: the destiny  
of man - his future hopes

7  
his own imagination. We  
might consider the nervous  
system his way thing. This  
gives him the eye that sees -  
the mind that thinks & feels -  
The nervous, absorbent system  
is not but mere subordi-  
nate agents. The mind  
is the chief of the nervous system -  
This is the high, the digni-  
fied - grand function <sup>of</sup> of  
man. Take out the  
nervous mat: from the  
animal body & you see  
once man is a mere plant  
- one in the lowest order  
of the chain of creation.

In taking this a priori  
view <sup>this</sup> seems to me the most  
useful way of coming at  
the organization of the human  
body. You must not

41  
foetus each organ. Content  
place each & you will  
find this modification  
of the something - modif.  
of the set of tissues. In  
this mod: not only dif:  
of form results but also  
diff: in function. But  
is this dif: of form or  
indicating the sole cause  
of the dif: of funct: - This  
may be the sole remote  
cause, but it is not  
the approximate cause.  
That susceptibility of 2  
had before spoke of, has  
certain modif: or pecu-  
liarities. One part is  
susceptible to one impres-  
& another to a dif: sus-  
ceptibility to impression.  
It is a modified suscepti-

bility. The cellular tissue has been  
 called the primary tissue of the  
 body. The nerves & muscular tissue are  
 said to have something else added.  
 The skin is the great covering membrane,  
 being a kind of cellular tissue. The  
 derm is only the part of the tegumen-  
 tary membrane, for which we know  
 to the mouth &c we find the  
 membr: undergo some change,  
 it, hairy covering &c is changed in  
 a mucous surface - covered with  
 pits & a silicious coat. This is  
 internal as relates to the oral  
 but in relation to other organs  
 it is external, as the skin.  
 This is a modification of  
 one great tissue. The other is  
 generally uniform. Some parts  
 are thickened & hard. The  
 mucous membr: are not so  
 repeated in structure. The vital  
 properties are various.

The extent of these membr:  
 is very great. The lips present  
 with the first change of mu-  
 cous membr: from skin -

It lines the nostrils - the larynx  
 the oesophagus. Stomach, intestines  
 &c. It may be lost entirely  
 in the venous system. This  
 probably takes place in the  
 chylo-mucous. At the rim  
 of the glottis we again meet  
 with the mucous membrane &  
 from this point it extends  
 much over the bronchial tubes.  
 Here its ramifications are  
 astonishingly great. At the  
 pulmonary region we again meet  
 with the mucous membrane. At  
 times the ramifications of the plexus  
 the uterus - the bladder, the  
 testes, &c. up to the Kid-  
 ney - terminating in its pelvis.  
 In referring to the mucous mem-  
 brane of lungs we must begin  
 at the trachea. This is the  
 Schneiderian lining &c.  
 The larynx near and the  
 conjunctiva of the eye the



ear also has the external  
segmentary membrane. This  
is rather a dipping in of the  
skin. Has a mucous mem<sup>br</sup>.

Now between the mu-  
cous mem<sup>br</sup>: & the segmentary  
mem<sup>br</sup>: we has a variety of  
organs. To name the most  
diffic to understand part is  
egg. Internally we have the  
serous mem<sup>br</sup>: it is not  
but condensed cellular -  
admitting only ~~white~~ blood -  
& destined to perform es-  
sential functions. We have  
the in the pelvis, abdomen. In  
brain - the thorax. They are  
complete bags. The coats  
a covering for the viscera -  
especially in the abdomen.  
It when some one of the  
organs come in contact it  
is like the contact of two

full bay. A fluid ex-  
 ists from the smooth  
 surface. While the mem-  
 ber is in the air and  
 exposed to the contact of  
 foreign agents, the serous  
 membrane is entirely ex-  
 cluded from external  
 objects. But when it is  
 subjected to the external  
 world it becomes dis-  
 tended. It is more  
 than a system, but to me  
 it is not my part to  
 treat of. I will now  
 be content to say some  
 of the most particu-  
 lar. I will speak  
 of the gland: organs -  
 as well as the various  
 names of the parts. You  
 are conversant of the parts.

163

To this belong the liver, spleen,  
kidneys &c. They are said to  
be parenchymatous, but  
we see them: The minutely  
we will find the compound  
of secretory vessels & vessels  
going to supply these secretory  
processes. The liver is made  
up of the vessels of the venous  
porta, hepatic veins & arteries,  
bile ducts &c. bound together  
by cellular membrane. There are  
glands above the mouth,  
called the salivary glands.  
They are not: more than  
vessels rolled up & bound up  
with cellular tissue. In body  
we are presented with the vas-  
cular system. Now what are  
we to think when we have  
been previously told that  
the other organs are made  
up of these very vessels

These vessels are made up  
of the first primary tissue.  
The heart is made up of the  
muscular tissue. We are  
to look upon the human  
body as composed of a  
no: of hydrolic tubes rolled  
& convoluted into various  
forms. Therefore in studying  
these different tissues of wh  
I have been speaking, you  
have been but studying  
the vascular tissue. It  
makes no matter where  
you begin. The same re-  
mark applies to the ner-  
vous system. In prop: as  
the vessels become smaller  
the amount of nervous mat-  
ter wh they are in con-  
nect becomes greater &  
greater. Therefore wh  
you have been

Studying these tissues you have not been neglecting the nervous tissue. For if you strike down organs out of existence you will have no nervous tissue to study.

Besides these <sup>there are</sup> other subordinate tissues. We have the osseous tissues. They consist of cellular or vascular tissue, filled up with a concentration of the phosphate of lime. The muscular - the fibrous - & ligamentous are simplified in the same manner. The anatomical elements vary in the proportion. These aggregates make up the animal body. All the dif. organs are nothing more than so many masses of inorganic matter - They have a degree of elasticity about them & so they should have had a capacity dif. while performing their functions, from organic matter. This we term life.

A drop of prussic acid put on

The tongue will destroy life -  
 This point produces any distor-  
 tion of organization - all remains whole -  
 yet the consequences have  
 been death of the vital functions.

Nothing is more mysterious  
 than this principle of active  
 life & the manner by which it  
 is destroyed & held apart  
 as I have mentioned. There  
 is a power or capability of  
 being acted on & producing  
 certain operations & functions -  
 like an as ignorant of his  
 power, as the power will build  
 up these structures. Now  
 this capacity - is found in no  
 part: part but it is unis-  
 versal. If any part had  
 it not it would be  
 an overbalance. It might be  
 cut off. Of this I have said  
 in hair, nails &c. I have  
 seen have been an effort  
 to express this capacity  
 as an ability, concrete,

119

sensibility. Why has been  
so many times, been to the  
proprietor. A person is said  
to be irritated w<sup>ch</sup> he is irrita-  
ble caused by w<sup>ch</sup> other persons  
are not affected. He is  
said to be easily excited.  
By our own feeling we judge  
of this. We judge of it by our  
consciousness. The word  
contractility expresses the  
power to contract or a short-  
ening & a subsequent slow  
extension. The word sensibility  
has been used to express the  
power of those parts  
w<sup>ch</sup> are capable of being  
excited by certain im-  
pressions. There is no cer-  
tain principle to w<sup>ch</sup>  
sensibility is referred. Be-  
cause calls the sensibility of  
the heart organic sensi-  
bility. a sensibility is  
felt. No teacher is

able to adhere to the use  
of any one of these terms.  
They are in all the books  
used synonymously. Some  
have a partiality for one  
more than an other term. They  
are all referable to the ph.  
we call living. When we  
bring potato with sulphuric  
acid. We say there is a dis-  
position to unite. Why some  
potato do survive soda &c.  
we only know the fact. We  
don't know the cause. An  
aschrotic acts on the other  
sensibility - pour oil or  
water on it & no pain  
is experienced. Here there  
is a capability of acting  
on the two substances.  
Different sub: produce  
diff: effects when applied  
to diff: part. This  
is what creates the



lip: of sensibility.

It is sufficient for us to know that this capacity of being acted upon, tho differently exerted every where thro our bodies.

Now I w<sup>d</sup> like to know if there is any organ for wh this capability is referable. This seems in some degree to exist in the cellular tissue. This forms & enters into all the organs & fibres. This came from the parent. It might seem that all the sensibility of the system generally depended. They first had it because they were made up from it - but once having it they no longer depend upon. The cellular tissue seems partially to have lost its sensibility to foreign agents & in some measure to resemble dead matter -

We have no means to sup-  
 ply the absorbent vessels supply  
 this principle. They carry  
 of the secretions mat-  
 Therefore they can be the  
 depositories & communica-  
 tory of this capability. And  
 also it rest in the veins -  
 They carry the blood wh  
 is no longer fit to remain  
 in the organs. The venous  
 blood can't sustain his  
 dependence. Thus are  
 out into system on wh  
 the capacity can depend  
 The arteries & the nerves  
 The brain & spinal mar-  
 row form, which the  
 nerves are sent off -  
 Direct experiments  
 to show this opinion  
 as correct. Cut off the

supply of arterial blood  
 of the part air. The same  
 may be said of the nerves.  
 Therefore it is evident the  
 Air systems are essentially  
 necessary to keep us in the  
 principles of life. but is  
 it the blood or is it  
 the tubes that carries the  
 blood? The arteries are  
 nothing but ducts or pipes  
 to carry onward the  
 columns of blood. Stagna-  
 tion is where takes place.  
 In the part its velocity  
 may be diff: - but still  
 it goes onward up here  
 & down here until it  
 reaches the venous radicals  
 that carry it back to the  
 heart. Now it is more  
 than probable the  
 blood that pervades the

whole system, keeps up &  
 maintains his capability of  
 the organs of being acted on.  
 If it is delayed in an or-  
 gan, that organ loses its  
 functions - & if allowed  
 to remain near the organs  
 dies. The blood must be  
 circulating - It must be  
 passing onward. There is  
 no such a thing a re-  
 sident of blood - it must  
 make its exit by means  
 of the veins - But the same  
 blood may be returned to  
 the organs to perform the  
 same task. It must pre-  
 siont do this return to the  
 lungs - There it becomes  
 decarbonized or it con-  
 vort par cause it throws  
 out into the air how  $\frac{1}{4}$

th. of charcoal. We must  
 sup. the blood in its  
 passage thro' the lungs ac-  
 quires something wh. fits it  
 for con. This capacity, but  
 w<sup>t</sup> this is the true sense

Now we come to the  
 nervous system. The nervous  
 mat. is composed of a  
 pulp mat. arranged in cords.  
 The brain, the cerebellum &  
 the cerebrum & medulla &c  
 are comp. of this white fibrous  
 substance & pulp. The  
 nerves, the brain &c are  
 enveloped by a tough nervous  
 membrane. The envelopes  
 may be comp. to the  
 vessels. You will say the  
 the nervous fluid is not  
 resident in these tubes  
 but must reside in the

pulpy mat. - This nervous  
 mat. like the blood is  
 continuous & uninterrupted.  
 Not like the blood  
 it remains motionless.  
 The medulla oblongata seems  
 to correspond to the heart.  
 All the nerves seem to ori-  
 ginate from this part.  
 This seems these centres of  
 origin. If we cut a cross  
 below this point & all  
 life below is cut off.  
 Generation is destroyed.  
 But if you slice up the  
 brain above, the nerves will  
 not lose the power of ac-  
 tion (i.e.) nor below.  
 But as the funct: of the  
 nerves seems to be somewhat  
 specific. From this centre  
 there seems to be something

irradiating. We conclude the  
 the neuron system is the seat  
 a part of sensation. The quan-  
 tity of radiating mat. goes  
 to dif. parts is dif. Some  
 parts hence are more sen-  
 sible than others. It is now  
 sending in me its influence to  
 the organs of speaking while to  
 this part it is being its mod  
 of acting. What is this mat.?

It is the pulpy nervous mat.

It cannot it is evident  
 resemble & like a cord trans-  
 mit its influence. How is it  
 effected? We dont know - but  
 we are forcibly led to say  
 it must be something - we  
 cant direct our minds of  
 this opinion. The finger  
 perceives a sensation - this is  
 transmitted to the brain - it

must be something that is  
 transmitted. Is it electrical  
 or galvanic. If it be  
 either of these it then acts  
 diff. from what it is left  
 to pass among inani-  
 mate bodies. If it is  
 galvanism then must be  
 something to modify. And I  
 cannot see how a drop  
 of prussic acid diss  
 in this fluid & wh  
 it is removed life is  
 gone is not resorted  
 to pieces in the body.  
 This fluid. But what  
 is it that takes cognisance  
 of these transmissions? &  
 wh will it again radiate  
 it to all parts? We must  
 if we admit nerves infl.  
 to be owing to galvanism



There must be something a great deal more added. So in calling it fermentation, we do not do at all. We call it consciousness - I refer it to intellectual operations of those beings that are placed without consciousness. Therefore they cannot wholly be referred to that principle we call soul - the thinking faculty - were this the case no one, especially if he was fond of talking, would have the least cause.

This principle cannot do the operations of itself. Therefore we must ever remain ignorant of it. I prefer to use the word nervous influence - this merely expresses in fact without attempting to explain its operation. This analogous process to the system, to the blood - This we

external influences it dangerous.  
 Now these two are absolutely  
 necessary to the eventuality of all  
 the organs. If the heart is destroyed  
 the acts of life disappear.  
 I would make a further remark  
 on the terms irritability, excita-  
 bility, contractility &c. We are  
 now speaking of function in a  
 perfect heart. To use the  
 term irritability is referred  
 to a hearty function: does  
 seem to be unhappy. This  
 cannot with propriety be called  
 a irritability. It is a  
 irritability to a normal or  
 function seems very improper.  
 I would not use the term  
 excitability here. When an  
 organ is capable of being  
 acted on we say it is  
 excitable. Irritability I  
 would only refer to a

morbid action. I also ob-  
 ject to contractility. Whatever  
 the dif. we may conceiv'd to  
 make plain without cont.  
 or elongation, we sh'd want  
 denser to express correctly  
 many functions or impressions.  
 I shall therefore always  
 use the term excitability  
 preferred to any other.

As you are aware the  
 act. of the heart is unequal  
 distributed - Next to the  
 numerous divided we  
 find more blood in our  
 organs or tissues. This is  
 also applied to the  
 nervous system - Some  
 parts are largely sup-  
 plied by nerves, the most  
 sparingly - Still further  
 in con: with the fact: the  
 nerves provide themselves an  
 the means by which the nerves

are conveyed to a part.  
 The nerves intertwine themselves  
 around them & follow them.  
 Anat. will tell you  
 we cannot demonstrate  
 them in many parts. But  
 in physiologic we see  
 them differently. When we  
 come to the capillary ves-  
 sels the nerves & vessels be-  
 come so intimately bound  
 that we can't separate  
 them from each other.

In the heart where the  
 art blood is most nu-  
 merous, the nerves are  
 also. This is another  
 evidence that the heart  
 plays its part in the  
 action of life. In bones  
 we find but few nerves  
 & blood vessels. There is  
 no necessity for these.

influences -

I think it is <sup>to say</sup> the  
 sub: in this way & looking  
 at it with simplicity we  
 can certainly make some  
 advancement. It is understood  
 from what has been said  
 that the animal & func-  
 tions are dependent on  
 these two influences &  
 the other exists merely dif-  
 ferent organs & tissues. But  
 whether the nervous system  
 is all dif: we  
 cannot say. But it does  
 do more for the variety of  
 structure. Every organ  
 or tissue has its own part  
 modification of functions &  
 essentiality. We consid: the  
 funct: each organ per-  
 forms separately in the same  
 way as the phys: pure

quits. In this way we will  
 obtain the most useful & cor-  
 rect knowledge. This  
 knowledge of essentiality is of  
 immense import. to the  
 physician - both in the  
 med. in practice & in  
 Zoology - without this  
 knowledge we could never  
 have a classification of those  
 agents.

Some parts of the body  
 are more liable to take on  
 the pt. of sensation than others.  
 In some parts impres. may  
 be made & we doubt dare  
 cognizance. Tickles made  
 over the surface of the skin  
 with the hand may give  
 rise to pleasurable feelings -  
 when the impres. is done  
 made with a needle or  
 when given rise to pain &

Some reforms when application  
of cert. kind is made to be  
excite sensate. This takes  
place in the joints of joints  
are pointed upwards. It  
by twisting the the pair is  
very great. This seems to  
have been nec: to the pres-  
ervation of our limbs. That  
we do avoid wounding.

The part of person  
in most act joints, has  
not only a large supply  
of blood & nerves, but it  
also has the greatest  
amount of excitability.  
If you cut off the supply  
of either excitability nec-  
essary. Many animals  
we seems to have few  
nerves, that we have  
is cut off & all nerves  
broken out off they still  
never capable of it.

excitability. From this fact  
 there might be led to con-  
 siderably did not depend  
 on the blood & nerves. If  
 we sup: are independent  
 infl: one indep: of nerves  
 & art: d. The excitability-  
 of a vessel is nec: to be  
 moving on of the blood. It  
 is a peculiar action &  
 this implies excitability.  
 One must consider this  
 when it is great excitabi:  
 this must be a great  
 drop of blood & nerve.  
 As you bring an extra  
 agent to a organ you  
 excite the vascular system  
 & the nerve infl: how  
 does the excitement  
 of the organ & if it are  
 act with sup: energy.



You entering the body the excit.  
 It will seem to it is by  
 stimulation that a cond: of  
 an organ calls for the a  
 just amt: of ner. infl: &  
 blood. You excite a part  
 by alcohol the blood is  
 directed to that part  
 there is an increase of ner.  
 infl: - But if you had  
 pruned cut off the ner. of  
 that part you will have  
 no increased flow of  
 blood to that part. The  
 will show how the ner.  
 infl. affects the state of  
 excitement.

We have just seen the  
 the nerves & art: are both  
 nec: to an increase of  
 excitement. We have  
 seen that dif: parts of  
 the body have dif: degree

of excit: - We are also  
 led to the law that if one  
 part is much excited the  
 excitement will be dis-  
 minished in the parts.  
 We shall perhaps see  
 more fully that dis: is  
 not the same as cond:  
 If any one of the organs  
 or the mode of its  
 action is not compat:  
 to that for which it  
 is made, that  
 it is a kind of inverted  
 state - It performs a  
 function, but it is not  
 one of a healthy act.  
 One action is according  
 to its function in  
 the parts of the body.  
 There are those who

however has dis: and  
 no prevalence who he  
 ant: of funct: is the  
 operant. Thus the cir: of  
 blood is great. The cir:  
 life is great. Thus the  
 machine is most liable  
 to get out of order. The  
 same law is applicable  
 to all complicated ma-  
 chines. The vitality  
 is supplied by a matter  
 more comp: than the  
 form<sup>now</sup> used - therefore  
 funct: now are hard  
 to know & to de: place. For  
 many things are prepared.  
 If you wish to know  
 the parts most likely to  
 take or dis: open your  
 books in physiology

At these you will find  
 the new flow most  
 in the form: & it is  
 we have been talking  
 about above: &  
 actions. & we are these  
 we often use terms in  
 definiteness. Of these functions  
 we cannot always take  
 cognizance of ~~the~~ functions -  
 they are beyond our senses.

It is not what I should  
 have to learn before we  
 this morning: we will best  
 deal with the medium of  
 the blood. The blood is  
 formed out of the nutritive  
 fluids etc. but has become  
 solid particles of a uniform  
 size. The blood from

a great quantity of our bodies  
 for part: acc: of the blood  
 I refer you to prof: of anat:  
 &c. This vice of course refers  
 to it. The blood has 3 appor:  
 elements - a watery part &  
 a coarctable part - & red  
 Globules. The blood of animals  
 is made up of all the elements  
 It is remarkably homogeneous  
 & has a tendency to keep  
 whole in a uniform condition  
 It is made up from the differ:  
 parts in from without. This  
 too must have two parts  
 of organic & inorganic  
 to animal waters &c are  
 the elements of vegetables - but  
 to support animal bodies  
 organized substance is necessary -  
 The element is first taken  
 in mouth & swallowed  
 & taken into the stomach  
 & then taken into the blood

a fluid from animal body. It  
 then passes into vessels. The  
 nutritive particles are then absorbed  
 & pass into venous system.  
 The blood passes first to right  
 side into the lungs & then to  
 the left side of the heart.  
 It is always necessary for it  
 to pass thro' the lungs to  
 be fit for nutrition.

Of the same animal we  
 live on animal food & tho'  
 we live on vegetables we could  
 not find much oil in the  
 blood. This the diff. from  
 oil. taken in. It is the  
 part of animal food that  
 decomposes & forms new matter  
 out of the substances taken  
 in. A change is made in  
 the compound. This is what  
 exactly occurs, in lactification.  
 As milk is  
 all of oil and necessary to  
 form of blood.

41  
2  
we beheld not. but change  
it.

When we look more  
other deep we find it - Now  
the blood etc. thro' the whole  
body - The whole body over  
and you find not a map  
near a vessel map.

How it is carried to all  
parts for what is it? It

is for some: to connect the  
parts in an economy -

A continued series of decomposi-  
cond: takes place. All parts

have previously existed in the  
blood - There is the albumen

of blood - we find many of the  
parts composed of this sub.

If we have many sub-  
formed of Selalin, this is not

more than modified of  
albumen - The elements of

the various tissues of the body  
are to be found in the blood -

What takes place in body is  
not more than a exchange

of blood a little altered

42  
in its form. This const: repro-  
ductions.

We have secretions, as the  
mucus in nose & stomach the  
bile - the pancreatic juice &c.  
We cannot look at animal  
economy without beholding  
secretion. In all the organs of  
the body we find fluids thrown  
out. These all have a re-  
lation & united to the nu-  
trition & to the blood. The se-  
cretion we can throw out from  
the skin & the sweat is taken  
from the serum of the blood.  
In urine we find found  
the engraving, nitrogen, Hydro-  
gen &c are found to exist in  
the fibres of the blood. They  
are all secretions. Some of  
them may be called excreted  
as the bile, & the fluids we  
find in the synovial & the  
joint joints - These are not  
excretions.

The part: at I have



descend make up those of  
 the body. The act of food sign  
 on mat: - compel it want to  
 undergo new change - & we  
 are cir: in various directions  
 so that the animal functi:  
 only presents to us comp: & de-  
 composition of mat:.

We have the functi: of  
 sensations - we say we see -  
 You we have a sensat: of  
 a specific kind - the sound  
 of touch. This is not: mov:  
 than we have a mode  
 of evidences of w<sup>h</sup> we are  
 conscious. You will obser-  
 ve that a small portion of  
 the body is appropriated to these  
 functi:. But still it is  
 the functi: of nutriti: to keep  
 in op: part of visio: of the  
 optic nerve is unable to  
 transmit the impres: this  
 must be some effect to be

44  
nature function in the parts.  
How well is it the things altered  
the transformation: - Some will  
tell us it is from want  
of con: in the cap: vessels.  
But this another: will tell  
you there is no cont: in  
these vessels. It seems to  
me that in many cases of  
the blood that the vessels are  
not suff: to nutrition. The  
are not: but tubes. I  
cannot conceive of any purpose  
the cont: of these tubes. An-  
equal distrib: may have  
place. I frequently so - but  
we know the this is a part  
of a vicious life. But  
if you call up a function  
to perform an additional  
part this is an unequal  
distribution of the blood.  
If you take a seal  
into the mouth & make

eat it. There is an afflux of  
 blood to that part. You  
 have an increased secretion  
 when calimens are taken into  
 the stomach. Now it used  
 happen to the heart, it has  
 de will dash on increased  
 function. There is a compression  
 of nutritive fluid in acid the  
 function. A great amount of  
 blood is sent out in a pro-  
 portion, & the nervous energy is  
 is also thrown out. This is  
 necessary for the stomach to  
 act on the food. When we  
 have what is called an irrita-  
 tion we have an increase  
 of nervous influence to that  
 part. & also of arterial  
 blood. When the end for  
 which it was designed the function  
 again returns to its for-  
 mation of action. When  
 this has taken place is

46  
in one organ it takes place in  
another.

Now we will at a  
future time come to make  
an application of all that  
I have said. We cannot  
you will find that we can  
not have disease without  
disorder of diet & assimilati-  
on. Dis: comes out to be  
not far an improper  
distribution of the ~~fluids~~ food.

When one organ is disturbed  
the function of other organs may be  
affected in various modes.

The animal machine is  
wonderfully complicated. & all  
these are brought in to a morbid  
play by a disorder of one of these  
parts. Hence you will see  
how complicated the phenomena  
of disease will be. But we  
as we mean by the phenomena:

of disease? not more than its  
symptoms - The organs continued  
to act but they did not deal  
as an in accordance with the  
funct: of other organs - Hence  
you will see there must vary  
in diff: parts of the body.

Dr Rush defined dis: to  
be morbid action. This is not  
exactly right yet it is not  
altogether wrong. Dis: has not  
that unvaried act: of unity.

How did this morbid funct: have  
ell from the organ on which  
the morbid action was made?  
This is the question wh has long  
agitated the med: world. This  
is a question little understood by  
the profession.

I call your at: to the  
blood. because the blood is  
obvious & palpable to us - It  
is nec: to the blood shd  
ex: thro the animal mach:  
It is proper under cert:

cord: a larger amount of  
 blood is required to a part  
 as in the muscles in perform-  
 ing locomotion &c. But still  
 it is near the the cir: of blood  
 shd be uniform & uninterrupted.  
 In a skin the blood is thro'  
 from the external cutaneous  
 surface upon the internal  
 viscus. This is wh takes  
 place wh cold or inoi-  
 tion is applied to cutaneous  
 surf: Here there is a means  
 of an equal distrib: of  
 blood. Here vis: is com:  
 to internal parts by ex-  
 ternal causes. I doubt  
 sup: if any change in the  
 blood itself or any change  
 in the vitality of the  
 system. It is only a trans:

ing off the blood from the  
 external parts to accumulate in  
 the internal organs. And the  
 present morbid act. is as follows:

Let us now consid: the  
 change it takes place in  
 the blood itself. It is the law  
 of our economy in the blood  
 that be kept in a uniform  
 condi: of an organ re-  
 ceive blood of a certain qual-  
 ity: from the health  
 act: of: will avoid it is  
 incident in the organ. That  
 the blood is freq: change is  
 unquestionable. Sup: in-  
 ternal food is used for  
 a long time as is oft the  
 case on ship board, the nu-  
 merous particles of the blood  
 will not be that designed  
 for healthy action. And

You will have dis: lifted  
 up from this cause. The  
 great obj: of the blood is  
 nutrit: - exercise & re-  
 creation & exhalation. ex-  
 cretion takes place from  
 the kidneys - exhal: from  
 the lungs & skin. If one  
 of these funct: is impeded  
 the excretion dont take  
 place from the kidneys -

The excrementous mat:  
 wh: they were designed to  
 be thrown off by urine can  
 be retained & this urine mix-  
 the with the blood & be-  
 come a poison to the  
 whole system. Hence  
 the poison of Dysuria  
 a local cause will  
 destroy the constitution.



The skin performs an excretory  
 funct.: The nat: thus show  
 off is excrementitious. If this  
 excret: is retained & the skin  
 does not perform its funct: it  
 is taken along with the blood  
 & this is then brought over  
 The same may be said in  
 reference to the pulmonary  
 exhalation. From retention  
 of bile it is absorbed into the  
 blood & become we may say  
 a poison to the funct: of life.  
 The blood loses its nat: as  
 best - the skin becoming a  
 tump of yellow.

The funct: of skin &  
 kidneys were all aware  
 is necessary. This may be  
 cess: as an obj: to wh I  
 have laid down. Then as  
 nature: itself & they do

Ormet. perform act. for  
 one another. When the kidneys  
 are excoriated the patient  
 dies - though the particles of  
 the urine is carried off  
 thro' the skin & cutaneous  
 pores. During cold w<sup>h</sup> the cutaneous  
 pores is small & the  
 flow of urine great. This  
 does not arise from a vice  
 actus but from a large  
 amount of blood being  
 thrown on the internal  
 organs & hence the diminution  
 of urine is greater  
 than usual.

The cond. we have come  
 to - are 1<sup>st</sup> w<sup>h</sup> the blood is  
 deflected from one part to  
 another. dis. is increased - or  
 has from the vitiation of

nutrients from unwholesome al;  
 The blood becomes vitiated &  
 Dis: is brought on. 3<sup>rd</sup>. That  
 what the excretory organ is  
 defected in its funct: - the ex-  
 cretions mat: of this tr:  
 Jan & a have been thrown off  
 & is retained in the blood in  
 due to morbid action.

Dis: many arise from  
 an acc: of blood in the  
 sinous canal. as in the  
 dura crura. You will th:  
 own another case is who  
 an infl: exists in a part,  
 Sup: we have infl: about  
 the head the arteries will  
 will pulsate & finally con-  
 munitate dis: by the part-  
 not by nervous reflex  
 but by the increased amount  
 of blood sent to the part  
 - and thus from the  
 amount of blood sent

in cordic canal. This may  
 refer to it in the case just  
 in you yesterday. I  
 spoke of the great inflam-  
 matory tofans in the  
 kidneys &c. This I showed  
 by an error the cause of dis-  
 ease. Then are cans analogous  
 in this - As when the  
 internal surface of the  
 vein becomes & inflamed.  
 & pus is drawn out. No  
 pus is then carried into  
 the air: & putres general  
 air: - This is not from  
 the shock the nervous  
 system receives, but from  
 nothing more than a  
 foreign sub: in the blood.  
 It air: with the blood &  
 reaches the heart, into  
 the brain & in this way  
 frequently proves fatal.

You see this is a case some  
 what analogous to what  
 I pointed out yesterday.

The appearance of the  
 blood when drawn from  
 a person suff. under this.  
 The cupped, the buffy coat  
 & you all know is an  
 indication of infl. action.  
 I have seen this ap. of  
 the blood induced in a  
 few hours by sinapisms.  
 an infl. of the eye will  
 also give rise to it. This  
 ap. arising from some de-  
 comp. of the tissues placed  
 in the blood. All goes  
 to show that the infl.  
 has wrought out an eff.  
 of morbid kind on the  
 mass of blood. This  
 is a matter of importance  
 for if the kind of morbid

or jaundice can produce the  
 how much ought it to  
 demand our attention.  
 Who can pretend to say  
 that this: thro' out the  
 system is not the cause  
 of the general dis. In  
 this I think we have a  
 great deal to learn.  
 Acting on an all the  
 funct: it will undoubtedly  
 excite a morbid action.  
 The blood you are assuming  
 tends to the preservation  
 of all the organs, it  
 seems to regulate the  
 funct: & maintain  
 the vitality of all  
 parts - In it are all  
 these dependent. More  
 of pressure may be exerted  
 to this than to any other  
 influence. Let us con-

it is a result of injury w<sup>ch</sup>  
 of a number of morbid acts  
 & are not brought on by  
 this state of the blood. May  
 not most general & common  
 diseases be owing to this state  
 of the blood. We shall  
 have constant occasion to  
 refer to these opinions  
 in the course of our lectures  
 & in the contemplation thereof  
 & either make the ground  
 own to entering subject they  
 I think I shall do the  
 best of I. N. H.]

I shall next consider  
 the <sup>sympathetic</sup> nervous system. This is  
 called sympathy. There is  
 a bond of union between all  
 parts which we call vessels  
 & cellular, & a 3<sup>d</sup>  
 nervous. The various parts  
 of the body are associated  
 by mutual connections.

When there are distant  
 objects they seem like  
 distant sovereign states -  
 we have the parts in the  
 front all concurring to  
 the same function. How  
 we then is an understand-  
 ing of actions in the parts we  
 are aware there is an as-  
 sociation of actions & organs.  
 This understanding - This  
 too may be said of the  
 eye - The iris is fixed to  
 diff: shades of light - the  
 eye sends itself to various  
 distances. How do we  
 distinguish function? We live  
 the sensations, the act  
 of circulation. It may  
 be that the nervous sys-  
 tem. You will see that  
 the nervous function is



various organs & orders them  
 to act in concert. The  
 nervous system: The central  
 takes the function of associated  
 action. Many parts  
 are associated in mechanical  
 digestion, respiration,  
 excretion &c. In resp: the  
 must be an assoc: of the  
 heart & lungs beyond that  
 of muscles. This goes on wh  
 we think it or not. All  
 these parts are only con:  
 by nerves. You may travel  
 all over the whole system in  
 this way.

How it is that

It is nothing more and  
 a complete of this association  
 of action, nothing more than  
 morbid nervous influence.  
 How this power acts in  
 resp: &c we cannot tell

60  
We only know that the  
brain does send out an  
influence. I can know only  
what we have said. This  
is a violation of this dy-  
namo law of association.  
You will perceive the  
diff: between the diff: of  
the organ from that  
in another arising from  
nervous influences.

But here we must  
guard against too much  
generalization. It would  
now be nat: to omit: to  
sup: all diff: of dis: in a  
single organ may be de-  
fined to be sympathy. A few  
dis: I wish to guard you  
we will consider: the excep-  
to dis: from the brain, the  
centre of our perceptions -  
& all our actions. This now

center near the midulla oblongata. Now if this part be injured all the parts will be disordered in function. The urine is not retained. The muscles are relaxed. This is not affected sympathy. It shows you that the power is a power in that central point which is sent out to give the various organs into action all the parts. A lesion in this part produces insensibility. This is not a case of sympathy. It is from central motion comes to this center of act; we destroy the power which is radiated from this center upon all parts. When this part is destroyed a life entirely ceases. If the heart is injured or I know not life is in; but I know. This is not caused

65  
by sympathy. A tumor  
may arise & press on  
a nerve. This will give  
rise to dis. below. The  
parts are disord. in fact.  
This is not sympathy -  
it is nothing more than  
a cutting of the nerve  
infl. Thus one may  
have of the kind. Symp.  
pathy can only exist where there  
is a nervous influence. We may  
reflect lesions to any extent on  
organs without affecting  
the plant. The parts will  
have an increase of growth  
because there is an additional  
quantity of nutriment sent  
to the parts.

Sympathetic phenomena  
arise from blows & wounds  
in external parts. Pain

we need affect to system  
sympathetically. I have al-  
ready referred to how I am  
winded and not the effect  
of sympathy. This is a law  
I wish you to recollect. This  
is a thing distinct from  
the term of sympathy

There are parts of the  
work more readily called  
into sympathy, the parts  
of the animal economy.

But these details we  
cant go into at present.  
The various modes in dis-

is prepared to the sys-  
tem man as to suff: but  
there is a fear of being led

only - There is an other  
mode to which I will  
direct your attention. There

is a subject on which we  
cant go to in a detail.

animal course. No funct.  
 is susceptible of maint: itself.  
 It is dependent on some other  
 obj. If it be insulated  
 this funct. immediately  
 ceases. It is a law of animal  
 economy that the organs  
 should be sup: by blood  
 from the heart. If the heart  
 cut off they no longer  
 perform this funct. It  
 is nec: to this existence  
 therefore that the heart  
 should exist to maint: the  
 funct. - Consequently when  
 there is a failure of the  
 act: of heart this must  
 be a failure in the part  
 sup: there is an excess  
 growth of heart consti-  
 tution - It is called  
 hydrophy - It is called

The venous system will act  
 sup. by the act. of heart.  
 Then will take on an in-  
 flamm. action from occur-  
 a great amount of blood  
 from a increase act. of  
 the hypertrophied heart. This  
 is a dependence of funct.  
 Show that aneurism in this  
 way is induced.

We find the heart can  
 be moved by sympathy.  
 If an inf. is excited in  
 a limb - or a mucous  
 memb. be stimulated by  
 alcoholic agents. The  
 heart will take on  
 an excited act. & will  
 throw out with great  
 energy the blood to the  
 aff. tissues. & in this

66.

Dis: will be excited in  
these dist: parts. Hence  
The heart is by sympathy  
affected being into motion  
actions in distant parts  
awakened in this influ:  
This last is not a direct  
symp: action. It is  
only a secondary effect.  
There are two principles  
you observed in this dis:  
actions concerned. If you  
adm: operate use V: so  
you may weaken the  
inordinate act: of the  
heart you allow the  
vitalians in the dist:  
parts.

All the dis: tions  
have his origin: with the  
heart by being sup: with



too much or too little  
 blood. If the heart has  
 long languid in act: we have  
 a congested state of the system -  
 an oppressed debilitated state.  
 It is as you know the  
 takes on from the contrary  
 effect.

There is a danger in  
 stand of his who we re-  
 fer to his brain. In speak  
 of the brain I have in  
 direct reference to the  
 medulla oblongata. Let  
 us consider this for a moment.  
 If you slit open the left  
 ventricle of the heart the  
 animal must fall to  
 the ground. This doubtless  
 from the blood not  
 making the extremities -  
 we can see the true cause

68  
When a hemorrhage is confined  
to a limb. This effect  
arises from the want of  
blood to stimulate the  
centres of nerves. You will  
know precisely if the  
quantity of blood be  
small and to this point  
the mind be a want of  
action. On the other  
hand if the quantity  
be too large the mind be  
less - disordered func:  
tion. This is a kind of  
Hydro effect.

It is the heat is found  
in an animal. The  
more is the better.  
This is not a general  
sympathy. It is not  
fundamental. It is of the

69.  
parts will be heard. The  
muscle as you are all  
around been the brain  
is no longer able to send  
out the nervous influ:

There is a complete unthi-  
cally of nervous power.

The funct: of the brain  
and disordered from want-  
ing its nat: stimuli. Hence  
no motions from a want

of this nervous infl: and  
to be effected. Of this we  
a great instance is the  
brain from any cause

& all the parts are cold  
for the motor action. No  
is a universal spasm.

This state is called  
an insensibility, but it is  
a morbid influence com-  
municated to the

Muscles from a peculiar  
 state of the nervous in-  
 fluence from an excessive  
 degree of excitement. With  
 respect to the nervous centres  
 the brain & the heart, it  
 is necessary that both should  
 act in a certain way with  
 the others. If the influ-  
 ence is thrown by one on the  
 other the excitation is of a  
 successive quantity the  
 will be dis: is called.  
 The one will communicate  
 morbid funds: In this  
 there is the disturbance  
 of the system may be  
 the consequence. Dis:  
 of various kinds will  
 arise up. Consti-  
 tutional disease and

All this is the dependence  
 of the function on the  
 of the. We see another exam-  
 ple in the sup. function &  
 the circulatory. Sup.  
 here is an obst. to the  
 passage of the blood thro-  
 the lungs. The result is  
 a standing up of the  
 blood in the right side  
 of the heart. Anemia  
 will take place. blood  
 will be accumulated in  
 the abdomen, viscera - in the  
 liver &c. This will be  
 a measure of the extent  
 of the. You will see  
 that this is not a sympt.  
 action. It is the depen-  
 dence of the action of the  
 organ upon another.

72  
From these effects you may  
have effusions from the  
peritonaeum &c. Then will  
be fullness of the ascend-  
ing aorta - the face will  
be flushed & compressed  
of the brain - producing  
apoplexy w<sup>ch</sup> will often  
be found to depend on  
dis: of the heart.

I suppose there is arising  
of the lungs &c & the blood  
is not properly oxidized  
from dis: about the lungs  
then blood from not being  
decarbonized & again re-  
turned to the heart without  
giving this. This process all  
the body is brought into  
morbid action from the  
action of an unhealed

73

1860

1863

1460

1920

Idiopathic is the first aff: it  
results from a remote cause. This  
is an original or primary aff: -  
all other affections of organs be-  
arising from this are symp-  
tomatic.

Much dispute has arisen <sup>from</sup>  
about the existence of idiopathic  
Some sup: fever to depend upon  
local inflm: - & always being  
symptomatic.

Most aff: are consequent  
one upon another. Dis: takes  
place & this originates dis: in  
other parts. Several properties  
of dis: may take place in dis:  
before, until the whole system  
is thrown into dis: - & thus the  
well be as it were an explo-  
sion thro' out the system.

Every dis: state is the cause  
of an effect, exciting dis: action  
in many organs. Sometimes  
we have examples of the first  
aff: setting in while the

Symptomatic aff: man for ord  
 to history the life of the patient  
 Indeed in most cases of  
 fevers that takes place  
 this the secondary affection.  
 You will hence see the  
 use of the terms of Idiopathic  
 & Symptomatic are not of  
 much importance. Sup:  
 a chela take stramia. The  
 first imp: is made on the  
 stomach. This imp: is  
 com: to the brain. The  
 eye becomes affected. The part  
 sup: with the 3<sup>d</sup> 4<sup>th</sup> & 5<sup>th</sup> pair  
 of nerves. The imp: on  
 the brain is sent out via  
 the nerve supplying the  
 muscles & corneal: is produced.  
 The action of the heat  
 is increased in action. An  
 increased quantity of blood  
 is sent to the brain. Paral-  
 ysis is brought on of one  
 side. Lesion has taken



placed in the brain & is the immediate cause of death. How far removed from the first effect is from the last, the cause of death.

You have much about general & local diseases.

General dis: cont: dis: of the vasculae, nervous, & tissues. This is constitutional disease. A dis: is called local or confined to a particular part. We have no dis: which is universal. It is general when confined to those general tissues, which I have mentioned.

I think first and second: can too dis: exist in the economy at one & the same time. This doubtless is always correct. Two dis: of organs may be acted on as the same dis: by two diff

76

existing dis: in each. But  
it would seem the two  
causes acting on the same  
organ, will not excite  
two kinds of morbid ac-  
tion. Hence you see  
Hunter's law as respect  
one organ or tissue is cor-  
rect enough. This is true  
of the vasculas, the lymphatic  
nervous tissues &

When however that we  
we call a local dis: is  
existing in a part it is  
difficult to get up a new  
disease of another dis:  
of the same the primary vis  
tubula. Two great actions  
cannot take place in  
the system at the same  
time. Locomotion, Hunter  
operations & digestion can-  
not be fully accomplished  
at the same time. Loco.

motion is performed with  
diff. during the process of  
digestion.

But the mind is not  
satisfied with the fact.  
It would enquire into the  
cause. This cause about which  
I have been speaking has  
not been fully explained  
in the books on physiology.  
One of our most valuable  
therapeutic principles is  
involved in this law. If  
when one organ is diseased  
you can excite dis: in a  
remote part best impor:  
tant to the funct: of life.  
This cannot always be  
effected & indeed not  
without danger at all  
times - You will mod-  
erate first the pain may  
be relieved - you

78  
bring down the action of the  
part of the system generally.  
Then your main work  
your exclusive efforts.  
Most of us do in Med:  
seems to me to be over  
done & to be finally  
let us have been speaking.

It is nec: to attain  
some definite idea of  
the terms strength, debility,  
and action. If a  
man is capable of exerting  
great muscular action  
he is said to exert great  
strength. Strength con-  
sists when applied to  
organs in its capability  
of action. Great strength  
of stomach implies  
great digestive power.  
Great strength of the heart  
would be its power to

find the blood will force  
 & continue to all parts  
 of the body. Weakness is  
 the active incapacity to  
 perform different functions.  
 A person may be <sup>weak</sup> found  
 & yet his digest. funct.  
 powerful as to the plac  
 during convalescence.

I wish to draw your  
 attention to the temperaments.  
 I wish you to study the  
 best reference to the sick.  
 These are three - the san-  
 guine we consider in a  
 fair development of  
 the sanguine quality - & a  
 fulness of blood - Passing  
 of his kind and sub. to  
 acute dis. - This has  
 a peculiar you are to  
 well. The temper. of  
 his is the phlegmatic.

80  
The action of the heart is  
lax. it seals, foils &  
The nervous system is easi-  
ly excited. The heart is  
unable to send out the  
blood this is united with  
the nervous temper. Still  
we have the bilious temper.  
The act: of the heart is  
lax & has in the phlegm.  
They are exposed to the  
same dis: as both the cold  
Temperaments. It is apt  
to terminate in the mal-  
encholoid habit. The  
Treatment required  
in these dif: tempers: is  
diff: - and bears deple-  
tion better than the other  
do. Dr Currie has writ-  
ten the most philosoph-  
ical work on this subject.  
I will say some

thing about the vis medicatrix  
causiva nature of the conserva-  
trix. You perceive he  
 is a power he has built  
 up on his body. These consti-  
 tute what we call the living  
 phenomena. The heart  
 contracts from the stimulus  
 of blood & his action is  
 capable of continued ac-  
 tion. Variations from his  
 action arise from unatu-  
 ral stimuli. Remove his  
 exciting stimuli & his heart  
 comes to act acc. to its ac-  
 customed habit. The con-  
 servative power of a lake is to  
 keep itself within the borders  
 of the mountain to keep its  
 surface smooth. If storms  
 arise & ruffle its surface,  
 if can & the lake convulses  
 its water is this owing to  
 its conservative power. I  
 should say the cause

Definitively for  
 Neuroimitation is one of your  
 hand be act; to hear. You  
 must make it frequently. Still  
 it is diff: to understand its  
 meaning. The word imitation  
 is not made. It indicates a  
 mode of existence. Hence the  
 diff: of understanding. By  
 Neuro. error we mean a mode  
 of existence diff: from its healthy  
 mode of active existence. How  
 shall we desc: this defect:  
 from healthy action. We see  
 two remote fruits of this ac-  
 tion - of its primary source  
 we know nothing about it -  
 we know no more about it  
 than how takes place the  
 comb: of two sub: se. If there  
 be pain we say there is neuro:  
 irritat: - If there be coldness  
 of part we say this is a  
 defective action in the part  
 arising from neuro: irritat:



we say the same thing wh the  
 head is hot & painful. In  
 some states this will be accumu-  
 lations of blood & pain still  
 be from it nervous irritations.  
 By nervous irritations we mean  
 a defecting or an increase of  
 nervous influence. with either  
 defects & increased circ: in the  
 part. When there is an accumu-  
 lation of blood in a part  
 without pain &c. we do not  
 call it? - plethora or con-  
gestion. Wh there is a de-  
 fecting nerv: act: in part with  
 acc: of fluid we call it conges-  
tion. You will perceive that  
 this congestion is a secondary ef-  
 fect & depends on something  
 to be regulated by the nerv:  
 ous system. Wh a part is  
 congested you will consider  
 in the cause of the vital  
 change in a part. It may

continues for a time & a fever  
 disappears, & the part repairs  
 its healthy action. Yet the  
 phenomena may consist of  
 the pain, throbbing, redness  
 & exaltation of sensibility, & as  
 you say the part is inflamed.  
 You now drop or modify  
 the serum nervous & con-  
 juction. It might be called  
 a state of high irritation,  
 inflamm: conjuction - nervous  
 irritation inflamm: - This may  
 be brought on by a reaction  
 of the part - perhaps the  
 new acc: of blood in the  
 part may so revive the  
 excitability of the part that  
 inflamm: &c is set up. In-  
 dition, the chemical action  
 in vol is a state of heat  
 heat place in the part  
 are now prevented.

Just as the morbid activity of  
 sensation & the you be held  
 in lunatic - these you easily  
 distinguish from your healthy  
 fundamental functions -

At the same in the part you  
 discuss other alterations, taking  
 by place - as extravasations  
 do. the you take to be dis-  
 cretions which is one from as  
 healthy actions - you have  
 just do. After having found  
 that its various properties  
 the part returns to a healthy  
 function - you will perceive  
 alterations do. Just as a  
 river which after having over-  
 flowed its banks again re-  
 turns to a channel tho'  
 changed in its banks, still  
 serves it for the flow of its  
 waters -

Of Janic Diseases -

86

Sup. in organs may last  
years ~~in organs~~ from dispo-  
sition. The duration of the  
healing process of organs may  
be so gradual as not to  
be observed. finally pro-  
ceed to disorganize. This we  
call organized dis. In  
any case this is a morbid  
nutrition in the part. You  
will observe that in increased  
action. In flow of blood &  
in a part I shall not  
now speak. But to dwell  
in many of the terms is  
absolutely necessary before  
we set out to treat of  
particular diseases.

We will again speak  
of the diet. The blood  
we find to be serving in  
order to supply the organs &

870

to supply a secretion at  
Lakes place in this organ -  
This takes place in every  
organ or at blood is conveyed.  
Anatomy has not pointed  
out how blood going to  
a part - the part of the  
thence go to sup. the or-  
gan & another to supply its  
secretions. They can't dis-  
tinguish the vessels at  
present - how the func-  
tion know if an organ  
receives an increased supply  
of blood, its secretions are  
and increased. The same  
change takes place if the  
quantity be smaller than  
normal. The nervous  
influence in the part is  
either too great or too  
small in the organ. Now  
frequently I imagine, in this case

consequent of morbid se-  
 cretion in the part. If the  
 part has become vitiated  
 in its funct. by inflam:  
 actio it will be out  
 air to outdo the infl:  
 actio. I next call  
 your attention to Spasm.  
 This is a cond: wch takes  
 place in muscled fibres  
 of a part. It is a law of  
 muscled fibres to relax &  
 contract. It is the law  
 of the heart to cont: &  
 a per. relax. Now as  
 long as the musc: fibres  
 cont: to act: in a man:  
 in accordance to their  
 custom'd funct. - the  
 part is in a healthy  
 condition. But wch  
 the cont: have had

morbidity & in some cases con-  
 stant to the end of the wild we  
 call it spasm. In some in-  
 stances violent spasms have  
 times permanance or in ter-  
 minus. This we call Tonic  
Spasm— These are nervous  
 dis: connected with spasmodic  
 actions. This we say  
 is one of nervous debility.  
 It may have a local cause  
 giving rise to his general  
 disease.

To be a physician in the actual  
 acceptation of the word it becomes us  
 to consider further the morbid ac-  
 tions of the animal machine

You will readily perceive that  
 we should labour under difficulties  
 were we to go on to consider par-  
 ticular diseases before we are  
 completely acquainted with

Some general principles. On this subject I would wish you to think, even as dull & cloudy as the day is. One of the best modes of studying a subject is to be obliged to make others understand it. He, who undertakes to teach will always himself be the greater learner. Make this subject a matter of thought for yourselves. This is a matter yet sub jure.

This subject includes a classification of the metoria medica. One person may use one medicine of a particular class & another a different of the same class each being governed in his prescription by the same principles & each will obtain the same result. It is this generalization of medicines &



diseases to which I direct your at-  
tention.

It is now all diseases present  
us in their origin & progress with  
a peculiar kind of morbid  
or ~~organic~~ called inflammatory  
action - To relieve this ~~organic~~

we must use means to subvert

this inflammatory action -

We must first endeavour to moderate

it - You will then perceive with  
ease the reality that exists in

what I have said. You will un-

derstand the utility of consid-

ering the means that are in

our reach - No matter where

this inflammatory or ~~organic~~ ex-

ists whether thro' out the system

or only in a particular part -

This subject, however does

not admit of a severe classi-

fications - I believe subjects are often made obscure by an attempt in the commencement at a nice classification. It is always necessary for us to take a birds eye view before we can attempt to methodize upon a subject. This I have all along avoided.

We will now consider the means used for reducing this inflammatory reaction - that which we meet with in most cases of inflammatory fever.

In the first place all active life & its functions depend on certain stimuli. They are these, light, caloric, food, the atmosphere or air which surrounds us & constantly acts upon us. It is on these & a variety of others

which keeps up & in play this active principle we call life. When any one of these or all together act inordinately disease in some one of our organs will be developed. When you find disease set up in the body, don't stop to enquire how it was got up. The first thing to which you will direct your attention, is the en-  
 quiry of what keeps up this active life. Look to the light, the sound food & drink, &c. You must diminish the action of the heart - re-  
 strain exercise - you must sub-  
 mit your patients to a depre-  
ciation of all these natural  
 stimuli. if you would wish  
 to reduce inflammatory or-  
 gans, let it be situated where  
 ever it may.

The second mode of reduction is by

94  
Abstraction - This is effected by taking  
something from the blood - The di-  
rection of which would keep  
up this forced organization - In the  
first instant something is with-  
held in the latter something  
is to be taken away - Abstrac-  
tion is effected by bloodletting -  
You may take it either out of  
the veins, arteries, the capillaries  
When the part is within our  
reach we can effect this object  
by topical bloodletting by means  
of leeches, cups &c, provided there  
be not much general excitement  
When the inflammatory organization  
is general - the brain engaged  
& when it is radiating its force

flashed on the system. like the  
lightening now dancing from  
cloud to cloud. & then darting  
upon the earth with dreadful  
force.

Bloodletting is not the only  
mode of abstraction. You must  
abstract the caloric from the  
body. I now speak of cold  
applications. I now speak of  
withdrawing the caloric, not de-  
priving the body of it. Another  
is to remove from the supermen-  
tory surface every thing which  
can irritate it, as clothing, ban-  
dages &c. The mucous surface  
is of more importance to be  
considered than the supermen-  
tory tissue.

I speak of removing the irri-  
tating matters which may  
be lying in the intestines  
colon & stomach. This if left  
to remain, may be the cause  
of keeping up the inflammatory  
organs through out the sys-  
tem. The recentitious matter  
which the natural functions  
have deposited there, must  
always be removed. This when  
the system is in a healthy state  
never excites diseased action, but when  
it is labouring under any affection  
it becomes an additional irritant.

The next mode of subduing this  
inflammatory organs is by Emolents  
- that is pouring upon the mouth  
an skin, water either cold or warm

& mingling it with some mucilaginous matter. You may think this a very inefficient means, but as you go out to practice for yourself you will observe Salts to be of the greatest utility.

The absorption of mixed fluids into the blood is of immense importance. This will produce the effect which I am proposing by being admitted into the blood & thereby diminishing the inflammation.

The next are the refrigerents. They are vegetable acids. The neutral salts, as nitrate of potash in dilute solution & acids taken largely into the body will tend to diminish the heat of the body. No matter what you may hear respecting these

98.

substances acting as irritants  
on the external surfaces in ex-  
citing inflammation. All such  
ideas I cast to the winds -  
I know well by observation &  
experience you may in this way  
refrigerate the system & lower the  
inflammatory excitement. He  
who merely looks at the effects  
of the remedies on the eye or  
the tongue, or the external skin  
he may delight you by his theo-  
retical reasoning - by his a priori  
deductions but rather, much  
rather let us take observation &  
experience for our guides & we will  
find these articles of great &  
astonishing importance.

You will observe that the



consideration of these means now  
 will be of service to us when we  
 come to treat of particular diseases, as  
 pleurisy &c. It will relieve us  
 from running into minute  
 details. Thus if there be inflam-  
 mation of the brain, the abstractions  
 will be imperiously called for.  
 In inflam: of the pleura refriger-  
 ants will be indicated &c

Well I know some of you  
 are thinking that I have  
 neglected or forgotten the most  
 material part of our means.  
 These are secretions. They  
 are they which augment se-  
 cretion in various parts &  
 organs. You will observe as  
 you increase secretion or ex-  
 halation you lessen the secreted  
~~quantity~~ for example if you

104  
promote the secretion of the urine  
If, if you do not give water  
to you diminish so much  
the sanguineous mass - By  
Secernants are meant cathar-  
tics, diaphoretics, scapapores,  
diuretic &c. - They are deple-  
torics - They are abstractants -  
but their action is complicated  
while they are bringing about  
a depletory effect they are  
producing others - You may  
excite the intestinal canal  
by cathartics, to throw out  
an increased quantity of secre-  
tion - but in doing this they will  
bring on an excitement thro' out  
the system. This is an irritation  
& not an effect of abstract-

tion to lower the diseased excitement. They augment the excitement before they allow the increased morbid excitement.

Now it will be necessary for you to use your depletory means first. Some suppose by lowering the excitement by abstracting blood diseased action may be arrested. but this can seldom be effected. To effect this you must increase the secretion from the secreting organs.

Now when you excite an organ to increased secretion you are restoring what before was not in existence. Now secretory pathology is only a morbid association. If you can restore to any one organ to its healthy action it will it will thus

102

carry its healthy influences into  
all the organs affected. This  
is one of the happy effects of  
secernantia. This is a kind  
of serulvius action. This  
communicate its effects from or-  
gan to organ all over the sys-  
tem.

I attach great importance  
to this subject. Though I  
am compelled to hasten  
through with it, but I wish  
you to mind on this subject  
for yourselves.

We come now to treat  
of that class of serulvius  
purged action. These  
are sometimes called stimu-  
lants. A stimulus  
is an external agent or

to join to a heavy action -  
 You may say the local  
 as well you wish to this  
 by accident or defect -  
 By these you may merit  
 the action of the systems.  
 You do in opposition to  
 you use your abstract  
 ions - when we are the  
 merely for a local eff -  
 we use the secondary  
 out a reference to the  
 general effect - In other  
 effect - Now more for  
 to do a general ex-  
 cident.

Now he are a  
 class of med. called  
 the - these are the  
 plants - Con: with these  
 are a few other class  
 to be used, classify

1874

as arsenic, mercury - so  
they have and irritate  
of the own effect in ac-  
companied with his own.  
A few we have his  
pains can be applied  
for which than with  
great advantage. They  
have been called some  
& what not.

Lastly I will give  
att: to narcotics. They  
effect has state we  
in french call narco-  
tism. They are highly  
used in the cure of many  
diseases. They are a  
complicated class we  
have a tendency to lose  
the existence of the sym-

They can never be for much  
 advantage in life and  
 action. The class is  
 much blundered but con-  
 cely. In morphology we have  
 an example of this. The  
 description of eye of July  
 of M. nupt & Linné is  
 very striking. This is  
 an abatement of the mod-  
 ern maintenance in each  
 class.

The anatomical & physiological views  
 of the digestive organs

In every case of dis. it is  
 indispensably to consider the  
 anat. & physiological knowledge  
 of the part affected. It is  
 necessary to have an image of both  
 the dis. & healthy condition of an  
 organ morbidly affected. Let  
 us now turn our attention to  
 the anat. & phy. of Digestion.

106  
organs. In all animals there  
is a sack called the stomach  
& an intestinal canal & with  
them there is associated other  
colateral organs which aid mes:  
to the process of digestion &  
when they are in a morbid state  
the digest: funct: are disturbed.  
Thus we have the masticatory  
organs - lined by a mucous  
memb. & thus supplied with  
nerves possessed of a specific  
sensitivity as the 2<sup>d</sup> branch  
of the 3<sup>rd</sup> pair of nerves. Next  
we have deglutition. The  
muscles concerned in this  
process are various & com-  
plicated. The glossopharyn-  
geal nerves supply these parts.  
The next is transition -  
The oesophagus is concerned  
principally in this - supplied



The aort: artery, which termis  
 in vena azygos. There are  
 few aff: of this organ. & there  
 principally concern the surface  
 The next process wh takes  
 place is Digestion. Digest:  
 only partly takes place in  
 the stomach. The food  
 undergoes some change in  
 this organ - called the heat  
 of digest. This organ has a  
 specific sensibility. It ex=  
 cites the desire for food. It  
 is principally situated abot  
 the cardiac orifice. This vis  
 is the pancreas. Supplied  
 with blood by the coronary  
 arteries. The food is lodged  
 in the cardiac orifice. If as  
 fast as it is formed <sup>into chyme</sup> it is  
 deposited in the pyloric foris  
 & thence transmitted into  
 the duodenum. This force

of transformation exists in  
 the hepatic plexus & this  
 part of the stomach is sup-  
 plied by a different artery.  
 Now how is the superfluous  
 water part out? I believe  
 it is absorbed by the veins  
 & thence conveyed into  
 the blood. It is this which  
 conveys the peculiar sweet  
 of asparagus into the urine  
 almost immediately after it is  
 taken. Were this water suffered  
 to remain in the stomach the  
 gastric liquor would be  
 too much diluted. Dige-  
 stion is best placed on the  
 gutted surface of the substance  
 in the stomach - it is melted  
 down like a snow-ball  
 in the sun. This is an  
 example of the conservation  
 power of the system.

The pylorus expands & ad-  
mits the chyme to pass thro  
to the duod. It is there  
formed into chyle by the  
action of the bile & the pan-  
creatic juices. From the secre-  
tory ~~add~~ place from the  
mucosa, it will be excited  
& this excites the liver & pan-  
creas. These parts are sup-  
plied with nerves from the hepatic  
& colic plexus. This is called  
duodenal digestion. Food  
comes to the 12th and small  
intestines - In these the chyle  
is completed & its nutritive  
particles are absorbed. These  
parts are sup: from the  
mesenteric plexus & with  
blood by the mesenteric ar-  
teries. We are next brought  
to the great intestine. The  
the process of fecal matter

facts placed - And the re-  
 cumentitious matter is  
 lodged in the - It is re-  
 lained here for some per-  
 jod. The accumulati-  
 here act as excitants - We  
 keep up our life - Next  
 we come to be retracted - The  
 have beside a dup: of the  
 sympathetic nerves and dup:  
 by nerves from the spinal  
 column. And we have  
 nerves of animal of sensi-  
 bility - in the other portion  
 they are principally nerves  
 of organic life possessing  
 little little sensibility - That  
 sensibility sh<sup>d</sup> be more  
 obvious it is need: to excite  
 the individual to the ex-  
 pression of faces &c.

These parts never performing  
 their funct. without being in  
 a certain state. There is ner-  
 vous & sanguineous inflow into  
 them. This is effected by the  
 stimulus lying on the mu-  
 cous surface. If food is  
 long denied these organs be-  
 come excited then a desire -  
 When the article is at length  
 brought to it this is a dis-  
 position to an excited or-  
 ganism. The brain & heart  
 are excited. There is high  
 exertion in these parts  
 while it is diminished in  
 other parts. For the pur-  
 pose of transforming the  
 food this is necessary.  
 The brain & heart are both  
 stimulated & the amount of

gastroic juice is thrown out  
 It is next: I presume in  
 many instances to stimulate  
 the stomach by food to  
 keep up on exertion in the  
 act of digestion - It is a  
 mistaken notion in mod-  
 ern pathology to suppose  
 Digestion can be improved  
 by abstinence - This same  
 excited or passive is how ex-  
 cited in the lower parts  
 of the intestines - In the  
 jejunum, in the ileum - &  
 the rectum there is no  
 tendency to excess to the  
 discharge of the fecal  
 matter.

The organ is so part: worthy  
 of our at: as the stomach.  
 Its relations with the organs is

various - Its dependent organs  
 are the liver, the pancreas, the  
 duodenum - You will have met  
 a lot in epiploica center - This  
 includes the liver, spleen, duodenum,  
 pancreas - These are con: by a  
 continuity of serous membrane by  
 this they are connected together  
 These I have named, and the  
 associated organs of the stomach  
 Continuous sympathy of these  
 has often been observed They  
 are also connected by a mem-  
 brane membrane with the except:  
 of <sup>that</sup> the spleen - These are  
 connected in another way - They  
 are all supplied by the same  
 artery - They are all supplied  
 with blood from the artery, it  
 branches into a no: of branches  
 You see how intimately these  
 parts are con: together - But  
 they are con: together by many

of the nervous system. They are principally supplied by the great sympathetic & the pneumogastric nerves. There is a plexus around the coeliac artery which seems particularly to establish an understanding between these organs. Hence you see how easily these organs may be sympathetically affected. With respect to abdominal viscera when dis: is excited in one organ it is transmitted by the ganglion in its immediate vicinity to other organs.

You will find where the cardiac portion is supplied by the Pne. Hepatic plexus - The pyloric extremity receives <sup>nerves</sup> from the coeliac plexus. Hence it is the liver knows where the chyme is passing from one portion of



the stomach to the other. The  
 liver is associated with the  
 other organs I have named.  
 I refer now to the peculiar  
 circulation denominated  
 the portal. The blood con-  
 cerned in this collected from  
 all the abdominal vessels  
 with the exception of the li-  
 ver. to wh it is sent. The gall  
 bladder sends its blood into  
 this portion of the circulation.  
 According to my recollection  
 the blood of the liver is sent  
 thro' the hepatic vein to the  
 vena cava - but that of the  
 gall bladder does not. All  
 the blood from these vessels  
 unite in a short trunk called  
 the vena portae - this ves-  
 sel is an artery wh name  
 gives thro' the liver. How  
 you have in the liver the  
 same circulation of the hepatic

artery, the veins & of the renal  
artery. Hence you have  
three kinds of blood in  
the liver.

Now you will obs: that  
the small intest: the liver  
are connect: by the venous  
system. Besides there is the  
portal connect: &c. so  
much for the immediate  
con: of these parts.

We now will consid: the  
remote con: of the stomach.  
Look at these two con:  
the aorta, & the inferior vena  
cava. This connect: is by the plexus  
in the stomach. The plexus, pharyn-  
geal thro' the instrument of  
the brain, connect: the  
with the stomach. The  
ner: v. to the organs of  
the supply. ~~Now~~  
hard is said there is

efficacy in emetic in larynx  
 head & pharyngeal affections  
 In dis: of stomach we find  
 In esophagus aff: arising  
 from the 8<sup>th</sup> pair of nerves which go  
 in part to supply the lungs  
 & in part to the stomach  
 & aff: - The cardiac action  
 may be raised up by means  
 of the nerves & gives rise  
 to dyspepsia. Hence we can  
 readily find a connection  
 between indigestion &  
 And this may take place  
 in a contrary manner, but  
 may have an action  
 come to the brain & thus be  
 affected by his eyes or other  
 part arising dis: We  
 have the cardiac plexus of  
 the <sup>lower part of</sup> ~~upper part of~~ the neck which

118.  
forms a con: with the heart  
& stomach & we again have  
them connected by means  
of two Symp. nerves. And  
you see the heart is easily  
excited in affection of the  
stomach. & thus the amount  
of blood will be more abun-  
dant in the stomach. This  
also takes place when the  
process of digestion is going  
on. The amount of blood  
sent out is greater than  
usual. It is seen to be  
a law of the animal econ-  
omy that when you excite  
an organ in one organ you  
will raise an excitement  
in what is called the  
symp. the cerebral portion  
of the nerves supplying his  
organ. Apply this you  
will in stomach

strongly - The brain you  
 think should will be excels  
 lent nervous & sanguin-  
 ous organs for to get  
 the two the course of  
 of the time. The brain is  
 stimulated is disturbed  
 the quantity of blood sent  
 to the head than usual.  
 It is this that gives rise to  
 that course we come to  
 after taking a hearty  
 meal, as when you come  
 here after dinner -

The stomach is also  
 associated with the kidneys  
 & the pelvis by his same  
 fluxes of nerves - The first  
 of impurities. Thus the  
 stomach may be affected  
 influenced upon these organs

120

gangs. But the stomach has  
branches from the inter-  
costals & runs out: the  
of course & above: viscera  
& the skin you know is  
dupl: the two intercostal  
the nerves. Hence you  
see how air: of the stomach  
and are easily excited in  
the skin & viscera.

There is nothing of greater value to  
you than the body we now are  
engaged in. Yesterday we found  
the stomach was bound by  
the nervous system with all  
parts of the body. It is intimately  
connected with the abdominal viscera  
the brain & heart & sometimes  
call the primary organs &  
the stomach & secondary  
organs. They are not first formed  
especially the brain, but it  
is the commander in chief of  
all our other organs. Like an

army which has been raised up  
 by recruiting officers, these are but  
 subordinates as the other organs to  
 the brain, & when the army is  
 complete there is appointed a  
 general. Hence the brain tho'  
 the last organ built up in the  
 animal economy, yet it parts  
 upon itself the command of the  
 whole. The action of the brain  
 & heart is such: so the heart  
 of all our organs. The eye re-  
 ceives the stimulus of light. This  
 is by means of the brain & the  
 whole system may be excited.  
 The same may be said of  
 the act. of the acoustic nerves.  
 On the skin there is a suscep-  
 tibility in the skin to be ac-  
 ted upon by heat. yet a  
 multitude of things may  
 not exert any infl: on our  
 bodies. The lung have a  
 susceptibility to the act. of ex-  
 aerated agents. The skin is  
 a very aptitude for this fluid.  
 Nitrous oxide produces and fi.

In all Muscles the sensibility is partial.

Now you would conclude a priori, that there must be some general centers of excitability. You will be led to the conclusion that all active life is a state of excitement. Every part of the body is subject to the excitement of external agents. The mucous membrane is endowed, as to the susceptibility of many agents. Hence arises the great dignity & power of the stomach. This gives it a station in the animal economy not the heart & the brain, only second in importance with them.

The stomach has not the same sensibility to every external agent. I don't know that it can be affected by light. Odors appear to act on it as most effecting the schenidness



Membranes. Of all the parts of  
 the body the stomach is acted  
 on by the greatest No: of  
 Agents. It is the seat of the  
 Laying of life & the  
 influences. It is the part of  
 the body where the life  
 may exert its influence -  
 & connect with the  
 rest of the system - It is a  
 vessel which is  
 filled with the  
 food that is to be  
 digested. The eye only  
 is light, the  
 ear is sound - The skin  
 is the barrier between the  
 interior & exterior - The  
 stomach is excited by  
 the nerves, & the  
 human endowment with the  
 power of living in every  
 & every situation -  
 for maintaining life, finds  
 the surface of the earth  
 where it exists in the  
 action of life. Yet there  
 are many agents in  
 life which are

124

not capable of sustaining that  
actions. You will observe  
that the sub: we are free to  
the continuance of life and  
often combined or associated  
with the various substances.  
I have known & in various sub:  
under a certain use seem to  
be nearly the same things. You  
the system. make the poison  
ed by feast & a fair. caused  
by arsenic & anti-mony-  
the object is to study facts  
& not largely speculate.

Some persons look at the  
tomach as excited by various  
agents - that it is increasing  
in quantity of being thrown into  
a state of dis- that we  
must make it the subject  
of our life if we would have  
all the organs in a state  
of health - that we must  
avoid taking many sub:  
into the stomach. This  
is carrying the thing too

fact. The God of Nature has  
 not created this in the way  
 Every organ he has filled w  
 its natural stimuli. It  
 is the law of the animal  
 economy that every organ  
 as the stomach should be stim-  
 ulated. The appetite whic  
 cites us to take these sub-  
 into the stomach proves the  
 contrary of the views of these  
 modern pathologists. Is  
 the young man wh has never  
 traveled beyond the precinct  
 of his city - whose muscles  
 have not been excited by  
 exercise - more or less able  
 to bear fatigue than he  
 who has been reared in the  
 country & long habituated  
 exercise.

The stomach is the re-  
 sult of digestion - & the  
 of stimulation <sup>or excitement</sup> keeping in  
 action the heart & brain &  
 preparing nutriment for all uses

Dyspepsia or indigestion.

We come now to consider some of the morbid states of the stomach. It is implicated in many disorders. We cannot consider a disease all the disorders to which it is liable. We must look about us the proper & original functions of the stomach. To this morbid state, we direct at present our attention. If an inflamed action is excited in the stomach the function is destroyed or impaired. The action of the heart is excited. This we should not call indigestion, or dyspepsia. On this subject think for yourselves. I should wish to know many various disorders may be temporarily disorder & you will see how many disorders will be excluded from what is termed dyspepsia. This seems to be nothing more than an impaired state of the digestive functions arising

From some organic dis: - These  
 reasons have made the term  
 Agyrosia perplexing to the  
 student of Medicine. If you  
 tell him if it is not an  
 infl: &c? he will desire to  
 know the approximate cause -  
 while we recognize the influence  
 of gastro-enteritis - ar: liver &c  
 we must consider Agyrosia  
 as a dis: distinct from either  
 of these. I think post mortem  
 examinations could present  
 us with no lesions in any  
 organs. This I think constitutes  
Agyrosia. It is an idiopathic  
 affection - It is a disease wh:  
 begins in the mind: previous  
 of life. About ag: is checked  
 generally ag: after puberty -  
 & continues until the 33 or  
 36 year. A dis: wh: endures  
 about 10 years. wh: I mean  
 to say. It means individ:  
 - especially in city & those em:

in the higher walks of life  
 no from the 16 to the 30 years  
 exposed to the most horrid  
 symptoms - & if at any  
 time the stomach etc be  
 examined it wd exhibit  
 no traces of organic lesion.

Now is it me: for me  
 to enume. the symptoms -  
 might I not refer you  
 to your own experience. Yet  
 as you may not all  
 have experienced this mal-  
 ady - I will relate some  
 of the symptoms w<sup>ch</sup> char.  
 this idiopathic malady.  
 It is but a paroxysmal  
 dis. - This violent raging &  
 abating I am led to think  
 arises without any cause  
 either from indigestible food  
 or any thing else. This is a  
 something (I cant call it  
 a fact) w<sup>ch</sup> w<sup>as</sup> your patient

complains of being miser-  
 able, if you tell him he has  
 been transgressing a time  
 before. He will not trust  
 you for he knows he has  
 not. The paroxysm has  
 come on frequently come  
 on during 15 years let the  
 patient do as he will.  
 Hence I infer that this  
 is not a dis: excitio de  
presso. but being purgidi-

Symptoms- Heart burn-  
 a corroding - a feeling of cold  
 in the stomach - sometimes a  
 feeling of acidity. a sense of  
 distention - a desire for some  
 dry stimulants. A feeling  
 as if the stomach con-  
 tained a hard body, as  
 marbles - oppressing & weigh-  
 ing it down. A ravenous

appetite. It is a mistake  
 also to say a loss of app-  
 etite is a symptom of  
 Dyspepsia. There is some-  
 times nausea & even  
 vomiting but this seldom  
 occurs. There is flatulenc-  
 es - This arises from the  
 food not being properly  
 digested throwing out gases  
 &c. Eructa & erge is formed  
 in many instances but is of  
 unheathy kind. This may  
 give rise to the symptom  
 I have mentioned. Mucus  
 is sometimes of the bowels -  
 sometimes light coloured  
 & again dark coloured  
 stools - Sometimes diarrhoe-  
 ea - All this is indica-  
 tion of a deranged state  
 of the liver. This deranged  
 state of the liver & spleen



to be a consequence or  
 connection with the dis-  
 ease is occasionally great  
 distention of abdomen. This  
 often rapidly passes off-  
 and is I sup: from an  
 enlarged state of the por-  
 tae vis: - Generally tender-  
 ness of epigastrium. Urine  
 often affected. Skin dry-  
 hands & feet cold. Per-  
 operation much reduced  
 skin & humors - face pale -  
 eyes sunken - cheek bones  
 protruding - In the mouth  
 a sour taste. This I can't  
 explain unless it be from  
 a suppurating of this organ  
 within the stomach. The  
 mouth is apt to be dry-  
 often thirst. The heart  
 is affected - pulse larger

comparatively empty - frequent  
 & fluttering often - Often  
 not more frequent than  
 natural - Seldom or  
 never indicates febrile  
 or inflammation. The  
 expression of the eye is  
 dull. Spasmodic -  
 A twitching of the eye  
 lids. In the muscles few  
 or less tend - Irri-  
 tants of purpose & volition -  
 factfulness. & in some  
 instances: Hypochondriasis -  
 When these symptoms are  
 some portion seems ab-  
 late a maximum & passes  
 off the individual has  
 had a paroxysm. If  
 the dis: is connected with  
 dis: of liver, indigestion  
 will be still imperfect -

If the dis: is not sympto-  
matic. after the pain of eye  
there is a general buoyancy of  
both body & mental func-  
tions - he feels as if he  
had escaped from a thousand  
swords & chains - he feels as  
Gulliver feels when he es-  
caped from the sleep-titan.

The dis: is general thro-  
out the body & the liver tempo-  
are most liable to it.

It is said to be the mal-  
ady of trees of Seneca. It  
is our afflictions in this  
dis: there is some conside-  
ration to show us.

Causes - It undertakes to in-  
dicate to you even what has  
been said to give rise to this  
malady will take up too  
much of your time - Many  
causes produce - main cause

137<sup>b</sup>

disorders the digestion. - There is  
a cause in the United States  
which excites a great influence  
in producing the dis- <sup>st</sup> <sup>lax</sup> <sup>ness</sup>  
visions & stimulating articles  
of diet & drink - gastric  
depletions & stimulation. The  
O. Lake is one of the remote  
cause of dyspepsia. Not that  
every person who lives near  
becomes dyspeptic but the  
dis: is oft incident to such  
persons. Stimulating diet &  
drink bring on an inflam:  
ory action through out the  
system & may give rise  
to inflam: oryans of mucous  
inflam: of stomach. But as  
O said yesterday inflam:  
irritation dont actually  
constitute indigestion. But  
we may have an inflam:  
dyspepsia - but this is nothing

more than chronic gastritis -  
 Did this alone const: indiges-  
 tion why do we at all use  
 the term dyspepsia. I don't  
 think it to view the mat:  
 in this light is of any import-  
 ance. It is difficult to distinguish  
 indigestion from inflam: - If we  
 admit dyspepsia to consist: in dif-  
 ferent degrees of indigestion or inflam:  
 we will frequently be at a loss.  
 I believe dyspepsia may  
 exist & does without inflam:  
 yet it may occur with this  
 state. The cause I have  
 mentioned in dyspeptic affi-  
 may give rise to inflam:  
 action - I wish you to con-  
 sider whether these are two  
 distinct maladies? Many  
 diseases may be connected  
 with inflam: action yet still  
 this does not show them to be  
 dependant on inflam: - Of  
 this kind is Hysteria - of in-

436

Mr Dr: H: is message

2<sup>d</sup> Articles of diet & drink  
which are not stimulant  
but wt are indigestible -  
wt lie in the stomach  
producing chemical change  
In one of these is short  
cakes or hot biscuit. These  
are diffcultly acted on by  
the gastric juices. I have  
known men wt called  
themselves half horse half  
alligator fellow who said  
they could not stand  
these -

3<sup>o</sup> The use of stimulating  
drinks as tea, coffee, arden  
spirits. I am compelled  
that tea is one of the causes  
of dyspepsia. It weakens  
nerves energy. It influences  
extends to both the moral  
& physical man. It increases

The mental & corporeal func-  
 tions - It does not degrade the  
 man, but refines his feelings  
 It extends conversation &  
 increases mans fitness for  
 the social state. Black tea  
 is less stimulating -  
 but this stimulation of  
 wh I speak is attended with  
 a decrease of this exalted  
 state - & will leave the  
 person in an irritated  
 state - This does not depend  
 on the circulation. It is  
 an inefficiency of all the  
 organs & functions. I believe  
 that the use of these beverages  
 in students & it in females  
 are readily carried to excess -  
 On the Leuphthymic tem-  
 perament it is not so  
 injurious in its effects. Coffee  
 is less so than tea -

Spirituous drinks do frequently produce inflammation of the stomach, but this is not always its effect. This is evident from the difficulty with which intemperate habits bear dispepsis. Yet most certainly this is one of the most powerful prodaces of that inflammation of the stomach which is the kind of dyspepsia.

The cause is tobacco. In Haverley I have been told by a person that a person cannot get along without smoking. The weather in the county is very low & damp, & that which is the situation the people are generally seen



coughs & asthma - By such persons tobacco may be used with impunity. I have heard it said of a company of Dutch soldiers who had to light their pipes before they made the charge & made it with the pipes in their mouths. The injurious effects of tobacco do not arise from its increasing the flow of solives. This is not the point we suppose the digestive function. The true mechanism operandi is the nervous irritation induced in the system which gives rise to its injurious effects & in cases of digestive function. The habit of smoking in young men I think gives rise to the disease I have been speaking of.

In the 5<sup>th</sup> year sedentary habits. Exercise is need to all our functions. Running is said to be the best way of taking exercise. The abdomen is apitated. The sphincter is actually excited.

Atmospheric vicissitudes - An atmosphere that is cold & raw is apt to produce a fit of dyspepsia. The function of the skin is affected by it & the food the nerves the stomach & the intestines & organs are affected.

Y<sup>th</sup> - Malania. I can show you this - but we presume there is something thrown out from the earth in during summer & autumn - In places where Malania is most abundant

+ fevers are frequent & dys-  
 pnoea is very common. I  
 have seen persons who were  
 long affected with this mal-  
 ady, recover from it when  
 removed to situations where  
 were exempt from these  
 fevers.

2d - Great muscular  
 & mental exertions. When  
 the muscular system acts pow-  
 erfully the blood is directed  
 to them from the internal  
 organs. The nervous energy  
 is increased in the muscles  
 system, while it is detracted  
 from the stomach &  
 loss of sleep & the usual  
 diet &c. Hence you see  
 a peculiar kind of exco-  
 riation is always necessary in  
 such a case. I was patient who  
 has died from want of it

142

9<sup>th</sup> The passions as first  
I anxiety. Such affections  
seem to affect the stomach  
& in a dyspeptic habit will  
bring on a paroxysm of  
dyspepsia - & in many in-  
stances will produce it.

10<sup>th</sup> Intense application of  
the mind - It seems to draw  
the nervous influences from  
the stomach - this is connected  
generally with sedentary  
habit - There is in such  
persons a defective peristaltic  
action of the lower bowels  
in the first place, which may  
travel up to the stomach  
& affect it.

In civilized life we  
find all the cause con-  
nected. I have called this  
a disease peculiar to cul-

143

United Society. It is here  
we meet with first-rati-  
on gin, brandy, wine &c. - The  
finest & most-trained  
sensibilities - The noblest ef-  
forts of the mind are to be  
here found.

In our last lecture we came  
to the con: that this dis: is  
closely connectd with the Ner-  
ous system & that these im-  
pressions are made in the  
Stomach. Not that the  
Stomach is always primari-  
ly acted upon. It may be  
secondarily affected -

Now when you receive  
a paroxysm of this malady  
you will find various parts  
affected - various symptoms  
will be developed during the  
Paroxysm - We dis: appear with  
it. Sometimes it hap: it some

144

organ remove from the stomach  
from a nat: debility or dis: -  
may still make it liable  
to disordered funct: - during  
the paroxysm. The funct:  
of arteries of the stomach will  
be transmitted to this in-  
ginn organ & it will be  
violently excited - & when  
the organ is repeatedly acted  
on in this way, permanent  
disease may thus be  
pathologically developed. Dys-  
pepsia in itself is not a  
mortal dis: - but it may  
or involve other organs so  
as to be the primary but  
not the ultimate cause of  
death.

When we have dys-  
in a well balanced con-  
stitution one unimpaired

The chances of being dis-  
trayed by it are <sup>are not so great</sup> when it happens  
in persons with weak or  
fems - &c.

I will enumerate the  
dis: growing out of this  
malady. We come now  
to the application of the  
inanner of the propagation  
of disease, formerly treated  
of by me - I will now  
apply those principles.

Let us look to the  
lower bowels. The pancreas,  
liver, spleen &c. Now you  
see understand how the  
Stom: can affect the bow-  
els & liver - first by being  
lined by a similar mem:  
brane - it is bound to the  
just as the skin is cont:  
For in the stomach is

146  
In this may come to the  
lungs - & consolidation is  
brought on & will re-  
main after the stone has  
recovered to healthy action  
In this some means will  
the liver become torpid &  
active - It may recover  
from this state when the  
primary cause is removed  
but often it will run  
into tubercles. If the stom-  
ach suffers from gastritis  
the liver may suffer  
from inflammation - may  
suppurate - may become  
indurated. During this  
state we may sometimes be  
led to think we have  
from the first mistaken  
our diagnostic symptoms



I have intimated that  
 the urinary system is af-  
 fected in dyspeptic dis-  
 eases. It may be increased into  
 quantity - calculus de-  
 veloped may take place -  
 diabetes may be brought  
 on from disordered di-  
 gestion. This secondary  
 affect: does often demand  
 our most attention. These  
 are primary aff: w<sup>ch</sup> demand  
 our attention. When your  
 patient has dyspe: you  
 sh<sup>d</sup> always direct your  
 att: to these organs &c.

In the upper portion  
 of the alimentary system,  
 you have the oesophagus  
 larynx & mouth. Few  
 dis: are found in the  
 oesophagus. Stricture is the

128

Some: not with - This  
dis: is in some cases  
traceable to dyspepsia.  
But with respect to the  
pharynx it is often se-  
riously affected in this dis-  
An inflam: will be de-  
veloped here. There will  
be a dyspnea. There will  
be an organic enlarge-  
ment of the tonsils, some-  
times terminating in ul-  
ceration. In the mouth  
we have various aff-  
appearings - The teeth are  
often found to decay rap-  
idly from this malady.  
I have known a person  
lose 12 teeth in one year  
who had during that in-  
terval afflicted with  
dyspepsia. In a bracket

5<sup>th</sup> pair of nerve be  
 affected - This arises from  
 the action of the gastric acid  
 acting on the parts of the  
 mouth. We have also ulcers  
 in the mouth & the  
 tongue - These ulcers are  
 described as granular  
 and by forests - The healthy  
 membrane being the forest  
 - The natural of silver  
 best app: to such ulcers -

You are all aware of  
 the dis: Anominal dys-  
 pnoea consumption - This  
 is developed in the lungs  
 an inflam: called chronic  
 bronchitis - we have been  
 long - & tubercular phthisis  
 giving rise to hectic fever -  
 dyspnoea may arise from  
 any one of these disorders

12  
I have known persons  
long affected with cough  
immediately relieved, after  
the primary aff: was  
removed. In dyspnoea  
dis: you sh<sup>d</sup> always  
ascertain the char: its  
extent - the murmurs  
thorax &c.

The maladies of the  
heart are numerous -  
They are funct: & organ:  
ic. In the first the  
is great palpitation -  
may exist for a long  
time in the heart. These  
oft arise from sympathy  
with the stomach. We have  
hypertrophy of the organ  
ossification &c of the valves  
An organic dis: may be

developed from sympathetic  
 thetic action. as from  
 by sympathy with disordered  
 digestion.

The eye sympathizes with  
 the stomach - Sufferers derive  
 the results from dyspepsia  
 and emaciation - it may occur  
 in one or both. The conjunctiva  
 lined of becomes a chronic  
 inflammation from impaired  
 digestion - about the orbit  
 of the eye - there is an acute  
 pain above one eye. & often  
 over the whole head - this is  
 the usual sick head ache -  
 This is essentially the dis-  
 of dyspepsia - The patient  
 has disturbed dreams - &  
 awakes up & dont know  
 when he was asleep  
 or not - he awakes in  
 the morning - the pain

152.

is severe - cant get up - in  
the evening takes a cup of  
tea - afterwards feels well  
previously he had vomited  
Often it comes on in the  
evening - vomiting of an  
acid mat: relieves him  
he goes to bed - in the  
morning awakes & feels  
well - This is purely an  
neuraltic dis: - a deriva-  
tive malady of the disorder  
disposition -

We come now to dis-  
of the brain brought on by  
Angioplegia - a hemiplegy  
epilepsy - Hypochondria  
Hysteria &c. I have seen  
epilepsy come on in part  
of great intellectual  
function - I have seen  
hemiplegia of an in-

Catarrh rising from  
 this dis- This comes on in  
 persons of nervous temper:  
 There will be a number  
 of the on side - it does  
 amount to complete hemi-  
 plegia - with respect to  
 disease - in what the person  
 will talk to you but  
 will take you for an  
 other person - he does  
 think you are in the  
 room you are - he will  
 tell you you are not the  
 physician he sent for - he  
 will tell you he knows a  
 thing or two - I recollect  
 a case in which a young  
 man fell into this state of  
dementia connected with  
 epilepsy - he had been in  
 a naval engagement &

154  
The second on board. he  
thought the person around  
were the sailors. his cap-  
tain of the vessel had  
been killed. Whiskinajin  
& made some pathetic and  
clamorous over him. The  
sloop had been taken. This  
he conceived. & held out  
his hand to some one of  
us as if giving up his sword.  
He said he was fatigued  
& desired to be left on  
the deck & wrapped  
in his clothing. he asked  
one of the sailors to give  
him a drink. a minute  
I had made he now  
looked, tho' during his ser-  
vice he had repeatedly  
refused it. he returned  
to his former quarters.



about 20 minutes afterwards

We have seen that the liver is unusually bound with the stomach. Hence when there is dis. in the stomach you will find dis. in the liver. Now if you have a morbid action in the stomach. When the stomach absorbs alcoholic drinks & you will find this in the portal cir: & be taken into the liver to exert a morbid action there. Hence you see that in the first place alcohol excites the stomach & this is sympathized with the liver. Then again the liver is directly excited by the alcoholic fluid.

The liver I don't only consider an organ means of secretion but also of elimination.

With respect to the continuation of life is brought by the sympathetic action then by the funiculi of digestion being imperfect. & then again thro' the intervention of the liver - not knowing out a supposition of life.

The kidneys & stomach are bound together by means of nerves. If the nerves at go to the stomach: all will show at go to the kidneys will also be. In a state of asphyxia the stomach will not be

heavy & also the chyle. The  
 Kidneys are eliminatory or  
 excretory - hence what is re-  
 tained in the blood is here  
 thrown out - we find  
 acids in the stomach, now  
 the Kidneys will secrete an  
 acid - Of this we find a great  
 graduation of acid in  
 the stomach you will find  
 it in the - generally in the  
 & it will be thrown out  
 by the exhaling & elimin-  
 atory organs - As with  
 respect to the lungs, the  
 stomach & the lungs are con-  
 nected by nerves. The connect. n. g.  
 in the brain by means of  
 the pneumogastric nerves.  
 The irrit. may arise in  
 the roots & be reflected off

The lungs are eliminating  
 toxins. The smell of  
 garlic-liquor. It can  
 be detected in the lungs.  
 I look therefore to the  
 lungs as organs of excretion  
 even as the kidneys are.  
 I say that the stomach  
 is in an unhealthy condition.  
 The urine will be unhealthy also  
 As the eye will be  
 unhealthy. This will be  
 carried out the right side  
 of the heart & thrown out  
 to the lungs finally in  
 his way to disease.

With respect to the  
 heart his said remarks  
 are applicable. It is  
 out with nerves from

The same branch, as the  
 stomach - It seems more  
~~gaseous~~ nervous than the  
 peritoneal nerves. Hence  
 if there be a disturbed  
 state of the nerves of the  
 stomach, the visceral nervous  
 system in the heart - it will  
 act abnormally. If  
 the lungs from being  
 unhearty bleed send it  
 in this state into the  
 heart will be to it an  
 unhearty stimulus. The  
 same will happen if the  
 quantity of blood from  
 the lungs will give rise  
 to hypertrophy of the  
 heart.

With respect to the  
 heart if you write me

161-  
External extremity of a  
nerve will convey an  
imp. to the brain - Con-  
sider his first aspect to  
the stom: - if you have  
an morbid imp. in the  
sensitive extremities here  
this will be transmitted  
to the brain, giving rise  
to epilepsy, neurosis, hys-  
terochondriasis - hemipleg-  
ia &c. Organic lesion  
will here sympathetically  
developed &c. & this will  
last after the primary  
repair has returned to  
a healthy action.

Treatment. He who only looks  
to the imp. will neglect every  
thing I have before said -  
I shall not aim at it in

any part of my course to pre-  
 ferential medicine or compounds.  
 I shall only speak of certain  
 indications to be fulfilled  
 & certain classes of med: for  
 more minuteness in this re-  
 spect to the chair of Nat: Med:  
 I refer

To works on indigestion I  
 refer you to Phillips on  
 indigestion - Paris on Diet, &  
 Johnston on the stomach. &  
 also Abernethy's papers on  
 constitutional diseases ar-  
 ising from local affections &c.

In reference to the stomach  
 &c in this malady, I am  
 forced to consider it connect-  
 ed with a morbid action of the  
 nervous system. There may  
 be superadded to this an in-  
 flammatory action conti-  
 nuing gastritis. Hence I dis-  
 card the consid: of stasis in  
 this affection - It is associated  
 with a torpid state of the bowels &c

76  
What an the means within  
our reach for restoring it to  
a healthy action. I wish not  
to recollect the etiology of this  
disease. I recollect the causes  
It gives rise to it. Our recollection  
of the causes will lead us  
to consider the exciting cause  
& to remove them to effect a  
restoration. This you may  
sometimes find very diffi-  
cult. He may detect the  
use of tobacco as a cause -  
you will soon advise discontinu-  
ance of it - in this you  
may frequently be deceived.

The causes arising from  
improper diet generally take  
the head. You must en-  
deavour to regulate the diet  
of the patient. You will  
have to diet your patient  
let it arise from what cause



it may. Your object will  
 be to keep the stomach, just  
 as you treat a fractured or  
 fractured limb, at rest as  
 much so as possible. That  
 it may recover its lost en-  
 ergies. You must not call  
 upon the stomach to perform  
 a function while irritated,  
 which while in health it  
 performed perfectly & easily.

When fecal matter  
 accumulates in the lower  
 bowels it will produce dis-  
 action in the stomach. But  
 still in your dietetic ap-  
 plications you must not  
 choose such articles as will  
 be entirely fermented into  
 chyle & leave the colon not  
 at all loaded. Much ac-  
 cumulation must be  
 prevented. it is necessary that

104  
Then shd be a peristaltic  
action kept up in these  
bowels - it is nec: to keep  
up this stimulus wh goes  
to keep up the vital func:  
If to remove accumula-  
by purgatives you will be  
disappointed in your effort  
I believe there is a limit  
imposed upon us in re-  
com: a diet to our dys-  
peptic patients. but if  
there be a gastritis you  
may wish to allow almost  
any extent stimulating  
food. Then I don't al-  
lude to that state of the  
stomach.

105. The diet must be  
directed in quantity wh  
it has been taken in  
in ordinary quantity -  
The reduction of diet

depends on the temperment  
 when the signs of inflam:  
 are not great the redne:  
 need not be so great. But  
 when you find the tongue  
 red - tender ness of epigast:  
 crum - pain in stomach &  
 but when the symptoms  
 were off - you will slightly  
 increase the diet.

2<sup>d</sup> When any part: act:  
 of diet or drink has been  
 the cause it must be  
 entirely omitted. You  
 must restrict this in  
 this but let him use de

3<sup>d</sup> Those things wh  
 are difficult of digestion  
 must be proscribed -  
 Thus you will ofte  
 more readily learn from  
 the patient himself

4<sup>th</sup>. The food should  
 will sweeten - 13<sup>th</sup>  
 This it becomes mixed  
 with the biliary juices  
 & that the surface to be  
 presented to the coat of  
 the stomach will be fluid.  
 It should be too slowly swallow  
 down. I have known  
 many cases of dyspepsia  
 much improved by these  
 precautions do not drink  
 much.

5<sup>th</sup>. The diet should be  
 both animal & vegetable  
 This seems to be a case  
 of our nature, & our  
 diet should be mixed, con-  
 sisting of both animal &  
 vegetable. My experience  
 has confirmed the  
 correctness of my remarks.

When the stomach is unglam.  
The farinaceous diet will  
be proper. When there is a  
crisis the animal food will  
be the best.

6<sup>th</sup> The animal food  
shd be cooked with sim-  
plicity. Most without  
condiments. And con-  
ditions as soups, jellies  
must be provided.

7<sup>th</sup> Meats are  
improper. The lean parts  
of animal, that are very  
fat, is the most digesti-  
ble. When the animal has  
been very poor the fibrous  
will almost be reduced  
to its elements.

8<sup>th</sup> Salted dried &  
smoked meats, especially  
those w<sup>ch</sup> are fat must be  
eaten sparingly.

168

9<sup>th</sup>. The salicyenous animal  
meal, & venison looked well  
winds an indigestible.

10<sup>th</sup>. Fresh oysters are  
digestible.

11<sup>th</sup>. Solid animal food  
is more dif: than soups.

13<sup>th</sup>. Animal food should  
not be cooked very much  
by cooking a great deal  
in nutritious particles & re-  
mains.

12<sup>th</sup>. Eggs not too much  
coagulated, nor fixed in  
butter, or fat, or any be  
eaten in small quantities.  
I don't think soft boiled  
egg good diet for dyspepsia.

14<sup>th</sup>. Milk is good  
wh it is not oppressive to  
the stomach. When curd

man patients with whom  
 this dont agree - it will  
 often coagulate in the stom-  
 ach. It is not easily ac-  
 tuated upon by the stomach -  
 It is mild & un irritating  
 When the patient is affec-  
 ted with diarrhoea it shd  
 be boiled & mixed with lime  
 water &c. New more digestible

15<sup>th</sup>

Of rye stale food ~~not~~  
 is better than wheat bread  
 it must be fermented not  
 dried - baked hard - & eaten  
 cold - No bite eat: un-  
 der these restriction than  
 bread - dont violate any  
 of these restrictions - if you  
 do your pot. will suffer  
 for it. To make it agree-  
 vent the bran has been  
 left in it - the bran is  
 indigestible - it irritates the  
 lower bowels - but if the

17<sup>th</sup>

Stomach is sensitive it will  
distress Mr Gal:

16<sup>th</sup> Inaven corn bread  
without shortening - or egg  
& made into a thin paste  
& left to stand & then rolled  
hard & too hard - it is  
then a good article of  
diet - it is nourishing  
& acts gently on the bowels

It must be eaten when water  
Must is not so digestible  
as the bread baked from  
the same kind of grain -  
It generates acidity -

17<sup>th</sup> Water crackers are  
good - they be eaten with  
out being soaked - they  
then are soft & don't be  
so ~~chewed~~ chewed - When eaten  
hard they become weedy  
mixed with ~~Stilva~~ St. Ives



18<sup>th</sup> Franzmannian articles  
 potatoes - Lima beans etc  
 do contain a great deal  
 of fecula. They are  
 applicable w<sup>th</sup> justice is  
 present. The sweet po-  
 tatoes has a something  
 that makes it unap-  
 plicable in dyspeptic pa-  
 tients. They act on the  
 bowels loosely & in this  
 way they are useful.

19<sup>th</sup> Starch potatoes  
 I ha not been made  
 up. 19<sup>th</sup> asparagus, toma-  
 toes de au good -

20<sup>th</sup> vegetables liable  
 to acrim acid from  
 the sugar, the carbon are  
 impure - Hence the acid

1782

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

229. The top of the hill  
 was very much  
 covered with  
 grass & a few  
 bushes. In the  
 distance I saw  
 the mountains  
 which I had  
 seen before - a  
 very fine view  
 of the valley  
 between the  
 hills. The  
 air was very  
 clear & the  
 sun shone  
 brightly. I  
 saw many  
 birds flying  
 about. The  
 water was  
 very pure &  
 clear. I  
 saw some  
 fish in the  
 stream. The  
 rocks were  
 very smooth  
 & polished.  
 I saw many  
 shells on the  
 shore. The  
 hills were  
 very high &  
 steep. I  
 saw many  
 trees on the  
 hills. The  
 vegetation  
 was very  
 green. I  
 saw many  
 flowers. The  
 air was very  
 fresh & cool.  
 I was very  
 happy to  
 see this  
 beautiful  
 scene.

230. The top of the hill  
 was very much  
 covered with  
 grass & a few  
 bushes. In the  
 distance I saw  
 the mountains  
 which I had  
 seen before - a  
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 shells on the  
 shore. The  
 hills were  
 very high &  
 steep. I  
 saw many  
 trees on the  
 hills. The  
 vegetation  
 was very  
 green. I  
 saw many  
 flowers. The  
 air was very  
 fresh & cool.  
 I was very  
 happy to  
 see this  
 beautiful  
 scene.

104  
Linnæus & Duminus fruits  
are bad. When they  
over fire rise to acidity  
they are antiphlogistic.  
They will often increase  
the acidity of the stomach  
of infants at all other  
Lard on an empty stomach  
In infl. cases useful. In  
advantage they act on the  
bowels & this oft counterbal-  
ances the other bad effects.  
Many of them had been  
be taken with the other  
of the same

21<sup>st</sup> All diaphoretic  
are improper, as walnuts  
hickory nuts &c are im-  
proper - especially cut  
my hand, been long

22<sup>o</sup>. Tea & coffee are to  
 be taken moderately. Water  
 when there is a propensity to  
 dis: in any organ is the  
 best drink - In the  
 hana wh the pati is not  
 very young - a little spirit  
 added to the water in-  
 proves it. Fermented  
 drinks, a beer, portw-  
 ead & domestic wines are  
 improper. Old wine &  
 good bottled cider you  
 will often find of service  
 when taken in the morning  
 before breakfast.

You obs: that I receiv-  
 ed a state of the stomach  
 in at it will be necessary  
 to reduce the diet to a  
 minimum. Get then  
 an may consist <sup>in</sup> the

776.  
practice will not do. There  
are cases in wh the four  
incur an art. wont do.  
in wh an unripe food must  
be resorted to. Avoid all  
articles wh will tend to  
a reproduction of the  
dis. This is a dis. of  
of many years in these  
cases a strict diet will  
be the most proper. It  
here. The must be simple.  
The pat. must take it  
in moderate quantity -  
so as not to cause  
feeling of distension. We  
are more apt to err in  
allowing too much diet  
The pat. will not be  
lead him to sleep in  
his nat. - Yet still

147

We must be cautious  
not to run into the  
extreme. Injuring has been  
done in this way. The  
powers of the stomach may  
be weakened by purg-  
ing this practice, & it  
must have its nat: stim-  
uli. it suffers without  
it. in idiopathic dyspepsia  
we must not deprive the  
stomach its natural stim-  
uli. The law of the animal  
economy is that the stomach  
& bowels shd be stimulated  
There is reason in all things  
& now where is it more  
obvious than here. Avoid  
extremes.

Medical Treatment. I can  
say but little ~~xxx~~ on this  
part of this subject that  
circle of influence val-  
ue to you. What we can

198.

accomplish by med. wies  
often be but trifling. But  
as student it is nec. to  
you shd make some  
estimate of the value of  
wh. is said medicinal  
of the treatment of this  
malady in the book.

I cant present to you  
wh. are said to be in-  
dications of cure are in  
this dis. — I choose rather  
to call your at. to the  
clases of remedies wh.  
may be beneficial.

1<sup>st</sup> of bloodletting both  
general & local. Wh.  
the patient feels great  
anxiety - ag. eating - fee-  
bled - pulse excited -  
thirst - tongue red - full  
ness & tenacities of the



epistaxis - you may  
 suppose there is a gastric  
 & H: & will be indi-  
 cated - This dis: does  
 not bear bloodletting - &  
 even in reality be cured  
 by bloodletting - Yet still  
 you may resort to it if  
 your patient be young &  
 of a sanguine temperant  
 Many cases with frobid  
 H: will admit of cupping  
 &c. In all cases where  
 there is fastidit adies  
 you will find topical  
 application an admirable  
 remedy - Leeches in the  
 counts & small towns  
 are often to be kept -  
 or require a price to  
 manage them - But

cupping is accessible to all  
 & every where. Instead of  
 a scarificator you may  
 use a simple lancet - I  
 think local bloodletting  
 of great advantage in  
 many cases - You will  
 distinguish the cases to  
 w<sup>h</sup> I allude - you will  
 know what are the signs  
 of a phlogistic rheumatism  
 &c - This state you will  
 easily distinguish from that  
 from what I term idiopathic  
 dyspepsia -

You will recollect that  
 these cases in w<sup>h</sup> you will  
 use H &c are those in  
 w<sup>h</sup> you would not give  
 animal food - you will  
 give meintanoy acids  
 in both aspects to emetic

they are almost proscribed  
 in this disease. The best  
 effect entirely through them  
 out of the question. In  
 those states of the system  
 in which they are required  
 they should never be used -  
 but in the other form  
 I believe they are harmless -  
 They excite the muscular  
 act. of the stomach. its  
 secretions are improved -  
 the whole system excited &  
 a variety of symptoms are  
 relieved - But this is  
 a state which is diff. from  
 inflammation. This state is  
 a nervous irritation - &  
 who are greatly relieved -  
 Emetic in these excite  
 of pain - cramp - & other  
 symptoms even death. Now

182

Wh you or administer  
emetic to such habits  
should be desirable. I was  
lived in with London

Cathartics - They are  
Ariana into purgatives  
& laxatives - It is  
Seldom happens that  
call: or callu an ap-  
plicabi, yet case may  
happen - As when  
a patient of Scrophu-  
laric habit comes to you  
one who is a form-andip  
& has great dis-ange-  
ment of digestion - You  
will seldom bleed him -  
You may give the  
rec: to give emetic -  
It will be in indivi

You may give with great  
advantage both cast:

wt act on the liver & is  
called Indragrap. From

this he well experienced  
great relief. Yet there

will be a limit to this  
use - when you find

them having found all  
you expect or all they

can do, discontinue them  
But cast: in nervous

persons - are contraindi-  
cated - & also in those

cases in which there are  
demanded - cast: are

improper.

Laxatives are more  
generally. The use is

simply to prevent ac-  
cumulation in the

intestines.

184

Coma - but a true dis-  
eple of the French school  
will tell you that if  
there is symptom of  
inflam in mucous membrane  
Yet I think whenever  
the dis. is attended with  
costiveness evacuations should  
be given.

Purges has been said  
of injunctory. These are  
somewhat connected in  
op. with the last. When  
there is costiveness &  
a phlogosis action present  
are beneficial - but  
in Saphygnatic habits  
you will derive more  
advantage from castor  
oil. They have to visit  
jenny

Antacids. Men are aware  
 that acidity is a com-  
 mon attendant on  
 this vis: - but I am  
 strongly under the impres-  
 sion is secreted from  
 the stomach - This will  
 often be known up by  
 eructus or spontaneous  
 vomiting. When per-  
 sons are restless & you  
 may set it down that  
 the person's stomach is  
 ac. acid. If he vomit  
 he is relieved. If you  
 then give him Magnes:  
 you will form a salt  
 in the stomach this will  
 pass into the bowels  
 & will produce purging

186

I he will do in this  
way believe - If you  
for his case: Please  
he will be immediately  
believe - I am you see  
They are admirable  
salutaries - but they are  
nothing more - they  
don't remove the cause

In Dyspepsia we  
are presented with nerv-  
ous irritation - flatu-  
lencia, distension -  
spasmodic action - Food  
there you are to admit  
is for not a bit - Medicines  
is - Always choose that  
wh you find may best  
agree with your patient  
There are opium, assafetida



Hyoscinamus. Cicuta, pira-  
die acid. These you may  
combine with your reme-  
dies.

Opium - All the words

know that Opium is an  
almost specific - be-  
cause there is no habit  
you all know in we  
stomach condition: they are  
contraindicated - In  
the Scrophulous Symp-  
toms they are improper. In  
the Scrophulous individ-  
uals other Opium remedies, has  
failed. Avoid giving those  
which are as hygroscopic -  
combine them with  
something that will be  
a laxative. They often  
kill harmonious

Diaphoretics. - These will answer of the course with the stomach & other organs. - When we wish to restore action of the stomach, we must attend to the skin & use such means. - When you find the skin dry you may apprehend inflammation in stomach - but when it is cold it will denote debility - In such use warm bath flannel next the skin frictions &c.

Moral treatments

When there is a continuation of low fever around the patient a want of resolution

When he is saying he  
 dont expect to live long  
 & neglect his worldly  
 affairs. You & his friends  
 will endeavor to excite  
 some pleasing emotion  
 in his mind. Some  
 flattering hope - some  
 happy image - These will  
 descend from the brain  
 an excitement which will  
 extend over all his organs  
 - his stomach will  
 be excited to a new ac-  
 tion. he will feel him-  
 self a new man. he  
 will again form new  
 plans of business & his  
 friends will say he has  
 got the spirit & he is anew

198.

man &c. - But it is  
your plan to think of  
war - But don't un-  
derstand his sig. - You  
No - I will interest my  
self for <sup>the</sup> man - & the  
credit of himself -

Cholera Morbus - Diarrhea  
Dysentery - Chol. Infantum

You may think it an-  
swers what I mention and  
one had to many diseases

In the book you will find  
each of these described sep-  
arately & the symptoms ap-  
pearing diff. - But I will  
present them to you as they  
have present themselves  
in my practice & to my  
understanding as dis-  
tinct of a class or nearly the same

in lady.

The viscera concerned in  
 these Dis: are the Stomach  
 the bowels, the liver &c. called  
 the Diaphragmatic organs -  
 known when there is increased  
 & inverted peristaltic mo-  
 tion of the alimentary canal  
 we call it chol. When  
 confined to an increase of  
 the peristaltic <sup>act.</sup> we call it  
diarrhoea. When confined  
 to the lower bowels & bloody  
 discharges are present  
 we call it Dysentery.

Pathology 1<sup>st</sup> let us consider  
 the peristaltic function. A  
 morbid state of this when it  
 is inverted or increased mor-  
 bidly - In chol. it is inverted.  
 In this Dis: the contents of  
 the stomach is expelled &  
 even the cont. of an oedema &  
~~over~~ occasionally of the ileum

182

It the same there is an in-  
crease of the peri: act: of the  
lower bowels - Now this  
sometimes exists alone, then  
it is diarrhoea - Hence you  
see the connect: of the - the  
dis: - This peri: is connect:  
with dis: - we have morbid  
contraction of muscular  
coat producing pain - &  
in the lower bowels constant  
& augmented - causing tenes-  
mus - This constitutes dysentery

2<sup>o</sup> Let us enquire into the  
cond: of the mucous memb:  
I spoke of the af: of the  
peristaltic act: first because  
it is always most obvious  
In chol: we have morbid  
irritat: of the memb: &  
increase of their. The mor:  
ment: of both stomach &

193  
bowels affected. In diarrhoea we  
have morbid sensibility &  
morbid increased secretion  
of the bowels. This constitutes  
the direct cause of diarrhoea.  
In dysentery we have the  
morbid morbid sensibility  
with more pain &  
an increased secretion with  
blood serum. This is con-  
fined mostly to the lower  
bowels. There is plethora of  
the mucous membrane & some-  
times inflammation in ul-  
ceration & sometimes in  
organization. The reason  
why there seems to be more  
pain in the rectum is that  
it is more largely supplied  
with nerves.

The mucous & muscular  
tissues are closely con-  
nected. When we have infl. in the

194.

and we will find morbid  
contra: in the other writings  
said. Hence what we see  
the various numb: to be  
increas: the paristaltic ac-  
tion.

3<sup>rd</sup> Let us consid: the  
condition of the viscera col-  
lectly connected with the  
bowels & these are the liver  
the spleen, & Pancreas -  
with respect to the liver  
we have the means of  
judging of the state of  
this organ & in the dis:  
which we are considering  
we will find the liver  
affected. Some think that  
a primary & others a  
secondary aff: of the  
liver are in error or false



gone to sleep.

In cholera: what is the  
 talk: condition of the liver.  
 Many of you would say increased  
 secretion. This  
 could be tried in some cases  
 but not in all. It will  
 happen in adults that the  
 bile be large quantities of  
 bile yellow & thrown up.  
 That the vomiting & increased  
 secretion is owing in some  
 instances to increased flow  
 of bile can't be doubted.  
 If true be. it follows that  
 if the liver ceases to flow  
 the vomiting & will wear  
 off &. I had this secretion  
 increased the liver will  
 cure itself. The patients  
 will be fit well. It

196

Seems to me mild cases  
do commence in the liver  
& then occur what I  
have just supposed. The  
you I say there is an  
increased flow of bile  
in some cases, but were  
a physician to stop here  
he wd be no better than  
the common people. The  
most terrible cases are those  
in which the secretion is  
decreased or entirely sup-  
pressed - & we have it  
occurring from nitiated  
secretion. All these con-  
ditions will present the  
selves in the dis: called  
cholera. In Diarr:  
is sometimes a decrease of the  
bile &c &c.

In Dysentery there is a de-  
fective secretion of bile &  
want a local suppres-  
sion. These are subjects  
of importance for your  
consideration.

4<sup>th</sup> We will consider the  
pathological state of the  
skin - In all the dis: the  
skin is involved. Its vitality  
& susceptibility is impaired -  
& its sec: of pers: is greatly  
impaired or suspended. &  
its vis: is diminished - All  
this may precede the  
development of dis: or  
it may come up after the  
dis: has shown itself.

5<sup>th</sup> Let us compare with  
the sanguiferous funct: in per-  
nals - we have consid: it

198

of the skin - In all these  
Dis. the heart is more or  
less disturbed in its action -  
Sometimes its action is de-  
hibited - & again its en-  
ergies are increased - & we  
have fever - We must  
look to the cond: of the fun-  
ctio. & be satisfied to  
find it of one sort &  
again of another.

In the 6<sup>th</sup> place we  
consider the brain & nerv-  
ous system - In chol. the  
strength is brought down  
rapidly - & we have spas-  
modic actions of nerves -  
Even we to paralysis mind  
muscles we sh<sup>d</sup> not have  
vomiting &c. The action of  
the vessels in diaph. is  
increas: to the mark &c.

addition to spasmodic action  
 depression, in Lacer cramp  
 the low extremities - This  
 consid: almost paralytic  
 tonic. Such are the  
 leading phenomena in the  
 aff: we have been consid-  
 ring & you see how closely  
 they are connected -

Causes - 1<sup>st</sup> of Rose  
 act on the M: memb:  
 as unwholesome diet & drink  
 if you take in diet putrid  
 you will have chol: or di-  
 arrhoea. But if you take  
 in an unwholesome must:  
 poor. Malaria is said  
 to exert its infl: in food -  
 the disease because they  
 prevail in summer &  
 epidemically. & that the  
 account in con: with inter

remitting fever. I must con-  
 fess I am undecided  
 wh: they arise from this  
 cause. but they unquestion-  
 ably do without it.  
Furcation is temperate  
 of air - whether from  
 cold or moisture. It may  
 arise from cold & thick  
 perspiration. This cause  
 we will find occurring  
 when malaria is said to  
 exist. when there is alterna-  
 tions of heat & cold with  
 moisture. This is a ques-  
 tion yet sub judice. The  
 cases of diarrhoea & dysentery are  
 referable to this alternation

In all these maladies  
 you will find great  
 loss in blood. never

with disordered function. R  
 the other. Now when the  
 blood has ascended the  
 surface where has it gone?  
 It cannot rest in the cavity  
 of the cranium; for the  
 we should have a proplegic.  
 It has left the external  
 canal. It seems to me  
 it is accumulated in the  
 abdomen: viscera in the  
 arterial circulation - especially  
 the liver. There is then en-  
 largement of the portal  
 circulation.

Now sup: an int: ext:  
 erg: its of which there will  
 be an alteration of the  
 skin I have just observed.  
 The blood will be accum-  
 in the internal organs

When the brain is the cause the  
 nervous function will be  
 affected. The sensibility  
 will be affected. The  
 propensities will be  
 affected by the loss of  
 nervous energy - & conse-  
 quently it will be ex-  
 perimented somewhere else.

I saw that the  
 influence sent out from  
 the head is in a con-  
 siderable kind - Now when  
 you observe that the  
 perspirable fluid is  
 checked - when the next  
 quantity which the  
 off is retained which  
 source of dis. will it  
 generated. The sensi-  
 bility of the liver - the



stomach & will be de-  
 rived mostly from the ac-  
 cumulation of blood & the  
 afflux of nervous energy.  
 At one time the liver &  
 the stomach will sympathize  
 the bowels - & the  
 again the lower bowels -  
 this rise in this has to  
chol: diarr: & dysentery  
 & you may have the liver  
 to secrete much vitiated  
 bile - it may act or  
 not act. Its nervous  
 energy may be so limited  
 that it cannot secrete.  
 You will find that all  
 these organs are limited  
 as it were by the bowels.  
 The liver is an increased

may believe this conjecture  
 You will find that sound  
 that the liver is referred  
 to in all these aff- that  
 there is a certain degree of  
 sympathy - & then the  
 Broussais vice vice of  
 the irritation always  
 commenced in the mu-  
 cous membrane - first  
 to duodenitis, colitis - fol-  
 lowing. That this is the  
 punctum saliens of these  
 disease. These apparently  
 obvious discrepancies must  
 be combined. They may  
 be an irritation devel-  
 oped in all these organs  
 at the same time. 22  
 may occur in the liver

It may take place simul-  
taneously in all the organs.  
Let us keep to inflammation: I  
told you when speaking of  
dyspepsia that inflammation was  
not neces: for this dis-  
So I say these dis: wk  
we are now considering  
may occur without any  
inflamm: - but you may  
have inflamm: got up in  
these organs - giving rise to  
all these diseases. You may  
have violent peritonitis spring-  
ing up from the same cause -  
connected with hepatitis,  
dysentery, & cholera, cholera.

Treatment 1<sup>st</sup> of chol: mor-  
bus. This may be a sporadic  
disease. or it may be epidemic.  
In the U. S. When it is epidemic

The weather is very hot. generally  
com: in June or July. on the  
whole it is a precursor of an:  
tymnal fever.

Great muscular lassitude.  
nausea. epigastric disten-  
sion. out. to pain. vomiting &  
diarr: - intense thirst. cramp  
or spasm in stomach -  
spasm in abd: muscles. &  
lower extremities. Great heat  
of body - in severe cases total  
prostration of powers of  
heart. - oft proves fatal  
in 24 hours - In West-Indy  
oft in 4 hours. When it acts  
as if a poison most acrid  
were taken. As we have  
seen in some cases great  
increased flow of bile. This  
an ~~most~~ favourable sign

Prognosis. The more violent  
 the onset of the dis: &  
 the more suppressed is the  
 flow of life - the more dan-  
 gerous is the disease. When  
 it occurs sporadically it  
 depends on some irregular-  
 ity of diet or from exposure.  
 This at any season of the  
 year will induce a  
 paroxysm of this malady  
 in person predisposed to it.  
 In warm weather when it  
 prevails epidemically the  
 phy: shd give his preven-  
 tive advice. It is to avoid  
 those things w<sup>ch</sup> are the  
 exciting causes. avoid the  
 heat of the day & the  
 dampness of evening &  
 avoid irritating ~~expos-~~

346  
Advice our patient against  
all stimulating food. & reperi-  
ate food. Both may excite  
irrit: in the stomach.  
In addition the timely admin-  
of an emetic or of an emul-  
can: - when the humor is  
formed - person can avoid de-  
will often prevent an attack  
of cholera. You may some-  
times ward off this dis: by  
the exhibition antacids - as  
of Zinj or Zinj of magnes:  
You will correct the acid  
wh excites the dis: & brings  
on the spasmodic action of  
the stomach &c.

As febrile - The upper por-  
tion of the stomach & bowels  
often exhibit traces of the  
febrile & even gangre - They  
have been purely gastric -

259

entire case. But cases we  
see w<sup>ch</sup> on examination no  
trace of inflam<sup>n</sup> - any where.  
These are those we consider  
to be a failure of nervous  
energy - & mixed nervous  
irritation. In

Diagnosis - These two  
forms difficult to distin-  
guish. Both attended with  
failure of strength & act<sup>n</sup>  
of heart &c. The majority  
of the cases are of the lat-  
ter kind -

Treatment - If I found  
act<sup>n</sup> of heart increased - &  
lax<sup>n</sup> & dilat<sup>n</sup> of epifore  
I w<sup>ld</sup> H<sup>l</sup> my pat<sup>t</sup>  
& cup the epifore to this  
last alone. At the  
same time I w<sup>ld</sup> depend

on cal: & opium in large  
 doses. Give them in pow-  
 der. ~~Proper~~ cal to 11gr opium  
 Const: rose. Let them be  
 intimately mixed. They  
 will be retained when  
 the stomach expels almost  
 every thing else. If the  
 dis: consist in irrit: mercur  
 the spasmodic action will  
 be allayed - & the general  
 tumult of the system  
 will be tranquillized.  
 The prescription for mer-  
 cur: I consider an admir-  
 able in many acute but  
 adies. Perhaps this is a  
 large dose - you may  
 diminish it according  
 to cir: - If there be a



Decided inflam. present in  
 the prescription will assist you  
 in your diagnosis. Then  
 the pulse will rise. The  
 heat increased. & then you  
 will discontinue the opium.  
 & resort again to the dr.

Let the drinks be of the  
 lightest kind - Give the  
 saline mixture. Antacid  
 drinks &c.

Salt chicken water some  
 times suits me somewhat.

External ap. should not  
 be neglected. At a very  
 early period w<sup>h</sup> the feet  
 are cold - immerse them  
 in a hot salt bath. This  
 with an emetic cath. admin<sup>d</sup>  
 in early stage will I am

2/2

confident cold check  
bis - But w<sup>h</sup> the feet  
are cold use the bath  
I have seen - very  
stimulating for a cold  
of colds & dip in the  
hot air - of spirits  
of warm very warm water  
applied over the stomach -  
Dip a cloth in very warm  
water & apply it immedi-  
ately to the stomach & hold  
it there - will be more  
useful than all the mus-  
tard or turpentine you  
could use - Let it be as  
warm as the patient can bear  
to great redness - after  
wards apply diaphoretic  
After the perspiration

let him use the lightest diet -  
 the mucilaginous part of  
 animal diet. & let him avoid  
 all exposure - use broader airy  
 warm clothing -

Chol. infantum - occurs  
 in children - & in the second  
 year - in the second sum-  
 mer - it prevails epidem-  
 ically in the summer season -  
 I shall not enter into a  
 detail of symptoms - It  
 is attended with more fe-  
 ver than the summer diarrhoea  
 cases in adults - more thirst -  
 The brain is more affected  
 with inflammation -  
 great prostration - I  
 look upon it to be more  
 inflammation - particularly more  
 of the gastric enteritis & an

214

Arachnitis associata with  
it. You are not to suppose  
all cases of this kind -  
& we have clear evidence  
that inflammation is not present -  
we cannot expect the  
diseases from the pharynx  
or diseases of the ear are  
all cases admit them in  
that class of dis.

Treatment. In many  
cases is required - frequent  
use leeches to epifastium  
in the febrile stage. In  
this way you will relieve  
the infl: of brain - You  
may apply cold aff: to  
the head & epifastium -  
If the feet be cold be-  
sort to a bath by  
stimulating than that of

is recommended for adults. You  
may make use of the  
lukewarm bath. Immerse  
the child into it for a  
few minutes - it serves to  
relieve the bowels: calomel &  
direct the first opening.

It always best avoid  
drinks. They will keep up  
the vomiting. Cold water  
is one of the worst drinks  
you can allow your little  
patient it keeps up the  
vomiting. Strong hyson  
tea will often allay the  
vomiting.

I wd give medicines  
as calomel - in doses of 1. 2.  
or 3 grs every 2 or 3 hours.  
As the febrile symptoms  
abate combine the cal. with

Opium - Continue the  
Opium until a literally  
complete coma is brought  
on - 410gr of opium with 1/2  
of cal: is a medium dose  
I believe it one of the most  
valuable remedies we  
can use. Direct your  
Opium according to the  
febrile or other symptoms  
present. The cal: may be  
given. &c.

When it becomes chronic  
& diarrhoea is present we  
will speak when we  
come to treat of chronic  
diarrhoea.

Diarrhoea. During the  
hot weather when colic and  
present, diarrhoea will  
occur with not much

217  
vomiting - In these cases the  
discharge will be copious  
not only from the lower bowels  
but from the upper por-  
tion - Undigested substances  
will be expelled, or half di-  
gested.

This malady may occur  
under a variety of circumstances  
& is connected with many  
other diseases - A person  
may have a catarrhal affec-  
tion of a diarrhoeal form or, Diarrhoea  
often occurs in latter stages  
of consumption, we have  
Diarrhoea occurring in dyspepsia -  
The liver may be in a state  
of engorgement connected with  
an increased secretion of the  
biliary matter, we thus  
find a diarrhoea & indigestion and  
this is due to this malady -  
I wish to see the compound of

248  
The food being imperfect.  
It takes place in persons  
not very old, & brings about  
perfect health. In short  
any cause that increases  
the sensibility of bones & calls  
into action the periodical  
action we will have dis-  
tension. On the other hand  
if we have irritated mem-  
tes in the intestines from  
any cause we will have  
diarrhoea - from their irri-  
tating effects.

When this dis: occurs in  
the summer it is the mem-  
ber of these diseases. It  
may consid: as a dis: of  
derivation, in part. You will  
observe that the great in-  
crease of the action of the



219  
mucous membrane. This  
is an intestinal & not a  
gastric irritation. This  
may become as formi-  
dable as any of those dis-  
eases I have been treating -  
The discharge may be  
either mucous or bilious.  
This may carry off the  
disordered action. When it either  
arises from irritation or  
the mucous membrane of  
the intestines &c. When it is  
attended with pain &  
spasmodic action. When the  
appetite is changed. Or  
those depend on what  
I have before indicated  
to you. Let the diet of  
your patient be simple &  
mucilaginous &c. if necessary

By cupido. reduce the  
 inflammation: actus. but the  
 disease may become chronic  
 Endeavour to ascertain upon  
 or what the dis: depends upon

You will see these in  
 the over the denominated pro:  
 spiration. Am: etc. &c. &c.  
 &c. occasionally you  
 will have increased actus  
 actus then you will ap:  
 pro: inflammation: actus  
 The dis: is turned inward  
 as Sydenham says go to  
 second. The dis: of uric  
 will denuried. The  
 noun will be dry. The  
 tongue will be brown  
 & dry - The saliva will  
 be small in quantity.

221  
could bear it there is  
constant acid of the  
of mucus thro' the intestinal  
canal.

Treatment. This dis-  
depending on various causes  
will require an accurate  
observation of circumstances  
to get the proper one. In  
any case it occurs in  
summed an antiphlogis-  
tics seldom be called for.  
An emetic or an emetic-  
cup will often do good.  
In some cases purgatives  
will be necessary. These are  
used in it there is a  
excessive enjoyment  
of the portal circulation  
the case: now purgatives  
will be hydrophobic & the

223  
choleliths. Resist the  
Airt of the patient - we  
bring about a cure by  
causing a more violent  
Asthma. When your  
patient is reduced by  
can de se. five cal: &  
Opium. you may unite  
with the operation of  
Opium. This state will  
not be attended with  
inflamm: actions. In  
one or two cases it will be  
best to adm: the blue vit  
It is less irritating & will  
not so soon produce  
salivation - The cal. Opium  
& blue may may be  
given at bed time - de

In some cases then wish  
 to treat acids - give  
 antacids. Take the alkalies  
 proper - lime will be  
 the best. it is absorbent -  
 you can't give the Magnesia  
 it will produce purgative.  
 Galls - cinnamon - aromatics  
 etc. The vegetable stringents  
 will also be proper. Good  
 must attend to the skin -  
 Let him wear flannel.  
 The flannel should be  
 placed tolerably tight and  
 round the abdomen.

Dysentery is almost in-  
 variably an inflammation of the  
 mucous membrane & hardly  
 ever from irritation. You  
 may have an inflan

394  
superficial irritation.  
It when it alights on the  
colicid. intestines most fre-  
quently brings on dysentery.  
Sometimes the dis. called dy-  
entery may depend only on  
irritation. This may be  
concluded from the man; in  
which they are cured. The  
difference of the phenomena  
is very slight. When we have  
heat & tenderness of abdomen.  
It we may call it dysen-  
tery. It was supposed dysen-  
tery was attended by con-  
trictive spasm giving rise to  
spasms &c. Dysentery often  
is connected with an inflammation  
of the whole intestinal canal  
but most frequently is  
confined to the colon &  
rectum.

It is sometimes connected  
with faeculent discharge -  
from the lower bowels. While  
the upper portion will not  
be affected.

Dys. is not so often  
a sporadic affection, as chol-  
or diarrhoea - but mostly  
met it as an epidemic.  
You will find that all  
fevers - small pox &c. - do  
prevail at certain times  
& then again disappear.  
Thus we call epidemic  
diseases. - Of this class I  
consider dysentery - It will  
often be connected with  
some form of fever - of a  
typhoid type - I have seen  
them rising & falling to-  
gether.

I am not telling you

2263?

am. Ming Theoretically I  
am but announcing to  
you a fact. You will be  
all this blending together  
that they seem upon the  
then leave us & again re-  
turns like con. at. that  
leave us & we know not  
whether they go.

Cause - On this I shall  
not say much. When Dys-  
pepsia occurs with fever or as a  
substitute for it. They  
often last the period of  
fever. Wh. you see the  
fever in connect. with Dys-  
pepsia you will easily be  
led to the conclusion that  
it may arise & does from  
the same cause. It is  
a dis. of camp. & does  
not confined to a diet of  
a particular kind. and



have a general symptoms -  
 whole armies have been  
 cut off by it while the  
 surrounding people were not  
 affected by it. Hence it  
 obviously must be some  
 diet. An unvaried diet is  
 most liable to produce  
 the dis. - Not salt meats -  
 but fresh especially beef -  
 This has often been its  
 cause in camps. & the  
 dis. will continue after  
 the diet has been changed.  
 This seems like a prope-  
 ration from contagion, prob-  
 ably arising from the foetid  
 discharges. The fresh beef  
 taken so abundantly by  
 soldiers may give rise  
 to the dis. by some kind  
 of decomposition. To  
 show the contrary has

animal & vegetable food.

In the French armies, we  
 affected by dysentery. The  
 soldiers were turned into  
 a wine yard & they eat  
 abundantly of the ripe  
 grapes & in soon all were  
 cured. This circumstance is  
 related by Zois.

Treatment. Many  
 cases of dysentery are so mild  
 that we can generally cure them  
 yet sometimes it appears  
 of so much violence a fort  
 as to resist our medicinal  
 efforts. When the whole  
 intestine is affected  
 the disease is the most  
 dangerous. When it  
 occurs with but little  
 fever, it is easily cured  
 but when it comes on  
 with prostration & Red

hot & dry. Lines may be seen,  
pulsations frequent & stools  
small & bloody. &c.

It is diff. to say w<sup>h</sup> the  
indications of cure are. The  
great indicat. is to remove  
the morbid state of the dis-  
tants. Our object will be  
to cure the inflammation in the  
bowels. But to do this we  
must attend to nothing  
things. There is no one  
simple thing we can do -  
but we can effect this  
In the first place we  
must draw blood both  
generally & locally, especially  
locally. You will un-  
derstand it to remove the  
inflamm. - leeching generally  
will be better - but if  
cont. oft<sup>r</sup> be obtained.

Mr. shall be employed in the  
 early stage. In two instances  
 situations of bloodletting will  
 must be governed by the  
 heart & skin &c. The  
 next object will be  
 to still the stomach  
 intestines - & bring back  
 the healthy secretions -  
 This is Dist: from H.  
 purging, cupping &c. You  
 must adm: freely must  
 cilage. whig - elm bark  
 infusion &c. in connect:  
 with these minute por-  
 tions of Antimony or  
 Opacae Give them not  
 as to produce nausea. At  
 the same time you will  
 adm: freely cal: opium  
 Opac: &c. to tranquility

The bowels & increase the  
 secretions of liver &c. The  
 next thing you will do  
 will be to open the bowels.  
 When every thing is in fam-  
 action adm: diluent.  
 Os: cal: opius &c. &  
 after you have purged  
 the bowels - adm: bil. mucal:  
 of sum arabic. or jas &  
 or if this don't please  
 you give Sulph: Treasur:  
 with Fer: Ant: in such  
 doses with Gum: Opium  
 five times in a dilute  
 state. Avoid stannous  
 & ambly, & alap &c.  
 After having conducted  
 your patient thro' these  
 throes & obtained  
 a large discharge of Spleen  
 humours mal: bile &c.

You will find your patient  
much relieved.

It will certainly help  
what the stomach will  
be much improved -  
acid &c. The food will  
remain on it, & not  
pass into the bowels &  
take from the symptoms  
you judge this to be  
the state you will ob-  
tain great advantage  
from the exhibition of  
an emetic. The effect  
of it does not stop at the  
stomach but extends  
through the whole system - & the  
there is a curing of the  
stomach & bowels you  
shall admit. Magnesia  
This will be harmonious

with your other means.

With respect to tenes-  
mus. we must keep our  
patient in the recumbent  
position. Let him pass  
his stool in the elbow  
chair. You will give  
the Juncus with in-  
jections of starch & laud-  
anum - with about a  
table spoonful to Dr. J. of  
the starch. Or if for  
some time the patient cannot  
bear the injected pipe  
use a suppository of opium

You will at the same  
time attend to the diet -  
use flannel next the  
side - & the flannel  
roller - You have heard  
of Dysentery being cured

by small doses of Opium.  
This sub. in comb: epith-  
cal: Opium will be  
of great utility - Use fruit-  
wong - warm bath. &c.

Use repeated diet -  
light & mucilaginous -  
which in dis: is bad all  
your patient, diet be  
very small -

Chronic Dysentery is  
attended by red loquid -  
few in the evening - An-  
erms - sometimes with  
nep - pains - with of c  
appears of purulent  
discharges. This will  
depend on ulceration  
of intestines which may  
take place in any part



tion of them. Astringent  
 will often be often be bene-  
 ficial. Of these the me-  
 tallic astringents will  
 be the best. I find the  
 sulph: <sup>4. grs</sup> iron with <sup>4. grs</sup> ferrous-  
 to opium - or the sulph:  
 of copper. The Astringent  
 of acids or even nitric acid  
 from its effects on exco-  
 riated ulcers we might  
 regard as - beneficial - but we  
 must correct the action  
 of the lines of order - Sin-  
 cal: or blue pills & Opium.  
 Let persons use flannel.  
 Keep his feet warm -  
 & occasionally the  
 warm bath may be  
 taken -

Colic

You will find in the book  
 many kinds of colic are  
 cited - You will thus  
 have bilious colic, Spas-  
 tic colic, nervous colic -  
 These terms are extremely  
 perplexing to the student.

We have colic appear-  
 ing with pain in the sigmoid  
 of the colon without gas-  
 tro-dynia, bowels, used by  
 ten be costive. Thus at-  
 tacked and not attended  
 with life danger. This  
 disease may implicate  
 the organs & find its  
 to bilious derangement.  
 Now if along with pain  
 you had tenesmus &  
 you would have dysentery.

& you had roundly along  
 with it you would call it  
 cholera. & it would actually  
 be a case of cholera. It re-  
 quires but little dissemi-  
 nation to distinguish these  
 & hence you see the in-  
 ability of these terms I have  
 before alluded to. In chol-  
 era the stomach is wat-  
 ery & the muscular coat of the  
 intestines is contracted. Now  
 this is not materially differ-  
 ent from what is called  
 the cholera of the stomach. If  
 the cholera of the stomach  
 is long continued it will become perma-  
 nent. In cholera as a gen-  
 eral fact you will have  
 costiveness & seldom vomit-  
 ing. In dysentery there is a  
 close resemblance to the

discards. In dysentery evac-  
 uations mostly takes place  
 from the lower bowels and  
 there is a retention in the  
 small intestines. This arises  
 from a constriction  
 of muscular coat of in-  
 testines. Dysentery may be  
 called well with ten-  
 esmus. This is the only  
 distinguishing mark.  
 In an autopsy you would find  
 some differences - in dysen-  
 tery you might find ulceration  
 while in colic you would  
 probably find an inflam-  
 mation or lesion in the  
 peritoneal covering &c.  
 Colic does often depend  
 on inflammation. It gene-  
 rally produces death by

nerve irritation. This arises from morbid contractions of muscular fibres. They become distended by this action - This produces an inability to again contract. It is this which will produce great lesion of the nerves & will destroy life. I was just now examined & you can discover no trace of disordered action.

It has been said that the dis: at that time were in the stomach & as they progressed they became nervous & that when we were called to a patient in whom there were no symptoms of infection that we should treat it as one of irritation. Nothing can be more dangerous than

240  
This Colic new arises from  
Inflam: & inflam: is co  
Secondary affection. This  
may not always come  
on. but when it does  
you can easily see  
that we will have some  
thing very serious added.  
Our aim therefore will  
be to anticipate this  
occurrence.

When does this inflame  
seat? If in the small  
bowels menal: you will  
have dysentery you will  
see. On this point we  
facts are wanting. but  
from my experience it  
may come on in any  
one of the lipses. but  
that is best liked to

occur in the mucous. & more frequent in the serous & muscular. & will in some cases give rise to peritonitis &c.

You will observe that a morbid action of peristaltic action will constitute colic &c. When an intestinal hernia becomes strangulated symptoms like those of colic will be the consequence. Therefore in a case of colic don't readily yield to remedies you should suspect hernia &c. You may have one intestine folded in an another - call intussusception or intussusception. When this occurs you will have symptoms of colic. You

will admit you sometimes  
 under the strong hope  
 of affording immediate  
 relief. In your expecta-  
 tions you will be disap-  
 pointed. The diagnosis  
 in this case is not  
 easy. Thus again we  
 have bilious calculus  
 giving rise to the most  
 painful spasmodic  
 colic pains. But you  
 must not confound  
 with a case of colic.  
 Thus again we have  
 concretions in the bowels.  
 These appear in balls of  
 hair or short fur or hair  
 These are not incom-  
 mon in beets. Do not  
 see the kind has will



The last- word on this subject  
 This constitutes enterocolitis.  
 The symptoms too will  
 resemble those of colic. You  
 will have stricture in the  
 rectum wh. may be called  
 a permanent spasm. &  
 Now again you may have  
 fleshy excrescences or tumors  
 or a thickening of the in-  
 testines which will almost  
 close the canal. You may  
 detect it by your finger or by  
 a bougie. These will give  
 rise to the phenomena of  
 colic.

These then are some of  
 the affections which resemble  
 colic —

Causes. Constipation of the  
 bowels predisposes us to this  
 malady. This is nothing more

than a deficiency of the peristaltic  
 the action & is attendant on  
 many diseases - as dyspepsia &c.  
 Improper articles of diet - dis-  
 orderly habits - anxiety of  
 mind - hard study - neglect  
 of a regular diurnal pe-  
 riod of evacuating the bowels  
 Temperament also influences  
 it - the bilious temper. - a  
 morbid action seated in the  
 rectum or in the muscles  
 about it. Stricture of rectum  
 morbid sensibility of the sphincter  
 etc. arise to a spasmodic  
 or irregular contraction of the  
 muscles. These are the causes  
 which give rise to constipation  
 etc. - In constip. there is less  
 secretion of the mucous matter  
 of bowels. Small discharges  
 from the other vessels in

and easterners. but strict-  
the warm weather the secretion  
of bile will be abundant &  
when this is the case constip-  
will not be present.

Constip: is one of the  
pre-disposing causes of which  
attended it will be our object  
to remove it. Our object is  
the first place will be to  
remove the remote cause -  
attend to the patients habits -  
Endeavour to let our patients  
attend to regular exer-  
cisions - his diet - take  
such food as will excite  
the bowels into action - The  
great potatoe possess a  
laxative quality somewhat  
resembling that of jalap -  
in it blends with many  
other principles. Hence you  
see some potatoes are

246<sup>3</sup>

Similar for costive persons.  
Corn bread is more apper-  
sient than any other.

Med: treatment. You  
will be obliged to give med  
but upon the other treat:  
I shall depend now. I  
will give you some dis-  
cusses. They are all in-  
fallible cures. Blue pills  
finely powder aloes aa 48 grs  
Opium 11 grs - make into  
a mass & div: into 36 pills  
set upon soon to be used  
upon supper. Blue pills  
pul. Rhei <sup>aa 48</sup> - extract. colocyn-  
th 12 grs - make into a  
mass & divide into 36  
pills - 18 grs Cast: ant:  
blue mass & aloes aa  
48 grs. This is more open-  
ing on the bowels - 48  
blue mass - aloes - 48 grs

at 28 grs. This acts ac-  
 cordingly. In some cases you  
 may use certain other for-  
 mula. Give these pills so  
 that they may operate  
 in the morning. Never  
 give to act actively - let  
 them operate as laxatives.  
 When given let them be  
 taken at bed time when  
 hard let them be taken be-  
 fore sup. - The Tincture of  
 Rhu. & a Loos of the Dis-  
 seminated is useful in  
 constipated habits. An  
 infusion of Senna & Gu-  
 tar. - Zpp Guaiacum & Zij of  
 Senna. a good laxative  
 & while it gives tone to the  
 bowels. You may combine  
 add an aromatic. - Bark  
 & or patient again

making a constant use  
 of the kind of stimulants.  
 In const: in vol the  
 is a tendency to infla  
 you will find Magn  
 & Epsom salt takes in  
 the morning - A small  
 quantity will operate wh  
 taken highly diluted -  
 When you to adm: this  
 saline cath: in nurses  
 temper: you will do just  
 injury -

When you find colic  
 in persons habitually  
 costive your first object  
 you will do is to obvi  
 ate the habit -

You have all had  
 of what is called flatulens  
 or wind colic - what

4. This. The patient complains  
 mainly of uneasy pain  
 from the umbilicus upwards.  
 Respiration some what  
 difficult. Last case the  
 abdominal muscles in res-  
 piration. He has rumbling  
 in the bowels. When  
 thus composed with he  
 has been exposed to cold  
 vapour acid or cold  
 winds. or improper  
 diet. This arises from  
 accumulation of gas &c.  
 Dr. Astruc observes that  
 it arises from <sup>an inability of</sup> the mus-  
 cular coat of intestines  
 from pressing out the  
 flatulency. Great pres-  
 sure over the part will  
 afford relief. It con-  
 sists in a morbid state of

The nervous function - or  
 rather weakness. It may  
 prove fatal in weak  
 nervous habits.

Treatment - being a  
 paroxysmal dis: you must  
 prevent the return of these  
 paroxysms. Some stimulants  
 taken internally & externa-  
 lly will relieve the paroxys-  
 ms. A glass of wine -  
 infused of peppermint - cin-  
 namon &c. Then act by stim-  
 ulating the mucous mem-  
 brane water will relieve  
 it - warm applications  
 locally - pressure at the  
 summit - projection  
 of infusion of arore felt  
 on corpus. When these



Don't exceed your may  
give opium or bopdrops &  
Caudanum. & you may  
comb! cal! with the opin-  
to correct the functions  
of the liver. & it may be  
beneficial & the spleen  
accus

Preventive means. at-  
tend to the state of the  
skin. regulate its tem-  
perature. flannel to be  
worn next the skin. fric-  
tions. with the exhibi-  
tion of some of our nar-  
cotic bitters as of the Infu-  
sion of poplar. or  
Rosa may resort to the  
calciats. The sulph. iron.  
the carb. of iron. with abas-  
te.

25266?

Bilious colic, ileus. Hys-  
teric colic & colica p[er]iton[is]  
will next demand our  
attention.

Colica Biliosa. You have  
all heard of persons dying  
with b. colic. & these per-  
sally men & of a sanjiv-  
ous habit & good livers.  
Now w<sup>h</sup> colic occurs in  
such individuals we may  
expect this form of it.  
Hence if an ac<sup>te</sup> colic is  
modified by cond<sup>it</sup> of the  
patient. In b. colic it  
is a high tonic of the  
system. The properties of  
nutrition &c are carried  
to last energy. Now  
when he accers morbid  
contract. of bowels &

stomach & you have the  
 variety of colic. but take  
 from the fact: his pulmonary  
 full being. This however  
 being & you will have  
 a case of flat. colic. In  
 this form of Colic you will  
 find: some bilious vomit-  
 ing. The liver is highly con-  
 gested with the dis. The  
 is congestion of parts, great  
 accumulation. distended  
 & there will be some great  
 in fact: in the bowels. When  
 in an distended state: is  
 12 or 24 hours. Indeed  
 inflam. is very apt to  
 be developed in this dis-  
 ease. and but species of  
 the same class, or genus of  
 disease. They often run into  
 one another - & the difficulty

27<sup>th</sup>

of Oidung: Now will be difficult.

I will not dwell on the symptoms of this disease. You observe a person of the plethoric habit with white spams - febrile distentions - with occasional bilious vomiting &c. &c.

Treatment - In most cases you may begin with Opium or Stimulants. But if you find the pulse tend to hard - & the heat of the body great - Opium in such cases is absolutely necessary & should not be neglected. It will subdue the tendency to inflammation. If you neglect it you will find it difficult to move the bowels. Inflammation will come on & your patient will

die without having his bowels  
opened. After you have  
you then may give Opium  
& calomel. & oil - & open  
the bowels. You may do  
this by injections &c. Now  
this embraces nearly the  
whole of what I have to  
say of the heat in this mal-  
ady. What was said before  
of Anapern. Warm applica-  
tions - &c will be proper  
to be recollect'd here.

It is not by purging  
in these cases you cure you  
heat. This occurs after your  
patient is relieved.

Hysteric colic. This was  
long ago treated of by  
S. Denham. You will find  
what he has to say on  
Hysteria in his essays on  
small pox. Mr. I. Kind is the

260  
best it has yet been presented  
to the profession.

Becomes of a lymphatic  
temperament & who are  
generally great lives will  
have hysterical colic. it  
corresponds to the bilious colic  
in men. You have  
violent gripping pain with  
vomiting of green feces  
bile - the bile altered by  
something in the stomach  
In this there is not much  
danger of inflammation. You  
observe here it is different  
from bilious colic in men.  
I have seen many cases  
of this colic.

Treatment. I combine with  
stimulants & tonic. I com-  
bine cal: & opium. ℞iij  
cal 1ʒ. & add some aromatics

stimulants In some cases  
it will be necessary to give  
the opi: & aromatic alone.

The virtues of lavender. R  
annamon. pepper mint.  
castor. valerian & any of  
the <sup>part</sup> of aromatic stimulants  
are always useful. But  
these will have to be  
changed. You must un-  
derstand the stimulus  
it produced a decided im-  
pression to day, to-morrow  
it not. Hence it be-  
comes your part to change  
your anti-aromatics. This  
seems to be a loss of the  
nervous system. Sometimes  
great benefit will be  
derived from anapisms  
but will afford relief  
but in some cases how far

262

Colica Pictonum. or colic  
from lead. because it is produced  
by lead. Colic is the specific  
Ailment of lead as salivation  
is the specific aff. of mercury  
&c.

In some countries in which  
pewter vessels are used this dis-  
eases frequently. When any  
acid comes in contact with  
the pewter we will have a  
salt of lead & soft acids -  
do act on glass vessels the  
dis. under consideration will  
be induced. The carbonates &  
proto-carbonates of lead give  
rise to this disease. These  
are frequent found float-  
ing in the atmosphere &  
may be inhaled into the  
lungs & again be swallowed  
by being mixed with the  
saliva. Persons from sleep



ing in newly painted rooms  
 have taken this dis. & com-  
 being when this metal is  
 volatilized. It too undoubtedly  
 acts thro' the medium of the  
 skin - It gives rise to the  
 Malady by the constant &  
 gradual introduction into the  
 system -

The dis. universally af-  
 fects the system. There is par-  
 alysis of many of the mus-  
 cles. There is a disordered func-  
 tion of organs thro' out  
 the system. There will some-  
 times gutta serena. The stone  
 will hamper its void -  
 & the bowels will be disordered.  
 There will be great pain  
 seated about the umbilicus  
 The abdomen will in many  
 cases be flattened or flat  
 the pulsation of the aorta

264

will be felt. but again the  
will be a distention of the  
part. This will be pain in  
the back. There seems to be  
a deep smothering of all  
the nervous energies.

The post mortem exam:  
will show exhibit much  
organic lesions of the  
part. You will sometimes  
in the bowels a want of  
the normal colour, a  
whiteness of ap. - but  
occasionally there will be  
traces of inflammation in the  
bowels - spinal marrow  
& in the brain. This dis:  
is strictly speaking a  
neuralgic aff: with  
paralysis.

Treatment. Now as long as the venous cause exists you can't remove the Os. Ideas if you put the parents - or the who attend, or had manufacturers to you will advise him to quit his trade.

Os. in this Os. will seldom be called for - yet when the bones are difficultly moved we sh. d. H. in consid: quantity. & will predispose him to the act. of case. When the abdomen has fulness & distention you may Os. cup & leech. Or only the latter according to circumstance - but object will be to allay spasmodic action & have

260

colic & active cath.

Opium it is said will assist the movement of the bowels - but the Opium may be used in colic suffering in some instances to cause salivations. Tho' I have seldom found it necessary.

Senna & salts is a valuable cathartic - the mag adm. balsam of Yolu. or any of the stimulating cathartics. You may give gamboge, & anniseed. Salap. &c. You will find the emulsion of cod fish beneficial from injections & in dysentery an admirable remedy. Always unless

the exhibition of cal<sup>s</sup>  
 speed with you have  
 alleged the dis: - After  
 the dis: has abated you  
 may soon know part  
 to which sulphur matter -  
 In the books you will  
 find many remedies for  
 this dis: - but I have  
 presented you with the  
 best w<sup>ch</sup> my experience  
 have pointed out to me.

Functional Arrangements of the Liver

Caparing from those  
 on a table w<sup>ch</sup> sits in  
 the intestines to me come  
 to consider the dis: of  
 the liver - we cannot at  
 present speak of the  
 dis: of this organ during

Inflamm. When are incidents  
 the most aff. of the  
 liver with infl. - How  
 far can they be? What  
 else can arise w<sup>ch</sup>  
 will not be in the acute  
 or chronic? In the ques-  
 tion I would direct your  
 attention.

You are in doubt  
 how acquainted we are  
 anat. & phy. of this or-  
 gan. It has two func-  
 tions to perform. That all  
 the blood of the chy. capillaries  
 organs goes to the liver. The  
 main vessels of the vena  
 porta goes to connect this  
 organ by dif. cords of  
 vessels. Hence we call  
 an organ of transmission

In this respect it resembles  
 the lungs. The tubes  
 of the vena portae are divi-  
 ded into millions of little tubes.  
 The office is to trans-  
 fer the bile into the biliary  
 fluid. This it forms from  
 the blood of the vena portae  
 & the remaining portion of  
 this blood is discharged into  
 the vena hepatica. This  
 bile then secreted is passed  
 into the gall bladder, we  
 have four dif. fluids in  
 the liver. two kinds of venous  
 blood - arterial blood &  
 the biliary fluid or the  
 bile. It is evident that  
 the blood from the viscera  
 of above must be dif. from  
 the venous blood derived from

270.

The arterial blood of the hepatic artery. Food out of this has been formed the bile (i.e. the portal blood).

Now that we live far in the future of human civilization, it is evident that diseases become developed in the abdominal organs. For example, the liver is a case of it in the human. The origin of this portal tree. Consequently the liver in conjunction of those diseases. You may find in these organs inflammation, torpor or loss of energy of function. This is a matter of time



278

ready & important. It  
is well known that in  
normal case, but subsists  
between the abdominal  
organs. Now it is nec:  
to understand the phy:  
to be acquainted with  
the pathology.

We may refer to  
the other function: now, to  
the function of transfor=  
mation. This seems to be  
a change of the elements  
of the blood into a new  
fluid. The amount of this  
is very great. This dist:  
of bile from the liver  
must be consid: - it  
mingles with all the  
feces - it is oft found  
up in large quantities

272

The brain has great powers  
to perform. This we will  
be led to conclude from  
the vast amount of matter  
it is sent to it. This  
too will lead us to think  
of the function of hands -  
for man's must be great.

Here we have two  
great sources of dis-ease.  
Hence I do believe many  
dis: may arise primarily  
in the liver. & that all  
this may take place  
without inflammation. Taking  
place there. This is the  
basis for you to investi-  
gate.

Now what is explained?  
I appreh: we know now  
more about it than we  
phenomena presented.

You have from this many  
 new sections - formality  
 set up - may not the  
 function of live be impaired  
 without inflam: in its  
 vessels? Now it seems  
 to me it may - I may  
 be paralyzed in its  
 capes & without inflam:  
 It is true tho' that  
 its function can be dis-  
 turbed without inflam: tho'  
 there seems to be propriety  
 in considering the dis: of  
 this organ independent  
 of pleurisia.

In various parts of the  
 body we see organs may  
 be affected without affec-  
 ting their functions of de-  
 cision. This we see in

placed in the Kidneys - it  
 may not be seen in  
 increased quantity yet the  
 posits of cal: matter  
 will take place. All  
 this may take place with-  
 out inflammation. It may  
 wholly depend on loss of  
 morbid action of nerves.

This seems being the last  
 stage of the disease in the  
 25 fruct: will be dis-  
 missed & entering sup-  
 pressed & no inflam: will  
 be there or any where.

Obstruction to the flow of  
 the blood in the large  
 canal will give rise  
 to disorders & no inflam:  
 will be prevented. Of  
 the same kind we have

many instances. Now  
 here is an example  
 of great impairment of  
 function independent  
 of inflammation if it be the  
 cause in those who will  
 have to say that it may  
 not in some cases  
 arise in the lined? The  
 vital property of the eye  
 seems weak - it is not  
 supplied with many nerves.  
 This want of strong vi-  
 tal power, the blood from  
 the canals may be de-  
 layed in the fundus &  
 roots of the retina foot-  
 etc. It indeed seems  
 more than probable that  
 this may arise here  
 without inflammation: any who

All the secretions are influenced by nervous irritations & this may be demonstrated to the liver. & from this cause independ: of inflam: ad: axis may spring up in great degree.

An inability to transform will be more evident in its effect than ~~from~~ an inability to transform.

If cut: bis: axis in distant funati: from a failure of transformati: in the liver. but if the is inflam: in the liver it proceeds the fall: of Lamsf: - you will have a new class of phenom: appearing - & if the fall:

did exist you will have  
 another kind of morbid  
 phenomena. Hence you  
 see it: may be pro-  
 duced from the liver in  
 three ways. But we  
 are now only consid: it:  
 of liver arising without  
 influence.

In the 1<sup>o</sup> place if the  
 bile is not sec: in suff:  
 quantity we will have  
 the not sec: part in  
 the blood. When it is sec:  
 it performs a function -  
 but is this the only purpose  
 of its sec: This I know  
 to what this is deficient -  
 sec: of bile we have the  
 devel: of the elements of  
 the bile in the blood. Hence

298

it seems a great need to  
draw something from  
the blood deleterious to  
the vital functions -  
The effects of the lipo-  
tin in the blood as seen in  
jaundice is known to  
all of you. There is a  
failure of all his functi-  
his senses - both intel-  
lectual & corporeal.  
His imagination is ex-  
cited morbidly. He con-  
siders from his own mind  
that his days are num-  
bered. That Dr. Mead  
desires to remove him.  
The feeling from his  
dis. transcends all  
that is the horror in  
eyes its symptoms are



rise to it. Again our  
hearty chyle will be  
formed. The bones will  
confer for the want  
of their nat: stimuli.  
The whole system will  
sink. So for the absence  
of the natural stimuli  
of the fluids to the intestines.

If the liver be deranged  
in its secretory funct: we  
have seen it there holds  
an emanation of the  
const: of the blood in  
the blood carrying on:  
the liver in whole exon-  
ding. It smells in  
the blood it has  
been taken out.

I did not not attempt  
to point out all the



The liver itself feels it -  
 they fall into a state  
 of atony - this sympathy  
 of nerves the liver will take  
 on an atonic state. Hence  
 if the liver fails; from a  
 coldness, if other it will  
 and hepatic with the liver  
 odorous. & the liver will  
 an atony in the bowels  
 will never be com. to the  
 liver & still more than  
 its action.

Now the off: arising in  
 the part in conn: with  
 this state &c. I spoke of  
 the style found in this  
 state - how imperfect it  
 of course must be.

The faeces will be changed  
 from hard kind - from  
 this absence of bile we will

Have dis. in the abdomen. Dis.  
 ease. We will have Dys-  
pepsia. Hence dem: see:  
 of bile may <sup>find</sup> and food  
 to dysp. And the reason  
 for finding in the dis:

Mer: - We have constipa-  
tion & diarrhea from  
 this morbid or dem: see:  
 Both of these may be found  
 in the absence or critical see:  
 of bile - The stools will often  
 resemble yeast. both in  
 infants & adults. They will  
 kill sp: of life. Worms  
 or verminous dis: are just  
 multiplied from dem:  
 see: of life. or a secre-  
 tion of a bilious fluid  
 to blood - that it will  
 favour the generation

of worms. 2<sup>th</sup> In this <sup>283</sup>  
cond: of liver the mesenteric  
glands will become enlarged  
Some as Mr B's wife says  
they may arise from infl:  
This may sometimes be  
the fact. but I am con-  
fident it may arise  
from biliousness & not  
In this subject Do. Ayo  
has written an excellent  
book. In this way we  
can have mercurius  
in worms. This is the rea-  
son why all the books  
will tell you that mer-  
curius does of cal: and  
always recovers in this dis:  
3<sup>th</sup> The liver is a dis: de-  
nominated melanchol. it  
consists in a dis: of  
black bile from the  
bowels. This dis: I have

seen & am led to be-  
 lieve arise independent  
 of inflammation. Sometimes it  
 consists in the bounding  
 of red or reddish colour  
 like. In its progress it  
 will become yellow, but  
 in all stages of the dis-  
 it may be called bleed-  
 like before you have  
 examined it. Now this  
 is evidently a dis- from  
 the port: cis: yet it  
 may come from the  
 mucous coat of inte-  
 lines. Yet if you ex-  
 amine it you find  
 it yellow. I believe it  
 is from the enlarged  
 state of the liver & the  
 liver throws out this

enlarged glands of pot:  
 veins by the enlargement of  
 the dis: or med: & as the  
 aff: progress the healthy  
 secretion of the bile will  
 become more obvious. At  
 the patient goes on to a  
 recovery the bile will be-  
 come more & more obvious.  
 There may & often is a  
 chronic inflan: connect:  
 with this dis:.. But I am  
 compelled to this - inq:  
 come on without any  
 inflan: preceding the  
 dis: - If any person says  
 it arises from inflan: let  
 him - but I he wants to  
 as: for this infl: affor  
 him. In the 6<sup>th</sup> place we  
 have hemorrhoidal aff:  
 from a morbid or irri:

Ac: of bile. This I found  
 the same arise from Ac:  
 Ac: of bile. Hence it becomes  
 the remote cause of Hem:  
 orrhoids. This dis: is mostly  
 after con: with disturbed  
 funct: of liver.

We sup: th the skin is  
 exposed to cold falls into  
 cond: of alogy - wh is trans:  
 mitted to the liver. &c. The  
 first impress: is made on  
 the skin - & as a conseq: this  
 arise irreg: in funct: of the  
 liver. These organs will  
 sympathize with the liver.  
 If then the liver be disord:  
 there will be consequent in  
 stomach & intestines. If  
 the bile be not ac: in  
 suff: quantity it will



be carried thro' the system  
 giving rise to disordered functions  
 in other organs. You see  
 these thro' are various modes  
 in wh the stomach & will  
 be dis: by irreg: secretion  
 of the liver.

The movements of the  
 abdomen: viscera are compli-  
 cated & hence will thro'  
 diseases be complicated  
 & or often gga thology.

We come now to thro'  
 parts than the portals  
 viscera. We will not be  
 content to know the dis:  
 in a part but to ascer-  
 tain the source & yet thro'

When the liver become  
 disord: in its secretion  
 we have a disord: of  
 the skin. Do I understand

has dwelt on this point.  
 He overlooks the Hydrolic  
 part of it. When the fluid  
 an acc. in the abdomen & an  
 it is the line in at the dis-  
 covers this acc. must be in-  
 bent. We might just  
 as well speak of a hori-  
 zontal culmenon & say  
 it is as of a cutaneous. He  
 later says a My as I have  
 shown does. But as in  
 the funct. of the line  
 you will discover the  
 arrangement. It is sig-  
 nificant to see in what  
 part is the skin or the  
 line the dis. above. We  
 will correct the end of  
 the skin will reveal  
 the skin is a compound

vertebrae - This will und-  
 dingly appear on the skin  
 it will up: & reap: - This  
 dis: is oft of nest: with  
 a disto: state of the  
 lines. It may arise  
 from the blood. Pro:  
riasis & dealy atter: is  
 anoth of: associated  
 with the dis: - It will  
 of pro lines when the con-  
 dition is corrected. Many  
 injuries to an oft con: will  
 disorder funct: of the  
 lines & will exaltify  
 when this funct: is restored.  
 Hence good surgeons be-  
 fore operating will at-  
 tend to this regard. In  
 Mr Abernethy's book  
 you will find much

of value on this subject.  
 We have about the head  
 man aff. wch are ap-  
 parently referable to the  
 disord: of the line. We have  
 chronic of thethalmia -  
 wch when we are cal: the  
 the inflam: is improved.  
 We have first had  
 act. - This is a second  
 form of the 3-12 part of  
 the nerve. This aff. I  
 have seen arise from  
 a failure of the line  
 in its sensory & its  
 transmitting powers -  
 An indiv: has been  
 head from cold - the  
 line becomes aff: from

In skin... There then will  
be a want of transfor-  
mation. apply to the skin stim-  
uli to the skin & the live  
will transform & the aff:  
will disappear.

We have Hydrocephalus  
- appearing without  
inflammation. The pulse slow  
& feeble. Skin not hot  
to the pat. Muscles - tone  
in this disease we find  
a bilious function deranged.  
The brain become opaque  
thickly discolored. Now  
when the bile is not  
sec: in the liver. The blood  
destined for this sec: bile  
is conveyed into the  
liver, & may find some  
to prosper in the brain

or in the abdomen. And  
 you see we may have  
 Hydroceph: from a cause  
 one by sympathy & another  
 from failure of transpor-  
 ting funct: of the liver.

In the brain it if you  
 have Hypochondriasis.  
 Melancholia &c. These are  
 often dependent on disor-  
 der in the liver. If it be  
 ager in the liver you  
 will have it acut in  
 the head & more serious.

In the muscles of lo-  
 comotion we have chorea  
 hysterica - convulsions -  
 These are oft connect  
 with the liver. When

You have deny of the  
 dis. You are not to sup-  
 pose that it arises di-  
 rectly from the liver but  
 it is derived from the  
 funct. acting on the  
 brain & spinal mar-  
 row. The slowishness  
 of the muscular  
 system is often owing to  
 a failure of the liver to  
 throw the biliary fluid  
 from the blood.

We have as I have  
 sometimes connected with  
 disordered funct. of the  
 liver. but aff. of a  
 more serious kind  
 takes place in the  
 lung, Nam. this is  
 inflam. in the bronchiae

294  
tubes. we have dyspnoea  
consumption depending on  
distressa funct. of the  
liver. From these can  
we have Angina  
Angina pectoris we  
too will find disease  
of the heart developed  
by the bilious blood com-  
ing in contact with its  
cavity. And it will  
be in persons of neuro-  
bilious temperament &  
sedentary habits, you will  
have palpitations of  
the heart. But or-  
ganic disease from  
this unusual stimuli  
will be set up in  
the heart.



The relation betw. the Kidneys  
 & liver - <sup>is intimate</sup> there is a change  
 in the sec. & secretion of bile  
 we will have a change of  
 colour of urine. It seems  
 to be an office of Kidneys to  
 eliminate the unfermented  
 bile - The Kidneys & liver  
 are con. by nerves - by the  
 great sympathetic which  
 arise from the calic plexus.  
 The cords very nearly grow  
 the same organs. yet they  
 are somewhat distinctly sep-  
 arated yet they are ner-  
 vously closely ~~represented~~ - Hence  
 an increased sec. of urine  
 as occurs in diabetes will  
 arise from dis: junct. of  
 liver - We may also trace  
 up: cal culous dis: to  
 this peculiar cord: of the  
 liver - Of the part of the

296

urinary organs - As we  
have our vesiculae blad:  
obstr: of urethrae acc  
con: with dis: liver &  
also morbid sensibility of  
the testis, a kind of  
neuralgia we can only  
be cured by rectifying the  
funct: of liver -

In the female abdominal  
system we have dis: con:  
with disord: funct: liver  
wh: there is chlorosis we  
will have the liver much  
disordered - Morbid appetite  
menstruation is not pre-  
sent &c we will find  
~~resemblance~~ a local absence  
of life in the intestines -  
Our object here must be

to correct bilious humors  
 we can do little good  
 emmenagoges. until we  
 do this. If the Menstr.  
 is established, it is oft  
 suppressed, we will oft  
 find the liver dis. & oft  
 the suppressed will af-  
 fect the liver. & disorders  
 will be carried into oth-  
 er functions of the body. Al-  
 ways at puberty. Dis-  
 liver is the cause of  
 retained Menstr. -

In fluxus Albus we have  
 when it does not arise  
 from inflam. we will  
 find the liver, stomach or  
 deranged. Our remedies sh-  
 be directed to these organs  
 we have now taken

298.

A general survey of functions liable to be disturbed by disordered function of the liver.

The liver is bound with various organs &c by nerves. It is most closely united to the stomach - hence the stomach will most sensibly sympathize & it (or it) will sympathize with almost every part. Hence you see how a disorder of the liver may travel over the whole system. But it is only the part of the work of morbid action. If the door is turned the blood proper to the liver will be set up

of the line dont see.  
 properly the bones will  
 want a natural stimulus.  
 Then again if the liver  
 dont secrete bile naturally  
 we will have the con-  
 stituent of bile in the  
 blood & we will have  
 it then giving rise to  
 many affections - as hy-  
 pocholesteria &c &c

It may happen that  
 dis. in the first place is  
 only food. It lives, may  
 produce dis. in a dis-  
 tant organ. This sym-  
 ptomatic disease may  
 demand to destroy the  
 patient after the liver  
 has returned a healthy  
 action.

I dont pretend to  
 indicate to you how to

200-

Thou disorders of the liver  
when they do, & when they  
do not arise from in-  
flammation. If the inflamma-  
tion is acute, impairing its power,  
you will easily under-  
stand the affection-  
but if the inflamma-  
tion is of a chronic kind, will  
but tell general facts  
It may be that the  
inflammation being so general  
as not to wait the heat  
& arteries. Hence you  
will meet with differ-  
ently to the whole, it is  
inflammation or not. you  
will demand advice.  
You don't know whether to  
adopt antiphlogistics  
or not. I have seen

cases in which the treatment has failed & a diff. course indicated.

A sub-acute inflammation does not require an active repletory course as when it appears in any other organ. If we happen to omit them for a time we will seldom do much harm. but if we in many cases resort to an active repletory course we will frequently do injury.

Heat - An emetic is an admirable remedy in this kind of the liver. It will give action to the portal vein: - & disperse the liver itself - & therefore it will be very useful - & also if the lungs are dis.

It will exert a decided  
advantage -

Cathartics - I admit  
that castor may have  
done injury. When there  
is a slow infl: cast: may  
do harm. but when  
the sensibilities are only  
blunted. & there is merely  
disordered functions. cast:  
are our most valuable  
remedy. They will pro-  
mote the port: cir.  
They will stimulate the  
liver. They will en-  
force the funct: of  
the liver & unobtain  
a new action in the  
whole abdom: organs.



If there be a disposition  
 to Dis: of the brain - or  
 nervous system, as shown  
 in. we will obtain great  
 advantage - They here  
 act as counter irritants -  
 They should be freely ad-  
 mitted - They should generally  
 be Cal: also. Scam: -  
 Mony. jalbanum you  
 must refrain from  
 The refrigerant call: as  
 Salt: - When the Dis:  
 is of a very chronic kind  
 laxatives - The blue pills -  
 also so - will be the  
 best. choose those w<sup>ch</sup> act  
 mildly - But in case  
 of phlegmatic habit -  
 brain oppressed - abstr:

304<sup>e</sup>

Distilled de Cholapung  
actius call: as cal: &  
jalap. The simple pul:  
of Jalap. - Senna &  
Marr: with fringed ad  
ded wies to food.

Alteratives & Deobstruents

Med: given in small doses  
which act insensibly by al-  
tering the action of a part  
proper, we call them alter-  
ative doses - or deobstruents.  
Cal: & blue piec. & Opac:  
ant: pulv: & Rheum and  
the principle articles of  
the Rhiz: - When they act  
nicely & give in mitis  
portion & increasing the  
secretion of mucus &c. - If  
this proceeds you find it  
in less than 48 - in che:  
dies you wld give  $\frac{1}{8}$  to  $\frac{1}{4}$

The patients' breath will  
 improve -  $\text{Ca}$  11 gr.  
 Of  $\text{Ca}$  14 gr aloe -  $\text{Vij}$  grs -  
 mix & divide into pills  
 $\text{Xij}$  - In children with  
 tumefied abdomen: - Dis:  
 Reserine  $\text{ss}$  -  $\text{ss}$  - One  
 pill at night -  $\text{Xij}$  gr  
 blue mass  $\text{Xij}$  Rheo 8 gr  
 James pul - mix into  
 $\text{Xij}$  - dose 1 gr. to child -  
 When there is great nerve  
 nous irritability you  
 may comb. with these  
 cert. thing calculated to  
 allay irritability - you may  
 add either camphor 24 gr.  
 Give 1 or 2 pills at night -  
 or 16 gr or 8 gr Extr: of Hy-  
 oscarnus. or 32 ~~at~~ -  
 or 9 gr Sulph. or Acetas  
 Morphica. Dont come

Olfate as much as  
 Opium. Now in all the  
 formulae you have the  
 blue mass we act on  
 the liver. The Specia: of  
 the Museum, ment: R  
 bowels & a something  
 to tranquillize. Now  
 you will find the ad:  
 m: highly beneficial  
 in a great variety of  
 chronic affections of the  
 bowels, liver, stomach &c  
 They are not debilitating  
 but under this  
 use your patient will  
 gain strength & the  
 high: funct: will  
 be renewed. The

extract: of Senticas will  
be the best but when we  
you can mix these pills  
with.

Instructions you will  
want a cath. mod  
actus. Hoer. extract.  
Scam. compi. Colocyn-  
cal: aa xvj - Part:  
Ant: 2 gr - mix & div:  
into xvj pills - give  
according to circumstances.

Of all the med: we give  
can use in this kind of  
the cholera & hydrogys  
Medicines are the most  
valuable med: we possess  
when the is sub: acute  
inflam -

On Helminths - For  
numerous dis: I have

Disordered liver is cause of  
 head: of worms. To cure  
 diet the liver will be  
 our ultimate cure, but  
 prior to this we must  
 give med: to expel the  
 worms. They are produced  
 by improper diet, & most  
 generally connected with  
 disordered liver. The best  
 med: for the expulsion  
 of worms is the *Opuntia*  
*Angulandica*. The oil  
 of the worm seed, called  
 the *Chymolodium* and  
 useful when the bowels  
 are torpid. adm: to  
 an empty stomach &  
 followed by a cathar-  
 tic. Cal: is an excel-  
 lent remedy for worms

Not so effectual as the  
 remedies. Turpentine is  
 when there is no inflammation  
 of bowels. Altes ul  
 worn and in the sec-  
 tion, comb. with calomel  
 is a good remedy. In-  
 jections for removing  
 is candid and the best  
 remedies.

Notes - The vegetable  
 bitter with aromatic  
 tincture - Mustard seed,  
 & pers. of iron. Now  
 when there is inflam. of  
 stomach &c these Medicines  
 are contraindicated. The  
 white Mustard seed is  
 recom. in dyspepsias &  
 dis. of the liver. it acts  
 lightly on the bowels.

310.

It is particularly adapted  
to Catarrhs of the bladder.  
It weakens the torpid  
energies of the stomach &  
bowels. With respect  
to Drup & cath: of Dro  
comb: The Drup: use  
in. moderate. I seldom  
find it in the morning.  
I first find it before  
breakfast & at night  
& after a while find it  
in the dose in the morn  
ing. The system becomes  
habituated to its exhibition  
of the Drup: - so that you  
may find as much as  
from 6 to 10 gr at a  
dose. The Med: used  
may comb: with the



alteration medicine -

The medicine of the  
 Nitro-muriatic acid  
 may be used at the  
 same time with advantage  
 - I doubt tho' if  
 to use it -

External Stimula.

Wine - Applied to the skin  
 is attended with advantage  
 - You may tho' it  
 produces effect but cannot  
 produce in any other way.  
 The skin is exceedingly irri-  
 tatable - it will be dry  
 & allow - hard - hard -  
 feels almost - like leather  
 - You may in fact  
 a great deal provided  
 you persevere until you

312

do excite it to sensibility  
I am well that he would  
next to surface of the  
body. Frictions should be  
made with flesh brush  
The external use of the  
nitro. mu. acid bath  
will be highly beneficial  
Take equal quantities of  
the acids & as much  
water as can be. Then  
add it to hot water  
& apply to skin with a  
sponge till it is dissolved  
The skin will bear the  
water any acid. The warm  
salt bath will often be  
useful. In the case of  
diseases alternately acute &  
intermittent & warm bath  
This has a powerful effect  
in anodynes in frictions of the

Biliary Calculi

The bile is subject to inspissation & thus will become or harden by its own coagulation. They are of various sizes - from a pea to an inch in diameter & they are also of various degrees of consistence. They are never so hard as a urinary calculus. They are sometimes found in the biliary ducts, but more frequently in the gall bladder. While they are present we cannot procure their existence. We have them occurring at the age of 32 years when the patient has been afflicted with Dyspepsia. He has pain in the stomach his complexion

346  
allow. Indeed this state  
we may suppose has  
lysis in the fall ducts.  
The well beady cough  
Now the bilious ducts will  
be stimulated in con-  
so as to push them forward  
thro' the ducts. The organs  
are soon conspicuous.  
In passing this air to  
the ducts - & into the du-  
odenum, it irritates  
the tube & excites a  
contraction of a kind wch  
will give great pain in  
parts never felt before.  
Some of the pain is of  
that kind wch dont  
fasten thro' moving one  
ward. The seat is  
general in the epigas-  
trum extending to the

light hypochondria. The  
 patient will think he  
 has cholera. Then will not  
 always be vomiting & news  
 of life. The will be chill  
 in it, of an amounting to  
 a complete rigor. In  
 exam: his pulse you  
 will find it not  
 much disturbed. It may  
 be slower - but seldom  
 more frequent or full.  
 By pressing over the slow  
 you will believe it  
 faint - You will now  
 enquire in to patient's  
 former habits & will  
 have them with the  
 present state -

Cause - Sedentary habits,  
 confinement to the house  
 & a want of action in

in the liver. Efforts of  
 the mind were found to  
 give rise to face spots -  
 This is produced by the  
 mind's sp. affecting the  
 nervous power. See

Treatment. We may  
 sup. where we can  
 meet in Lilly. We  
 will have a tendency  
 to remove calcutti. We  
 might therefore sup.  
 cal. to a good remedy.  
 There is one remedy  
 I have not here to give  
 mention - to any  
 sea. of bile. This is  
 liver - it must be  
 passed as near as pos-  
 sible thro' the duct of  
 the gall bladder.

The 3<sup>d</sup> Kind of Hemorrhage  
is a copious emesis & cath.  
when we have no doubt  
of their existence. You  
can easily perceive how  
emesis has an effect on  
expulsion of gall stones.

We here stimulate the  
duodenum which may be  
carried to the face, feet  
& thus assist in trans-  
ferring the calculi.

The passage of gall  
stones is attended with  
great irritation & infla-  
may be excited in the  
louis of the duodenum  
&c. Believing this possible  
you will perceive that  
Ds. or cupping to leeches  
will be required acc.  
to circumstances. Of

3/4.

Latent bc of juce habit  
" of weak & debil =  
stated you will be safe  
of the bc weak - nerves  
very excitable - emaciated  
you will not resort  
to any kind of bleeding -  
To relieve pain w<sup>th</sup>  
inflam: symptom are  
not present. You  
will give opium in doses  
of gr<sup>ss</sup> 2 to 4 gr<sup>ss</sup> - it  
will be well to comb  
it with cal: This will  
act on the liver - I say =  
minutes in Lilias see:  
Now after you have  
vomitted your fat  
in warm bath & you  
have given opium - or  
you will ask w<sup>th</sup> over  
I will do I always



after the 15. no mat. but  
 the temperamnt or  
 cond. of the patient may  
 be - He will bear 15. full  
 now than previously -  
 Of symptoms other cont:  
 I will ~~use~~ give him  
 a cath. or an emetic or  
 an emetocath. I will  
 endeavour to excite the  
 secretions of liver & Pan.  
 In the beginning I will  
 give him these. I will  
 pursue other treat. until  
 I had in some measure  
 blunted his sensibility -  
 The diaphoretic purga-  
 tion which most I pre-  
 ferred. They have a  
 soothing & tranquillizing  
 effect - The castor oil  
 or the olive oil has been

328  
used - If the decocted oil  
be made into a tumbler  
full - This when it  
goes down may open the  
bowels -

External ap: as  
warm water applied  
I have before seen  
as counter stimulents -

Now a question well  
occurs can we adm: any  
thing that will act on  
these concretions - When  
the humoral pathology  
supersedes it is in sup:  
that men were said:  
capable of acting on  
the concretions - Now  
as it is admitted that  
medicines may be car-  
ried into circ: of the liver

we know sup: it proba-  
ble - that sulph: ether  
temperature & may as  
well know they are car-  
ried into the urine, but  
they may be carried  
into the liver & act  
on the gall stones -

Jaundice -

By this we mean the  
decomposition of bile  
into the blood vessels -  
It may be sporadic  
or epidemic - generally  
epidemic - yet I had  
seen it prevail epidem-  
ically - Hence you see  
there may cert: states  
of the atmosphere pre-  
vail w<sup>ch</sup> will affect the  
liver - Symptom - a yellow

322

of eyes, & Riv. - serum of  
blood - urine - nausea  
constipation - bad  
formed feces - pulse feeble  
All - muscles weak -  
sup - irresolution of pu-  
fascia - You will hear  
of black & yellow  
jaundice - The yellow  
is easily cured - The  
black is in some de-  
grees, apparently formed  
& more formidable -  
If you refer to what  
I said on Melancholia you  
will understand how  
this form can be caused -  
The liver may be in-  
terrupted in its passage  
to the bowels - Acute

Hepatitis will cause it  
 & give rise to jaundice.  
 Gall stones in the pas-  
 sage in the common  
 gall duct will obstruct  
 the bile & it will thus  
 be carried into the blood  
 & we will have jaundice  
 appearance. A pancre-  
 creatic or a mesenteric  
 tumor may so press  
 upon the gall duct as  
 to stop it pass and  
 detain it in the liver  
 & it will too often be  
 degenerated. An opening  
 of the gall duct or of  
 the hepatic duct. When  
 this is the cause the jaun-  
 dice will appear sud-  
 denly. An inflammation  
 of the duodenum may do

324

Obtained the paper of  
face duct as to prevent  
the flow of bile - or  
a pain a retention of  
large accumulations  
of feces in the bowels -  
This is apt to occur  
in pregnancy - And  
it will occur at this  
period - I wish here  
to observe that dur-  
ing utero gestation the  
is requiring great bil-  
lary dist.

Treatment. As the  
causes are various - so  
your treatment will  
be various - You will  
treat for the symptoms  
& relieve it as you would

the Dis. of the liver - At-  
tend always to the pri-  
mary Dis. -

You will often be at  
a loss to know what the  
cause is - hence the prac-  
tic here is oft. empirical.  
By keeping up a continu-  
ed nausea with the  
Sanguinaria canadensis -  
You will also give calomel &  
opium - but not so as  
to salivate.

Yonic when there  
is nervous depression -  
will be beneficial - of  
the clay - The wild cher-  
ry bark - Columbus - Pin-  
taw - The reason it  
helps the ulcer cherry  
bark is that it conti-

326.  
muscle acid - but is a  
narcotic.

You will often ob-  
tain relief from the  
spasms of antacid -

By exciting the skin  
by friction & we often  
do a great deal of  
good.

Chronic Disturbances of  
the heart & lungs. &c.

You are aware the thorax  
is an enclosed, muscular  
& osseous, & lined by a serous  
memb. - That the cavity  
between it & the abdomen is  
a musculo serous memb.  
The thoracic cavity is dilatable  
&c. The cavity of thorax  
mainly filled by the lungs  
consisting mostly of vessels.



O cellular vessels. of three or four  
 kinds. It is the reunion of  
 the ar. wt make up the lungs  
 In it please you have the  
 great artery the pulmonary.  
 The & pul: veins. We may  
 be compared to hepatic ones  
 then you have the bronch  
 ramifications. Or mounds  
 in air cells. & the these lie in  
 just a position with other  
 vessels. You there have  
 a small nutrition artery  
 wt may in some aspect  
 be compared with the he-  
 patic. The lungs are supplied  
 with nerves by the great sym-  
 pth. The seat of irritat  
 between the lungs. Con: with  
 the lungs pul: artery & veins  
 &c. &c. The heart & lungs  
 are con: by nerves. by the  
 same plexus. Then air

308.

from the lung the trachea.  
Its ramifications are called  
the bronchia. As the trachea  
ascends it is bounded by  
the larynx. The opening of  
it is called the glottis.  
In inspiration the lungs  
& ribs are enlarged. Air  
admits to air to enter into  
the bronchial tubes thro  
the larynx & trachea. After  
the ribs are expanded  
contraction takes place  
& the air is expelled or only  
part of it. 60 or 70 times  
in a minute the heart con-  
tracts & sends the blood to  
the lungs. It is then re-  
turned to the left side  
of the heart & then to  
of you obstruct the  
passage of air thro the

Glottis & air will not be  
 admitted into the lungs &  
 the action of the heat will  
 cease. Disturb one of these  
 organs & you disturb the oth-  
 er. The pul: artery carries  
 black blood. While the veins  
 of lungs & in no: carry red  
 blood. The blood in the  
 lungs is changed in color -  
 we know that air is admitted  
 into the lungs. The mixture  
 in the lungs is not semi-ben-  
 the oxygen is. & we have in  
 its acid carbonic acid. It  
 seems to be formed in the  
 lungs. It would seem the  
 the great funct: of the lungs  
 is to eliminate the carbon  
 of the blood. If not re-  
 moved becomes a poison  
 to the system. This is one  
 of the great funct: of the  
 lungs. & indeed the only one

There are several genera:  
 Subordinate to genus:  
 of cough - coughing is  
 one of these & sneezing -  
 in: in cases will excite  
 a full respiration & it  
 will be forced out violently.  
 In the throat & organs  
 of voice will excite coughing  
 if in the trachea & if  
 in the nose it will excite  
 sneezing - Now will show  
 the coughing & sneezing have  
 nothing more for their  
 object than to remove  
 the cause that it may  
 not impede the function  
 of respiration. This seems  
 something like a conservative  
 natural nature to pre-  
 serve these functions.  
 The cough & sneezing is  
 destined to remove the irrita-

lating body.

The act of speaking is dependent on the organs of respiration. As respiration fails the faculty of speech also fails.

The act of vomiting is dependent on respiratory organs. Or of evacuation of urine. & feces of the action of the pericardiacus. The descent of the diaphragm. is all then considerably assisted - & when it descends the cavity of the chest is enlarged - the abdominal cavity contracted &c. Hence you see the dependence of these organs on the respiratory organs.

The nervous function of respiration demands your particular attention.

This depends on the contraction of many muscles - These must it is evidently con- together. There are nerves at con: the nares - the or- gans of voice - the will be dispenation of the lungs.

The mucous surface of bronchial tubes has in it a sensibility - something like that of the stomach for food. It has a strong desire for air when long deprived of it. There is therefore an assidua for air for these membranes. How many admit various sub: & not much air will be in-duced. Yet these are gases - wh. act violently on it - The lungs have a discriminating sensibility. The refuse or kind of stimu-

also admit another. These are facts, wh will be here after of import: to you.

The anatomical funct: of the lungs is along with that of the liver. They both transform & excrete & secrete organs.

What are called the viscera are principally the organs of the thorax & abdomen. I ask you all to know ~~organs~~ vis: in the above organs may affect the lungs. 1<sup>st</sup> of the various ways in wh the various viscera may affect the thorax - 1<sup>st</sup> by sympathy. When the heart & lungs may be both affect thro' the nervous connections. 2<sup>d</sup> by excreta digest: funct: the products are exhaled

of any preceding plethora  
 & congestion - We will ex-  
 cite the lungs & heart & the  
 vessels that act is impar-  
 ted to the whole system -

39 by the stomach ab-  
 sorbing unwholesome ingre-  
 dients - makes out the blood  
 will excite the heart & lungs.

It is well known how  
 soon is detected in the  
 urine prussic acid of potash af-  
 ter its exhibition - In 4 or  
 5 minutes it has been de-  
 tected in the blood - It  
 is in this way that it  
 may be absorbed by the  
 veins of the stomach & the  
 sent into the heart &c. Hence  
 it is some persons after  
 eating are much disposed  
 to cough after eating &



especially aft. having taken  
unwholesome food.

4thly by the formation of  
an unhealthy chyle - from im-  
paired <sup>digestion</sup> This chyle if it is sent  
into the lungs & heart will  
act as an unnatural stim-  
uli - 5thly Dis: in the mes-  
enteric glands. by their not  
performing properly his  
function - in the form of  
chyle &c.

6thly by the liver not  
sec: bile & leaving its eli-  
ments - in the blood. When  
the heart & lungs are irrit:  
& in the funct: or organic  
dis: will be developed.

7thly - by the liver in  
jaundice not excreting  
bile & thus the bile is  
admited into the blood

8<sup>th</sup> By enlargement of  
 the liver preventing the  
 descent of the diaphragm  
 & thus affecting respiration  
 thro.

9<sup>th</sup> By distended stomach  
 exciting sympathetically  
 the lungs. cough - hence  
 it is not uncommon for  
 indigestion to be acc. by  
 cough.

10<sup>th</sup> By the tendency  
 of the bile in the  
 blood, has ~~tendency~~ to  
 excite increased secretion  
 of the serous membrane - giving  
 rise to Hydropericardium.  
 or - Hydrothorax.

We next come to con-  
 sider the tendency to excite

Dis: The aff: of the lungs has  
 the abdomen. viscera. by  
 the heart not being able  
 to transmit the blood - &  
 hence congestion will take  
 place in the inferior vena cava.  
 Hence it is now will have  
 great acc. in the ascending  
 aorta. giving rise to con-  
 gestions in the abdominal  
 viscera. Malena may  
 be brought on in this way  
 2<sup>d</sup> by sympathy.

3<sup>d</sup>. The heart when dis-  
 may establish dis: in the  
 portal viscera. by throwing  
 blood by its excessive action  
 unnatural to them & thus  
 exciting inflamm: actions.

We con. to consid: the  
 aneurism of the heart

338

has on the lungs - 1<sup>st</sup> by  
sympathy - by being con-  
nervously -

2<sup>dy</sup> by affection of the  
right side of the heart.  
When this side becomes stiff  
& distended it will not  
be able to send a re-  
blood along the pul-  
monary arteries -

3<sup>dy</sup> a violent ac-  
tion in the right side -  
By producing palsy or  
apoplexy of the lungs -  
by effusions of blood in  
the lungs -

4<sup>th</sup> by ossification  
of the mitral valves - by  
preventing a free passage  
of the blood into the left  
side & hence causing con-

just now - &c. &c.

We now come to con-  
sider how the dis: of the  
lung may affect the  
heart - 1<sup>st</sup>. by sympathy.  
2<sup>d</sup>. by organic lesion  
in the lungs & the blood  
accumulating in the lungs  
giving rise to pericarditis.

3<sup>d</sup>. The lungs may  
affect the heart by a fail-  
ure of the ~~transformation~~ function.  
The heart then will re-  
ceive an unnatural stimuli-  
which will excite in it dis-  
turbances by debilitating its energies  
& being overthrown its vir-  
tue properties.

This is a sub: of the  
deepest interest to the  
physician - seeing that most

of the air: are found situated in these two cavities - the thorax & abdomen. Gentlemen, I indicate it to you as a subject of deep consideration - think of the connection of disease in these organs - this various sympathy. This different mode of affecting each other etc.

Cough. Coughing is a natural fund: - not performed habitually but occasionally to expel something from the lungs or from the various passages. The air is driven out forcibly etc. There is also in coughing a great dislocation & cont. of the thorax - *A cunctis de p[er]is*

of this lung: seems to be  
 necessary. The mucous membrane  
 oft requires to be relieved of  
 the mucous accumulated on  
 it. Thus far it is a healthy  
 lung. But when it becomes  
 constant it depends on an  
 irritation existing somewhere  
 else in the system. We  
 exactly the same as in  
 the respiratory organs. To  
 arrest this unhealthy cough  
 it becomes us to enquire after  
 the cause

Cause 1<sup>st</sup> Infl: either

acute or chronic of the  
 lung, trachea or the vis-  
 ceral membrane of the heart, of  
 the pleura - of the diaphragm - of  
 the liver - or of its ligaments  
 & I might add of the  
 face & adhesion. Hence cough  
 is a symptom of pneumonia  
 consumption - folicular  
 & other diseases of the

2<sup>dy</sup> may arise from  
effusion of serum as in  
Hydrothorax anasarca &c.

It is enlargement of  
the uvula - palate - or  
in the pharynx.

It is <sup>the</sup> foreign bodies enter-  
ing the prima pharynx  
& resting in the trachea  
bronchia &c. Hence persons  
working in dusty places  
are liable to cough - We  
may give rise to dis-

of the <sup>the</sup> bronchial enlarge-  
ments of the thymus  
glands - glands situated  
in the mediastinum & con-  
joined <sup>the</sup> <sup>of</sup> the  
heart &c. all obscured in  
their diagnosis - oft the  
off: will be a cough  
& you will find it def:



to detect the cause.

6<sup>th</sup> Organic enlargement of the liver & spleen. Distention of the liver you will easily detect.

7<sup>th</sup> Irritation in the stomach from acid & worms - Dyspeptic Dis. oft gives rise to cough & may produce an organic Dis. of the lungs or heart.

8<sup>th</sup> Cough may be excited by effusions in the brain. One remarkable instance of this kind I well recollect. This irrit. in the brain is com. to the lungs, by means of the pericardium.

And you will ask as this is presented to you as a symptom of

In many Dis: - you will wonder why I have not all this presented it to you. But it is certainly well worth to consid: it.

If that a cough there as a Dis: would be about we would all: trace out the cause of irritation. In generally as soon as we remove the cause we cure the cough. When it arise from nervous Debility we will endeavor to invigorate it

Pertussis. The most: act: is situated in the lungs. In the male the cough is spasmodic - at first mild - as it

a woman become more  
 continued to formate  
 In is a sec: from the  
 bronch: &c. aft- the is  
 for the acidity. There  
 is a hard black spot  
 of the face & eyes. In its  
 course it sometimes excites  
 bronchitis or Hydrothorax  
 It is prot: for many  
 weeks - & is apt to re-  
 lapse for months afterwards.  
 Generally a dis: of children.

On this dis: you will  
 observe there is an irrit:  
 of the pneumonae, the liver  
 the is an irrit: in the  
 stomach. & in all its  
 extremities.

Causes. A specific  
 morbific aerial poison  
 Mostly considered contagious

546  
form. It seems frequent to  
prevail epidemically & often  
by contagion. This is one  
of those dis: wh: accuses  
persons without once - but  
I have seen it occur  
often in the same persons.

Treatment. In the  
early stage of the dis:  
when there is fever the  
will be nec: - Emulsi  
are very useful. Antacid  
will afford relief -  
Cal: potash. Three days  
of alicia - Ipecac. Sup:  
or acetar Morph. will  
well alleviate the malady  
Assefua of garlic - Sul-  
phur etho are beneficial  
as anti-spasmodic - blis  
over the heat of dis: -  
You shd always end:

to produce the bronchial tubes & lead from irrit: & inflam. When they are developed ahead your heat to these organs.

In the cold stages w<sup>h</sup> the infl: is removed & the cough returns spontaneously by slight irritations. use first: allow a generous diet. &c.

Asthma or habituall Dyspnoea. This like cough may arise from many causes. Obesity. Stricture of the cartilage of the ribs I have known it produce. Dyspnoea is not itself a cough: ad air: but a symptom of

348

of them. It depends on  
various cause. Dr.  
Phillips in his experience  
in nervous with faltering  
is in & he relieved many  
cases of dyspnoea. He  
concl: that this depends  
on morbid action in the  
par vagus. I propose  
then that in such a case  
we should use Galvanism  
Apply one pole of Sal:  
batter to the scapula &  
the other to the epigastr:  
trum. In this way  
he relieves it. You will  
al: seek out the cause  
& treat for it.

Asthma This is a  
dise: of great diff: &  
is the most severe of disor:  
respiration. We observe

It coughs, dyspnoea & arises  
 from various causes. So of  
 Asthma. I hence have had  
 wish to exclude it from the  
 list of diseases. You will  
 find that this term is  
 used in many of the books  
 to designate difficult breath-  
 ing. But I am compelled  
 by symptoms and diff: to  
 regard it as a dis: It  
 may sometimes go off  
 without any organic  
 lesion. yet in all per-  
 sons organic lesion will  
 most frequently be found.

So this may be dis: in both  
 dry & humid.

12<sup>th</sup> The dry this is  
 the result of some local  
 paroxysm is short  
 and not so great as

Stivellios. cough dry - little  
 expectoration. little expectoration  
 Sec. - every thing above the  
 chest is dry & constricted.

- The humid. The paroxysm  
 gradually becomes more &  
 more violent. The action  
 is more pronounced. The  
 cough above the chest is  
 humid & severe. cough  
 in out. expect. at first  
 mixed. but at length  
 takes a serious character  
 & is more abundant.

In both there is an  
 irregular action of the  
 muscles of respiration -  
 This acc. to Dr. B. is its  
 characteristic. Others be-  
 lieve it consists in an  
 spasmodic contraction of the  
 bronchial tubes. This is



aberrant opinion. At  
 the same time it is evident  
 that the muscles are aff-  
 ected in a peculiar manner.

In the dry asthma.  
 The bronch & trachea  
 thicken, an very serious  
 on to the recep. of for-  
 eign particles - to a dry  
 & cold atmosphere. A  
 person disposed to such  
 dis. will always have  
 a paroxysm of asthma.  
 I have seen many per-  
 sons so disposed could not  
 be made to sleep unless  
 the air was  
 temperate.

In humid asthma  
 there is an increased se-  
 cretion of mucus & the  
 dis. depends on other

That the Dis: depends on  
 the liability to incense  
 Dec: - The paroxysm will  
 last for some time - all  
 times the patient is compelled  
 to keep an erect or  
 sitting posture - Gout  
 will seldom find or  
 joint lesion in this Dis:  
 It seems to consist in  
 some arrangement.

In most cases the  
 kind as the name the is a  
 state more or less of the  
 great vessels of the lungs  
 This seems to consist in  
 state similar to that  
 we are find in the pro-  
 latic dis: in the ven-  
 tron itself by an internal  
 sea: of bile.

In the lungs it is removed by increased secretion of mucus.

When asthma when forming in the system it will be attended by a retreat of the mucus & increased fluids from the cutaneous surface - I think, in fact. They seem to take two leaps & go thro' resting places.

It is oftentimes - An unhealthy state of the lungs may predispose them to this disease - or who when exposed to colds &c. will receive a farther - you. I would be impossible to trace out all its causes. It has

shows affinity between  
 this dis: & oft occurs with  
 Dispepsia - comes on with  
 it & with it disappears.  
 The paroxysms of the  
 disease I have seen  
 come on together. The  
 Dispep: will be likely  
 to produce this dis: you  
 can easily understand.  
 The stomach may be  
 dispep: habitually to excite  
 an emul: over the  
 lungs. It excites the  
 the paroxysms seen in

As shown at sea,  
 is from indigestion: will  
 be multiplied with the  
 dis. Get off the asthma.  
 will cont: with violence  
 Not off fatal - but  
 generally curable

It is apt to give rise to  
 the dis. Pl. Nervis - effused  
 of water. Dis. of the head.  
 Accum. of the liver. &  
 enlargement of the or:  
 Jan. & in this way  
 general dropsy may be  
 induced. In the same  
 way Dis. of the heart  
 springs up. The organ  
 this: oft: anat is some-  
 times looked upon the  
 primary Dis. & it will  
 be found as consequence  
 of the cause. For this  
 subject I shall again have  
 occasion to write

Treatment. I don't  
 do much aim at cur-  
 ring as much as short-  
 ening the paroxysm &  
 keeping it off. Hence

33605

We must end: to ascertain what can exist in a local situation. Dist. &c. As to local situation we can determine but little a priori. We must attend to the disposition of each part: cause.

So of dist. Many kinds of dist exist in one wh. has no effect in others.

When as Mrs. A. does clear wh. part: avoids all in existing causes - that is spontaneously. This is sometimes perceived in periodic dist. But they will disappear & after re-appear without any obvious cause. Now

When Mr. G. occurs in  
 his man. Mr. will cont.  
 for a long time. & finally  
 he will die from some  
 the dis. set up by it.  
 We may do much good  
 in mitigating the pain:  
 your. By removal conju-  
 tion. B. & cupping can  
 be used. Tho' you will  
 not find so much bene-  
 fit from it as might be  
 expected. Of the <sup>the paralytic</sup> will be  
 protracted. The dis. is  
 not an inflammation but a  
 kind of morbid action  
 then set up independent  
 of inflammation. Hence M.  
 can't cure it.

2<sup>d</sup> We will endeavor  
 from the above <sup>the</sup> ~~the~~ <sup>the</sup> ~~the~~  
 acc: will oft excite the  
 paroxysm. to effect the

We will adm<sup>er</sup> <sup>emetic</sup> besides  
 in this dis: in vacu-  
 ating the stomach, the  
 exert a specific ac-  
 tion on the lungs. Em-  
 etic act is et-ay the  
 bronch. sec. of the lung  
 &c.

3<sup>rd</sup> by adm: of cast:  
 especial Mer: cur. &  
 those we act on the  
 liver, Anodenum &c.  
 It is surprising we  
 quantity of bile will  
 be evacuated by emetic  
 & purgatives. Some alt<sup>er</sup>  
 come from or your pa-  
 tent be direct to the  
 ap: it will be near  
 King the cause & solut<sup>ion</sup>.  
 This is & also a venous  
 than a primary cause



Copian purg: is not  
 one of ours but remedies.  
 you will understand.  
 When they are on the  
 lower bowels &c.

Let you will find  
 Antacid to correct acids  
 is when it is found to  
 exist.

You will endeavor  
 to allow the open modic  
 act of suppurating or  
 town. by a peloration

Opium 11g

Opacac. 4g

Prep: acetan. Dij.

Here is a solution. Name  
 I can't find Antacid would  
 find in four doses &c

you may be the fol.

Opium 11g

Musk xvi.

made & divided into 10 pills

060

℞ Opio . 119  
Asafoetida . 24 gr.  
Gum: Am: . 8 gr

℞. Sulph. E No 3vi  
Gum opii 3i  
Alcohol - ʒi

Dose teaspoonful — All  
the narcotics remain  
will be used sparingly —

We may attempt  
to promote expectoration  
A great variety of  
these med: may be  
resorted to. I will  
for you some formula  
Gent: Lohia. 40 Drops  
in infusion of liquorice  
for acc: to cur: —  
It is a teaspoonful of  
Syrup of Sassafras

Sac: Am: ʒij  
 Syr: Sijus ʒij  
 Paneyri: ʒij-

or  
 Cac - 10 gr  
 pul: squill - 24 gr-

mix & divide into 8 pills,  
 All these formulae will  
 in all cases irritably increase  
 the expectoration.

Opium 11 gr  
 Speca: 8 gr  
 Carb: Am: 16 gr-

Div: into 8 pills - five acc:  
 to circum: - or more or

Or: Speca: ʒij  
 Paneyri ʒij  
 Amm: Alcohol ʒij - dose tea:  
 spoonful - per se nota.

The formula will suit  
 in every kind of asthma.

The steam of water or  
 water mixed with an ac:  
 matic or of vinegar

362  
I can be resorted to in  
cases of em

We may use blisters or  
sinapisms as counter irritant  
Issues in the base may  
ward off the paroxysm.

All I have said has  
only related to the pal-  
iative cure. We of no  
specific know when the  
dis. has survived the  
period of middle life.

1st by avoiding all  
the exciting causes. 2dly-  
135 The use of prep. of Iron-  
3dly 134 The use of repe-  
table killers These may  
be combined with the  
prep. of iron. The cold  
can during the absence  
of the paroxysm often does

good - will arrest the paroxysm  
in this occurrence.

Asphyxia. This cond: arises  
from drowning, hanging, from  
breathing sulphuric acid &  
from lightning.

In all these cases the dis:  
is essentially a malady of  
respiration. Thus the  
funct: suspended - When  
an individual is submerged  
or hung, the air is excluded  
from the lungs - Take the  
patient from this sit: &  
the pulse will still be  
beating - but will become  
more & more feeble. Now  
death seems to be consequ:  
of blood of an improper  
kind passing into the  
heart & thence sent into  
the whole system - The  
heart does not stop to beat

364

When the heat see the  
black blood - but grows  
this blood being sent into  
the heart itself - into the  
brain, spinal marrow  
&c. The blood is no longer  
just aerated &c. & is  
conseq: unfit to support  
animal life.

If we scapto animals  
submitted to immersion  
&c the animal dies  
apoplectic - when this takes  
place suddenly he does not  
but when he dies grad-  
ually he dies apoplec-  
tic. When a cord is applied  
around the neck of the  
criminal the blood is cut  
off from the head. Now  
if the heart still beats  
& the rope dont drop

prevent the blood from  
flowing to the brain it is  
evident that the vessel and  
apoplexy.

The practice of  
suspended animation has  
been uniform & empirical  
& utterly unnecessary -  
The great medical: is to  
restore the respiration if  
this be soon done it is  
clear the person may be  
saved. But if the functi:  
of nerves & heart be in some  
measure lost - it is not  
probable we can effect  
a resuscitation.

The first effort we  
are to make is to unfast  
the lungs - The bellows are  
recommended - by Hunter &c.

366

In every instance in wh<sup>ch</sup>  
I have used it I have  
found the stomach so  
inflated - We cannot  
prevent it by using any  
kind of pressure on the  
oesophagus. The con-  
tents of the stomach will  
be forced up the oesoph-  
us by the admission of air.  
Another mode is to per-  
form the Op<sup>r</sup> of Laryngot-  
omy. The venous vessels  
are now engaged &  
in performing this opera-  
tion. The blood will flow  
into the chest & will  
put at an end to all  
hopes of returning an-  
imated. The best  
plan is to introduce a



tube into the larynx - The  
 stimulus of the tube of the  
 the osma floccida. This  
 the tube we may inject  
 stimulating vapors - to  
 blow with our own mouth  
 At the same time we  
 will endeavor to maintain  
 respirations by exerting pres-  
 sure on the ribs & epigas-  
 tricum - Never use great  
 violence in any of your  
 attempts. This despi-  
 ration is from being nat-  
 ural - The muscles dont  
 act - The diaphragm is  
 arrested - The change  
 on the blood dont take  
 place - The air comes in  
 contact with the bron-  
 chial tubes - The chemical  
 change does not now

366<sup>e</sup>  
take place. I do not  
put much confidence  
in these exertions at  
inflation - Tho' occa-  
sionally it seems to have  
done good. The irrita-  
bility of the heart may  
be removed w<sup>th</sup> artifi-  
cial respiration is made  
by the stimulus of air and  
the mucous mem<sup>br</sup>: of  
the bronchial tubes -

It is a com<sup>mon</sup> practice  
to res<sup>uscitate</sup> in asphyxia - Only  
when you have good rea-  
son for supposing the  
brain to be congested  
or a new res<sup>uscitation</sup> under  
these circumstances you  
may cut the breast  
Must have been said

about the ap: of heat to  
 persons in asphyxia - In  
 cases from suspended An-  
 imation from lightning we  
 are directed to use topical  
 affusions of cold water &  
 when it occurs from  
 breathing deleterious air -  
 when it occurs from drown-  
 ing we are to use warm  
 applications - They are  
 improper in cases from cold,  
 in lightning &c. & why  
 shd we admit them in  
 cases from drowning -  
 When an individual is  
 in a state of asphyxia  
 from drowning shd not  
 use warm applications  
 This I recon: from the true  
 real cause. Persons  
 with asphyxia from

370

Drugs resemble those  
cases from cold - I was  
not prescribe warm  
ap: - I was attend  
it over cold - cold  
& heat thus actual  
good with good one of  
the most powerful  
exciters of the suspended  
energies of life.

With generous and  
irregular. Whipping with  
rods & beating with  
mallets and sometimes  
found to be beneficial  
Remedies -

Stimulants introduced  
into the arteries & stomach  
will often excite and  
action in the system and  
apost. Electricity has

been seen: from the  
 man. in. wh it excites  
 muscular contraction  
 after death we might  
 expect a great deal  
 from it. However exper-  
 ments does not seem  
 to confirm this opinion -  
 slight shock. should  
 passed along in the  
 of the periphery as the nerves  
 at short intervals. for  
 2 or 4 hours -

In all these cases it  
 will be more imperious  
 duty to drive off all by  
 of tannin & let the patient  
 have a free passage of  
 air &c.

Circumstances of the circula-  
 tion functions -  
 This will comprehend all

aff. of an inflamm. nature  
 as the phlegmasia, gene.  
 eruptive aff. & will  
 include the aff. of the nerv.  
 & ~~accidents~~ ~~accidents~~ functions,  
 as of dropsy & will bring  
 us back to the consid. of  
 means of more malade  
 which we have considered.  
 We can't appreciate  
 too fully the import. of the  
 study before us.

Before comm. the consid.  
 of the dis: we will consid.  
 the funct. of anatomy,  
 physiology &c. The funct.  
 of cir. is one of universal  
 extent being found every  
 where - it is a sustaining  
 funct. to all the rest. It is  
 a power of life to all the  
 rest. The cir. of the blood  
 shall be furnished ~~to~~

to the student of med.  
hope you are all familiar  
with the function. that you  
all trace a drop of blood  
thru the system.

The influence of nerves  
on the heart. The heart is  
supplied with nerves from  
the brain, spinal marrow  
& the great sympathetic.

Does the heart derive its  
contractile power from the  
nerves? This is an undecided  
point. It seems to derive  
this power from the blood  
circ. in coronary vessels & from  
its nerves. a 3<sup>d</sup> relation  
of nervous influence is the  
action of other organs upon  
it action. & 2<sup>d</sup> by the in-  
fluence of the great symula-  
thous. If you abolish this  
nervous influence you will  
have none but the influence

The vessels left. The various  
 organs require a uniform  
 supply of blood. It is  
 able to perform the function  
 It must have occasional  
 extraordinary supplies of  
 blood. This must  
 have the power to cause  
 this to heat at certain  
 times to throw out an  
 increased quantity of  
 blood. That this is thro'  
 the nervous connect. is plain  
 is obvious. If there be  
 an irritation in the exten-  
 sion of the pulm. veins the  
 heat will be increased  
 increased action. Now this  
 must be with thro' the ner-  
 vous of vascular system.  
 If we reject the infl. of  
 the vascular system we  
 must admit the nervous  
 connection.



No one can be considered  
 has good parolaps: unless  
 he has become acquainted  
 with how a bit in a  
 distant part can affect  
 a remote part. This  
 is affected thro' the ner-  
 vous system. If there  
 be great excitement in a  
 part the heart will beat  
 with unwanted energy.

The passions have a  
 powerful influence on  
 the heart. Different states  
 of feeling excite differently  
 the heart & this is done  
 by means of the nervous  
 system.

The nervous system has  
 an influence on the vessels.  
 How is this done? The vessels  
 are supplied with nerves  
 traversing their coats. In  
 the arteries there are  
 many connecting pieces  
 & we send numerous

branches to the vessels  
 passing thro' them. Many  
 of the nerves of the arteries  
~~are supplied with~~  
 come off from the cerebral  
 plexus. It seems to be  
 demonstrated that the  
 vessels & capillaries are  
 abundantly supplied with  
 nerves. Several parts of  
 the body have a sensibility  
 of a peculiar kind. When  
 this takes place we find  
 an increased accumulation  
 in part. Examples of  
 kind are afforded by  
 the organs of sight, taste  
 in the muscles. in the  
 digestive fundus. in the  
 uterus. Hence we see  
 the close connection of the  
 nervous & vascular sys-  
 tems.

Symptoms of Disordered functions of the circulatory organs.

In proport: to our knowg of the animal economy in health will we become acquainted with its departure from that state.

The 1<sup>st</sup> class of the morbid app: are the changes in volume or of the parts, wh are affected with sanguinous dis: Excess of size indicates, either hyper-  
trophy or excessive growth. Or depositions of fat. Or effu-  
sions or extravasations of blood.

The proops of serous secretions being in excess. Or congestions or accumul: of arterial blood or from acc: of venous blood or from defective absorption.

Now under this new wh we find a part enlarged you will enquire wh of this cond: can give rise to it

Diminution of a part.

1<sup>o</sup> May arise from atrophy  
2<sup>o</sup> from defective circulation

3<sup>rd</sup>  
in a part. as when a part  
is exposed to cold it becomes  
s~~o~~ ~~r~~ ~~u~~ ~~n~~ ~~d~~ ~~e~~ -

From the cause wh<sup>ch</sup> either  
diminish or increases the  
size of parts we proceed  
to consid: the changes of  
colour wh<sup>ch</sup> occurs in parts.

1<sup>st</sup> By acc: of arterial blood  
the rise to a florid hue.

2<sup>o</sup> from venous acc: evincing  
a violet or purple complexion  
in the part.

3<sup>o</sup> When exhalation or de-  
minished absorption, evincing  
a pale colour - may  
rise to the leucophlegmatic  
appearance.

These complexions will  
be of great importance to  
a practiced eye.

We have changes of tem-  
perature. Increased warmth  
arising from increased ac-  
tion of the circ: of a part.

2<sup>o</sup> Change of temper: may  
produce defective heat.

Showing that the cir: is not  
carried on actively in 2 parts

Change in the sensation  
of parts. 1<sup>o</sup> Indicate to  
us excessive arterial action.  
giving rise to pain. & acute  
sensitivity. Hence by decrease  
in the amount: in a part  
you lose pain &c. &c.

2<sup>o</sup> Defective determination  
of blood to a part. causing  
diminished sensitivity.

Change in the amt: of  
quantity of secreted fluids.  
in an organ. 1<sup>o</sup> Indicate  
excessive determination of  
blood giving rise to increased  
secretion of the organ.

2<sup>o</sup> Diminution in the  
amount indicates defect-  
ive secretion in an organ  
In this there are some ex-

ceptions. A great supply of blood to an organ may subvert its secretory function & transforming power. Or it may, <sup>in</sup> a small determination will find need to increased secretion.

Changes in the quality of the secretions of an organ <sup>1<sup>st</sup></sup> afford evidence that the supply is either increased or diminished determination. The organ becomes diseased & hence its functions will be morbid.

Inordinate vigilance or drowsiness or comas alike indicate engorgement of the brain - from acc: of venous or arterial blood. Let them acc: be carried beyond expressed excitement & you will have comas & stupor.

Throbbing or pulsatory move-  
ments in a part indicates  
increased action in a heart  
with excessive sensibility of a  
part.

Such are the principal  
signs of Disruption of the same  
functions of a part and  
developed. Thus among the  
own natural principles of  
association than a swelling  
will be attended with pain  
flour color, augmented heat  
& perhaps throbbing. A de-  
fective delevan: will be indis-  
cated by diminished volume  
heat, sensibility & of the  
natural color. Hence you  
see on this calls for another  
On venous acc: the vessel is  
a violet color or not materi-  
ally altered - The vessel is de-  
minished sensibility & heat of  
the part. Now suppose the  
be acc of serum - There will  
be diminished sensibility -  
pale red - defective delevan:  
This const: the oedematous state  
occasionally some the other condit<sup>o</sup>  
may be present in a part

In coma the will be increased heat about the head. In the case of dis. of the brain which arises from nervous acc: the arteries will be induced to increased action, exciting heat &c.

The most important signs are afforded by the pulse. In the small ones the pulse cannot be detected. When they are due to a certain we cannot feel the arterial throbs being synchronous with the pulsation of the heart it is evident that the phenomenon depends on the heart. How the artery co-operates in forming the pulse we don't exactly know. The best opinion we have been found is that attributes the pulse to the impulse of the blood on the cardiac orifices of these vessels & then sending it along the tube. This united with the dilation & conti: of the vessels seems sufficient to



due to explain the action of  
the pulse.

In the state of heart no pulse  
no be relied on. but in dis:  
we can too longed self on one.  
we must compare this with  
the & with the pulsations  
of the heart itself. These are:  
kind the pulse is a found diag:  
nostic & prognostic indications.  
The are many states of the pulse  
in the books wh I have in  
practice never being able to  
discover.

The following states of the  
pulse occur: 1<sup>st</sup> char altered  
1<sup>st</sup> a frequent pulse with  
refers to its frequency. 2<sup>nd</sup> a  
quick pulse refers to its action  
3<sup>rd</sup> a slow pulse - 4<sup>th</sup> an in:  
frequent pulse combined with  
frequent - 5<sup>th</sup> intermitting  
pulse - 6<sup>th</sup> a full pulse -  
it may be full or  
hard - 7<sup>th</sup> a small pulse  
when it is weak considered  
a firmicularis pulse  
a small & weak seems to

Denote a firmiculus - Suppose  
 a pulse is small or not felt  
 this const: the wire pulse -  
 8<sup>th</sup> The soft pulse - when it  
 is easily compressible - If  
 we suppose it art. men clas-  
 sic tubes - & by the system contact  
 the arteries act freely no wall  
 be antagonized - if it easily com-  
 pressed it is evident it is not  
 enlarged by the heart - Does  
 you see the arteries have a round  
 dilatation - 9<sup>th</sup> a hard pulse  
 when the force of circ. appears  
 concentrated in the artery & easily  
 compressed - 10<sup>th</sup> a tense pulse  
 11<sup>th</sup> a strong pulse which  
 assembles the state of heart.  
 12<sup>th</sup> an elastic bounding, irri-  
 table pulse frequent & easily  
 compressed - two of the  
 most interesting to you ac-  
 cented - because in inflam-  
 aff: when you B. to it you  
 think you have carried  
 the far enough the pulse  
 then frequent, full  
 & bounding, now you will

enquire shall you find  
 with your deplorable means  
 study this pulse & avoid  
 running into error respect-  
 ing it. 13<sup>th</sup> The depressed  
 & oppressed pulse in some degrees  
 is opposite of the last. It  
 flows freely & strongly & de-  
 velopment. When you have this  
 pulse you have one of the  
 signs of the oppression in the  
 brain especially the action  
 of the heart & you have  
 oppression in the heart  
 itself. If you have accu-  
 mulation in the heart from conges-  
 tion in the lungs & you  
 will have no cavities  
 of the heart & its substance  
 in a liquid state. At  
 the same time you will  
 have accumulations in  
 the meninges & as a  
 consequence of this accu-  
 mulation of the spinal mar-  
 row. Now in the med:

I say if under this cir: if  
 you take a way blood  
 from the circulation you  
 will relieve the action of  
 the heat. 14<sup>th</sup> The obstructed  
 pulse - This is an accom-  
 paniment in the ~~diffusion~~ & force  
 & frequency of the pulse. All  
 these may be grouped or  
 united. The pulse may  
 be full, frequent, tense &  
 hard. A pulse may  
 be frequent, full & soft  
 &c. The pulse is seldom  
 very full & very hard or  
 very full & very frequent  
 or very slow & very  
 hard. but it is often  
 frequent & small. When  
 it is exceedingly frequent  
 in females pres indic-  
 tion of a state w<sup>ch</sup> does  
 not admit of further  
 debilitation. A full  
 tense pulse indicating a

natural exhalation of the  
system - when it is intermittent  
is enormous of a great de-  
barment from a state of  
health. & you de-

Several precautions so  
necessary in feeling the pulse -  
sometimes the artery of one or  
more deeply seated than  
the other - Hence you will  
be deceived unless you feel  
the pulse in both arms. The  
position of the arm must  
be attended to. Keep it  
relaxed & free from all  
pressure. The temperature  
of the limbs must also be  
attended to - If the air  
has been extended out of  
the bed cloth - Position  
of the patient effect the  
pulse - it is always  
more active in the erect  
position - In the decubital  
position the pulse will be

388.

determined in size & frequency  
etc. The passions & emotions  
of the mind increase the  
frequency & sometimes the  
force & at other times de-  
crease the force of the  
pulse. During fear & fright  
the pulse will be increased.  
This is the hysterical pulse.  
A new emotion will spring  
up after the emotion of fear  
has passed off. Before the  
invention of certain modes  
of ascertaining the state  
the heart was depended on  
the motions of the pulse to  
tell us of the condition of  
the heart in diseased or  
morbid states. This is now  
ascertained by auscultation &  
percussion. The lungs are  
now examined in the  
same way & we could not  
have done this.

13 Start marks  
to end  
No sea

ned

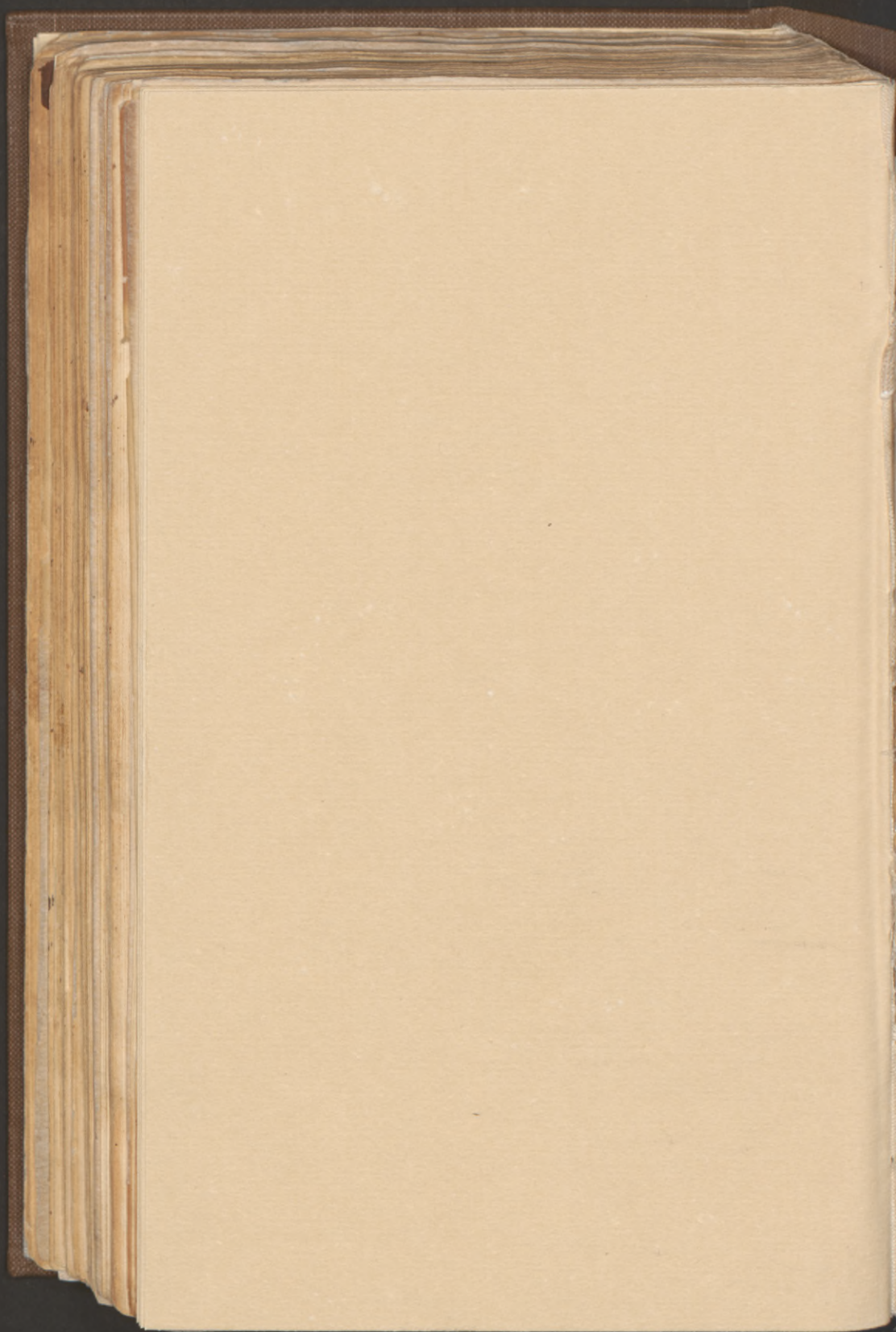
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386.

Resimend in signis & quibus  
eye. The passions & emotions  
of the mind increase the  
frequency & sometimes the  
force & at other times the  
number the force of the  
pulse. During fear & for  
the pulse will be weak  
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A new emotion will spring  
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has lapsed off. Before the  
invention of certain modes  
of ascertaining the state  
the heat and the period  
the motions of the pulse  
etc. of the conditions  
the heart is diseased or  
morbid state. This is not  
ascertained by auscultation  
Med. Hist. The lungs are  
MS.  
B  
69  
V.1  
The lungs are diseased in the  
lungs we could  
have made



13 Blank Leaves Not Scanned



Drake. Vol. 1.  
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Condition On Receipt: The half leather and decorated paper binding was extremely dirty, worn, abraded and deteriorated, particularly at the corners, edges, endcaps and joints. The internal hinges were broken. The sewing was sound. The pages were torn, dirty, discolored, stained, acidic and weak. Some of the pages were mended with pressure-sensitive tape which was discoloring the pages. The manuscript inks present were acidic and varied in intensity.

Treatment: The volume was collated and disbound retaining the original sewing. The inks were tested for solubility. The head, tail and pages were dry cleaned and nonaqueously buffered (deacidified) with methoxy magnesium methyl carbonate solution. Tears were mended where necessary with Japanese paper and rice starch paste. The tape was removed with methyl ethyl ketone. The sewing was reinforced. Windsor handmade paper ends with a linen hinge were attached. The volume was case bound in full cloth. Title information and lines were stamped in gold foil onto the spine.

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