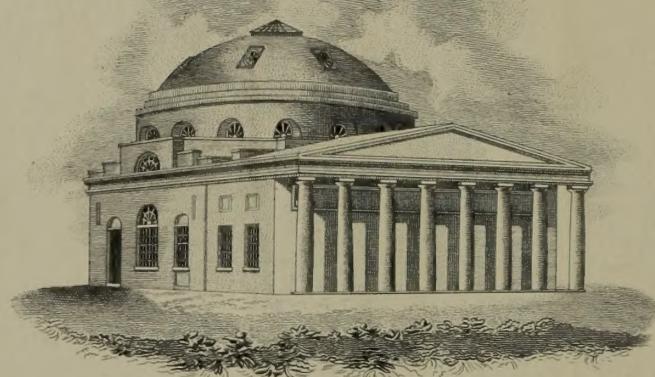


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Early Doctor of Medicine and Doctor of Physic Dissertations with Corrected Tables of Contents

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

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

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(CORRECTED TABLE OF CONTENTS)

UNIVERSITY OF MARYLAND

THESES

1872(a)

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¹ Second title page at end of thesis.

Gender	Age	Education	Employment	Family Income	Race	Health Status	Health Insurance
Male	25-34	Less than High School	Part-time Employee	\$15,000-\$25,000	White	Excellent	Yes
Female	35-44	High School Graduate	Full-time Employee	\$25,000-\$35,000	White	Good	Yes
Male	45-54	College Graduate	Self-employed	\$35,000-\$45,000	White	Poor	No
Female	55-64	Postsecondary Education	Homemaker	\$45,000-\$55,000	White	Fair	Yes
Male	65-74	Postsecondary Education	Retired	\$55,000-\$65,000	White	Poor	No
Female	75-84	Postsecondary Education	Retired	\$65,000-\$75,000	White	Fair	Yes
Male	85+	Postsecondary Education	Retired	\$75,000+	White	Poor	No
Female	85+	Postsecondary Education	Retired	\$75,000+	White	Fair	Yes

Table 6. Descriptive statistics for each age group and gender.^a Data for all groups except the youngest ($n=29$) were collected in 1998. Data for the youngest group were collected in 1999. ^aFor those aged 65-74, family income includes Social Security benefits. A second household income was included for those aged 75 and older.

Author	Title	Notes
Chamberlaine, H. Richmond	Digestion	
Salley, Micheal G.	Spasmodic Laryngitis	
Kemp, W.F.A.	Fever (Idiopathic)	

UNIVERSITY OF MARYLAND

THESES

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Black, J. B. Richmond	Spasmodic Laryngitis	14p.
Chamberlaine, H. R. Michael	Fever (Idiopathic)	39p.
Salley, M. G.		
Kemp, W. F. A.		

— INaugural DISSENTATION —

cont.

— *Pneumonia* —

Submitted to the Examination

of the

— PROVOST REGENTS EXECUTIVE —

— *Physic Officer* —
of the

UNIVERSITY OF MARYLAND —

— For The Degree Of
Doctor of Medicine —

By *H. C. Gund*

May 28

Session 1871-72

IMb
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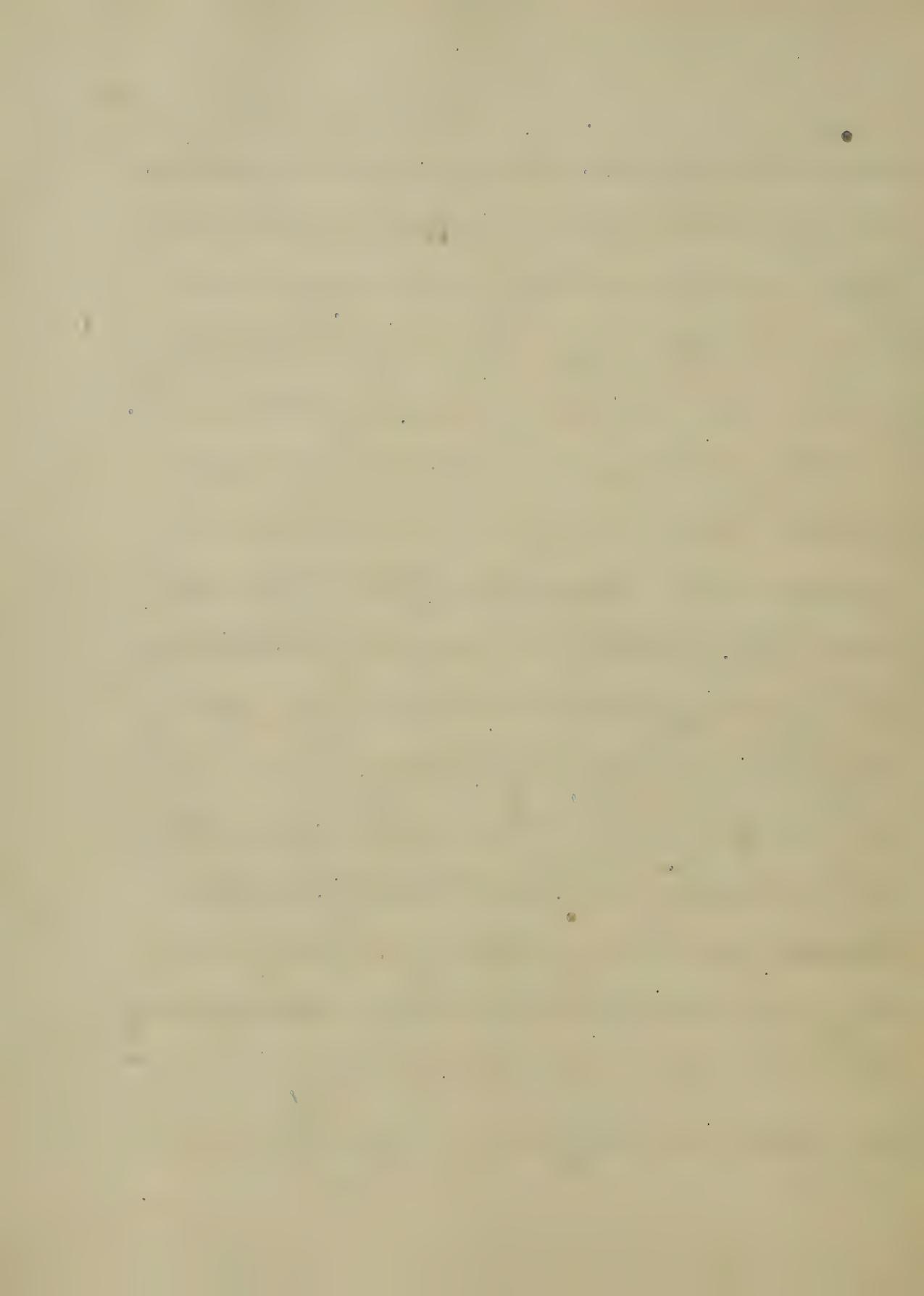


Pneumonitis

Pneumonitis is a term applied by the ancient writers to most acute diseases of the chest - attended with severe pain, those connected with this symptom being by them termed Phrensy. Although this ground of distinction by no means hold good, with our improved knowledge of the subject: and we shall find that between Phrensy and Pneumonia there is a distinction founded in Pathology and most important in practice. There are several varieties of this disease, but the one of which it will be my purpose to speak is acute - sober Pneumonitis. It is generally considered to be an inflammation of the Parenchyma of the lung. The question first involved in the consideration of this disease is what constitutes the Parenchyma of the lung, this term relating to the minute air cells or vesicles

together with the terminal branches or ramifications of the Bronchial tubes these make up the Lobules (which are quite distinct from one another and are easily separable during foetal life) these when connected together by Areolar tissue constitutes the Lobes; into which each of the two lungs are divided. When not developed as a complication of an existing Pulmonary affection; this disease usually affects at least one entire lobe, and this extension of inflammation is expressed by the term acute-Lobar Pneumonia; when limited to a portion of a lobe only it is called circumscribed or Lobular Pneumonia, "Anatomical Characters." The first appreciable change which takes place in acute inflammation of the Lung is the same here as in any of the other tissues of the body viz: an abnormal accumulation of blood or Effusion

and is active congestion. The vessels become distended, and the whole tissue appears of a dark red color incrustic & filled with blood or bloody serum but will still float, in water though heavier than healthy lung and is also easily torn & will crepitate. When a section of the lung is made a frothy serum exudes: which is thought by some authors to depend upon a coagulation of the blood after death. If the disease be arrested in this stage; which generally lasts but a short time; the lung reassumes its healthy appearance. If not it passes into the "Second Stage". This is the condition spoken of by Lacunie as that of "red" Hepatization. Rudral call it red "Softening". It brings the lung to a state of solidity more or less approaching that of the liver. The tissue of the lung thus consolidated is so heavy that it generally sinks in



water it is also more fragile than usual; so much so that the finger may be easily thrust through it. This softening seems to be chiefly the consequence of the interstitial adhesion of soft fresh lymph, which diminishes the molecular cohesion of the tissue.

The color of the lung varies according to the amount of blood which it contains; if this be much it is red; if little, hickish brown. When the blood remains fluid in the first stage the consolidation is imperfect; and the portion of lung thus affected although it may sink in water is quite soft and resembles the substance of the spleen rather than that of the liver. Since this term sclerization. If the progress of the disease be favorable the effusion is removed mainly by rapid absorption. Upon its removal the air cells are found to have sustained no damage. The pulmonary

Structure remaining intact during the continuance of the deposit; with its functional capacity fully restored, the circulation being continued with the same vigor as in health. If the progress of the disease be unchecked it proceeds to the "Third Stage" or that of suppuration called also Grey hepatalization Softening or purulent infiltration which consists in the degeneration of the exudation into pus.

This suppuration is commonly diffused in the form of a distinct abscess: inasmuch as very extensive suppuration would destroy life before the formation of an abscess which would necessitate a complete disorganization of the tissues.

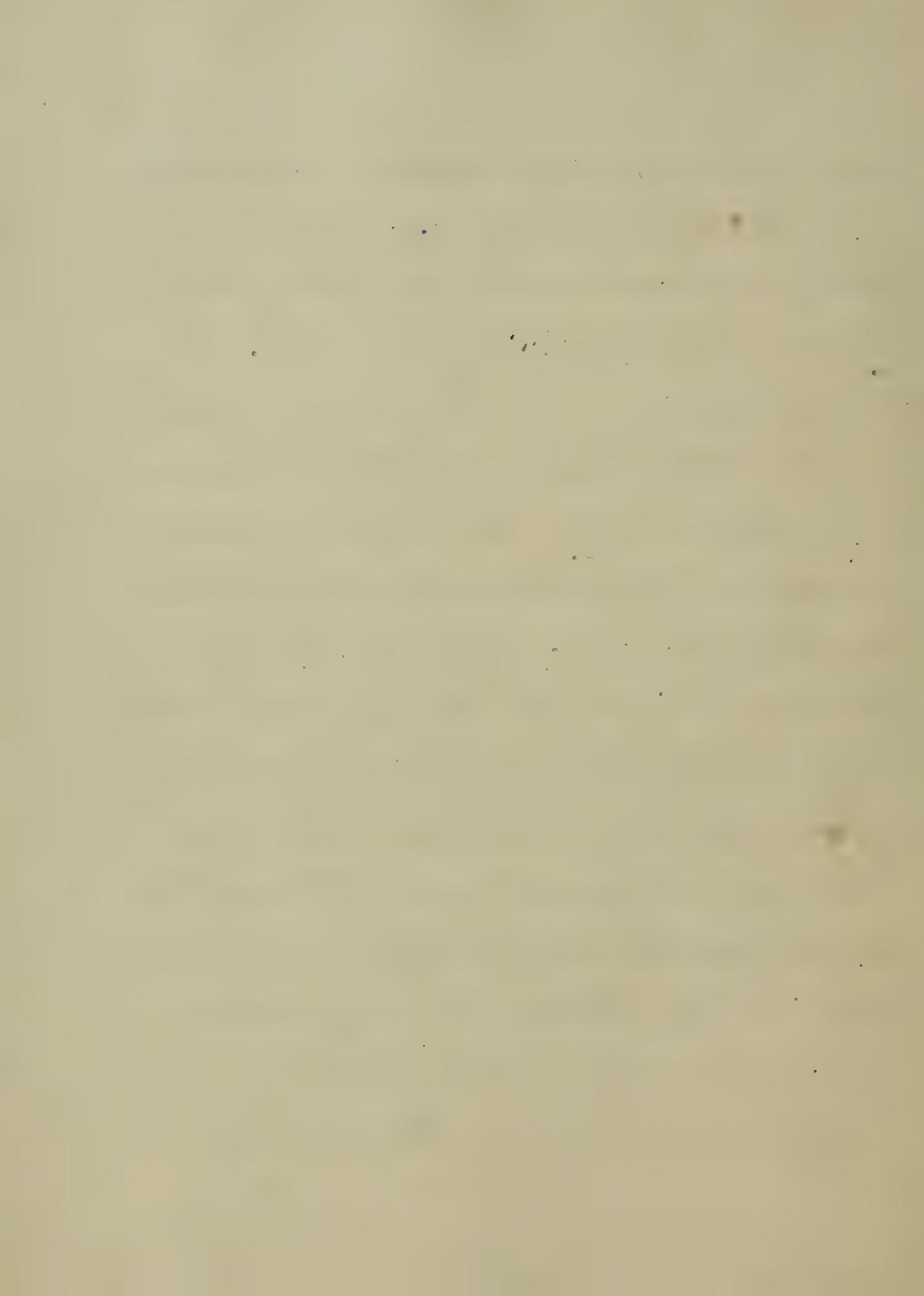
When the Lung which is affected is cut passes flous freely from the cut-surface. The substance of the Lung being much softened breaking down on the slightest pressure. Gangrene of the Lung may

occur but this also is of irregular occurrence. Pleuritis limited to the affected lobe or lobes sometimes occurs and is developed coincidently with the Pneumonia. I have omitted to mention however that Bronchitis affecting the bronchial tubes within the affected lobe or lobes does also exist with this affection. Some writers say that Pneumonia never exists without being to some extent complicated with this disease. In ~~the~~ ^{the} great majority of cases the lower lobe of the right lung oftener than the left is affected. The disease very rarely attacks two lobes simultaneously: but invades not irregularly a second and even a third lobe. The inflammation extends over at least one entire lobe as the term Lobar Pneumonia implies. To this rule however there are exceptions, the whole of the lobe is not invaded at once. The inflammation commences at a certain

wound or at several distinct points extending from lobe to lobe until the entire lobe is affected.

The pathological characters of this disease have been fully discussed in considering the anatomical characters, "Causes." This is one of the most frequent disease with which we have to contend: no age or condition being exempted from it. It is rarely, if ever, under five years of age, it would seem to acquire it (maximam) twenty & thirty: it is frequent from huberly to fifty then diminishes to sixty. It attacks more males than females: this is doubtless owing to the fact of the more frequent exposure of the males. The influence of sex being not oral but aphæreal: It occurs in certain seasons of the year more frequently than at others. It is much more frequent every where in winter than in summer.

In the northern States it is said to be more common during the Spring months. In some sections of country it prevails sufficiently to be considered endemic. It is thought by some writers to be more severe in the Southern than the middle & Northern States; being more liable to extend to more than a single lobe. A previous attack predisposes to another & shows a preference for the lobe previously attacked. In a large proportion of cases the disease is developed spontaneously; that is it is not referable to any obvious cause. Doubtless though there is always an adequate cause which exists but we are not able fully to determine what that cause may be. "Varicities." According to its seat it is classed single & double. According to causation it is idiopathic from cold or traumatic from



injury. Tuberculosis in ~~thesis~~ & Pneumonia
Typhoides. Chronic Pneumonia is rarely met
with except in ~~thesis~~, what is commonly called so
being induration following acute Pneumonias as
an effect not a continuation of it - "Lymphoma"
Several days previous to an attack of this disease
the patient is the subject of languor & listlessness
with slight febrile disturbances. At the beginning of
from 1-4 days. There is generally a feeling of nausea
a short dry cough: dull pain in the chest-side
or back, which is sometimes violent (when a complication
with pleurisy may be suspected): painful breathing:
acceleration of the pulse sometimes reaching 140-160
beats per minute. One of the most characteristic
phenomena of this disease is the increased temperature
of the body especially about the 4th or 5th day sometimes
reaching 104° or 105° Fahr. in the arm-hib; three; loss of

apoplectic headache delirium being not uncommon.
The flush on the face has a darkish hue circumscribed and confined to the cheek corresponding to the affected side. Expectoration commences about the 3rd day: The sputa consisting of a mixture of blood, lymph and mucus forming the rusty spula which is quite pathognomonic of Pneumonia; this spula differs from that of acute Bronchitis which is streaked the blood not being mixed with the other ingredients. The urine is scanty as in all febrile affection and upon examination will be found to contain an excess of urea but a deficiency of the chlorides about the middle of the attack. I neglected when speaking of the spula to mention that testing with Argentii Nitras it will be found to contain an excess of Chloride of Sodium.

The attack is most severe between the 5th and 7th

day after each of the progress of the disease so far.
rather the temperature of the body declines and
all the symptoms subside it on the contrary the
progress of the disease is not checked by ~~active~~ rest-
and the symptoms mentioned are more
or less aggravated there is an increased oppression
in the breathing and greater prostration is evinced
with a deepened cough and the expectoration more
abundant: Diagnosis. Acute Pneumonitis almost
always accompanied by symptoms which are highly
characteristic of the disease. This disease is not
infrequently latent in the system and will
be manifested either in our view the means which
ascertaining affords us of making a correct
diagnosis. Even if the existence of the disease is evi-
ded to us by the symptoms at a remove in the
situation and extent of the disease can only be determined

by the means of physical exploration: The signs in
the first stage upon which we rely more are slight
dulness on percussion and after the 2nd or 3rd day
a fine crepitant rale caused by the separation
of the adhesed walls of the vesicles on inspiration.
The latter if well marked is almost pathognomonic
of the disease. The distinction between this rale and
the croupy rale with which it is liable to be confounded
are its fineness (dryness) and its being limited to
inspiration: as the lobules become more solid
after the dulness is more marked: in very
many cases the disease has reached this stage
before the rale is seen, when the solidification
has become sufficient in degree and has extended suf-
ficiently over the affected lobe we have developed
Bromheal respiration and bronchophony with increased
vocal fremitus. The progress of the second stage.

may be determined by the existence of all the signs but if one should be absent the others are most likely to be present. The dulness or flatness on percussion in this stage is more marked than in the first. Mounting almost to flatness in some instances. This flattening extends over a space corresponding to the solidified lobe. The invasion of a second or third lobe is denoted by dulness on percussion and the auscultatory signs of solidification. If the disease passes into the stage of suppuration the dulness or flatness continues and the muco-erupting rhinches due to pus in the air tubes are prominent. The auscultatory signs of solidification continue but are less marked. If the abscess of the lung takes place and discharges survives long enough for a discharge of pus to take place in the Bronchial tubes we have cavernous respiration which may become well marked. A.

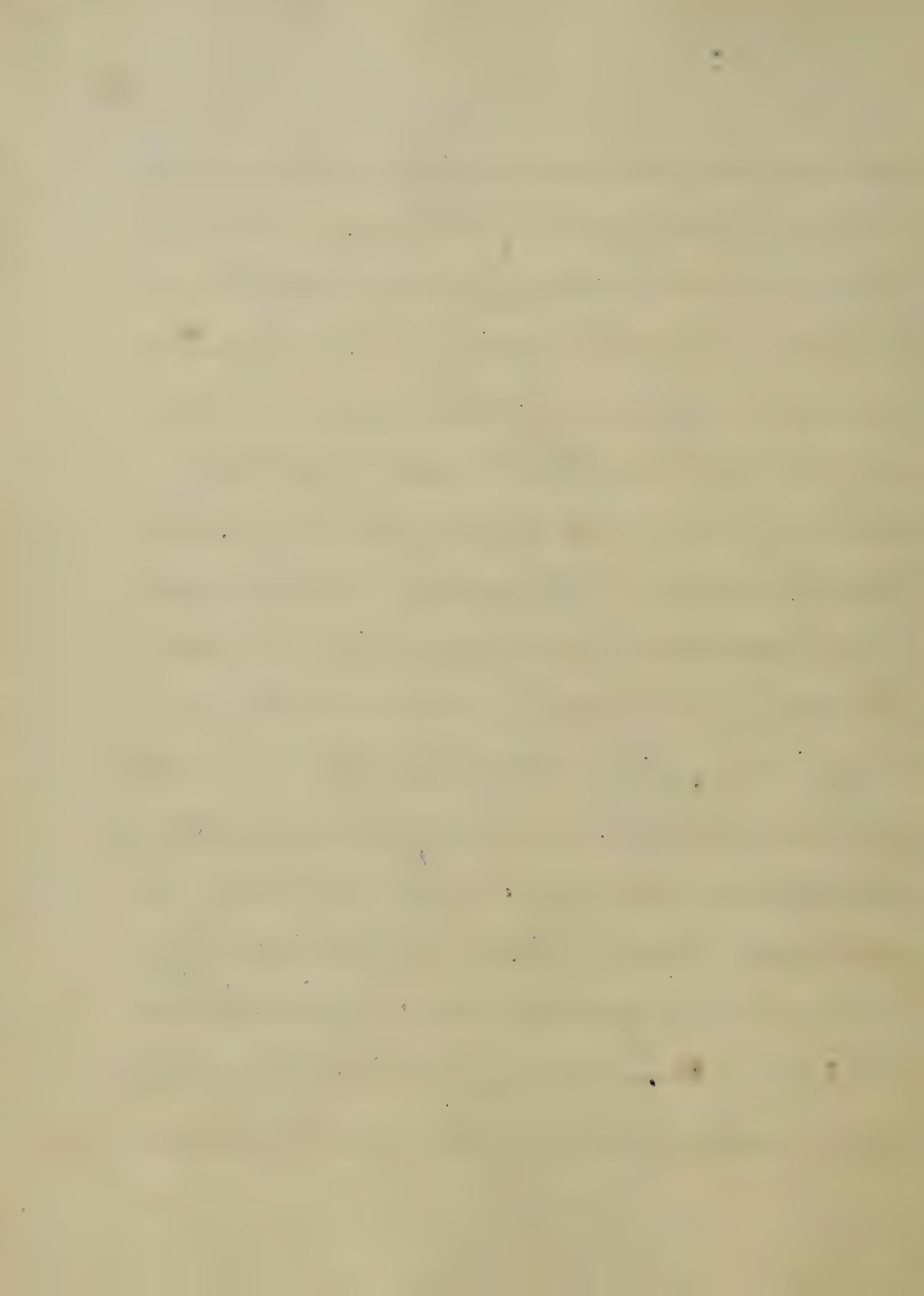
coexisting pleura effusion which occurs exceptionally is shown by signs already mentioned. Under circumstances of this character the affected side may become more or less atrophic with an obliteration of the intercostal spaces, and then an obvious contraction of the chest - may follow recovery "Bognosis" The prognosis in acute pneumonitis will depend upon the extent of lung involved, also upon the disease with which it may be complicated. The previous condition of the patient & these circumstances will affect considerably the gravity of the disease. Occurring as a primary affection limited to the lower lobe and complicated with any other disease in a young and previously healthy person - many favorable circumstances with judicious treatment should always occur. Even if more than one lobe be affected if the disease be primary and uncomplicated and the patient not enfeebled by age, or from any other cause.

a favorable termination may be expected. The gravity and danger of the disease in some cases proceeds not so much from the disease itself but from coexisting circumstances developed in the course of some other disease as continued fever measles or organic disease of the heart which lead to a fatal termination. In aged and feeble persons it may prove fatal without the existence of any other disease as a complication especially if more than one lobe should be affected. The unfavorable anatomical change pertaining to the lung are "gangrene" abscess and the suppurative stage of the disease. Yet cases have recovered after the occurrence of all these malignant conditions some of the symptoms which are unfavorable are the following. Frequent and feeble pulse great frequency and labor of respiration: Cachexy of the countenance: an abundant purulent or mucous purulent expectoration: bloody dark colored

Syndrome commonly known as the Typhoid juice spectrum active violent delirium: low muttering delirium with great prostration generally characteristic of the Typhoid state and is often denominated as Typhoid Pneumonia. When convalescence takes place in this disease it generally progresses until recovery is complete. The tendency to pass into the chronic form is the most frequent sequel. Sub-exsudative affections, sometimes even acute this is may follow pneumonia in persons predisposed to this affection "Treatment" The different stages of the disease furnish different therapeutical indications. The question whether it is within our power to cure, arrest or arrest the disease relates altogether to the first stage; after this we can only assist nature to recover. The practice in this affection has been greatly modified from what is done during the time of the founders of our science. The practice of blood letting and the other active.

Antiphlogistic means have fallen almost into disuse except in a few cases. Those means which are thought to be effective, however, have in the hands of the modern practitioners of ~~medicine~~ almost entirely failed. If we admit that they sometimes succeed, the probability of success is so small as not to warrant their employment under circumstances which will be likely to render this operation hurtful if they do not prove successful. The objects of treatment are to diminish the violence of the inflammation, control symptoms, and place the system in a condition to tolerate the disease. Venesection in certain cases as a palliative and also as a curative measure to some extent - and in view of the promptness of its action is admissible. When the pulse denotes increased power of the heart's action and a condition of plethora this remedy may be resorted to.

It is contraindicated when there is not so much from the pulse denoting activity without power and the patient anemic or having a feeble constitution. In those cases in which it is admissible the same end can be obtained by other remedies the latter are to be preferred. These consist of depletion & saline purgatives and the use of Sedative remedies. After the operation of the purgative if the skin remains hot and dry and the pulse frequent we may administer some of the Sedative remedies which are thought to exercise a controlling influence over the heat's action. Prominent among the best is the Veratrum viride: this is quite a popular remedy in the hands of some physicians: while others object to its use, this agent should be given with tinct
bals which is said to counteract the prostrating effect without lessening its value. Of course



These remedies are not called for if the symptoms are not urgent and there is much febleness and depression. Opium may be given with propriety in doses sufficient to relieve pain and tranquilize the patient; a large blister applied over the chest - above - the 5^m 6^m or 7^m day of the attack is generally useful. We may also employ with advantage dry cups "Sinaheus" or stimulating liniments, warm fomentations and poultices. Bloodletting by the arm should never be employed more than once and never later than the 3rd or 4th day. Blood not according to the amount of blood taken but according to the effect on the system: In the third stage the supporting treatment is required such as grimea, Carbonate of Ammonia together with Crocus oil Chloride of Lime and the mineral acids.

21

but less. Practitioners of the present-day pride themselves upon having discovered the "modus modandi" in stimulation and no doubt they are as extravagant in their views as others have been in the employment of depleting measures. But contrary to the general opinion some few, at present-day are still strong advocates of bleeding. Dr. Williams being classed among them. Dr. Bennett says that bleeding is rarely indicated and when employed the amount drawn should be small not exceeding a few ounces. Dr. Ladd advises counterirritation of turpentine applied over the thorax is very beneficial, purgatives should be given and the patient invigorated by the use of tonics and stimulants in combination with diaphoretic and diuretics. Dr. Ladd

considers all diseases "sthenic" and the treatment should be regulated accordingly. Dr. Northern recommends hygienic regulations in a majority of cases; he furthermore says I do not bleed because of the presence of a fine erhi-lain-take but to allow vascular excitement; but as a general thing I do not bleed. Nitrous fumigations during febrile excitement, after the subsidence of the febrile symptoms active treatment should be discarded. The patient should eat nourishing food, and stimulate if necessary. In warm weather the patient should be kept cool and comfortable but not exposed to a draft. The patient should wear flannel next to his skin if the weather be not warm. In the early stage with considerable febrile excitement and full pulse increased diarrhoea will be seen. Digital bleeding should be resorted to, to relieve

22.

the measure and prevent further exudation

Oil Paint

Oil Lamp

22

to the
Emperor & Empress
of Russia
and the
Government
of the
United Kingdom
and
the
Government
of the
United States
and
the
Government
of the
French Republic
and
the
Government
of the
Kingdom of
England

July 1871.

The
Graduation of the
Student admitted to the
Degree
of the
Bachelor of Medicine
and
of Chirurgery
of the
University of
Edinburgh
for the degree of
Master of Medicine
by
Joseph R. Briddell
of
Edinburgh Scotland
Session 1871 and 1872

and the body may be
supplied with a constant
stream of gas which gradually
and imperceptibly; this
constant supply is rendered
necessary in order that
the waste, to which the
various tissues comprising
the organism are subject
may be supplied, and the
utter destruction of the
living substance prevented.

The medium in which
these materials are conveyed
to the tissues for their
application varies in

different organisms; in the
lowest forms of living
matter with which we
are acquainted, there is no
real distribution of the
nutritive material, but
each separate tissue absorbs
its own nutriment from
the medium in which
the living matter exists;
advancing to a higher state
of organization we find
the nutritive material
distributed throughout the
substance of the living
mass, by minute tubules

and by slow readings
of the words of the speech we find these tables
composed on signs of becoming,
tubes) and covered with
a contractile force which
seems the surface of facing
the materials necessary for
nutrition throughout the
entire length; finally we
reach near the tip-top type
of a living organized being,
and here we find all the
propelling force situated
one in muscle against the
body, which goes on

liped or unlined, the
walls of which it fails
to penetrate, without infil-
tration, but these vessels are
not merely tubes allowing of
the passage of the liquid blood
through them but they exert
upon the blood a force
which alter materially the
character of the current as
it passes along them. This
arrangement of blood and
blood-vessels is not confined
to man, but is found also
in the higher orders of
animals.

seen the before of a large
purple, or a yellow, or white
organ, cardiac in shape; it
is situated obliquely in the
cavity of the chest, its base
is behind the sternum, and
its apex, being often very
low, feels strikingly the
left side of the chest at
the fifth intercostal space,
and about one inch an-
ders from the edge of the
sternum. The heart is with
a double organ & with
there are two distinct

and during a further t
left a pocket to itself
which we found together
for the purpose no doubt of
economizing room and
material; indeed in so
animals there are two parts
distinct in every respect
the one from the other.

The muscular fibres of
which the tail is so largely
composed, may be separated
into a number of layers
the external ones running
spirally around the axis
from base to apex, while

The deeper seated encircle the
midrib circular bands.
Surrounding the band is a
short sac; called the
Vesiculation, which allows of
the hair to pass through
within, at the same time
that it moistens and protects
it. Into all the bands are
divided into four cavities,
two on the right side and
two on the left, in each
one of these cavities are
found at the base and
two at the apex, there are
the right side being only

separated from those and the
lft. will be of the l.
the two cavities are called
auricles one for each side,
there at the apex the
ventricles of their respective
sides.

Like all other muscles
against the heart is contractile
with the power of contraction,
but it differs from all others
in the body by the uniform
exactness with which its
contractions and relaxations
take place, and by its
unceasing activity. What is

it that causes the continued
activity of the heart to cease
to receive a stimulus from all
communication with the body,
upon the application of
nitritur it will be observed
contract and dilate in its
accustomed manner for a
considerable length of time;
and to explain this phenomenon
it has been
supposed that the young
arteries distributed through
the heart to substance receive
the stimulus sent to the
heart, and that the

can be made to contract and
relax as long as the centres
give the impressions they
have received this is I think
the best explanation that has
yet been given by Physiologist
to account for the peculiar
action of the heart & one of the
most perplexing and difficult
questions which the
Physiologist has at present to
answer is, what causes the
rhythmic action of the heart.
For want of a better reason
he says that the peculiar
mechanism in which the

contraction and dilatation of
the heart take place owing
to the inherent power possessed
by the muscular fibers constituting
the organ, and cannot be
accounted for any more than
the peristaltic action of the
bowels or any other involuntary
muscle. We must take this
substitute for a reason until
a nearer offer.

In looking at the alternate
contractions and dilatations of
the heart, we would say that
auricle and ventricle contract
and dilated alternately.

that the auricle dilated during
the ventricular contraction and
was massed, but such is not the
case as a close observation will
show; when the auricle has
contracted and thrown its
blood into the ventricle the
latter at once contracts upon
its contents, expelling them
with the effluent vesiculation
then dilates to receive a fresh
supply; now while the ventricle
is contracting and during the
first stage of its dilatation the
auricle continues to dilate, and
it does not contract a second

time until the ventricles become
fully distended.

The blood must pass through
the heart before it can be
filled for supplying the
economy with its nutrient
material; the course of the
blood through the heart is as
follows; the blood (venous) is
poured into the right auricle
from the venae comae, from
which it is thrown by the
auricle's contraction, through
the auriculo-ventricular
opening into the right ventricle,
which upon being filled

and causes it to pass through
the pulmonary artery into the
lungs; the regulation of the
blood into the vessels during
the systole of the ventricle is
prevented by the closure of the
tricuspid valve, which is so
constructed that the greater
the pressure of the blood the
more firmly does it close. The
valve is retained in its place
by the chordae tendinae; the
blood is prevented from
flowing back into the ventricle
during its diastole, by the
closure of the semilunar valves.

the same oxygenated & purified
passes to the left side, the
blood having been oxidized in
the lungs, passes along the
pulmonary vein and empties
itself into the left auricle by
the contraction of which it is
thrown into the left ventricle,
which contracting upon the
blood thrown into it sends
the material prepared for
respiration throughout the
whole economy. Thus it is that
the impure blood is first
carried to the right side of the
heart from which it is then

relax & the lungs for prop-
erly, after which it passes
to the left side of the heart to
be sent through the body for
the supply of all the tissues.
On placing the ear against the
chest of a healthy individual
just over the space occupied by
the heart, two distinct sounds
may be heard the first dull
and prolonged, the second quick
and sharp; the former is best
heard at the apex, the latter
at the base of the heart. It
was a doubtful question for
a long time, and is not

I will not tell what it was
that produced the first sound
the cause prepared and effected by
Physiologists now, numerous is the
pushing of the blood through the
auriculo-ventricular opening
impulse of the heart against
the chest, the flapping back of
the Tricuspid and Mitral valves;
it is probable, however, that the
greater part, if not the whole of the
first sound is produced by the
flapping back of the auriculo-ven-
tricular valves. The second sound
of the heart is produced beyond no
doubt by the closing of the

... lives. It will be necessary in auscultation to continue listening at the base for the second sound and at the apex for the first sound of the heart. The first sound is synchronous with the radial pulsation. The number of the heart's pulsations varies greatly with the age, sex and temperament of the individual, and also in the same individual at different hours in the day, and according to the position he assumes. In the infant, the pulse will show an average of 95 or 100 beats per minute, while in the old,

it will not average more than 60 or 70. The force with which the heart contracts is estimated at about 4½ lbs.

After leaving the left side of the heart, and entering the arteries, the blood by the divisions and subdivisions of the great vessels is conveyed throughout the entire organism.

The arteries are tubes allowing of the easiest and most economical distribution of blood, at the same time conveying it to the various tissues and organs by the shortest and most expeditious

and into soft tubes, nearly
transparent to transparency, one of the
most important characteristics of
these animal vessels is their plian-
tibility; they are not solid as the
bones, forming dense unyielding
tubes serving merely the mecha-
nical purpose of allowing a
liquid to pass through them, no-
yet are they semirigid as cartilage
and tendon permitting an in-
crease of their calibre only under in-
tense pressure, but they are
yielding and elastic, allowing
the nutrient fluid not only to
pass through them, but also to

some time exercised a very important influence on the rapidity and character of the current; if it were not for this peculiar action of the vessels themselves, the circulation of the blood as it should be would be impossible.

The arteries are composed of three coats, a cellular or external, a muscular or middle and elastic and a serous or internal; each one of these has a function to perform peculiar to itself, and the combined action of the three is necessary in order that the blood may be properly given to the tissues.

for the blood for each
it own material. In the main and
larger arteries the yellow elastic fibers
predominate. over the muscular; in
the smaller arteries the reverse is
observed, namely the muscular fibers
are more abundant than the elastic.
When the blood is thrown out the
vessels from the heart the stream is
an intermitting one, that is the
heart does not by a steady pressure
force the blood in one continuous
stream through the vessels, but by
its successive contraction and dilatation
expels the blood in jets there-
by rendering the stream intermitting.

nowhere the force with which the
heart acts causes the blood to
flow swiftly through the vessels,
given off by the heart at the rate
of about 12 inches per second. Both
the intermittence and swiftness of
the current are of themselves
sufficient to thwart the whole
object of the circulation, for the
tissues cannot be nourished unless
the blood flows in a continuous
stream and with sufficient slow-
ness to enable the material which
it contains to be absorbed. The
first of the conditions is obtained by
the elasticity of the arteries. If

water be thrown by a current sent
forward through an iron or other
solid tube, it will issue from
the fair end of the tube in the
same manner in which it
entered by successive jets; but if
the solid substitute an elastic tube
(and mark the difference), the
water no longer escapes in suc-
cessive jets from the exit end
of the tube, but in an almost
continuous stream, which will
be entirely continuous only
when the elasticity of the tube and
the fluid flowing through it are
accurately adapted to one another.

lying this principle to the
action of heat & cold, con-
founding their activity they can-
not convert the intermittent stream as
it issues from the heart into
a continuous one as it enters
the capillaries. The blood is
now flowing in a continuous
stream, but it is moving too
swiftly for the tissues to absorb
from it their proper nutriment by
this swift current to fulfill the
conditions laid down above
must be modified. It is a law
in Natural Philosophy that a
liquid flowing from a reser-

at a broad channel when they
being equal move less and less
rapidly the broader the channel
becomes. The arteries after leaving
the aorta divide and subdivide
until they finally end in the
capillaries, so that the calibre of
the branches exceeds that of the
main trunk from which they
are given off. As the area over
which the blood flows, therefore
increases as the arteries divide
and subdivide, and as the same
law holds good in this instance
as in the one mentioned above,
it follows that the blood flow

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ing from the narrow channel
minutely) into the wider channel
(the external brach.) moves slower
and slower until in passing
through the capillaries it moves
at the rate of one $\frac{1}{12}$ part second instead
of 12 as it did in the arteries.
Thus we see the intermittent flow
converted into the continuous and
the bounding current into the
slowly moving stream; and now
and only now can the nutrient
from the blood be easily abso-
bed by the tissues. But even at
this it does not break the cir-
culation in the arteries as simple

and then in the regulation of the amount of blood in the vessels of the various organs of the body, when it is in active exercise, and which tends continually to keep the arteries filled with blood by diminishing or increasing their calibre according to the amount of blood which is necessary should pass through them. This regulation of the amount of blood performed by the muscular fibres of the arteries which by their contraction and dilatation serve to keep the vessels filled with blood, and the organs supplied

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the quantity of material they
cause. I could not but think of
various preparations of iron, zinc,
and copper which we are familiar
with their effect upon the vascular
fibres either directly or indirectly.

The blood leaving from the
capillary tubes must pass through
through a minute network of
vessels, called capillaries, the o-
wls to these changes, chemical
and vital, during which it gives
to the tissues their food and
oxygen, and receives back from the
the products of their waste and
decay. These capillaries are

The quantity of muscle number
and bulk which is compatible
with that of the external or so called
coat of the arteries, the diameter
of some of them are smaller than
the root corpuscles whilst in order
to pass through we compelled to
alter their shape, others again still
smaller exclude entirely the con-
fuscles and allow the plasma of
the blood to pass through them
alone, as in the cornea of the eye
and the crystalline lens.

The propulsive action of the heart
and the exercise of the frame
transcended by the arteries as far as

and the great vessels during
the evolution of the blood through
these minute vessels; but is there
no other cause which might also
influence the capillary circulation?
The capillary wall by its elasticity
and the tissues in which the
capillary ramifies do perhaps have
a modifying influence to effect it
between the blood in the vessels
and the tissues outside may in
a manner cause the departure
of the blood from the capillaries
into the veins, that is the blood
which has undergone the required
changes having no power to remain

may be stimulated by the heart
which is filled with material for
which the tissues are waiting
and which consequently has a
great affinity for them; these
and other causes may exert
their influence and no doubt do,
but the action of the heart is
perhaps the main agent in
driving the blood through the
vessels. When the increased flow
of blood to a part upon the
application of a stimulus is pro-
duced, it is due no doubt to the
dilatation of the small arterioles
or arterioles, which allows

more of blood & for this
there can be but one of
the capillary vessels; diminution
of the supply upon the appearance
of cold or other excitement is most
probably not by the contraction of
the same arterioles and not by
the contraction of the capillary
walls themselves. The blood flows
slower through the capillaries
than through either the arteries
or veins, moving at the rate of
one ft per second. The number of
capillaries ramifying through a
part depends upon the functional
activity of which the part is capable.

the greater that should be, the
must be the supply of blood and
consequently the number of tubes
& carrying the supply must be
increased. The amount of blood
which flows through these vessels
varies at different times and
under different circumstances, being
greater when the part is in a state
of activity, and less when it is
quiescent.

The veins, which are the last
system of vessels through which the
systemic blood has to pass,
present a marked contrast to
the arteries in many respects.

the function is effected, and
that the structure be. The veins
take their origin in the capillaries
and collecting the blood from all
parts of the system convey it to
the heart; while the arteries take
their origin at the heart and after
distributing the blood to all parts
of the economy, end in the
vessels from which the veins
originate: the veins have in
different parts along their course
valves supplied to them; the
arteries are utterly destitute of such
appendages: though the veins the
blood moves in a comprehend-

sanguiferous, in the arteries
the number of vessels
with sufficient tension causing
the impure and injurious blood,
the veins the pure and nutri-
tious. The movement of the fluid
along these vessels is caused in a
great measure by the heart's action,
but other influences, in all probability,
exert a power for the furtherance
of this object. The muscles by
their contraction pressing upon
the veins aid no doubt in forc-
ing the blood onward, which is
prevented from flowing back by
the closure of the valves with which

He will now have to consider that the veins fairly
empty, a vacuum is produced
which the venous blood must
rush in to fill up, thereby causing
the blood throughout the venous
system to flow onwards towards
the heart. The blood flows very
slowly through the veins, and
a very slight cause will suffice
to occasion the retardation or
complete stoppage of the circula-
tion through them, now to
prevent this blood from being
thrown back into the arteries
and from thence into the veins

The veins of blood will not
will remain open so long as
the heart continues to beat the
traction of the heart but let
the current from usy cause be
made to flow backward, at
once the valves close, and all
further backward movement is
arrested. The veins not only
contain the effete material cast
off by the various parts of the
body, but all the nutritious
material must first pass
through these vessels and be
carried to the various organs for
purification before it can be

to obtain and to maintain
a balance for the evolution.

We have thus far traced it back
throughout the system from the
heart back to the brain again,
during which it has passed
through three distinct sets of
vessels, the arteries, capillaries
and veins, each of which has a
peculiar office of its own to per-
form and the action of the three
makes one of the most beautiful
and harmonious productions of
nature. - The arteries convey the
blood to the capillaries, the
capillaries serve as reservoirs

the vessels the tissues have
their supply and back which
they cast the products of their
waste and decay, while the veins
take up this effete material and
carry it to the organs by which
it can be either eliminated from
the system or altered so as to be
fitted for nutrition. Having
thus reviewed the Systemic
circulation, we will briefly
glance at the foetal circulation,
which differs in a marked man-
ner from that of the newly
born infant.

In the adult the blood after

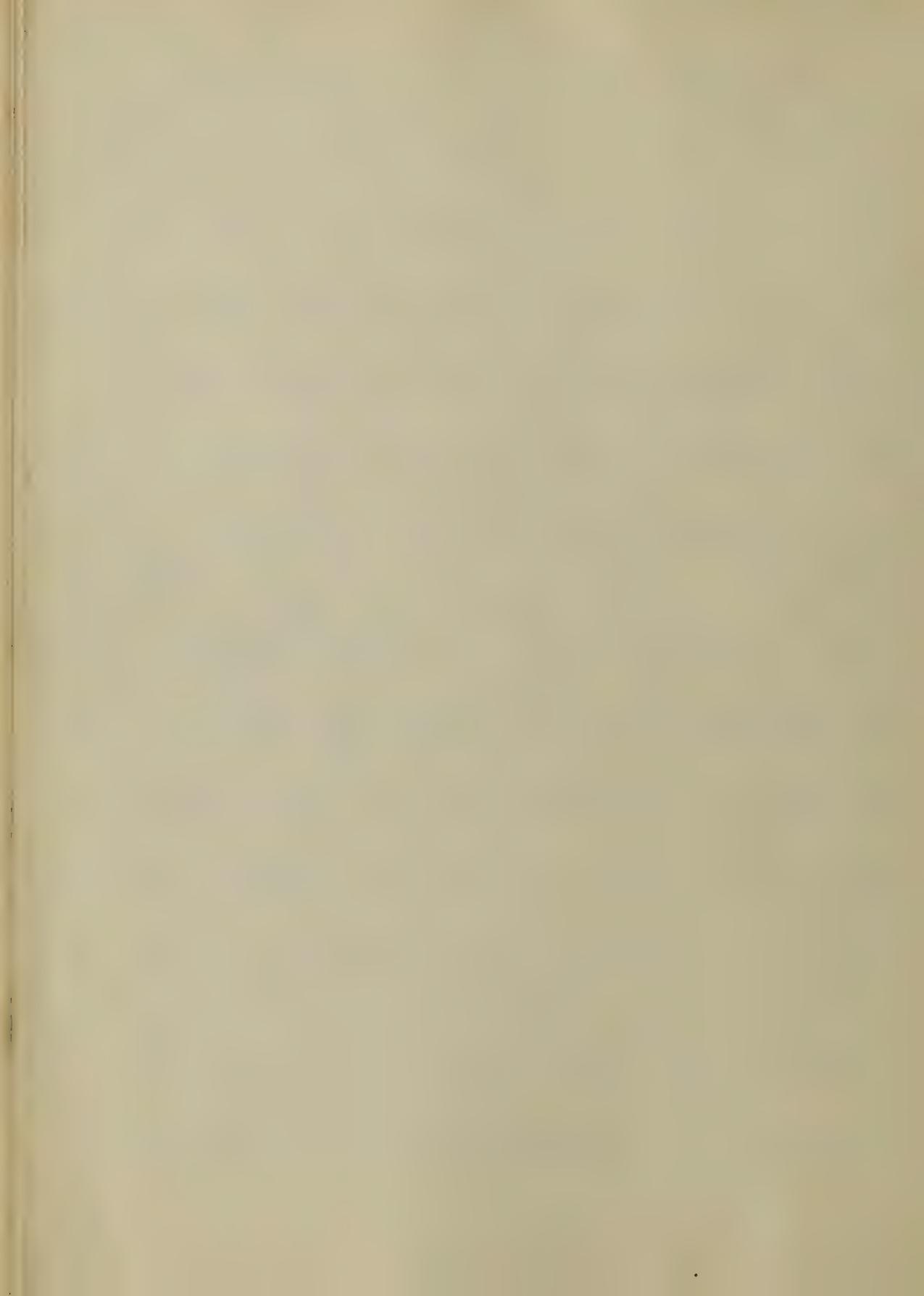
respiratory organs do not con-
cerned to the lungs for purification.
This purification which is effected
by the respiratory process, is so
essential to life that its suspen-
sion for but a few minutes
will cause the death of the in-
dividual. In the foetus the lungs
do not perform their function,
they are quiescent, and it is
not until after birth that their
activity commences; such being
the case, and the purification
of the blood by contact with
some fluid containing oxygen
being so essential, how is it

that the foetal blood is perfectly
prepared for respiration. The
placenta is now generally
acknowledged to be the seat of
the foetal respiration and it
is by the circulation of the blood
in it that the necessary changes
are brought about. The mode
of respiration being thus
altered, causes some change in
the foetal circulation, different
from that in newly born
children. In the first place the
foetal heart is placed nearly
perpendicularly in the chest;
between the two auricles

base of the heart is an opening (foramen ovale) guarded by a valve, which serves a very important purpose before the child is born, but which did it remain long after birth would cause the Infant's death. In the second place the manner of the distribution of the blood varies in a striking way from that of the adult. The following is the course of the blood in the fetus: Being purified at the placenta, the blood flows along the umbilical vein, part of it to be distributed

to the lung the rest of you along
the arteries goes to the heart, he
never runs; having got out the
venous veins the blood flows also
this vessels and is passed into
the right auricle of the heart.

now as which it flows through
the foremen auricle and into the
left auricle, then into the left
ventricle and finally by the
ventricle's contraction it is sent
into the aorta to be supplied to
the head and upper extremities.
The blood returning, as venous,
from the head and upper
extremities enters the right auricle

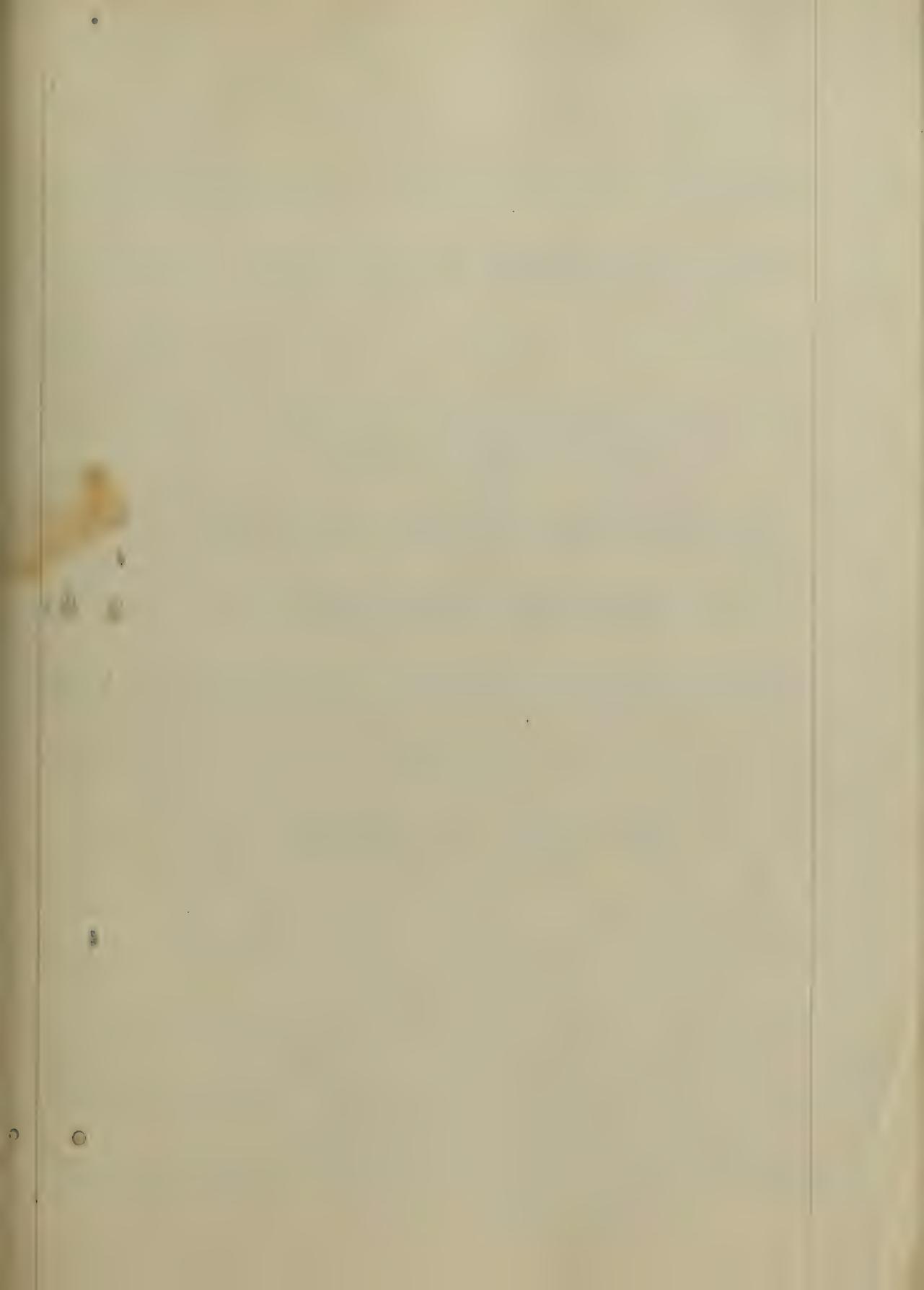


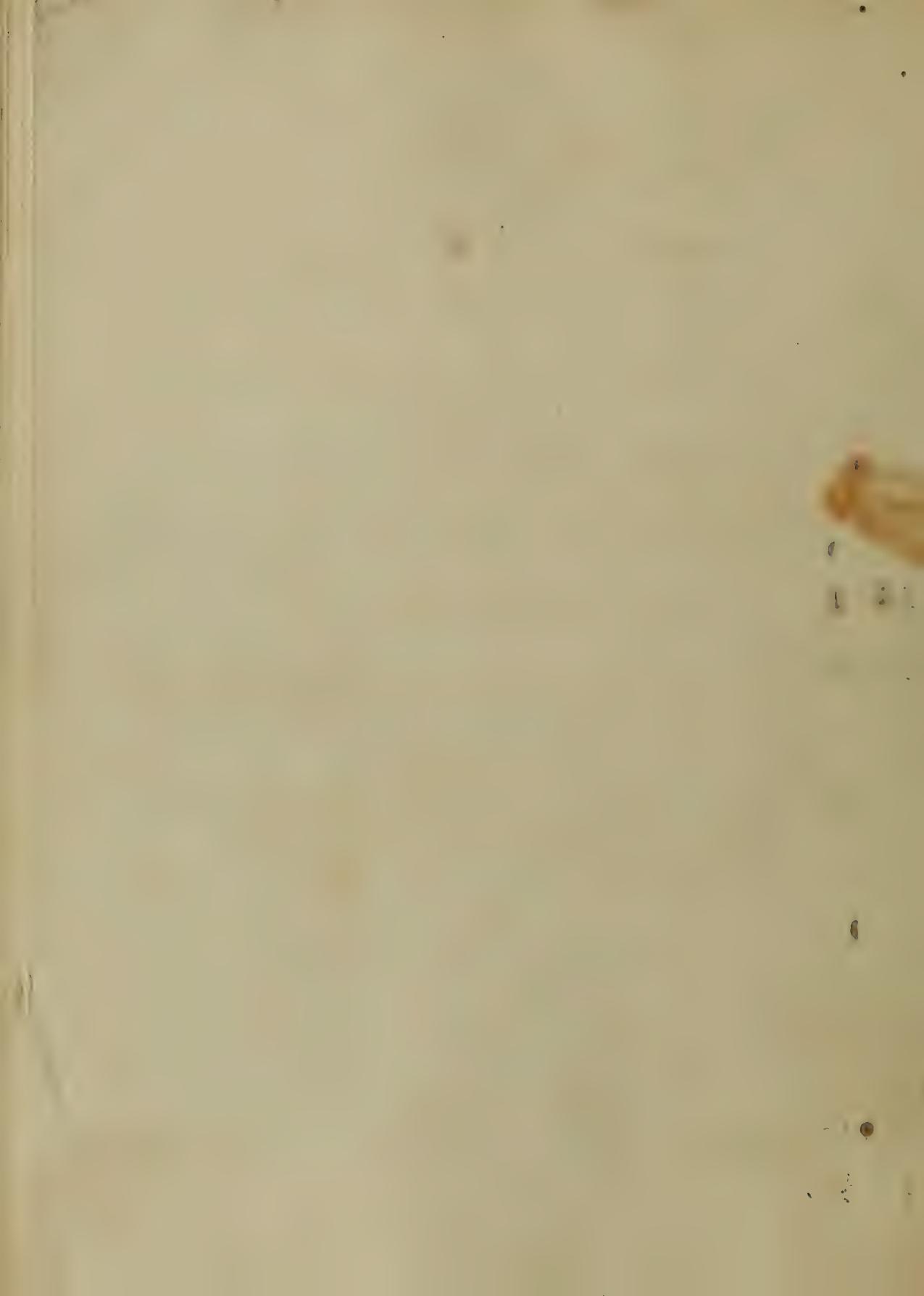
and the other portion to
be suddenly increased, and it
increasing in any case moves
with it, and flows into the
right ventricle. This ventricle
throws the contained blood
into the pulmonary artery. This
artery does not carry but a very
limited supply of blood to the
lungs. The principle part of the
blood which enters it flows out
into the aorta through the ductus
arteriosus which opens into the
great vessel just below the
entrance of the blood coming
from the left ventricle.

blood is then distributed in
part at the time when it is sent
principally to the placenta for
purification. The blood of the
foetus is as we see a mixed
blood, there being no absolute
arterial nor any wholly venous
blood, but both seem mingled
in different proportions in
various parts of the body.

We have thus traced out as
brightly and as concisely as
possible the circulation of the
blood in the adult and in
the foetus in utero, both of
which are most beautifully

and ~~now~~ mainly ~~now~~ and
for carrying off the great
surface for which they were
formed namely the carrying
of a continual supply of blood
for the growth of the tissues
and the acting as a ~~substance~~
collecting and removing all the
effete and poisonous material
from the system. - The Partial
Circulation it is impossible for
us to enter into as we have
now far nothing our cellular
space.





afforded J.C.

A N
Inaugural Dissertation

ON
Menstruatione

Submitted to the Examination
OF THE

Provost, Regents and Faculty
OF

P H Y S I C ,
OF THE

UNIVERSITY OF MARYLAND,

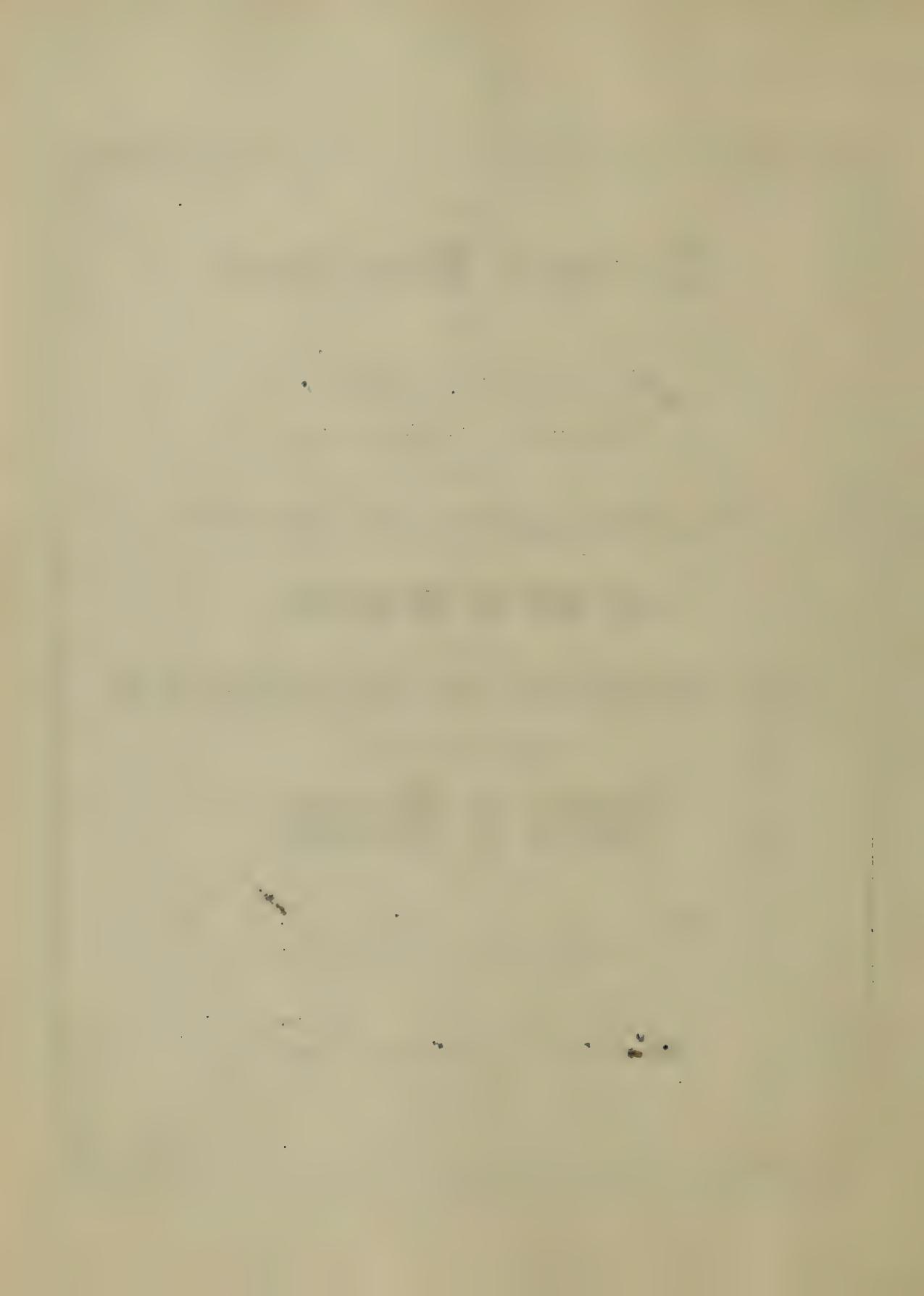
FOR THE DEGREE OF

DOCTOR OF MEDICINE,

By
A. Sarcoant. Finch.
OF
Baltimore. Md.

Session of

18⁵¹. + 18⁵²



"Fathers and mothers at birth, and
delived by nature to give us existence
and to possess in afterwards by re-
tention and watchful care, woman,
the most faithful companion & may
may we gain by the very confidence
of the benefits bestowed upon us by
the Divine Being, as an object of their
excite our vigorous intellect, and
presenting to the philosopher, as well
as to the physician a vast field
of contemplation."

Menstruation

Menstruation is, as the word implies,
a periodical flow of mucus mixed
with blood, from the
genital parts; having its source in
the walls of the uterus.

It is commonly known under the
following names. Courses, Periods,
The monthly sickness, Flowers, &c.

To such appearance, indicates that
the girl has reached the period
of puberty, and, is now capable
of bearing children.

The reproductive faculty divides the
life of the female into three stages,
which are distinct, and separate.
In the first the Faculty is dominant,
in the second it is that of life.

And in the third it gradually disappears.

The duration of the first period, has some influence on the other. Look for instance, if puberty comes on at a very early age, say eight or nine years, the girl is a woman before her time, and becomes so to speak abnormally old. —

During the first period (from birth until the first appearance of the courses) the organs which are destined to take part in the phenomena, are gradually developing themselves; in the second they become perfectly formed, and ready to perform their function, which they faithfully discharge if not prevented.

until the union of the mind, and
last period, in which their functions
cease, and they gradually become
~~in~~ extinct.

But, before the age of puberty, young
girls enjoy a short period of
pleasure, and happiness, sometimes
seems bright, and cheerful before
them, with no cares nor trouble.
They sing, and laugh, as they proceed
along the flowered path, up to the
age, when nature calls on them, for
the tribute which they owe to the
species."

The young girls, who, until now was
almost a novelty, became a
fully developed woman.

The signs which you will find different
specially from those of the male, increase
in size in every direction; the breasts
are rapidly developed; the outline
of the body become full, and rounded;
her voice becomes soft in tone; her
looks are more timid, and embarrassed
in the presence of her friends, and
playmates; she shuns the society of
mankind, and seeks solitude on
the signs of jealousy, and desire,
which she cannot yet understand;
her character, inclinations, taste,
habit, and in fact every thing
connected with her, seems to point to
the arrival of a woman.

The body grows larger, bivens and at
the flowers, and this brilliant metamorphosis
is signalized by the rosy tint of the
cheeks, and lips, and the perfect
development, which discloses the
arrival of the age of puberty.
But, does this change take place
without any trouble or pain on the
part of nature?

In strong healthy girls, there is very
little trouble caused by the appearance
of their courses, but these cases I
am sorry to say are "few and far
between."

In the majority of cases, just as the
girl is entering puberty, she puts on
corsets, (very good) things of probably

worn, but terrible if put to a wrong use,) and commences to draw in the waist, which throws the weight of the internal organs down upon the congested uterus, and in nine cases out of ten throws it out of place. It is a sad, but well known fact, that out of all the women in the world, nearly one half, have more or less displacement of the womb. About this time also the young give ~~more~~ ^{less} enter society, in which she plunges into all sorts of dissipations, and engagements, often for weeks at a time, not going to bed before two or three o'clock in the morning, and then only getting a few hours of disturbed

sleep; Is it any wonder, that the girls
of this period become old women,
before they are twenty-five?

The symptoms generally presented at
the appearance of puberty are as
follows - The young girl complains
of a general feeling of weakness, and
lassitude; of a sensation of swelling
in the lower part of the abdomen,
of pain in the back; of weight, and
heat in, and about the loins; of more
or less itching, and swelling of the
genital parts; and a painful
swelling of the breasts.

The countenance has a languishing
look; the cheeks are pale; the eyes
dull, with darker lines underneath;

The hand, feet, foot-mast, and nose will
more or less blanch around the nail.
The most of these symptoms appear
at each monthly period.

At this time girls reading late cold;
soon become fatigued, and are so
the most part sensitive, sad, timid,
irritated, or subject to queer notions,
which claim not only indulgence,
but the tenderest consideration,
from those with whom she may be
thrown.

In many cases the excitement is so
great at the appearance of the
courses, as to produce fever, and
some say that the first appearance,
is never unattended by fever.

The symptoms just described last from one to eight days, and are followed by a discharge of mucus. This shortly after, becomes mixed with blood, and finally becomes a flow of almost pure blood; this continues for several days, and then gradually ceases.

Sometime the flow (having been established) comes on with out any feeling of discomfort, while the girl is walking, dancing, riding; or even during sleep, but this only happens in rare cases.

In most cases the flow ceases after the capse of twenty-eight days, and continues in the regular manner,

nursing or pregnancy only, interfering with the time of re-creation, forty or fifty years.

Menses usually appears between the age of eleven, and eighteen years; warm climate, residence in cities, and strong constitution, favor early development; while cool climate, country life, and weak constitution, seem on the other hand to retard its appearance.

The duration of the flow varies from one to eight days, commonly lasting three or four days, though on this point there is no fixed rule.

The quantity of blood not depends upon the life, habits, diet, and climate

to which the individual may be exposed. Some women ~~lossing~~ a larger amount, while with others, the use of the napkin is hardly necessary.

The flow may stop for several hours, or even for one or two days, and appear again under the influence of a ride, or long walks &c.

Moral emotion, indigestion, and above all the action of cold may determine the temporary or final cessation.

The seat of the flow has been proved beyond doubt, to be in the walls of the uterus; but more often no one surface has been the seat in a few cases, but such may be set down as varieties of abnormality.

The cause after many years of discussion,
has at last been determined to be the
ovulation of a Graafian follicle.

In Graafian follicles of the human female
are analogous to the eggs of the fowl.
They are found in two organs situated
one on each side of the body, called
the ovaries. A microscopic examination
has shown, that in the ovaries of a
healthy woman at 18 or 20 years, there
are some 700,000. ovules or eggs, in
all of which, should become developed,
it would require but one woman to
populate four cities like Geneva,
Marseilles, and but two to people the city
of Paris.

Until the age of puberty these vesicles

of small size, but at this period some of
them increase in size, & are forced from the
surface of the ovaries. At a short interval
period one or two of them attain the size
of a cherry, rupture, and are thrown
off, being discharged about the middle
or latter part of the flow.

The hemorrhage which takes place is
exactly the effect of the convection, in
the walls of the uterus, caused by the
foregoing phenomenon.

The time of menstruation does not have
and a fixed date, but why it should
return every twenty eight days is, and
ever will be unknown. Some, have
tried to prove that the change of the
moons, had something to do with the

regular occurrence of the flow, and that consequently all women were unwell at or about the same time,* which view we know to be false, - I think about the best, and only answer we can give to the question, is the child's "because".
From what has been said, it will be readily seen that the appearance of menstruation may be a very critical period in the life of the female, in the third stage or that of cessation is also considered, by many as very critical, but statistics prove that such is not the case.

Now, it is the young girl needs counsel and advice, with a little care she may become a neat, fair, and happy

* Menstruating at each full moon this is thought by many outside of the profession -

creature; and with a little carelessness
she may ruin herself for life. ~
Most girls, brought up with no knowledge
whatever of themselves, when the flow
first appears become frightened, and
supposing they have been injured in
some way, do all in their power to
stop the "bleeding". ~

Often for the sake of pleasures, and
on account of the inconveniences which
these courses entail, and soon advised
of older girls, (not worthy to be called
women), proceed to stop them by cold
applications, acid drinks &c, as soon
as they appear.

By so doing, they not only run the
risk of sudden death, but thereby

of bringing on diseases, which may
sooner or later end in death. —

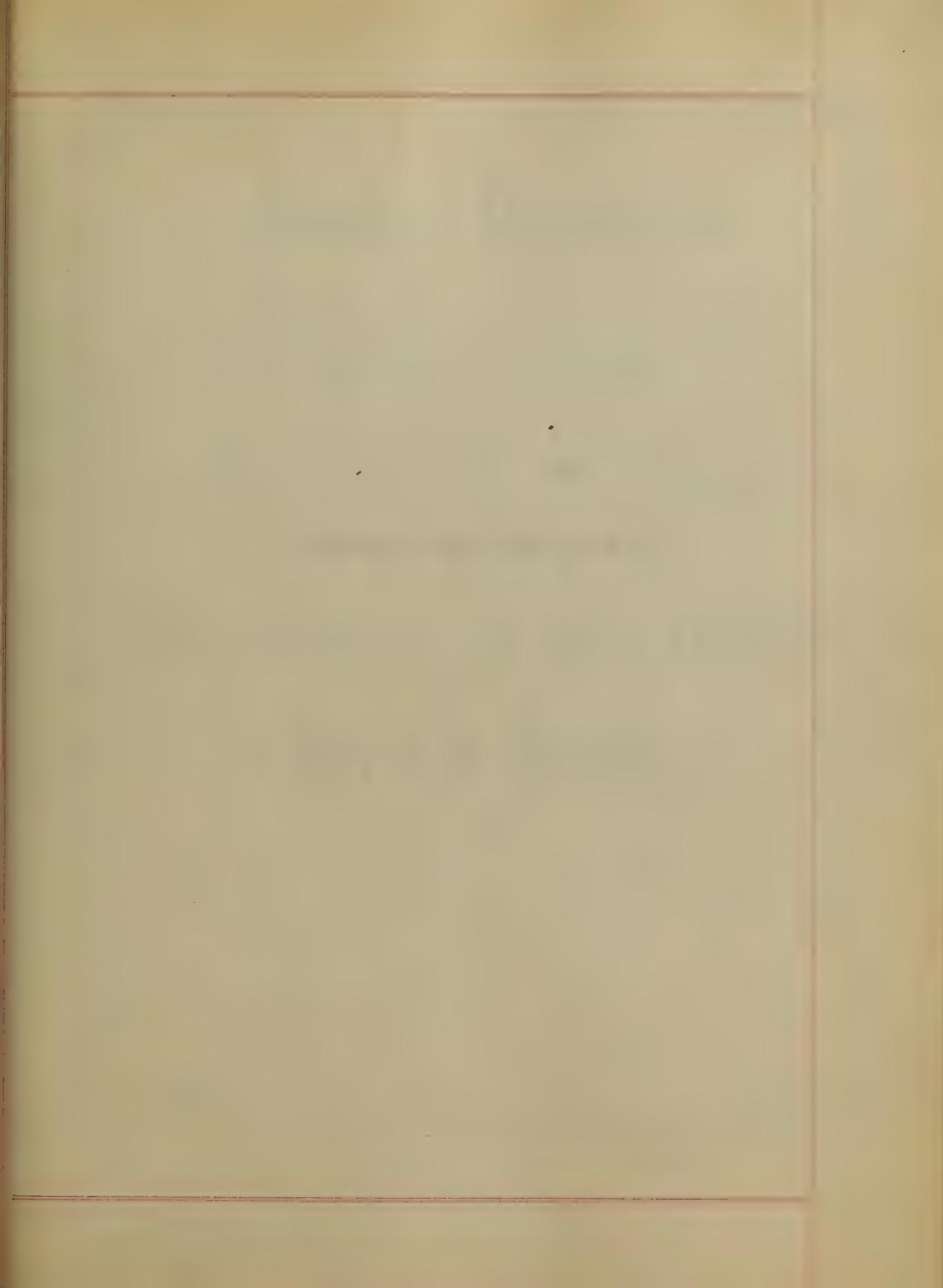
I am sorry to say that in many cases
the fault lies with the mother; they
partly from fear of frightening their
daughters, and partly from false
modesty, neglect, and see them
suffer, when by a few words, if
spoken, they might relieve all their
fears, and in this way have many a
one friend ruined. —

Let the young girls know in the beginning
about themselves, and I venture to
say, it would not be many years,
before it would tell, in the general
improvement of society, and in this way
lessen the number of fallen women.

There is an old saying, "A little knowledge is a dangerous thing," it may be so in some cases, but the want of that little knowledge has caused many an hour of trouble, and been the ruin of ~~more~~ a few women.

These last remarks may apply also to boys entering puberty; it should like to know how many fathers, ever speak to their sons on this subject? not many! What they learn, is by experience, or from the talk of wild companions.

Respectfully submitted to the Faculty
of
The University of Cleveland
A. S. Yingst



A N
Inaugural Dissertation

ON
Typhoid Fever

Submitted to the Examination
OF THE
Provost, Regents and Faculty

OF
M E D I C I N E,

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

DOCTOR OF MEDICINE,

By
Charles Julian Threlkeld
of

Baltimore

Session of

1871-72.

Typhoid Fever.

Nerves give out no fever or abdominal typhus - belongs to the acute infectious diseases and the symptoms of this disease have a certain resemblance to the symptoms of the exanthematic typhus, but the belief that the latter is a simple and abdominal typhus a complicated form of the same disease is erroneous according to the best authorities.

The causes of Typhoid fever are very obscure, it may be propagated by contact or have a miasmatic origin, infection of hydrogenous dust impurities of water, as it appears that has connection with sea or

all found to generate and spread the disease.
The susceptibility to infection varies greatly
in different persons according to their
heredity which age condition of life and
constitution exert no small influence. Persons under
the age of 20 are more liable to be attacked
than infants or the aged, males often
than females and except in rare cases
no child escapes the susceptibility.
In the majority of cases of English flux
the evident commencement of the disease
is preceded for days or weeks by indefinite
or obscure symptoms which make it
difficult to determine the exact nature
of the malady. But after the disease has been
staged closely they are of great diagnostic value

in distinguishing abdominal typhus from the diseases that begin more abruptly. Malaria, headache, dizziness, characteristic pains, loss of appetite, and often repeated spasms, precede generally the onset of the disease. As soon as the first chill occurs during the prodrawal, we may consider that the disease, vapor has begun, but the child is never so severe as in intermissions fever or prodrawal.

During the first week the patient generally gets regular attacks of headache, dizziness on rising out of bed, his sleep is disturbed by dreams and there is an unrelaxed tendency to diarrhoea. His countenance assumes a dusky hue, his tongue

is formed with a thin whitish, epithelial
coating with small red papillæ, ^{the} ~~the~~
which gradually falls off leaving a
smooth surface. At such intervals
the ulceration is somewhat puffed out and
under pressure, especially in the
right side region.

If there has been much diarrhea, re-
move a pressure over the right side
fossa a gurgling sound the so called
ileo-cecal gurgling which is of diag-
nostic value. It is often accompanied
of a low cough, and the urine is high
colored and concentrated.

If the patient's pulse becomes too
slow in proportion and diuresis too

drinking freely the salivation of course
is not diminished. At first
At the end of the first week the salivation
of the sphen is generally absent
the most important symptom is the frequent
frequent passage of the body wastes of excre-
mation in a manner almost pathognomonic
of rabies and狂犬病. During the first
week the evening temperature is nearly
two degrees higher than that of the morning.
The morning temperature of the next day
is frequently the same that of the pre-
ceding afternoon. But at the end of the
first week, occasionally there is a rise
of temperature during the day, but still the
morning temperature is always the same.

more than that of the normal pulse,
the pulse is to double and even
more, and we often notice that the first
acceleration is followed by a weaker one
the pulse beats double and is called diastolic.
In the beginning of the second attack
small red local spots begin to make
their appearance over the epigastrium,
and in some cases even about one
fourth of the thorax and the back.
These spots disappear under pressure.
The pain in the head and limbs comes
but dirigiss remains and becomes more
and is accompanied by dryness.
The countenance assumes a pale, ashen
and dull expression, there is a loss

nothing delicious is more easy
than, just as in difficult things
round them, the delicious is of the
most exciting character, making it
necessary to restrain them by physical
force. The banal is productive of the
difficulty, I remember and often it is
graduated like, judicial forms & when
it is banal, and has to be remanded of it,
and would do this also.

ward the end of his second week
he passed very often with his stools
and urine in bed, he evidently did
not conceive the necessity to emit his
bladder and return. The physicians
had the other of forty eight hours

The operation suggests a bad tumor -
deserves food; the tumor body is
yellowish brown or bluish; the eyes are
half closed; the nostrils are slightly blocked;
and there is a thick, brown, mucous
coating of the teeth and gums. Further,
the tongue is covered with a brown
dry crust which sometimes covers
leaving the tongue sore, and the
crusting blackish looking from the
admixture with blood. The con-
position of this crust causes a very
disagreeable odor.

In the related muscles caused by
excessive workiness we often find
single fasciculi contract the so-called

and the head.

The belly is usually subject to the
irritation mentioned in the first division.
In the third part of typhoid fever
the somnolence and stupor reach the
highest degree and the pulse becomes
excessively weak. The delirium and
excitement give way to increased
stupor and indifference. In the
kickings at the bellies, though
more occurrence, the feces and
urine are passed almost entirely in
blood. The thoracic and abdominal
symptoms increase. The breathing
and pulse become more rapid
and the irritation and division

very decided.

The vesiculae show about this time some
dark and pale bodies sometimes called
their appearance. They vary
in size from 10 - 14 a her minute, and
in some rare instances may be
even below the normal standard.
In some patients we find a desire
of urine, owing to paroxysms of the
detrusor muscle, and upon examination
we find the bladder excessively
distended. These are very common.
Coughing, sneezes, hiccupps, and cold
ness indicate the approach of disease,
and the superior road commences here
from exterior of the lungs, after the

frustration, either it fails and becomes
paralytic, has attained the wished
degree.

In some instances death seems to
take place from mere debility of
the heart, owing to the excessive
weakness already described; there
having been no pulmonary complications.
On the other hand the patient's
whole gains in strength, there is
a decided want of interest in life
and his, the last sojor, during
which he lived a strenuous gives
way to natural sleep — this a
fearable termination may be
expected although the danger is

and upon, and the first signs
of pain or trouble overhanded
by the first glance of recognition
and affection, are often blotted.
The patients no longer possess their
teeth and urine is bad, but yet
for the bed, pan, they complain
of the bed-sore; the distresses of
the confinement hours, when the
stools are less frequent, the tongue
loses its coating, and becomes moist,
speech becomes more intelligible,
and with this general improvement
of all the symptoms the patient
passes into convalescence.

Having given in the preceding

condensed statement of the external symptoms of Frightful fever, it is necessary for us to view some of the most important changes, that are to be made about by this disease in the human body, and as they appear to us after death.

Petechies, dying in the early period of the disease are in general not a good deal evanescent. The muscles of the body, after being cut inde, have a dark red appearance, and are hard and dry; there is congestion of mostly all the organs, enlargement of the spleen and the migration of the dependent parts of the

large. The most important lesion we find in the small intestine, especially in the ileum.

The whole mucous lining of the small intestines is in a state of great hyperemia, mostly marked near the valvulae BBactini. The swelling and redness of the mucous membrane of the intestines increases, gradually round and near the semilunar glands and the foldlets of Peyer, causing these glands to undergo certain changes. In the first place they become larger and more perceptible than they were in the natural state, spreading a greyish surface which

over with small hard glands, the number
of the follicles fluctuates.

As inflammation proceeds they become
more red, the little follicles burst
ulcerate, or slough away, and along
with this process the corresponding
mesenteric glands become soft, swollen,
and dark colored but remain full
in an ulcerative state.

These ulcerations in the bowels are
extremely interesting, and furnish
also more explanations of some
of the symptoms of bilious and
tonic.

112
The intense hyperemia of the
membrane accounts for the turgor,

in the abdomen, by pressure
of the intestines occurring from
sudden hemorrhage and attacks
of peritonitis. Such pressure and
acute constipation of the intestines
ought to be considered in this
disease.

Treatment.

There is no prophylactic remedy
that protects from infection by
lymphoid fever; the only prophylactic
measures we can adopt in large
cities, are good sanitary, isolating
decreed accumulations of refuse
or decomposing matter, subject to
its moral, and whitewash surfaces.

drawing.

Our treatment will be an expectorant one, and we must try to sustain the vital powers of our patients. According to Schmeyer and Blundell, we may try to cut short the disease by one or two grain doses of Calomel given in the commencement of the disease, and before much disturbance has set in.

Venesectio and emetics are too depressing to be used, and only in such cases, where there is undigested food in the stomach an emetic will be necessary.

Prof. W. H. Sherry strongly recommends

Supposit of Morphine can now be given
in divided doses with safety and even
as the best method of preventing hypotension.
We must look for special indications
and need complications as they come
or anticipate them if possible.

If there is much fever and irritation of
skin nitrous, powder and Tinct.
rad. virid., 3-6 drops at a dose, have
good beneficial but belladonna-like
must be used with caution.

If necessary draw the hand to relieve
gastric irritation and to stimulate
the heart's action, Digitalis may
be given to advantage.

The great danger in syphilitic pro-

is the increased temperature and
warmth, because the interval of the
above a certain point induces an
analysis of the head and render it
impossible.

The use of crushed ice for the pa-
tient to swallow, spraying his body
with water and vinegar, and im-
mediately drying him will do much
to abate the fever.

The hydrotherapeutic treatment
of typhoid fever, first introduced
by Niemann and afterwards modified
by Lissner seems to me of great
value in the treatment of this
disease. Niemann speaks of the

recommended and tried by
Linnæus in the following language:

"As often as the patient's temperature
rises above 104 degrees, he is placed
in a bath whose temperature is
about 94 degrees. While the body
and limbs are gradually cooled, we
add cold water gradually till the
temperature of the bath is reduced
to about 68 degrees.

"The patient is to remain about
20 or 30 minutes in the bath till
he is slightly chilled and then to
be placed quickly in a warm bed.
At first, four or five beds side
and measure, subsequently two or three."

The administration of wine and tobacco,
abstraction of heat lessens most
expeditiously in reducing the severity
of the fever.

If there should be great prostration,
the pulse rapid and weak, it becomes
necessary to stimulate the
nervous. Wine, Brandy, and Whisky,
or Turpentine; the Compound Tincture
of Bark - mixed wth Cider or a
few orangeal drops.

No always shall you not medicate
according to specific directions.

A tincture of Chloroform is dosed from
15-20 grains or more when required,
during quiet sleep.

30
Some 26 to 30 drops and be
traded with 20 to 25 drops
leached over the hypogastric region
and one grain each of gr.

Procaine hydrochloride
five grains.

Two or 3 drops with 20 to
30 drops stomach region followed by
in doses of 10 drops every 2 hours
in emulsion with beef suet and
water.

To check diarrhea as was in
substantia of Bis with C. bark with
succo, Acetate of Lead or the
following will remove and be followed by
no grain each of Quince, Rhubarb, Saffron

and the day.

The halter should always be worn
and it requires the cattle should
be used. It is better to have the animal
with a halter part of the time.
Sedatives, given in small sufficient
to keep the animals in absolute quiet-
ness, is the only remedy.

During the first stages of the con-
dition it is useless to give much food or
water, as the animal will
never eat or drink, but never over-
loaded and the repeated administration
of milk powder and beef tea
will be sufficient to sustain
the vital functions of the body.

I have often tried to make
it perfectly suitable to the highest
standard of a good dinner,
and I consider my preparation of an omelet
that has not been equalled.

In the following I have endeavored
to give the most convenient system of
elements, beans, eggs and meat
of sufficient flavor, as the same basis is
based itself on no man can be
able to conceive as well as by the hands of
men in making different elements
and which I hope will especially
suit it to your kind consideration.

Charles F. Webster.

Inaugural Thesis

-for-

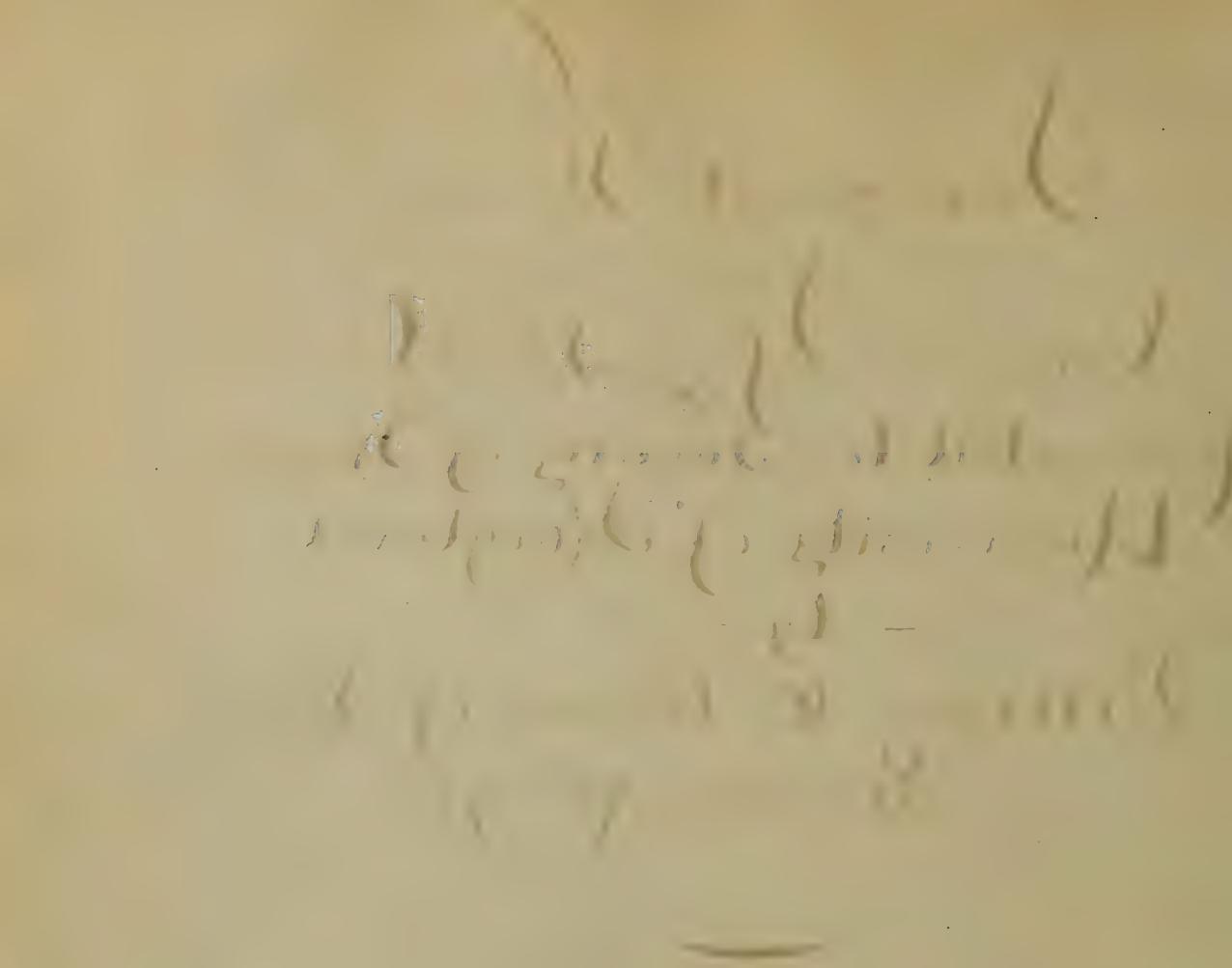
Degree of M. D.

Presented to Faculty of Physic
University of Maryland

- by -

William C. Boone of Md.
Session 71^{and}72.





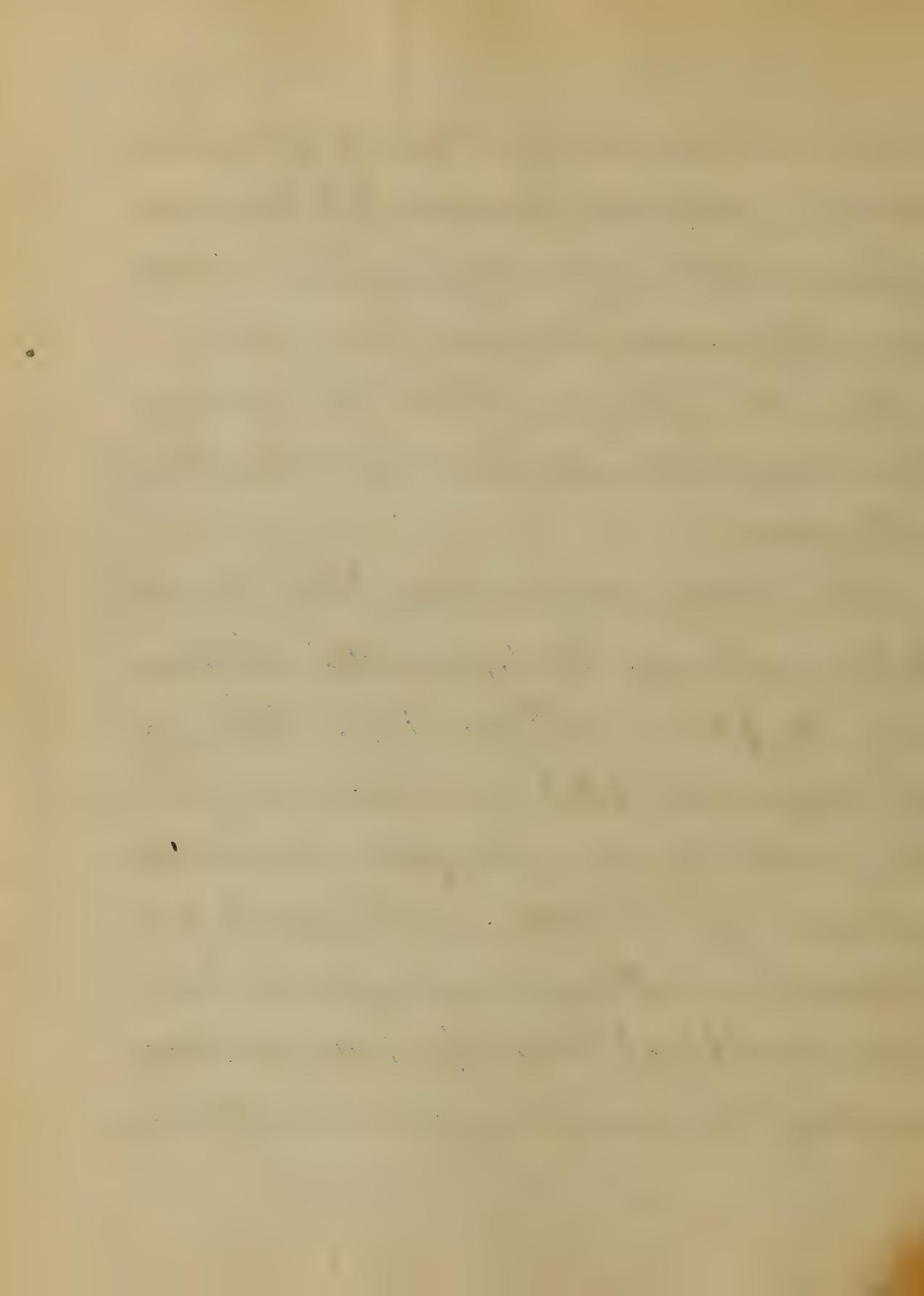
There is no one, however humble his pretensions, or limited the sphere of life in which he moves, who may not, if he will, by carefully noting down at the time of their occurrence such circumstances as present themselves to him worthy of observation, contribute something, even out of the storehouse of his own individual experience, of usefulness to his fellow creatures. Acting on this principle, I have endeavored to turn to account some of the various facts that have fallen under my notice during my round of duty in our University Hospital. I do not, indeed, flatter myself that my observations will be found to have developed anything new, but the facts which I adduce may possibly furnish additional food for thought, or help, at least, to the just appreciation of that which is already known.

An eminent medical mind of the early part of this century has said, that to pronounce the impossibility of cure of certain diseases is to sanction by law the ignorance, or the remissness, of the physician. It was not his intention, I presume, to pronounce practicable the cure of all diseases, for a certain number will always remain proof against any and all medical skill; but that there are certain peculiar forms of disease wholly beyond the reach of the healing art — that he does not seem willing to admit. Is the contrary tenable, or is the fixing so high a standard but the day-dream of a distinguished, indeed, but, in this case, over-enthusiastic, practitioner? Our profession brings us at times into conflict with cases that

appear to defy the noblest efforts of medical science, but may not something yet be done to compel these stubborn forms of disease to succumb to the daily perfecting influence of medicine? May not, for instance, something yet be found to affect favorably the state of the blood in cancer, to improve the infurled organization that results in tubercle, or bring sweet respite to suffering, grateful relief to pain, in those dread cases of impaired heart structure that make up the tragedies, so to speak, of our hospitals? During the month of August last ('71) my attendance upon the sick in St. Vincent's Ward (University Hospital) brought me into daily and attentive observation and study of an unfortunate example of that class of disease.

in which the mechanical difficulty of sanguinous congestion, obstructed banal disturbance and impaired condition of circulatory system, were all more or less involved, exercising their conjoint unfavorable influence. I take the following from my notes recorded from time to time during attendance.

John Kelly, 41 years of age, Barber by occupation and living in Ball., admitted into University Hospital on 28th June 1871. History, one of intemperance; potations continued till within three months of entering Hospital, at which time noticed his first troubles; marked distress and difficulty in breathing on making any exertion, such as walking upstairs, up a hill, or in doing anything that provoked any acceleration of ordinary



gait - some puffiness about the eyelids and ankles, loss of strength etc. Symptoms at time of admittance into Hospital: great dyspnoea, respiration labored and painful, auscultation revealing fine sub-capillary rales over right lung, with paucile respiration of left. Right lung pronounced consolidated from hypostatic congestion, due to persistent decubitus on that side from his first taking to bed. Considerable anasarca present, and inability to lie on back or left side. Cyanotic hue of skin indicating some obstruction of circulation; murmur heard with first sound of heart, a tricuspid regurgitant; liver considerably enlarged and extending below floating ribs.

" daily 1st Patient visited by Prof. Howard who ordered for passive dyspnoea - Rx Dr. Hydrocyanic

Elbow Sulph Co. 2230 - Dr. Valerian fl. 21
Mr. S. 21 in wineglassful (swallowed) water, for
removal.

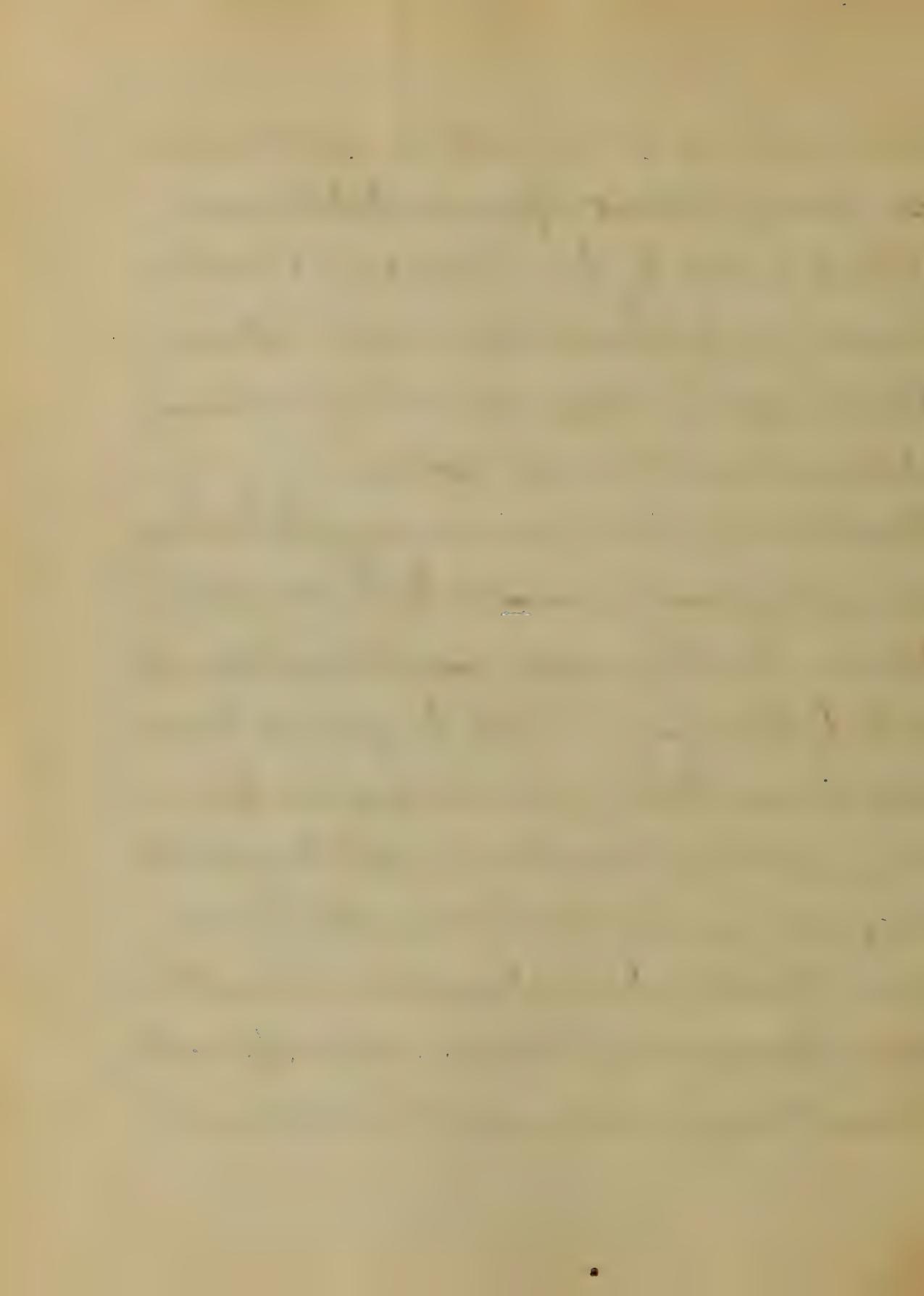
"Daily 3". No improvement manifested in condition of
patient - sinking rapidly, extremities cold - some
delirium evidencing itself. Dyspnea intense,
agonizing, with frequent gassing efforts.

Ordered by Prof H, an emulsion of quinine and
terephentine, to support flagging powers. After several
doses emulsion condition seemed to improve, rallied
and apparently much better than for some days past.
Partook of nourishment heretofore refused, with
continued doses of the terebinthinate. Later in
day frequent involuntary discharges from bowel -
of offensive feculent matter, freely mixed with
blood, evidencing and adding to prostration.

Towards evening a low comatose condition ensued,
case clearly betokened speedy and fatal issue.

Patient visited by Dr. Houston and Donaldson
in evening, a few hours before death. Extensive
pleuritic effusion diagnosed, pointing to cause of
obstructed circulation and dyspnoea.

Death at 5 o'clock same evening. Post mortem
examination readily accounted for the coma and
laborious breathing such constant symptoms up
to the fatal ending. Right lung found loaded
with venous blood, a passive congestion from
damning back of circulation; left lung slightly
congested, and air-cells filled with thin maco-
leous fluid; liver enlarged and nutmeg like;
heart pronouncedly enlarged; and no appreciable
lesion of tricuspid valve, right side filled with

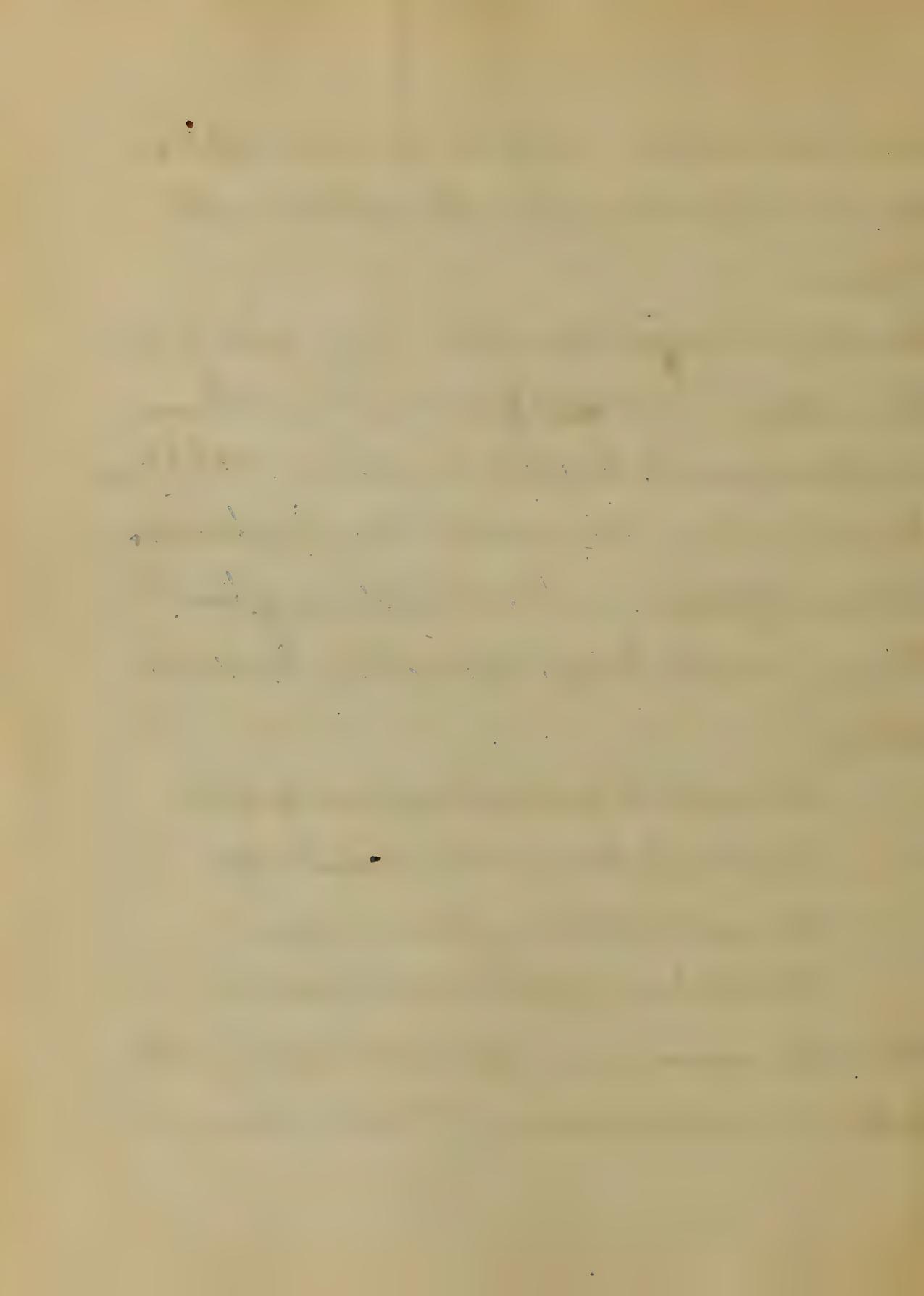


coagulated blood. Congestion and serous effusion found on the surface, and in the ventricles, of the brain."

Powerless to do aught that could bring any respite to the poor sufferer, I watched from time to time the case, as it progressed to its fatal termination. What more could have done, I know not. I must perforce have looked helplessly on, or turned sadly away from the lingering death-struggle of one whom I could not believe.

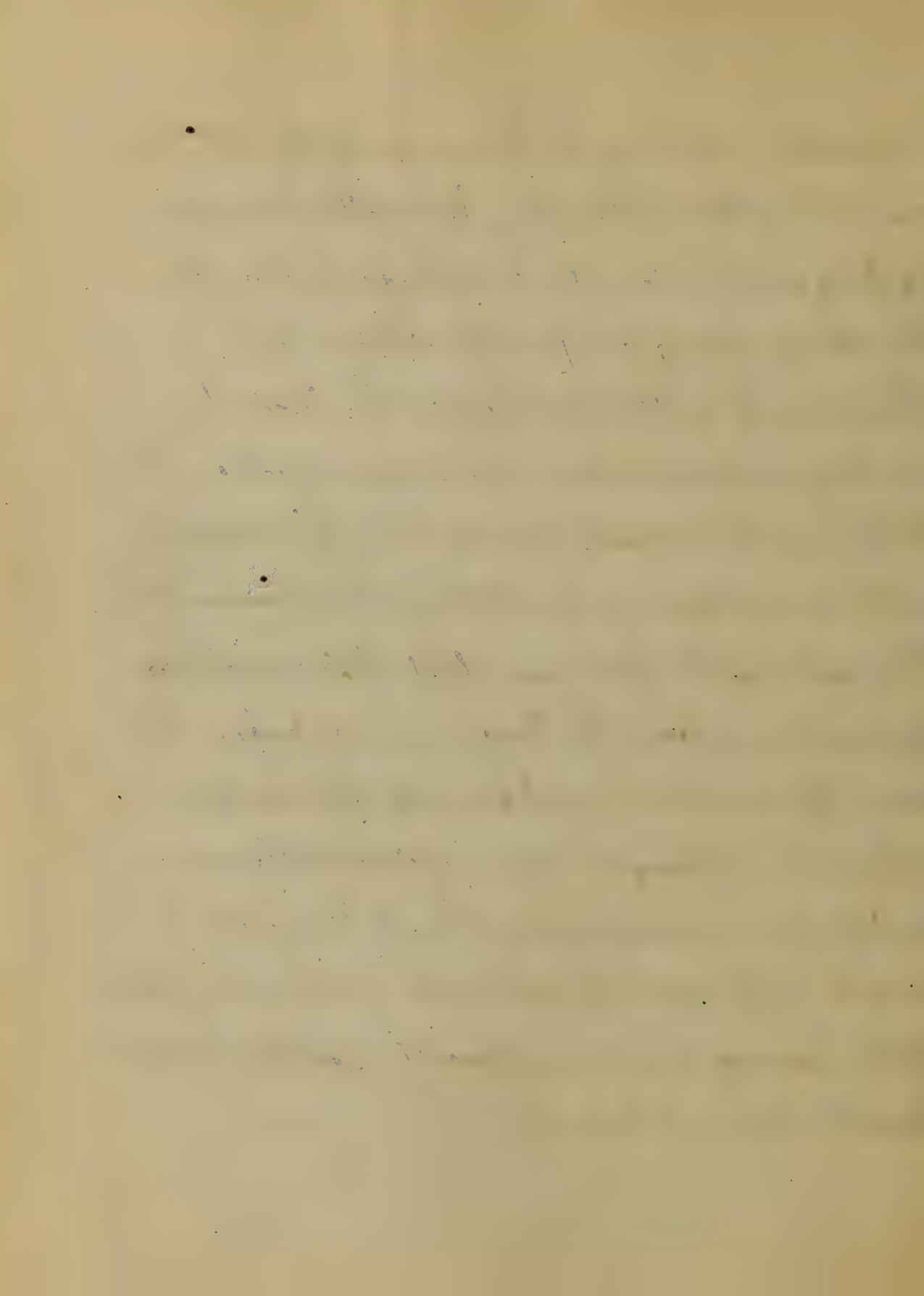
"But when the heart is full of crimson distress
Shall we be doomed to stand inactive by
And watch the body's pain and agony
Which human efforts find not to make less?"

When thus organic disease invades the heart's structure, with dark and turpid column of blood, charged with



impurities, choking up the avenues of life; the livid
and distorted form struggling for breath and in vain
seeking relief, can we do nothing more than give
the silent shroud and pass the sufferer by?

Shall we not rather try to lighten the load by
assisting renal excretion and alcine defecation, by
rushing up the sluggish floun of bile, by removing
with care all sources of irritation, by cleansing
the system of the pernicious stuff that weighs upon
the heart and loads the lung; and so prepare the
way for gentle stimulation, and for the full
effect of soothng anodyne or sweet oblivious
antidote — endeavoring thus to bring sweet
respite to the overlabored heart, to relax the tension
of the heaving chest, and give the grateful patient
breath to die, but easily?



Oliver Ryan, 28 years of age, farm laborer by occupation, admitted into St. Vincent's Ward on 26th July 1871. Had been sick for four days, with pain in head and limbs, and particularly in left side of chest, nausea, vomiting and usual symptoms of a depressing state. Ordered at time of admission a mustard plaster over stomach, with linseed oil and milk for gastric irritability, and Quinine 6 grains three times a day. No chill, but high fever nearly always present - varying slightly in degree during day, with a general tendency toward night.

July 28th. Pulse Am. 104. Temp. 101

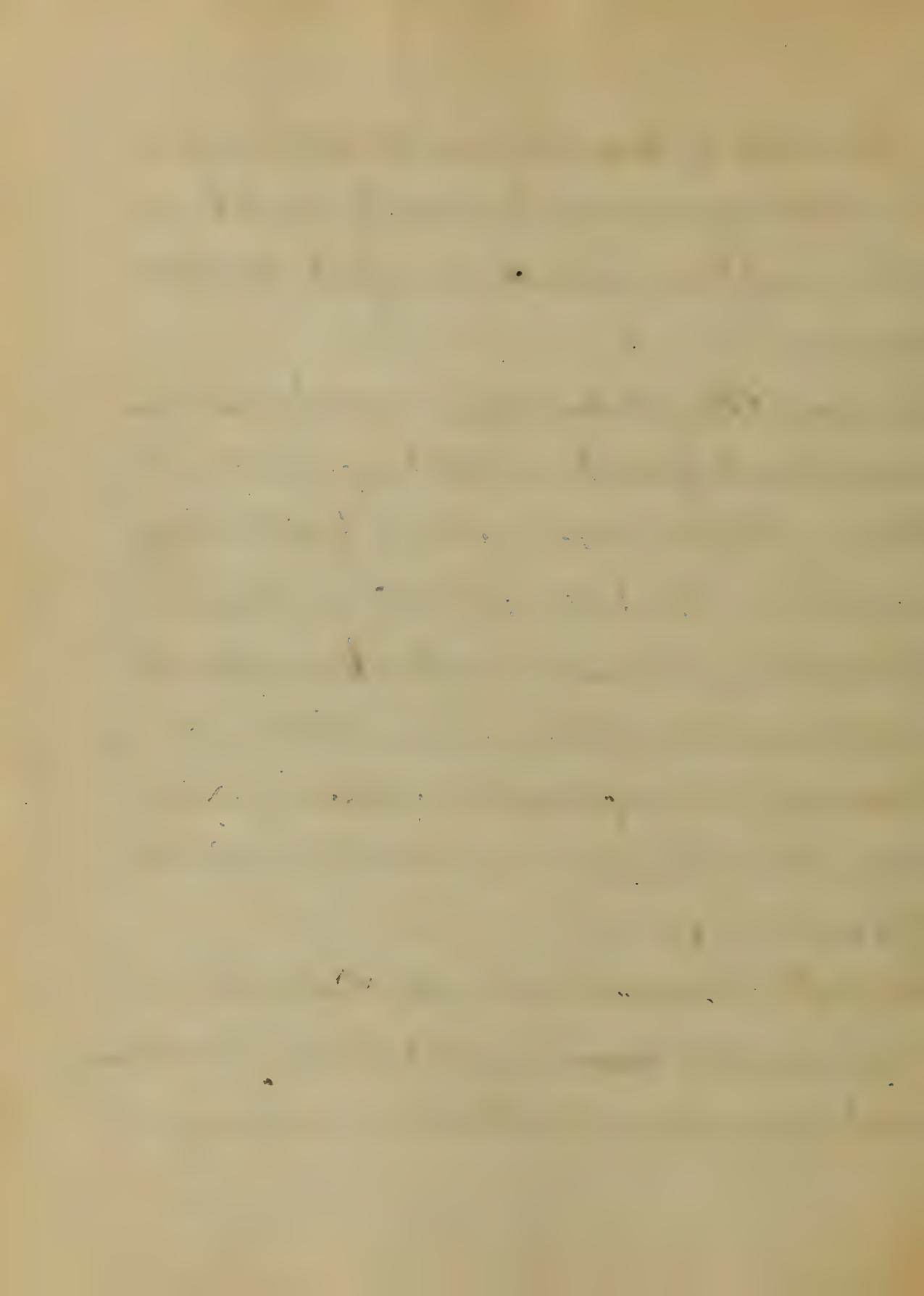
" Pm 109 " 102 $\frac{3}{4}$

Complains of constant and severe pain in left side, great heat of skin and marked dyspnoea. Symptoms point to either a remitted type or to an acute pleuritis.

Great heat of skin with constant and severe pain over left lung, and, also, preference for decubitus on this side of pain, indicate more particularly latter diagnosis.

Evening - Auscultation seems to substantiate diagnosis of acute pleuritis of left lung. Friction sounds, with large mucous sales in front over lung in question. Gasping respiration; and excessive heat of skin as revealed by touch alone, aided by thermometer, strikingly evidenced later in evening. Nausea and vomiting persistent. Mustard plaster renewed over stomach, and at bed time Co. palp. Specae Jno XV -

July 29th. Somewhat easier - less heat of skin - dyspnoea not so harassing but pulse still evidencing weak and quickened heart action - comparing



unfavorably in its morning increase with condition of the succeeding evening.

9 AM Pulse 120. Temp. 100

7 PM " 82 " $98 \frac{3}{4}$

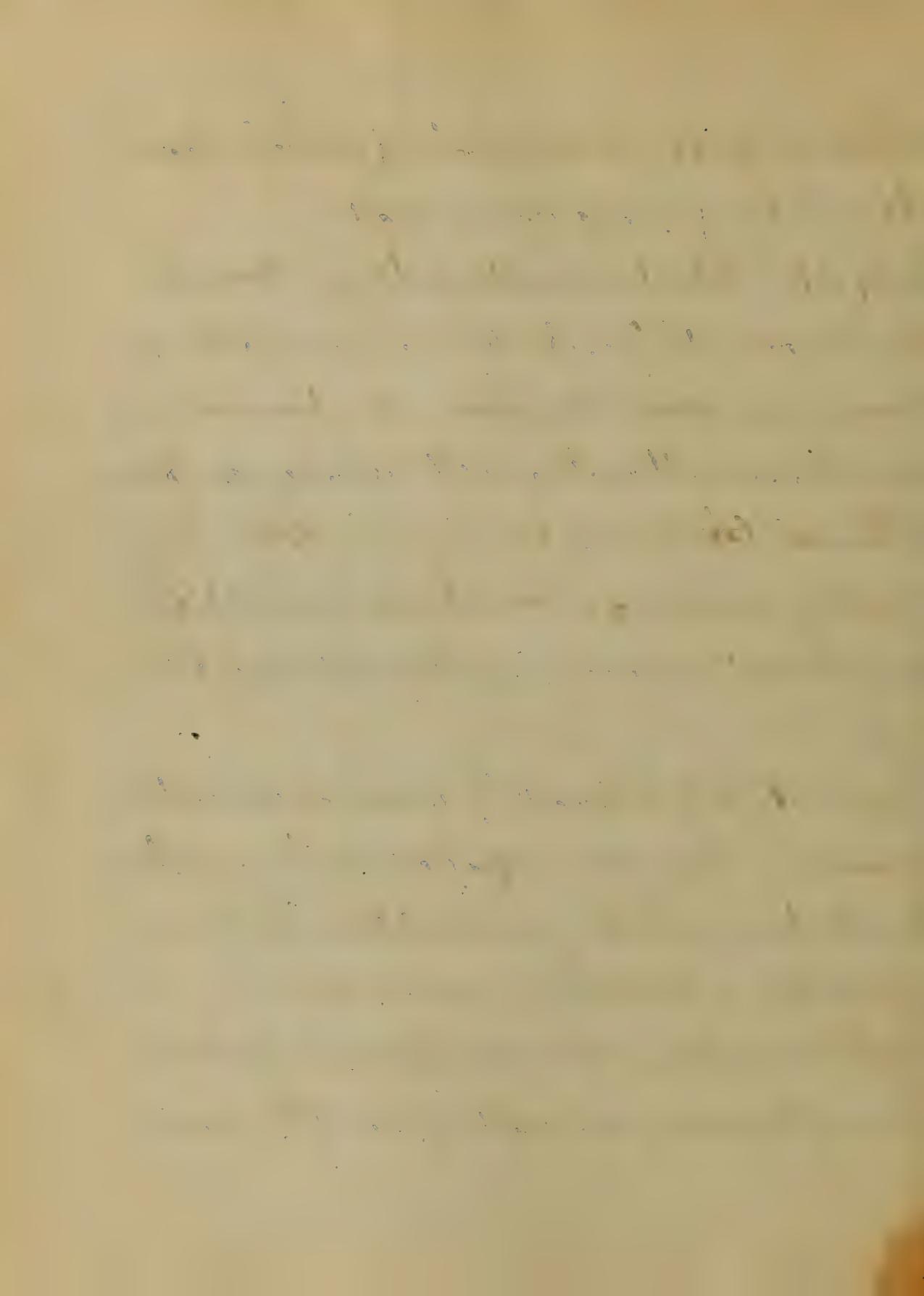
Suppression of sputum secretion gave unfavorable significance to evening condition. Catheter passed, but nothing elicited. Periton diuretic, Al Janssen qtj, Potash Nitratis grs x - with Spts frumenti 3^{ij} 3 times a day - and at bedtime increased dose of last.

July 30th. No improvement, no sleep during night. Some delirium, with vomiting still persisting, and return of excessive dyspnoea; though one favorable symptom present - a free discharge of urine during night, after repetition of diuretic. At night ordered Hyd. Chloral xv grs, & Bromid;

Polessie grxx. Administration of whiskey in full doses kept up during day and night.

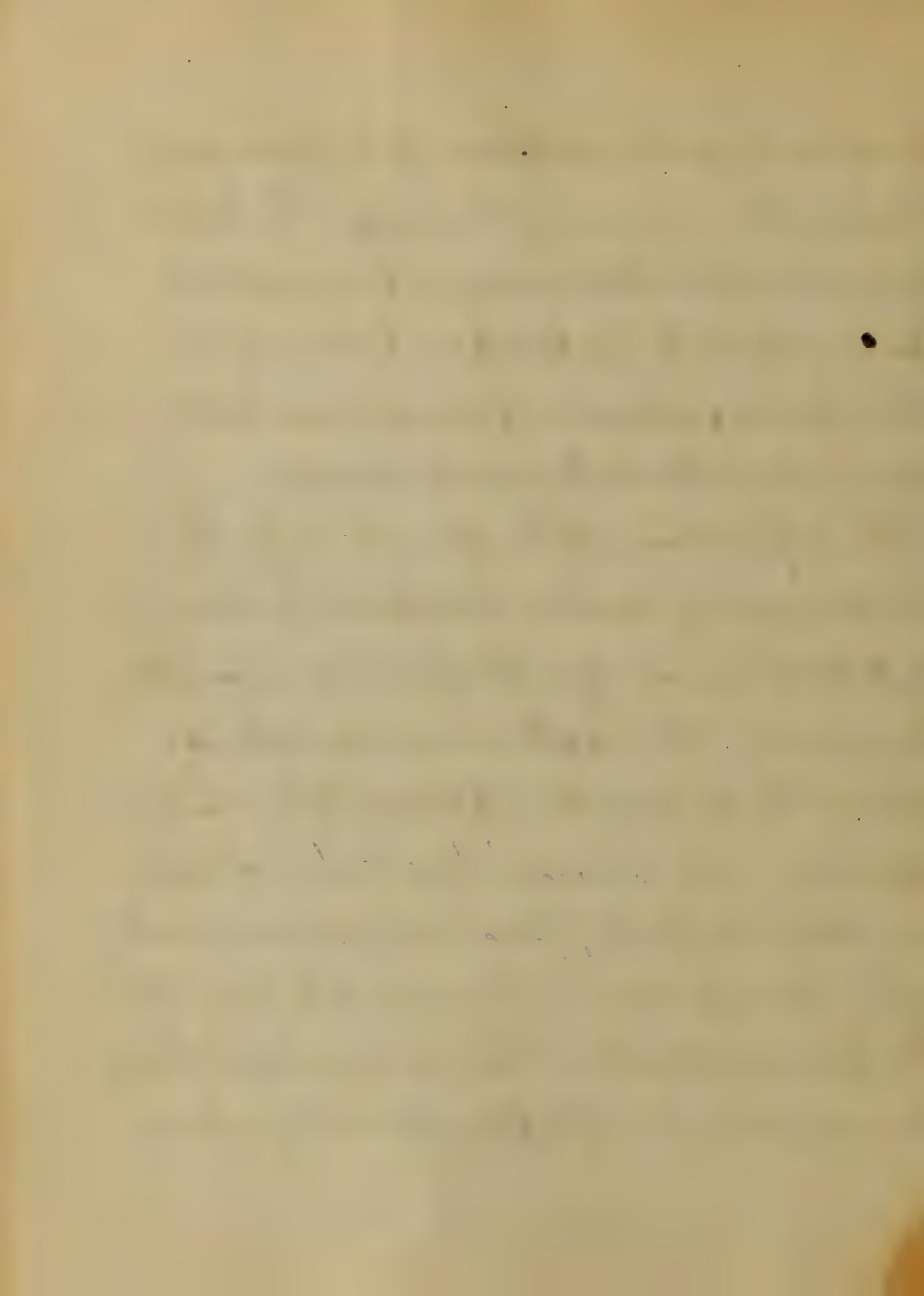
July 31st. Patient evidently sinking. Ordered by Dr. Conrad. Al Derborth in emulsion with gum Acacia and aqua Camphorae at intervals of every 2 or 3 hours - alternating with colissey and Guimine. Stomach later in day excessively irritable, and rejecting everything. Conventional mustard plaster over stomach renewed, and at night grx fil Opii."

From 31st July to Aug 10th, on which day death occurred, there was a gradual sinking, a slow prostration, which no stimulation whatever, of whiskey or turpentine, could relieve. Typhoid symptoms were manifested more markedly during the evening and night of the 9th, and



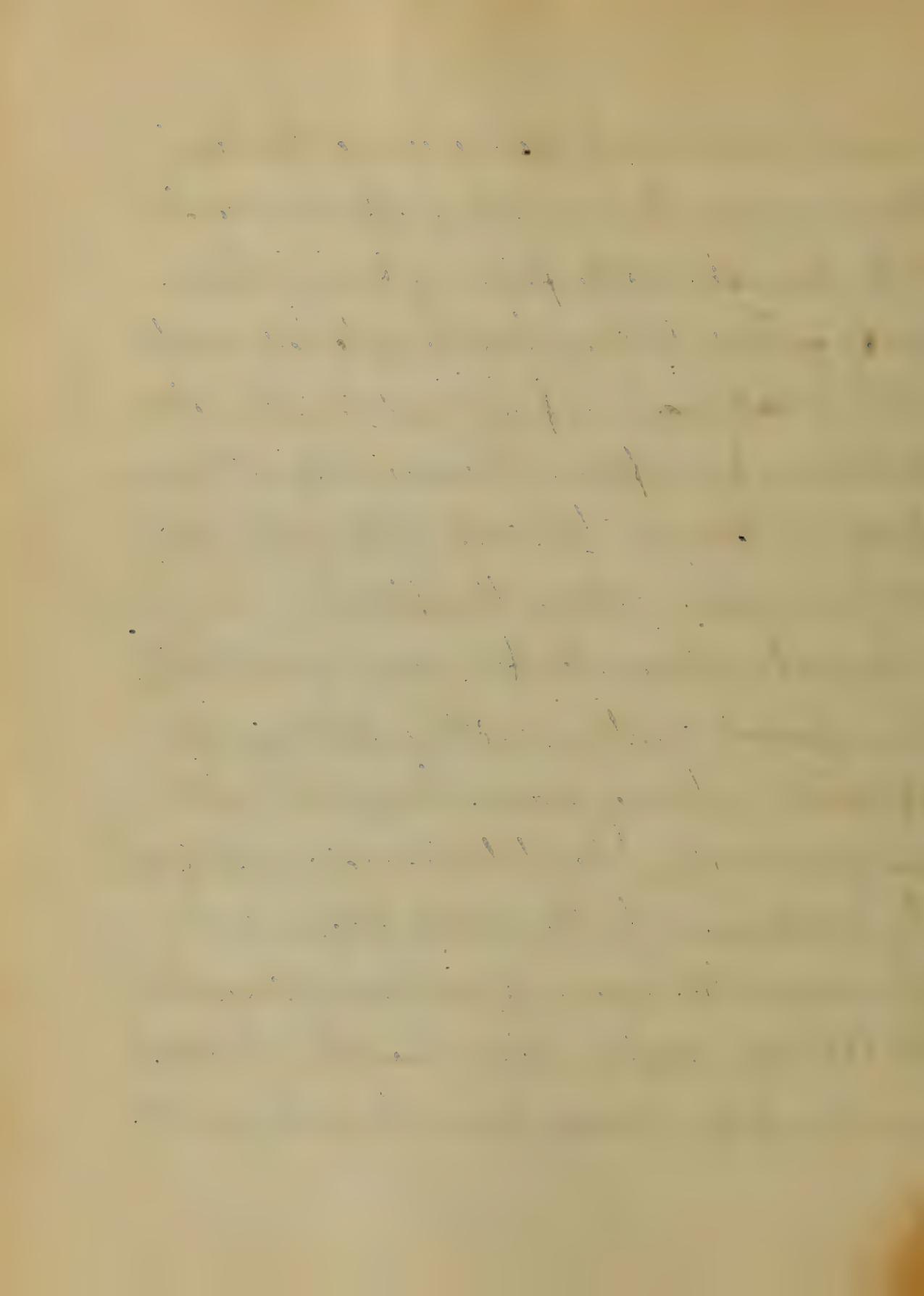
death ensued at an early hour of the following day. I instance the case as one of the many in the treatment of which stimulation, early and freely resorted to, failed utterly to counteract, or hold in check, the depressing influence of a miasmatic (and coexisting with acute organic) disease.

The superintendence of the plueritis upon the already existing condition of material poisoning, contributed much from the first to an unfavorable prognosis. Stimulation availed nothing against the unfavorable influence of the combined affection, and medical skill looked hopelessly on when its efforts, though ably and wisely directed, were powerless to aid. It is said of the eminent Dr. Graves of Dublin that he requested it should be recorded as his epitaph, that "He fed fevers."

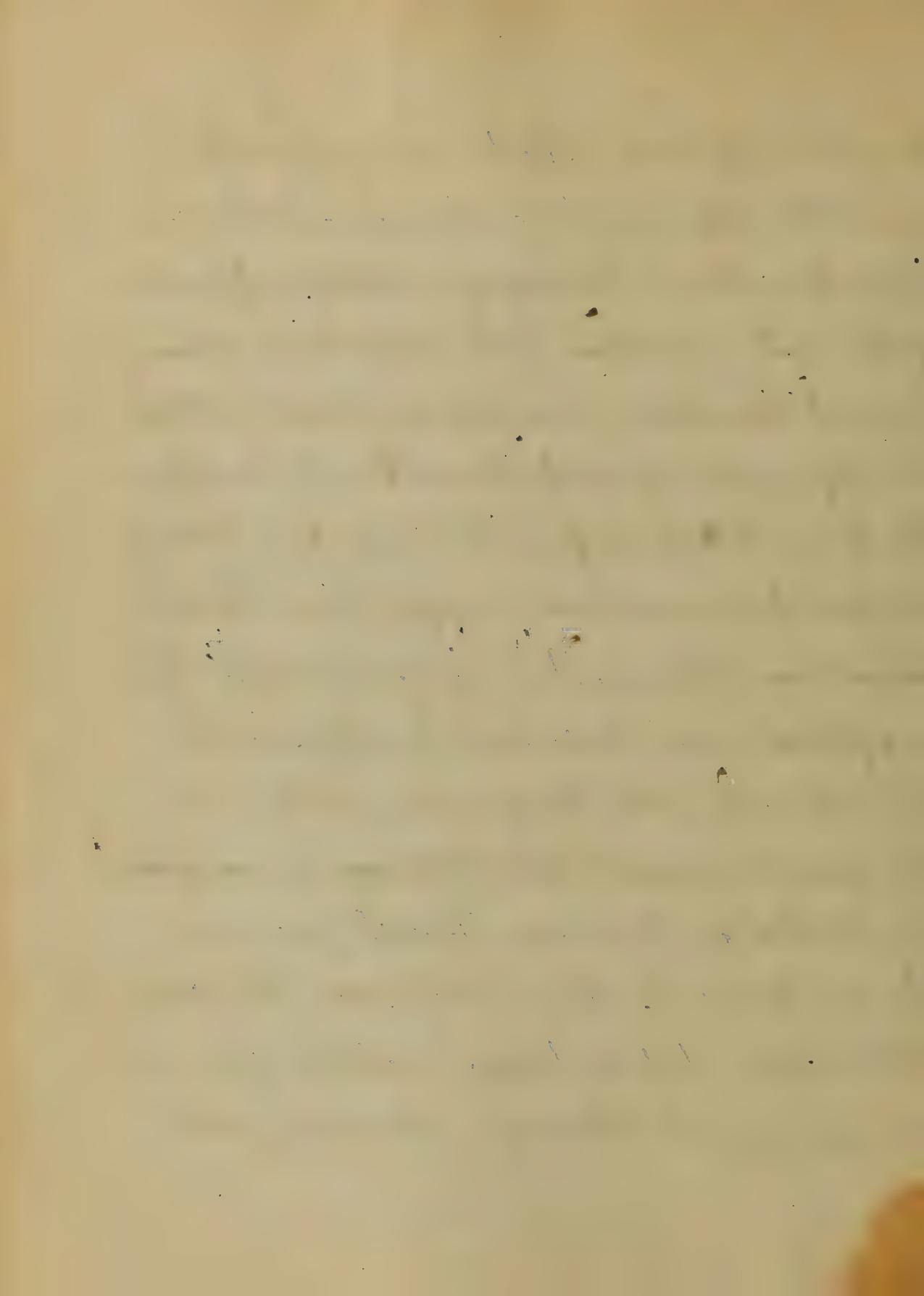


Surely a monument more enduring than brass
should be reserved for him whose efforts are directed
to the elimination of the poison of fever, whose
teachings tend to show how the vitiated condition
of the blood may be improved and purified of its
detrimental principles. There are difficulties, no
doubt, in the way, but mark nothing therefore
we be suggested, nothing attempted.

In acute rheumatic fever may we not help
the imperfect saratory, aid the enfeebling effort
of nature in her endeavors to get rid of the
materies morbi, (be it lactic acid or what not)
by callicium, by the salts of Potash, or by
the more active agency of cantharial vesication.²
The test tube may here avail more than the Scalpel
and if we prefer curing disease to looking on till

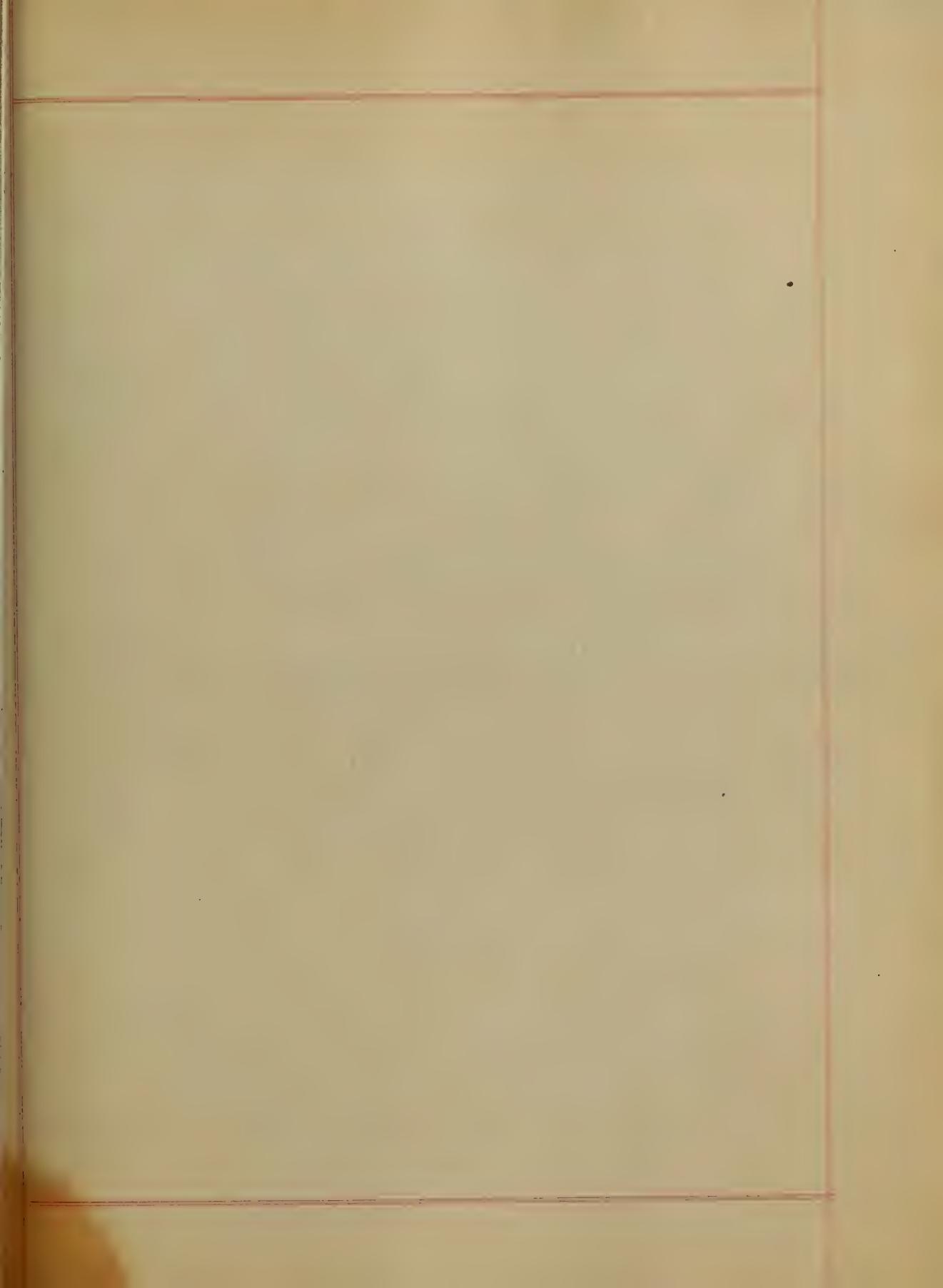


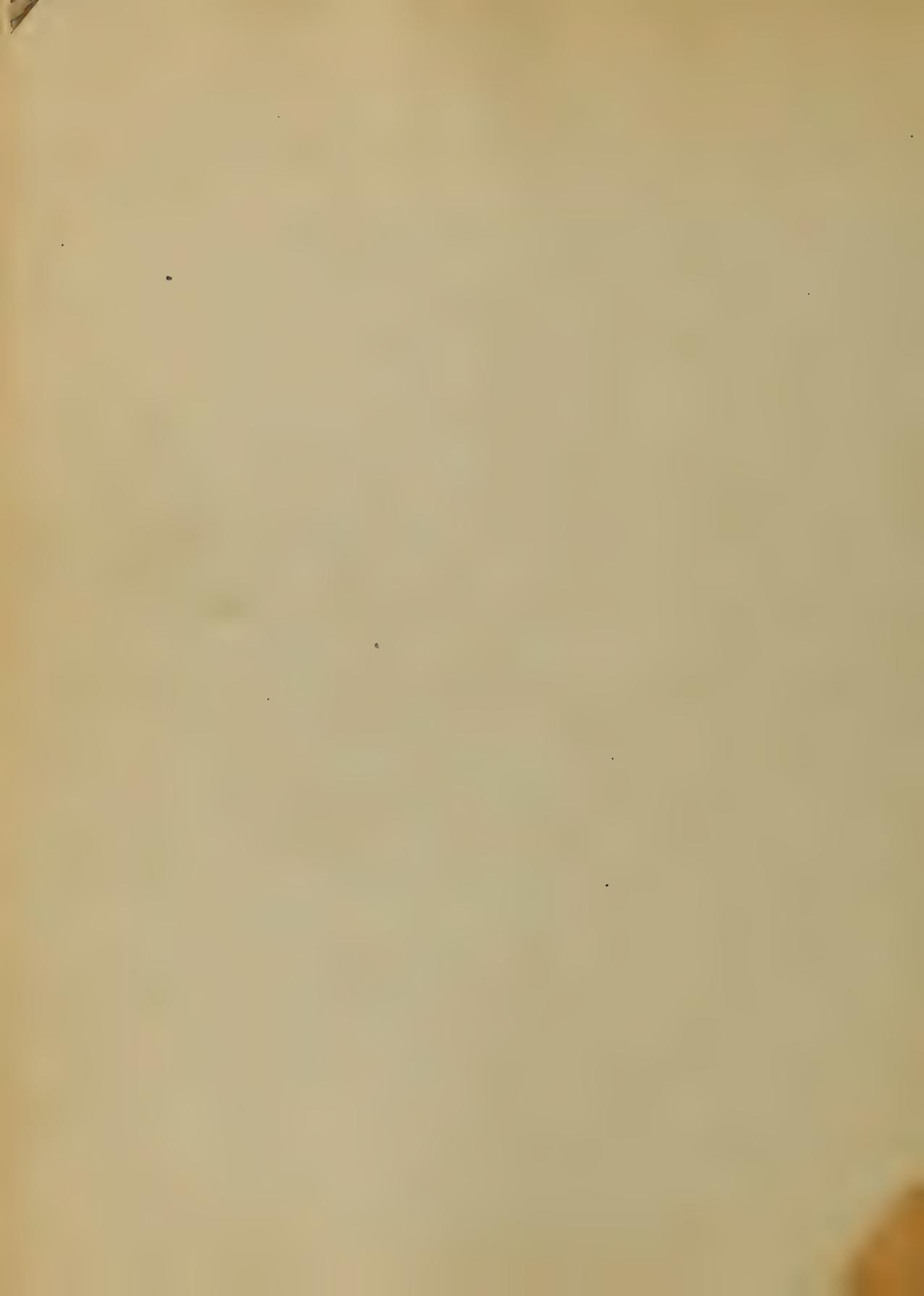
The golden opportunity is past, we must hasten to remove the oppressing load, to eradicate the cause. If difficulties in the way of a rightful appreciation of this state, as well as of other conditions of disease, present themselves, may we not at least cultivate an independent spirit of observation? Nor should the fear, that perhaps in the want of our daring to depart from conventional usages, from theories which have the sanction of years only, for their acceptance, we should have to suffer in the estimation of unthinking minds, deter us. The great medical lights of all ages are our guides. Embarked on the ocean of truth, we may follow fearlessly their course over the same illimitable, but no longer trackless, sea — encouraged, not deterred, attracted, rather

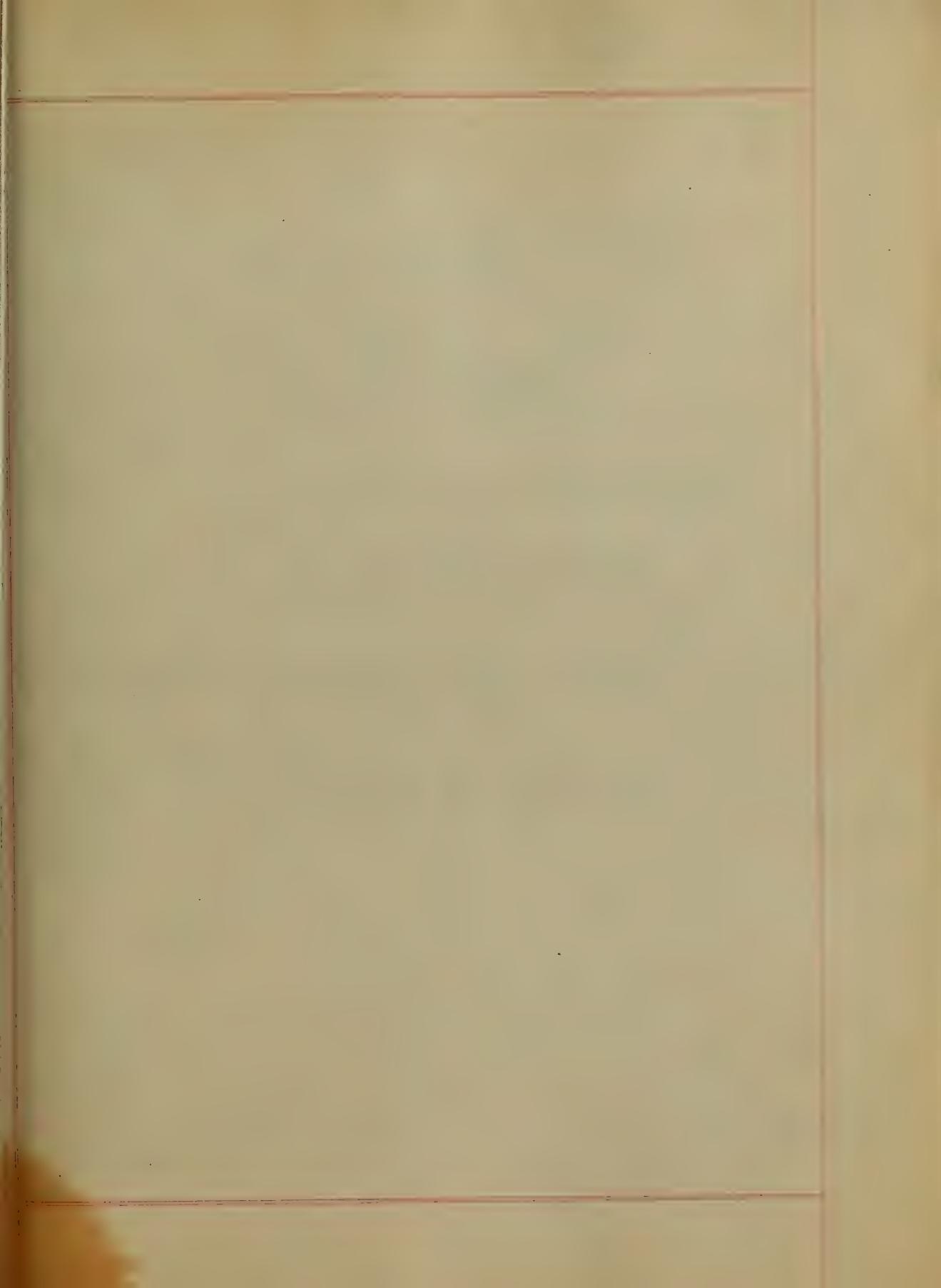


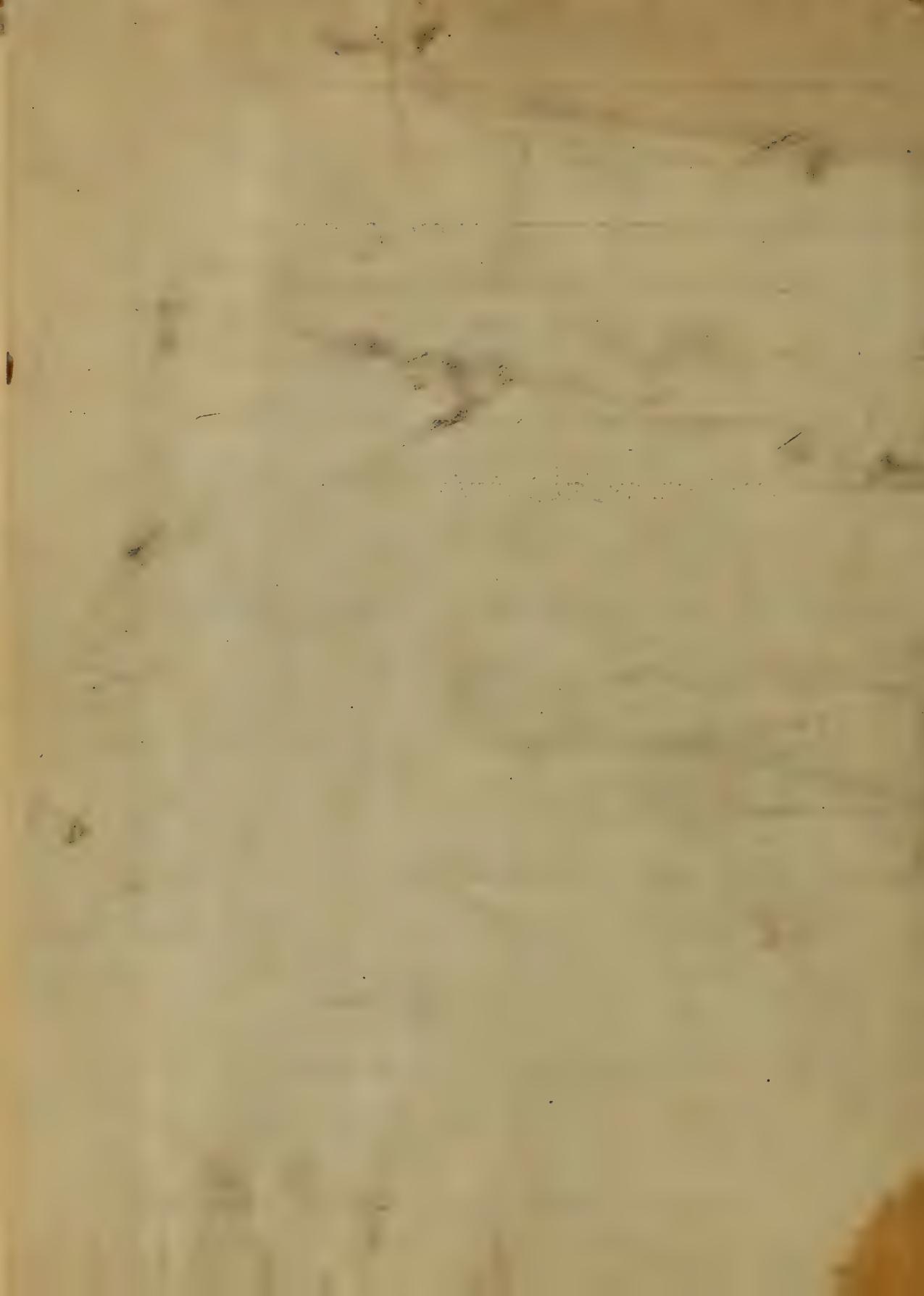
than spelled, by its vast expanse, its mysterious depths, and by the ever receding horizon of inquiry. Not according to the extent of our anatomical accomplishment, pathological research, or proficiency in like modes of scientific investigation, but according as these several sources of knowledge are brought to bear upon the main object of professional endeavor, the relief of human infirmity and suffering — in a word, not according to our knowledge, but according to its practical application. How well our advance be estimated.

William Boone,









A N
Inaugural Dissertation

ON

Abortion

Submitted to the Examination

OF THE

Provost, Regents and Faculty

OF

P H Y S I C,

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

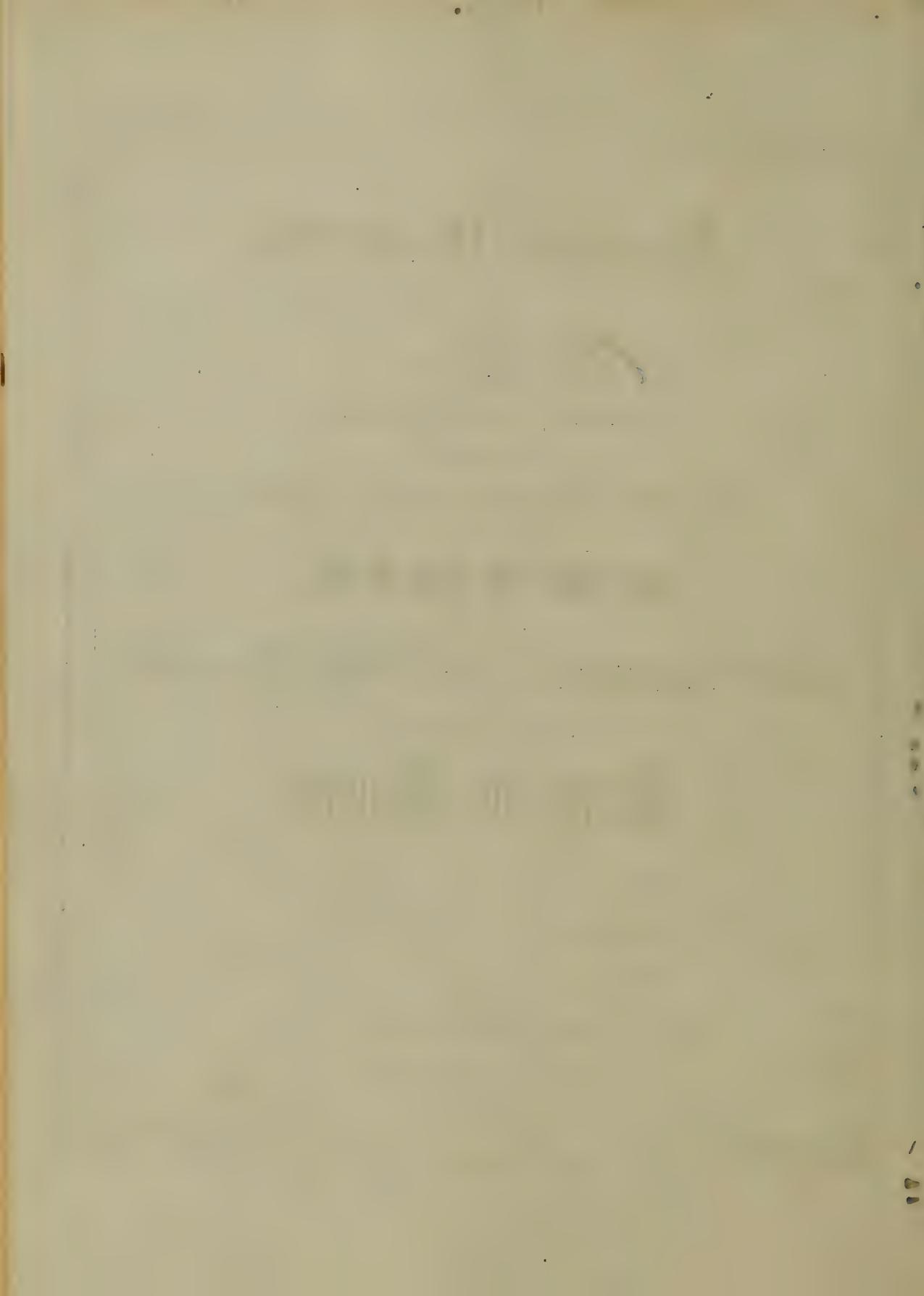
DOCTOR OF MEDICINE,

By
Chas. N. Miller

Maryland

Session of

1871 & 1872



Admission

In selecting a subject to write upon I feel that I am not able to put forth any new theories, or even the suggestion of one thought at this early period towards the advancement of the knowledge of the subject which I have selected.

For having had no practical experience I have only to advance the opinions of others. as I am sure all that are just entering the field of Science must certainly do.

It is made manifest when we reflect for a moment and view the number of years now before us have toiled to advance the Science of Medicine, advancing hypothesis

after hypothesis, theory after theory, which have been made truths by the investigations of the past and present - It is evident from the foregoing that one having experience can add anything to the already existing store of knowledge -

Reflecting for a moment we see that it was by industry and a thirsting after the furtherance of the chief Sciences, viz. Medicine, that men were and are at the present enabled to advance theories of their own -

But we know that Science is progressive and the way is open for all to make discoveries

And while onward rolls the tide of discovery sweeping away by its mighty power the ignorance and superstition of the past, it remains for those who are now entering the field to take the places of those who have filled their mission towards the advancement of the Science & Medicine -

In selecting this subject "Abortion" to write upon its history evidently includes the study of the causes producing it, the signs by which it may be detected, the symptoms and consequences which may arise, and the best means for preventing

and stopping it when it is about to occur.

The term Abortion has been applied to the expulsion of the foetus from the womb, where it occurs at a period of gestation at which the foetus is not sufficiently developed to maintain an extra uterine existence; hence abortion may occur at any period between conception and the end of the 7th month as laid down by American accoucheurs, but English accoucheurs put the period of viability at the end of the 6th month.

M Guillenot gives three kinds of abortion; based on the period of

its occurrence: thus, when it occurs before the twentieth day he terms it coular; before the 3rd month embryonic, and prior to the end of the 7th mo., foetal-laxus: - The causes of abortion may be divided into the spontaneous and accidental -

The Spontaneous causes are the following: 1st the general condition of the mothers constitution; 2^d diseases of the ovum; and 3^r diseases of the uterus and its appendages -

Women of a robust and plethoric habit, and whose menses are characterized by a free &

copious flow are more exposed
to abortion during the early months
of pregnancy, than those whose
monthly flows are scanty -

Women of a nervous and very
irritable temperament, those who
are easily and strongly affected
by moral impressions, those
passing an indolent life, spending
the greater portion of their time
at balls, operas and other
places of enjoyment, and those
leading a sedentary habit are
all subjects of abortion more or
less frequently - Epidemic
miscarriages have been referred
to by authors, which they have

laid down the condition of the surrounding atmosphere as the exciting cause -

Diseases occurring during the course of pregnancy often have the most disastrous effects upon the foetus - Cutaneous diseases occasionally cause abortion.

Syphilis in the mother has a most deleterious effect upon the progress of gestation -

The convulsive diseases often cause abortion either by exciting uterine contractions, or by directly destroying the life of the foetus -

Mercury by some writers has been supposed to cause abortion,

but it is at this period thought to be erroneous, and now they advise giving mercury to a person who has Syphilis during pregnancy to destroy its deleterious effects upon gestation - Diseases of the womb which are often unknown to us may arrest the development of the foetus; it may be affected by those diseases which often attack it after birth; though not always fatal to the new-born infant, proves the more disastrous to the foetus as they occur nearer to the period of conception - Excessive distension of the walls of the uterus, caused by twin-pregnancy, may bring

ow contraction of the uterus by which
the foetus is expelled -

Again, the mother acts as a medium
through which diseases are
transmitted to her child -

Thus smallpox may be transmitted
to the child although the mother
escapes the disease - Mauriceau re-
lates that his mother, when in
the last stage of her pregnancy,
had the misfortune to have
the eldest of her three sons
affected by smallpox, to whom,
notwithstanding her condition,
was unceasing in her attentions,
and at his birth, which occurred
the day after his brother's death

he presented four or five pustules
of small-pox -

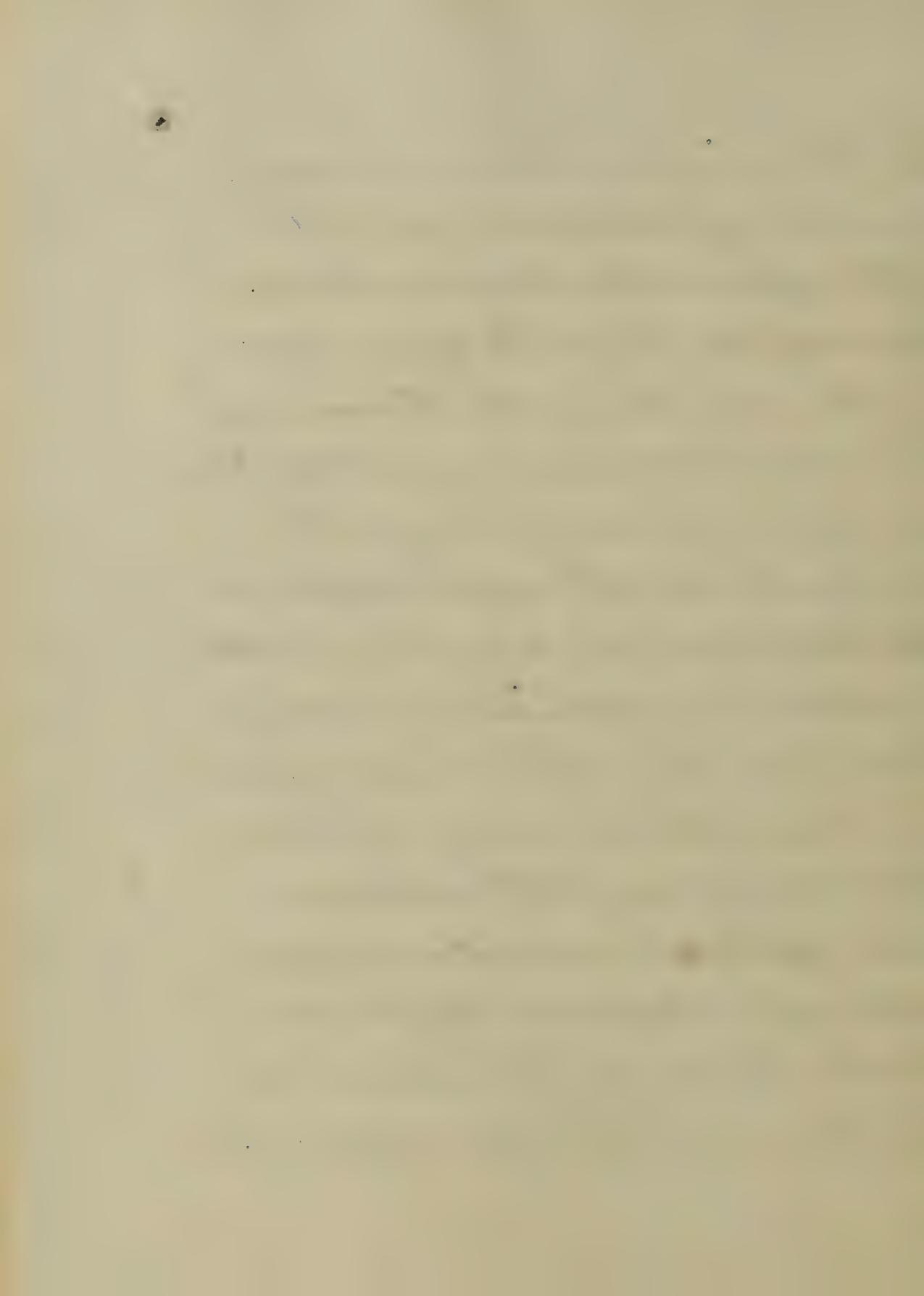
The mother may transmit her
disease to the foetus; thus syphilis
in the mother may affect the
child and cause its death, and it
acting as a foreign body in the
uterus excites its fibers to con-
tract by which the foetus is expelled.

The placenta often becomes the
seat of disease; thus it may
become atrophied or hypertrophied,
also inflamed, and its tissue
may degenerate, harden, or become
a fatty or fibrous mass -

Again, shortness of the cord may
produce abortion by detaching

the placenta, or the cord may even be ruptured - Cases to the latter effect have been related - Diseases of the womb & its appendages,

In considering the diseases of the womb that may cause abortion we must evidently bring to account all the acute & chronic affections that the womb is liable to as so many efficient causes of abortion; thus the various kinds of tumors that may grow in the substance of the uterus, also syphilitic ulcerations and others of a different type, which are so frequently found in connection with pregnancy are



12

so many causes that may prevent the full development of the foetus. We must also take into account the numerous displacements of the uterus as so many predisposing causes of abortion - In considering the effects of diseases of the appendages of the uterus upon the foetus all the abnormal adhesions of the broad & round ligaments must be taken into consideration, the adhesions of the tubes, ovaries, and in fact all unnatural adhesions that may hinder the full development of the uterus act as so many causes of abortion -

The excessive irritability of the uterus; the great laxity of its walls & especially of its neck; also the excessive sensibility and contractility of the uterus, all have a deleterious influence upon the progress of gestation — As I have before alluded to the diseases occurring during pregnancy as causing abortion, so inflammation of the bladder rectum & all the adjacent organs often cause abortion through reflected irritation to the uterus causing its contractions and finally the expulsion of the foetus —

Having enumerated the predisposing causes of abortion, it remains to make allusion to some of the exciting & accidental - Thus, falls, contusions, too frequent exertion, excessive fatigue, have often caused an immediate flow of blood & followed by the expulsive of the product of conception - Instances sufficient have been related where the child has been born showing its recovery from a fracture of one or more of its limbs - which can very readily be referred to a fall or blow received during her pregnancy from a person or some other cause sufficient ^{the} to account for accident.

Symptoms -

The symptoms of abortion are dependent upon the period of pregnancy at which they occur and the cause by which it is produced -

Abortion occurring at an early period of pregnancy is attended by few remarkable symptoms -

In fact a woman may abort in the early weeks of pregnancy unconscious of it, thus an ovum of five or six weeks may be expelled and the woman resting assured that it was only a retardation of the menses, thus an ovum is expelled surrounded by fluid or coagulated blood.

and often passes away unnoticed — At a period of pregnancy more advanced the symptoms are more characteristic of the existing affection, still they vary with the causes of abortion — When abortion is caused by some existing disease of the mother or those causes which operate slowly, changing the form of the fetus or womb and its envelope, the following are the symptoms. anuria, nausea, thirst, pallor, sadness, depression of spirits, lassitude of the tract, pain at the epigastrium, weight in the loins, pains in the loins, and frequent desire to urinate — These may be considered

as the forrunners of Abortion —
 As the abortion progresses the lumbar pains become more and more characteristic of true labor pains, until finally they assume that type — Now during these prodromic symptoms, if the woman be examined the os will be found partly dilated with a saious discharge, the os dilating progressively as the pains increase until finally the membranes evaginate and protrude, are ruptured, the waters escape and the foetus is expelled followed shortly, occasionally, by the placenta —

When the abortion is caused by a fall, blow, or concussion, the

expulsion of the foetus immediately follows the accident when it occurs at an early period of pregnancy, but at a more advanced period, the interval is more or less prolonged -

When the cause has acted upon the foetus - either mechanically or physiologically by destroying to a greater or less degree its utero-placental attachments, the subsequent symptoms are quite different -

After the time required to expel the mother's fears, and commotions caused by her accident, everything seems to be progressing in its natural course, when after a week or two the movements of the child become

irregular, its movements are feeble
and farther apart, until finally
they become extinct, when the foetus
evidently is dead -

Now abortion is evident, the
child acts as a foreign body in the
uterus, it soon irritates the
uterine walls, by which their fibers
are excited to contract, and finally
the foetus is expelled -

When a period of some duration
exists between the accident and
the expulsion of the foetus, the woman
is less subject to hemorrhage, owing
to the fact that the uterus no longer
has a foetus to maintain consequently
its vessels become shrivelled or less

in caliber, thus admitting a smaller amount of blood to the uterus —

Diagnosis

Taking the vast number of signs into account, the diagnosis of abortion ought to be very readily made; but occasionally these symptoms are very imperfectly marked until the accident is sure to happen, and then it matters very little to the patient whether the physician makes a correct diagnosis or not —

The diagnosis of abortion includes several questions of importance —

Is the woman pregnant? And if so, are the symptoms due to a simple uterine congestion or a commencing abortion?

Our minds are very readily put at rest, as regards whether the woman is pregnant after the fourth month of pregnancy, but before delivery it is difficult to settle -

A woman in apparent health has her menses suddenly stopped, her breasts enlarged, her abdomen enlarged accordingly, but at her third or fourth menstrual period slight symptoms of congestion of the uterus appears, slight pains are felt, and soon they are followed by a flow of blood more or less profuse -

How are we enabled to say whether the symptoms mentioned are due to a return of the menses or to an

approaching abortion?
 According to Madam Lachapelle in
 abortion the os is dilated. The hemorrhage
 precedes the pains, the latter also
 continuing notwithstanding the
 great amount of blood lost; whilst
 in degeneration the pains precede the
 hemorrhage and often disappear entirely
 after the flow is profuse -

I have been hopped to diagnose
 abortion by the form of the clot -
 In an unimpregnated state of the
 uterus the clot has been supposed
 to be a great diagnostic point by
 taking the form of the cavity of the
 womb, which never happens in
 abortion, but in abortion the blood

may cragulate in the vagina and assume the form in question, also in dysmenorrhœa the clit is liable to be changed during its passage through the vagina, first through the cervix of the uterus — hence; — strict reliance can not be placed upon that point — But if the clit is still in the cervix, we can by the touch diagnose the condition to a greater certainty — Doll has laid that if during the contraction the finger perceives the mass to become tense, enlarge and advance towards the vulva, it is normal; but if the mass does not change its form, density, nor appear to be forced down it is a clot,

Further, if we attempt to move the uterus by pressure on this mass it could be very readily affected if it were a clot; whilst, if it is an ovum the parietes would yield and not transmit the motion to the organ which envelopes it, and with which it is as yet but slightly adherent.

Finally supposing pregnancy to exist, may the symptoms be attributed to simple congestion of the uterus, or to a threatened abortion? The discrimination of which is a matter of little moment, regards the treatment, that called for by simple congestion being

also applicable in the prevention
of abortion - But when the
symptoms, as far as we are able
to diagnose, are due to simple
congestion, and have been allayed
by proper treatment, the physician
is often called upon to give his
opinion as to whether or not the
patient is out of danger of an
abortion? Generally he is unable
to give the patient or her friends any
information as to the prognosis whatever.
We are unable to tell whether the
congestion has been arrested in
time to prevent a rupture of the
blood vessels, and an extravasation
of blood between the placenta

and its attachments or whether
the placenta has been entirely
separated - If by examination we
find the child to be still living how
can we tell whether or not the
placenta is separated sufficiently
to kill the foetus in course of time.

The placenta may be partly detached
and by this the foetus is deprived of
part of its nutrition; hence it
gradually wastes away and the
foetus dies - When by examination
we find the foetus dead, then it
acts as a foreign body in the
uterus, exciting its fibers to
contraction and abortion ensues.
Abortion is also inevitable when

the utero-placental attachments
are separated to such an extent that
the remaining attachments are
not sufficient for the nutrition
of the fetus -

Cazeaux mentions a peculiarity
not mentioned by other authors
which he considers of great
importance: it is a particular
form of the neck - When the woman
has been pregnant for a short
time it is very easy to distinguish
the neck from the body of the
uterus - Now, when the contractions
have lasted for some time they
have gradually dilated the
internal orifice; the cavity of the

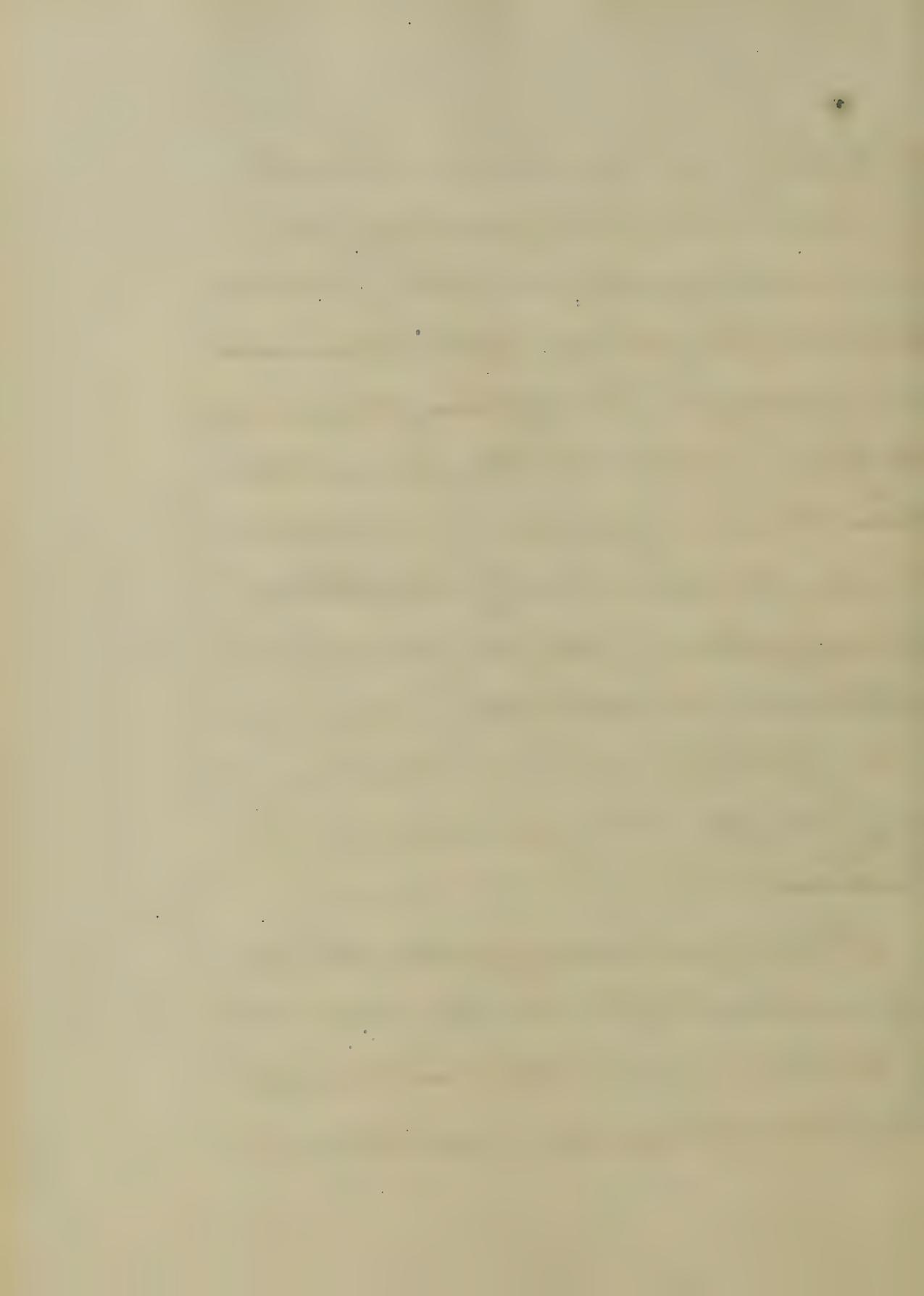
neck has been conformed with
the body, and the finger being
placed on and passed around
the lower part of the uterus the
neck can no longer be distin-
guished - Lazarus says that
whenever I have found or met with
this condition of things, abortion
has taken place -
Prognosis - -

The prognosis of abortion is
variable and owes its fatality to
the period at which it occurs, &
to the causes producing it -
Thus abortion in the early months
of gestation prove of little danger;
but after the second or third month

it proves of more danger to the mother, and not necessary to mention always fatal to the foetus. Abortion brought on by the administration of drugs and by rough manipulations is more dangerous than when it is brought on by constitutional effects. Lastly abortion occurring during the progress of acute inflammatory diseases of one or more of the internal organs is exceedingly dangerous.

Treatment—

If bring the aim of all rational physicians to prevent disease when it so lies within their power, when this fails & disease is invading



the System at a fearful rate they
try to divert the disease and sustain
the System in the meantime; but when
despite all his careful attention
and the correct application of all
his skill & knowledge & feeling
that he has done all within the
power of mortal man & with the
assistance of medicine, can do
the disease still has the upper hand
of him it but remains for him to
try and smooth the dying pillow
& make the last moments on
earth - those of happiness -

In the first place it is the duty
of the accoucheur to take into
consideration three different

points under the treatment of
abortion; ~ viz, 1st the prevention
should have due thought; 2nd to
favor the expulsion of the fetus
when abortion has become inevitable;
3rd and lastly to treat any sympto-
mous or accidents that may
arise —

Now following the order in which
I have related the causes by
reflection you will see that I
have first mentioned the
condition of the mothers system.
And accordingly you will find a
full, and vigorous habit, whose
measles are always abundant,
and perhaps have been the

Subjects of abortion at previous
menstrual periods, should be
put on a restricted diet, and
remain in the bed for a few days
at each monthly flow, or properly
speaking at the periods of time
at which they should occur,
they should likewise be bled
several times during the early
months of pregnancy, or
perhaps better bleed a little at
the incipiency of the period
at which her flows generally
occur. It is absolutely neces-
sary that none of the foregoing
predisposition should receive
the use of corsets more so than

any other class of females,
for not only do they offer an
obstacle to the perfect and
easy development of the breasts,
but they likewise prevent the
free return of blood from the
lower extremities, thereby caus-
ing passive congestion of the
uterus and surrounding structures.
Women of a nervous and very
irritable temperament should
avoid all places and circumstan-
ces calculated to impress in any
way an impression on their nervous
systems; avoid all unnecessary
exercise, malarious &c.
When the abortion has been the

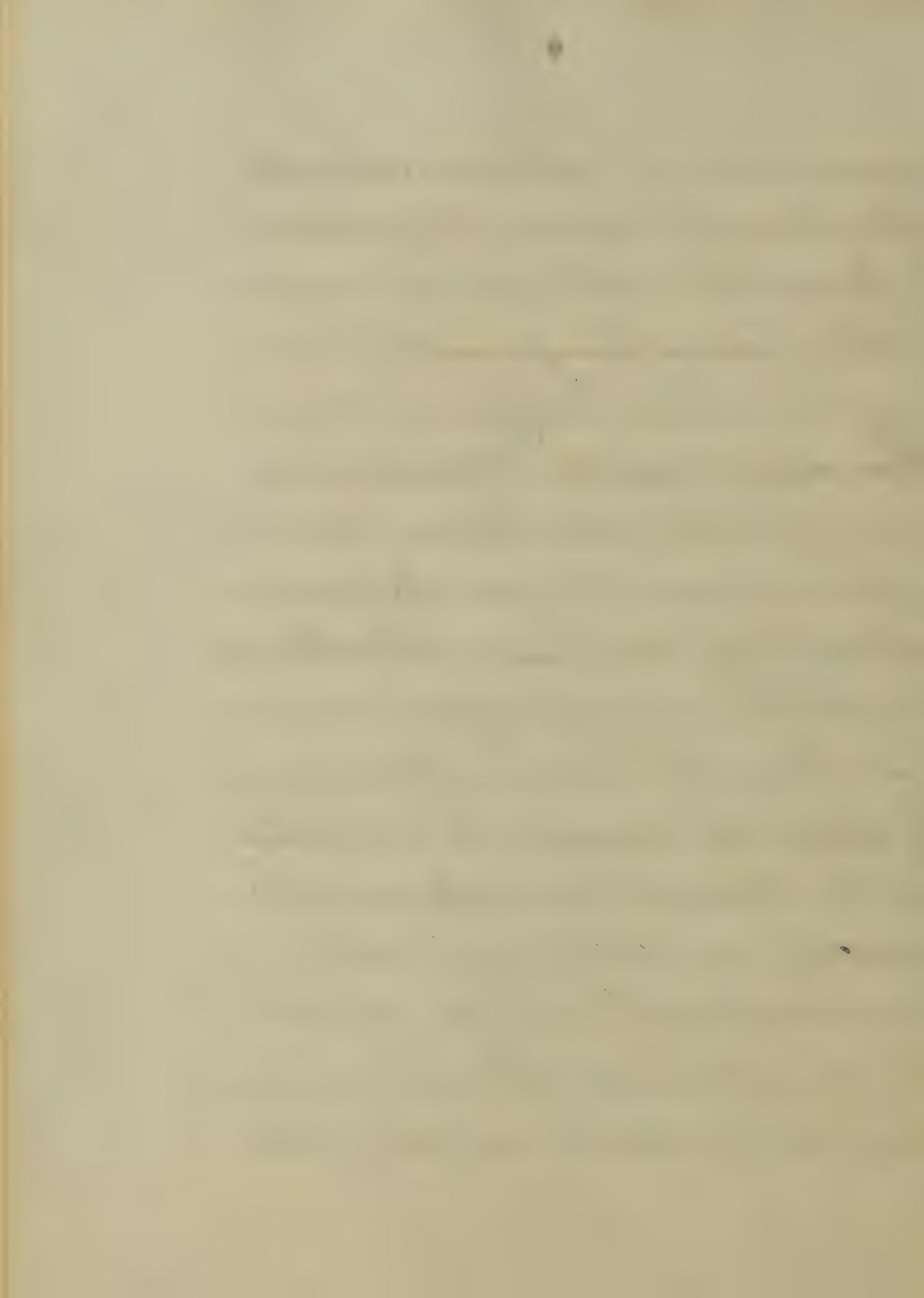
effect of the woman's bad constitution, or on some diseased condition of the uterus, or an abnormal size of the appendages we should try to dispel such conditions and more especially during the intervals between her pregnancy.

The disastrous effects which Syphilis has on the foetus should be constantly borne in mind. We have abortion produced by forced displacement of the uterus frequently, when such is the case it should be timely and properly attended to, and especially during the intervening periods of her

pregnancies, the uterus should
be put in its normal situation
if possible & the woman advised
not to become pregnant for
some considerable period —

Females of a pale, cachectic
look, feeble and broken down
by previous and long continued
exhausting diseases, whose tissues
have become loose, soft & relaxed
are often the victims of abortion.

In such cases the best that
can be done is to improve the
general condition of the
woman and the course for so
doing is to put the woman on
a course of tonics and good



nutritious diet - Of the former the
Shalybrace and bitter berries are
the best that can be given -

When the hemorrhage is slight
& the pains of a bearing down
character, a discharge of
sainous fluid from the vagina, a
feeling of weight in the perineum
uterine contractions appear, the
sexual parts become soft and
flaccid, and occasionally the
os slightly dilated; but, even
here we must not despair of
arresting the imminent abortion
notwithstanding the gravity of
the symptoms. If the woman
be of a robust, full, & plethonic

habit blood should be bated
in the arm, rest in the horizontal
position, hard bed, cool applications
to abdomen and vulva, cool drunks -

To allay the uterine contractions
of opium should be freely given -

In fact our only reliable pro-
tection measures are the follow-
ing - Time, absolute rest in
horizontal position, cool drunks,
Applications and above all
Resection & Opium -

Now with the foregoing
remedies, & all skillfully and
Scientifically applied abortion
seems to be inevitable, hemorrhage
profuse, contractions frequent,

and the membranes ruptured, it remains for the Physician to assist in the expulsion of the contents of the uterus when this is required - During the early months of pregnancy, that is during Eutrophic abortions, the Physician has little more than to watch the progress of the miscarriage carefully & when the hemorrhage is not of a nature dangerous to the mother he should remain a mere spectator of nature's attempt for the expulsion of the ovum which in many cases is expelled very slowly notwithstanding

the sufficient dilatation of
the os - If accident occurs
he should trust the entire
expulsion to nature's efforts alone -

Lastly & the most important
of all the symptoms that we
have to contend with and the
one which the physician dreads
most is hemorrhage -

When, after having tried all
the general measures, such as
horizontal posture, cold drinks,
cold applications, the duly
administration of opium, the
hemorrhage continues & abortion
is inevitable it remains for the
physician to assist the

expulsion of the foetus -

He should maintain the woman's strength as much as possible by the administration of general stimulants. The medicines recommended as uterine stimulants - such as, Tinc. Camelia, Borex has been advised by some, and above all the Ergot -

In the early months of pregnancy the uterine muscles can be but slightly excited to contraction owing to the imperfect development of their fibres, then the tampon is the only resort - It acts by stopping the flow of blood externally,

and also excites the uterine fibers
to contraction through irritation
of the ^{nervous} force have objection to
the use of the tampon during
the earlier months of pregnancy
as it is as a general rule
followed by abortion, but certainly
this can not be a justifiable
objection when we reflect for a
moment and see that hemorrhage
is the most disastrous & fatal
symptom to the mother -
Certainly her life is not bought too
dear when it can be saved
by the expulsion of a fetus
that probably was dead
long before the application

of the lampow. The life of the woman,
her family and social ties should
be duly taken into consideration, &
every one certainly, with human
feelings would decide in favor of
the mother's life being saved if
possible; even though it be at the
cost of an infant that has truly
connection with the external world only
through its mother, that has not,
as yet, thought nor affection, hope
nor fear, certainly it can not be
compared to the life of the mother
who is bound by a thousand
social & religious ties to those
with whom she is connected.

-Trus.

Journey of a Crumb of Bread.
a Thesis.-

spectfully submitted to the Faculty of
the University of Maryland

For the degree of Doctor of Medicine
by
George E. H. Harmon of Delaware

18⁷².

A Journey of a Crumb of Bread.

The little crumb, whose history we propose to trace during its wanderings in the human body, will require but few words by way of introduction, before it starts upon its journey.

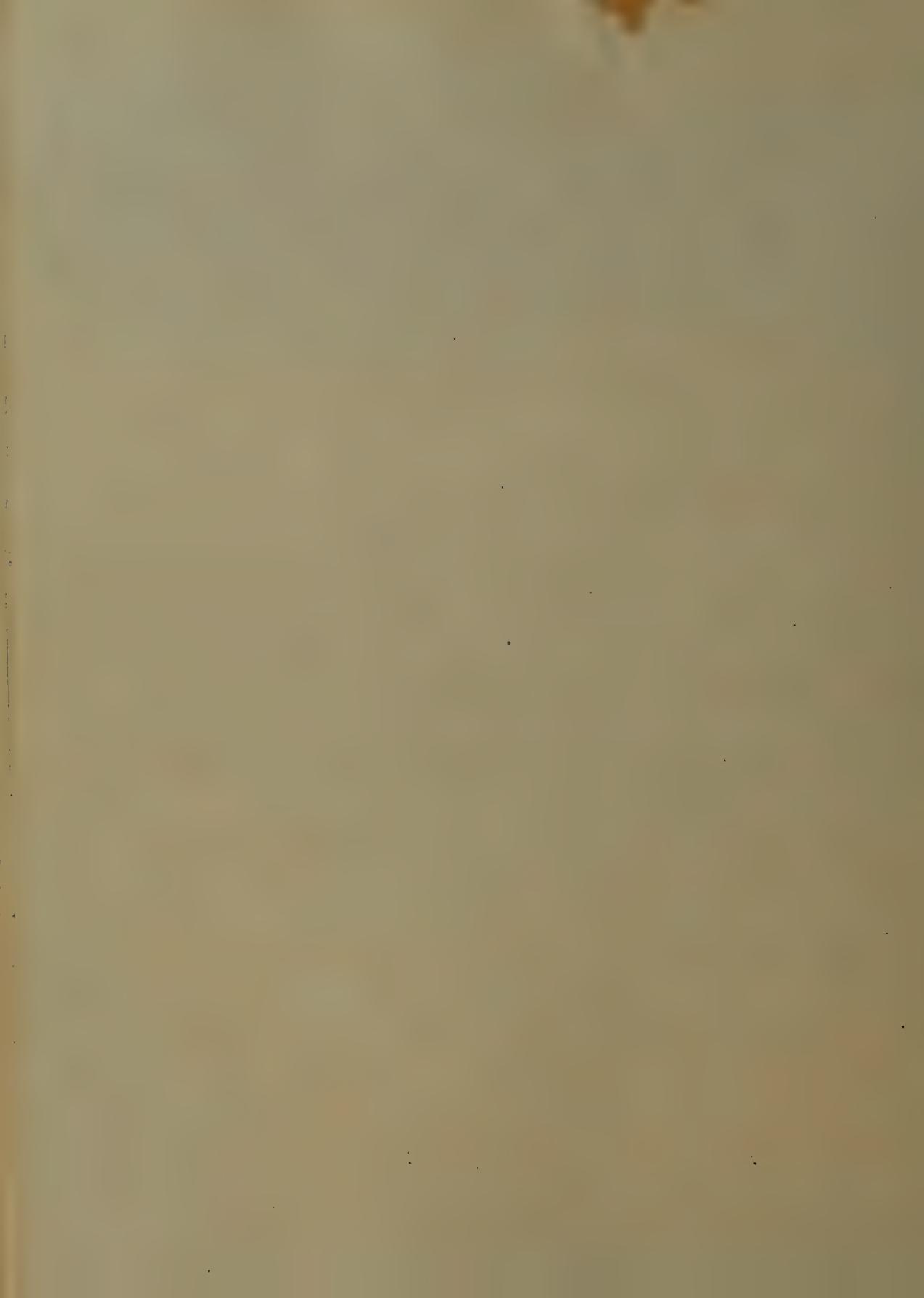
Time, and space, and the fear of trespassing upon the patience of the honored Faculty, (provided always that they so far honor my unworthy production as to read it) all forbid our following our little mite of a crumb through its early life when it first bids forth a tender grain of wheat, together with its fellow grains, the head and crowning glory of the parent stalk. We cannot stay to watch its gradual development from the soft delicate pulp we first find

it up to the hardy brown grain;
which, did we not require it for the
purpose of writing its history in
another phase of its life, might, like
some of its Egyptian ancestors, enjoy
the society of dead Kings in the
depths of a monumental pyramid
for a score of centuries and still
retain all its vitality, and become
the parent of another earm, to furnish
a Thesis subject to some aspirant
for graduating honors at the University
of Maryland in the year of our Lord
Thirty Eight hundred and Seventy Two!

But our particular grain has
another destiny to fulfil. We hurry
it through several eventful changes in
its existence:—from the sunny field.

where it first saw the light, it is separated from its fellows, and starts upon its own independent career, meeting with many ups and downs until its character and appearance are so altered by contact with the ways of its world that we can hardly recognize our former acquaintance in the snowy Crumb which has just presented itself for our consideration.

Here is our Crumb, with many others, lying before us. Its image falls upon the sensitive surface of the retina - the retinal nerves telegraph the fact to the *Corpora Quadrigemina* and *Corpora Geniculata* - these hold instantaneous consultation with other members of that complex and mysterious organ, the



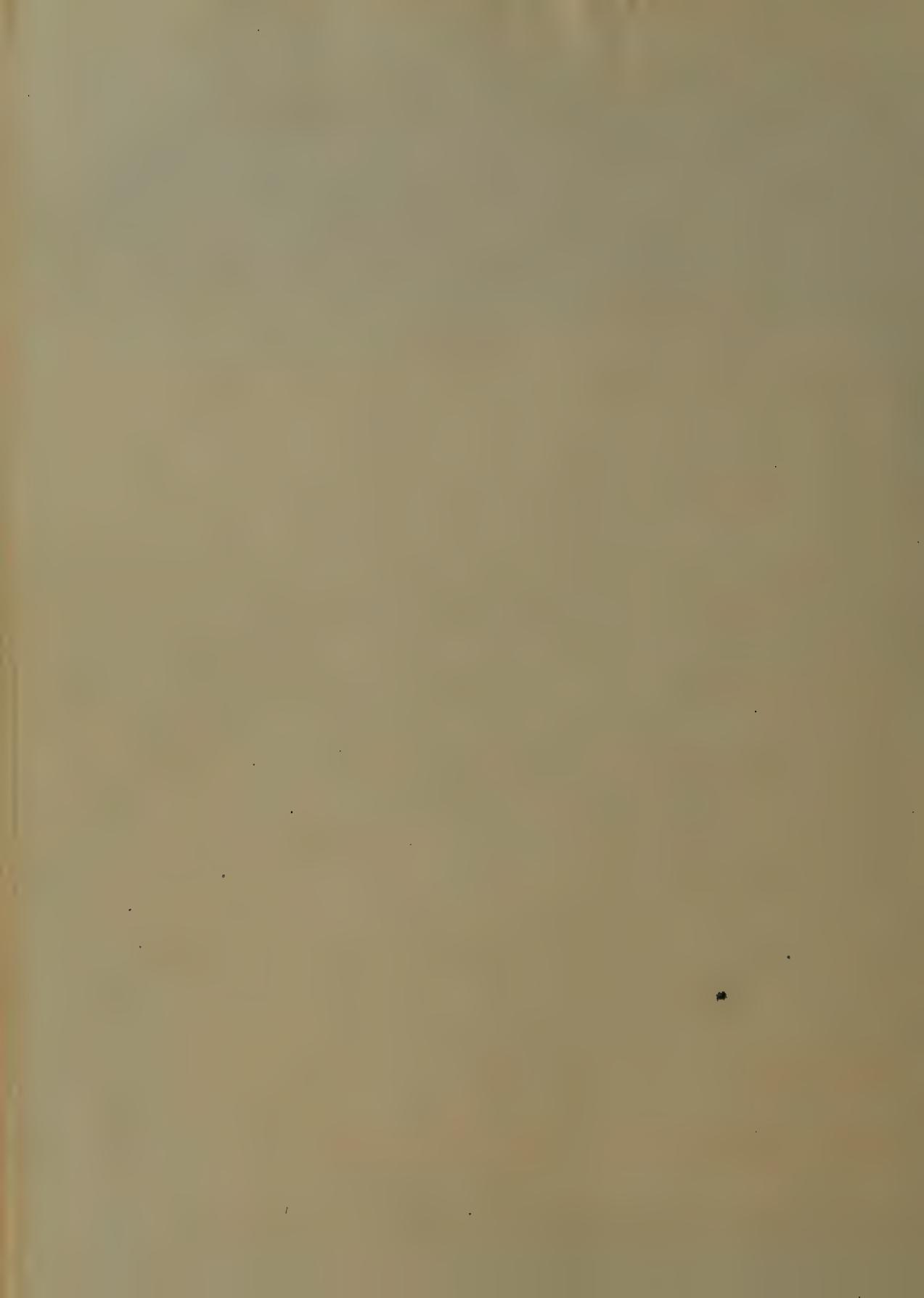
Cerebrum, which gives rise to a volitional impulse which expresses itself in a mandate issued through the media of Cura Cerebri, Medulla Oblongata, Anterior columns of the spinal cord, and brachial plexus to the arm and hand, calling into action the many different muscular contractions, each to an exact degree of nicety, which are requisite for the expeditious prehension of our crumb, and its introduction into the mouth; which is the first stage of its progress.

We will pause a moment, and consider this first cavity of the digestive tract in which our crumb is lodged.

The mouth, or "Cavum Oris," is, as we have just said, the introductory chamber

or vestibule to the Labyrinthine, incus
known as the Alimentary Canal. It is
bounded above by the hard and soft
palates; below, its floor is formed by the
Mylo-hyoidian muscles, although in the
process of mastication the tongue is more
properly its lower boundary, as the food
is seldom or never allowed to find its
way beneath this organ. The sides of the
mouth are bounded by the cheeks, and
it is closed anteriorly by the two muscu-
lo tegumentary curtains, the lips.

Behind, the cavity of the mouth is con-
tinuous, through the Isthmus of the Fauces,
with the next dilatation of the canal,
the Pharynx. The Mouth contains the
organs of Taste and Mastication. The
Tongue with its special Nervous Endowment,



acute sensibility, and great mobility: the Teeth, which cut and grind the food minutely, allowing the thorough permeation of the mass by the Salivary fluids, and which by their variety of form plainly indicate the omnivorous nature of man. There are a number of secreting glands in and around the mouth, which pour their products into its cavity. Of these, the Parotid and Submaxillary secrete a clear limpid fluid which assists chiefly in Mastication; whilst the Sublingual secretion is thick and glutinous, and its office is to furnish a smooth glary coating to the bolus of food, thereby facilitating its exit from the mouth and ready passage down the Oesophagus. The mucous Membrane

of the buccal walls and the tongue is also furnished with a glandular structure which supplies a fluid to lubricate the surrounding parts. These four distinct secretions unite to form the Complex Saliva. It is not our province to enter into the discussion of the physiological action of the Saliva in digestion. Admitting the catalytic action of its organic Ptyaline upon Starchy substances, our particular Crumb we will suppose to have escaped this change, and we will now return to it and follow it on one stage further in its course. We find that in our absence our Crumb has been tossed about by the tongue, saturated by the rivers of water that pour in upon it from all

sides, and has been without mercy-subjected to the trituration of the molars, and is now incorporated with a viscid, semi solid bolus, which is poised for a moment on the dorsum of the tongue preparatory to leaving the mouth by the process of deglutition.

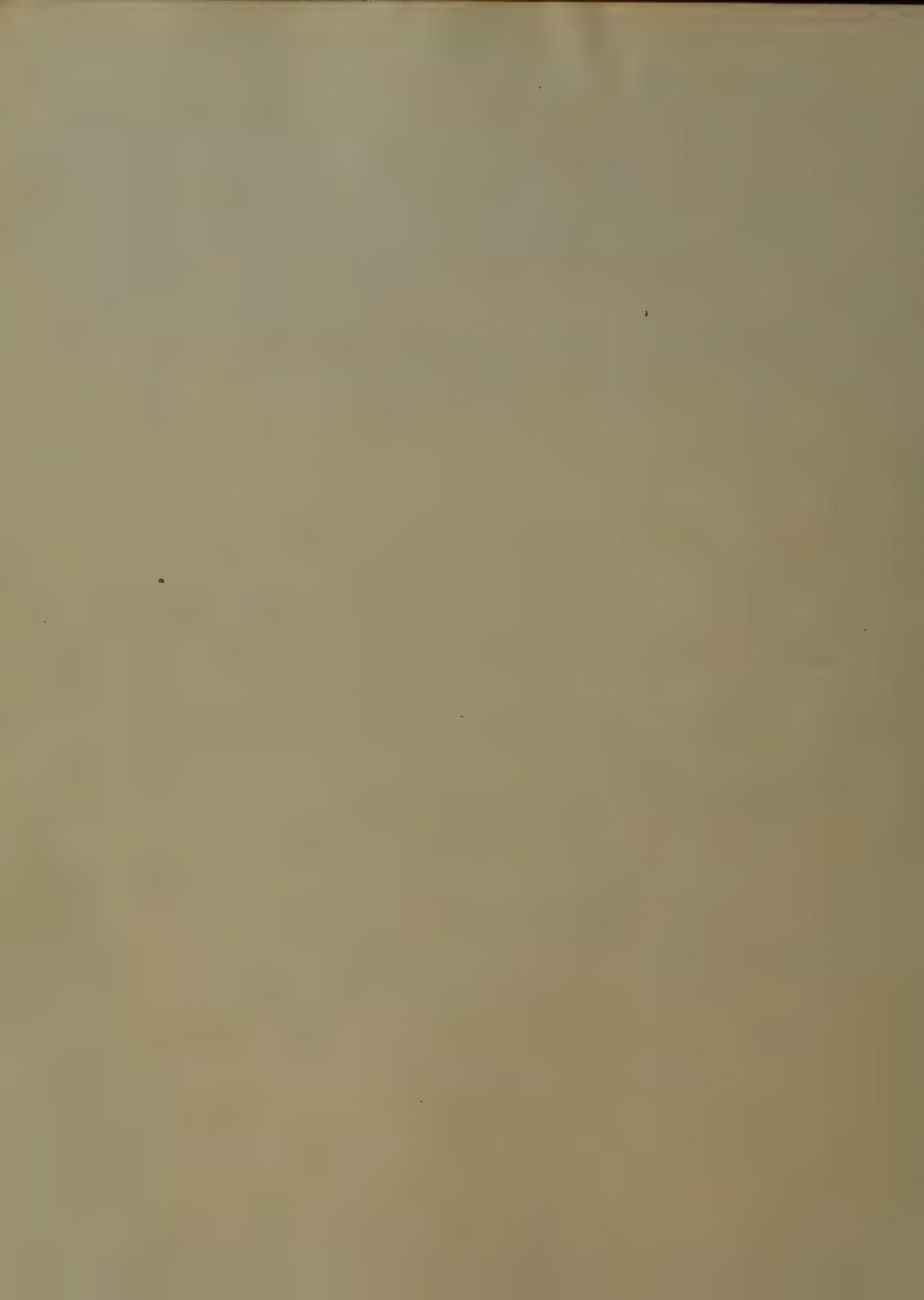
The tongue moves backwards by the action of the Stylo Glossi, Hypo Glossi, and anterior fibres of the Genio Hypo Glossi muscles, and at the same time, passing from before backwards against the hard palate above, the bolus is propelled backwards until it passes the anterior arch of the fauces. At this point all voluntary control of the movements is lost, and the action of swallowing becomes reflex. During this second stage of

deglutition the tongue, the muscles of the anterior and posterior half arches, and of the soft palate, and the constrictors of the Pharynx, are all in motion.

By the drawing backwards of the tongue and the elevation of the Larynx, which take place simultaneously, the Epiglottis is pushed down closely over the Rima Glottidis, thus effectually shutting off all communication between the Pharynx, which contains the descending food, and the Larynx. The, posterior pillars of the fauces, formed by the PalatoGlossi muscles and covered by mucous membrane, are thrown into contraction which brings them close together like curtains, nearly closing the communication between the Pharynx and Pa-

terior Stages; the Uvula is applied to
the little chink between the curtains
of the Posterior Pillars, and acting like
a valve, completely closes the fauces
above. The act of Swallowing con-
tinuing, the Constrictor muscles of the
Pharynx contract from above down-
wards, and the bolus containing our
Crumb is forced down into the Oesoph-
agus. The presence of the mass in
the upper part of this tube acts as an
exciting cause, through the Oesophageal
branches of the Par Vagum, and the
undulatory contractions of its muscu-
lar walls send the food down to the
Cardiac orifice, where its presence
is responded to by the opening of
the sphincter, and our Crumb enters

the Stomach. Here it finds everything
in a hub bub! It joins the food which
has preceded it, or which comes down
after it, and goes hurrying around the
Stomach, first to the left around the
great extremity, then along the greater
curvature towards the Pylorus, then back
along the lesser curvature, passing the
cardiac orifice, to repeat its first circuit
perhaps over and over again. This pouch
like compartment of the digestive tube,
the Stomach, is of the greatest importance
in the human economy, playing a most
conspicuous part in the operations of di-
gestion; but as its action in connection
with the fate of our Cumb is of a
somewhat secondary nature, we will
not notice it at length. Its lining



Mucous Membrane secretes, during the period of active digestion, an immense quantity of "Gastric Juice," amounting to many pints in the disposal of an ordinary meal! It is acid in reaction, containing, in addition to various salts, a peculiar Animal Substance the product of the Gastric Glands proper; and its action is confined almost exclusively to Nitrogenized portions of the food, converting these into a new substance fitted for absorption and assimilation. The only part our Crumb takes in this Stomach digestion is that of being thoroughly mixed and incorporated with the other contents of the Organ. Some of its companion Crumbs which may have been taken

greater degree impressed by the action
of the Saliva during Mastication
have the action continued, and are,
during their detention in the Stomach,
converted into Glucose, and being in
solution, almost as rapidly find
their way into the Capillaries, venous
radicles, Gastric veins, and so on to
the Liver. Our Crumb, however, having
escaped perfect insulation, we must
follow it on to the next stage of its
Career. Having passed round
the Stomach again and again, our
Crumb, now being a component part
of the semi-liquid Chyme, in approach-
ing the Pyloric Extremity is drawn
by a sort of suction force through
the Sphincter like opening, and enters

The Duodenum, the first or upper part of the Small Intestine. This is an irregular cylindrical tube, bent & curved in direction from the Pylorus backwards downwards, and across the abdomen, and is about Eight or Ten Inches in length. Its lining Membrane (Mucous) is extremely vascular, and is richly supplied with a glandular apparatus which secretes the fluid which chiefly has to do with the transformation which our Crumb has now to undergo. We cannot describe minutely this interesting membrane - Much more space and time would be necessary than we have at our command to dwell at length upon its projecting

villi, with the Lieberkuhnian follicles dipping down between - its curiously convoluted glands of Brunner - its ductless Glandulae Solitariae, to which no functions can be ascribed unless they be considered as belonging - ing to the Lymphatic System, and finally, the folds of the Villosae communi- ventes, which are admirably adapted to retaining or retarding the chyme in its passage, and thus giving more time for the solvent action of the Intestinal Juices. These juices are three in number, that from the Liver, the Bile, that from the Pancreas, and that which more nearly concerns us, the juices poured out by the Follicles of Lieberkuhn and the Glands of Brunner. The first two

secretions, i.e. the Bile and Pancreatic
Juice, enter the Duodenum, about three
or four inches below its commencement by
a common inlet (the Ductus Communis
Choledochus) which is formed by the
union of their respective ducts a short
distance above the opening into the gut.
The Intestinal Juice proper is poured
out from the walls of the Intestine, and
coming in contact with our Crumb
quickly brings about in it a complete
alteration: and although it has been
followed down to this point, and has
preserved its identity intact through
more than one trying circumstance,
and in the Stomach it may have
parted with its minute portion of
Gluten and Chloride of Sodium, it was

still recognizable after its entrance into the Intestine; but here its very chemical elements are rearranged, and our Grumb is starch no longer, but Saccharine in its composition.

This little particle of Sugar, being held in perfect solution, is presented to the epithelial extremity of one of the Villi, and through the instrumentality of Endosmose and diffusion of liquids passes through into the extremity of a venous rootlet, and has now escaped from the Intestinal Canal and is fairly within the great Circulatory apparatus. With the returning current of blood our Drop of Solution of Sugar is carried from one small branch to a larger one of the Superior

Mesenteric Vein, until it reaches the trunk of that vessel in which it proceeds onwards, reaching the current of blood from the Splanchnic it is carried on in the great Portal vein into the Transverse Fissure of the Liver until it reaches one of the small ramifying branches distributed to the substance of that organ. If we follow our current, which has become a drop, through the Capillary Circulation of the Liver, we shall see it in a terminal Portal Capillary, which, enveloped in one of the attenuated extension of Glisson's Capsule, encircles a Lobule, and dips some distance down into the acini of which it is made up. In the substance of the Lobule our drop of

Glucose is converted into Liver Sugar in order to fit it for assimilation further on. The drop finds itself, after a while, in the centre of the Lobule, and getting into one of the Capillary extremities of the Hepatic vein is emptied into the ascending torrent of the Vena Cava, and is soon in the Right Atricle of the Heart. It then passes into the Right Ventricle, thence through Pulmonary Artery with the Venous wave to the Lungs, where it has another Capillary Circulation to encounter. Somewhere in this Pulmonary circulation another great change is wrought, and the drop is changed just as completely as was the Crumb in the Intestine. The Sugar is entirely decomposed, and its constituent

atoms of Carbon, Hydrogen and Oxygen
form new combinations in the blood.
Now what combination is formed by
our particular atoms of C. H. O. must
be necessarily hypothetical. In order,
however, not to lose sight of them just
yet, we may suppose that they have been
appropriated by a Red Corpuscle of the
blood, evading the discussion as to
whether the sugar is converted first
into Lactic Acid, and then into Lactates
of Potassa and Soda by decompositon
of the Carbonates. We shall retain our
Red Corpuscle without change through
the Pulmonary circulation. It will
return with the Arterialized blood
through one of the Pulmonary Veins into
the Left Auricle, and ^{by the} Auriculo Ventriculo.

opening into the Left Ventricle.

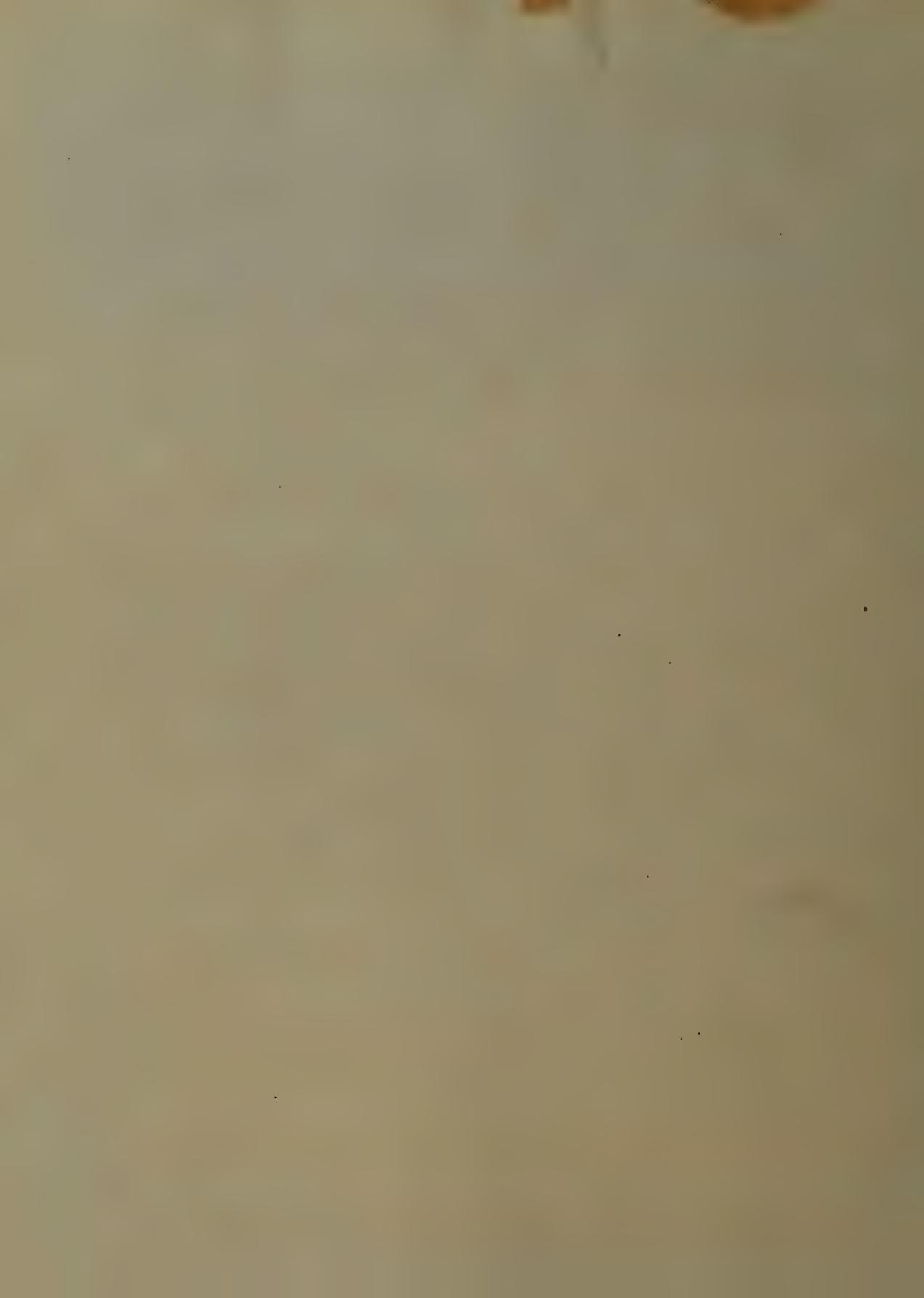
Now the next Systole of the heart will send our Corpuscle out into the Aorta, and having it there, which will it take of the many roads before it?

But we cannot turn, as the Contracting Aorta is sending our Corpuscle upwards and onwards, and we must follow it wherever it may go. On it goes - up towards the arch of the great Arterial trunk - Safely passes the mouth of the first large branch, the Innominate - sweeps on around the Arch, narrowly escaping the Left Carotid, and, being near the wall, is caught in the stream setting towards the Left Subclavian. But no sooner than it gets well started

on its new course than it again switches off, and is carried upwards into the Vertebral Artery. By this new channel it ascends nearly perpendicularly through the bone foramina in the Transverse Processes of the Cervical Vertebrae until it reaches the Atlas, when after a sharp turn it is ushered into a large vessel, the Basilar, formed by the confluence of the two Vertebrates. After reaching this point our Course continues onward into the Posterior Cerebral artery, and in the tortuous course of this vessel in the substance of the Pia Mater, and its frequent anastomoses with the Anterior Arteries of the Cerebrum it is seen passing

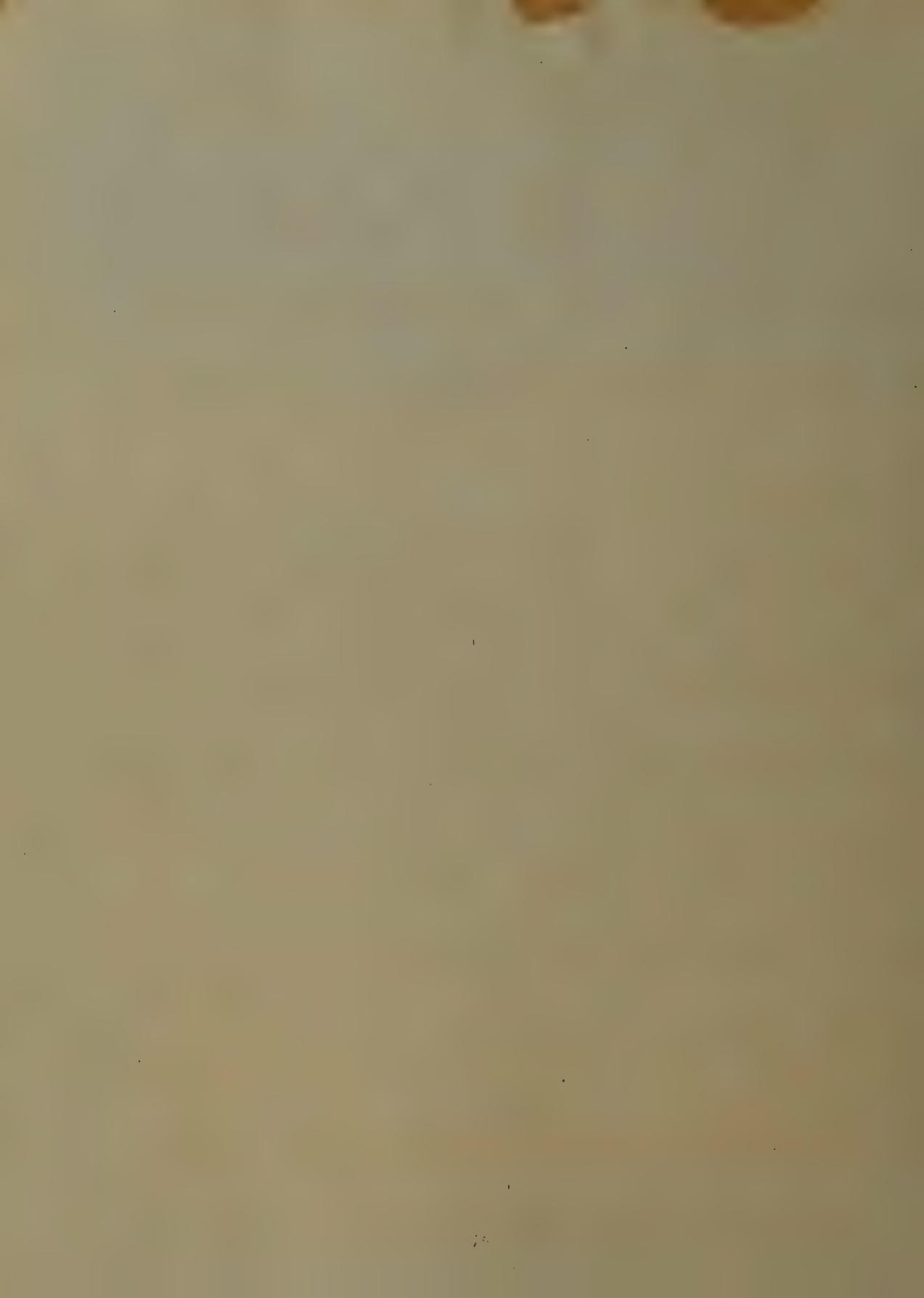
along through a minute Capillary
on the Surface of a Convolution
of the Brain. Here, it may be, this
Red Corpuscle becomes broken up
and disintegrated, for our convenience,
having come to the end of its natural
life. Now our three chemical
Elements are cast adrift again in
the Blood of the Capillary, and may
form an almost endless variety
of Combinations. Let us suppose
that by some fortuitous coincidence
our Elements remain together, and
meet in with an atom of Nitrogen
(possibly that furnished by the Gluten
of our very Grub) together with one
of Sulphur, Iron &c., and, being exposed
to the action of that mysterious vital

process by which every Living Tissue appropriates to itself and assimilates such nutritive portions of the blood as may be required to supply the constant loss or molecular death of the Tissue, our elements, united with others, may at last be vitalized and become a Point of Gray Matter, or a Gray Nerve Cell, on the surface of the Cerebrum. But here it cannot long continue. The Gray Nerve Matter being among the most highly organized, is necessarily one of the most fleeting of all the tissues, and is undergoing continual and rapid change. Every Mental Impulse is conceived at the expense of some portion of the substance of the Brain,

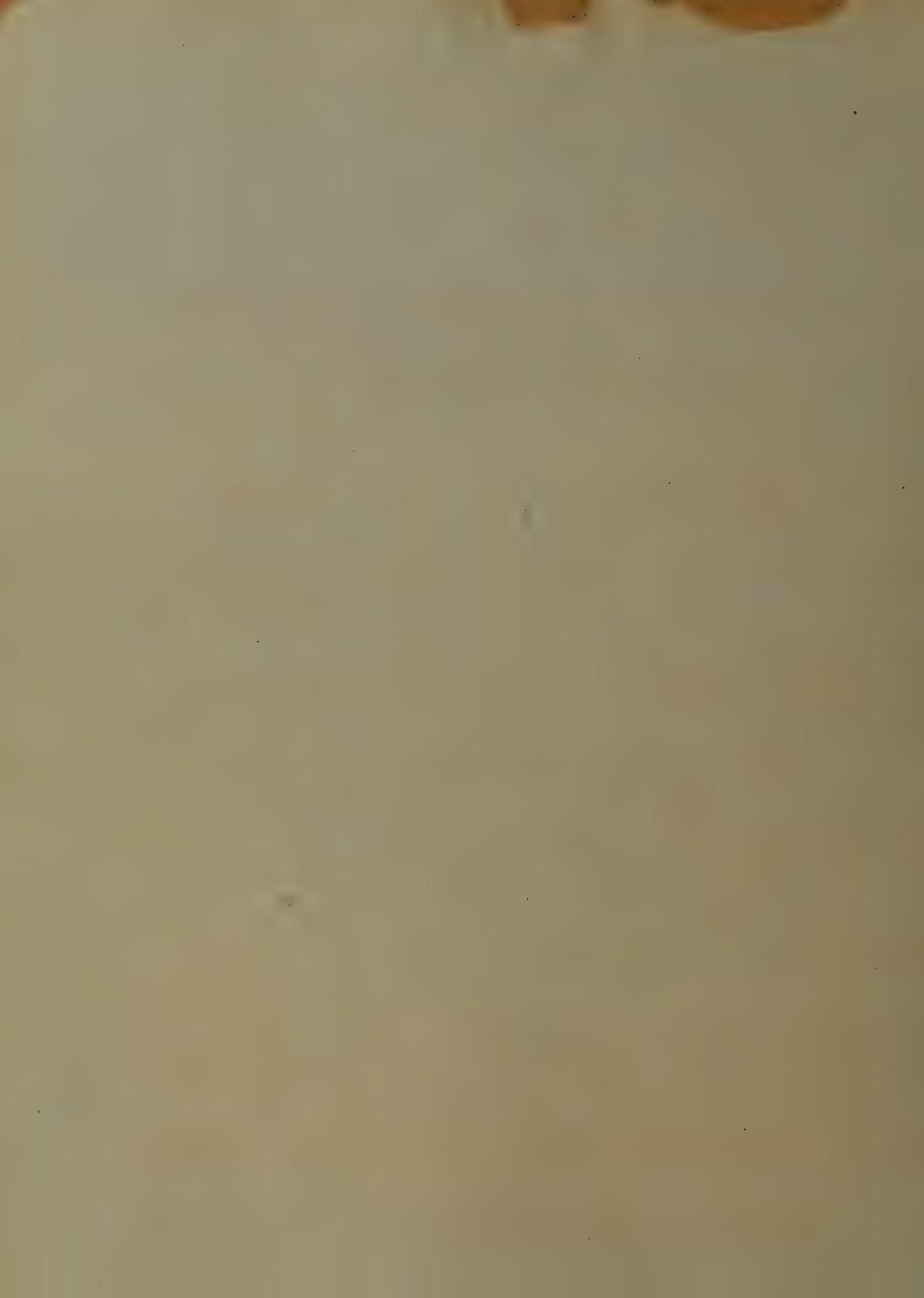


and, sooner or later, our little Point of Cineritious matter is expended by a thought, returned to the Capil-laries, thence to a Cerebral vein, the Longitudinal sinus in the upper edge of the Falx, Lateral sinuses, Jugular vein, and so on down by the Innominate vein & descending Aorta to the Right cavity of the Heart.

What is now the character and what the metamorphosis which our fragment of Brain has undergone? Well, in the process of Destructive Assimilation we will suppose that it has parted with its Iron-Phosphorus &c, but retaining its Nitrogen the result is Urea. Now our road is clear to the end of the chapter.

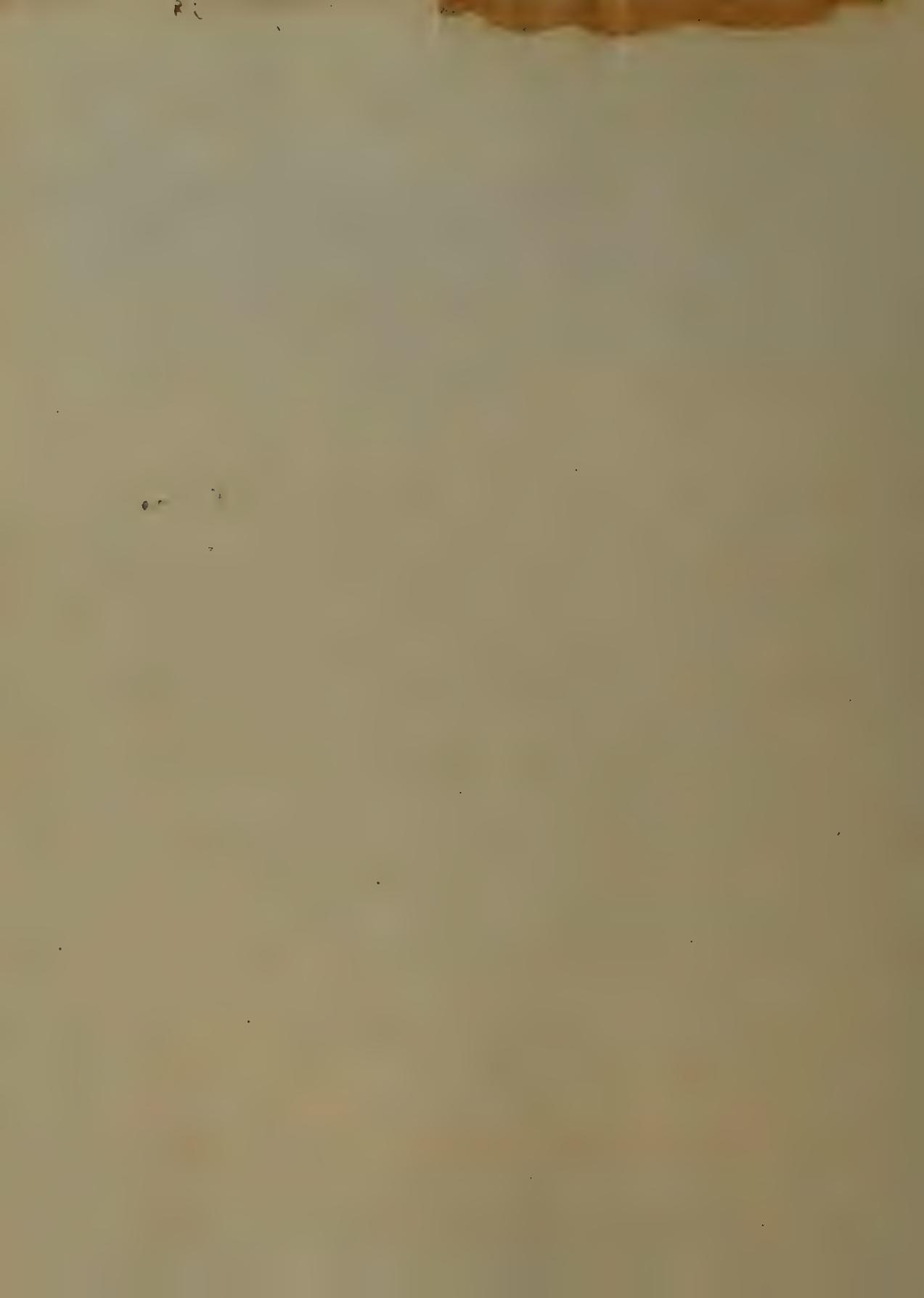


From the Right side of the Heart
the blood, containing our Equivalent
of Urea in Solution, passes through
the Pulmonary or Lesser Circulation
again to the Left side of the Heart.
From here it goes out through the
Aorta, this time going safely by
the mouth of its old turning off
place the Subclavian, onward down
the Aorta to its abdominal portion,
and soon after passing beyond the
Pillars of the Diaphragm, turns al-
most at a right angle into one of
the Renal Arteries, and is soon
in the Capillaries of the Kidney.
It will follow one of these Capillary
vessels which happens to have received
our Urea. After it ^(the artery) breaks up in



27

the Cortical Substance of the Kidney
each Capillary terminates in a Tuft
or Malpighian Corpuscle, which is
formed by the Convolutions of the Capil-
lary vessel itself, the walls of which,
being extremely thin, allow the easy
transit of the watery portion of the
blood with the substances held in so-
lution. In this way, or by this route,
our Urea gets into the bulbous extrem-
ity of an Urinarius Tubulus, and, with
other excretions substances dissolved
in the urine, it descends through the
Pyramids of the Kidney into the renal
Vesico, where it is received by the
open mouth of the Ureter and con-
veyed down to the Bladder. After
a sufficient accumulation of urine

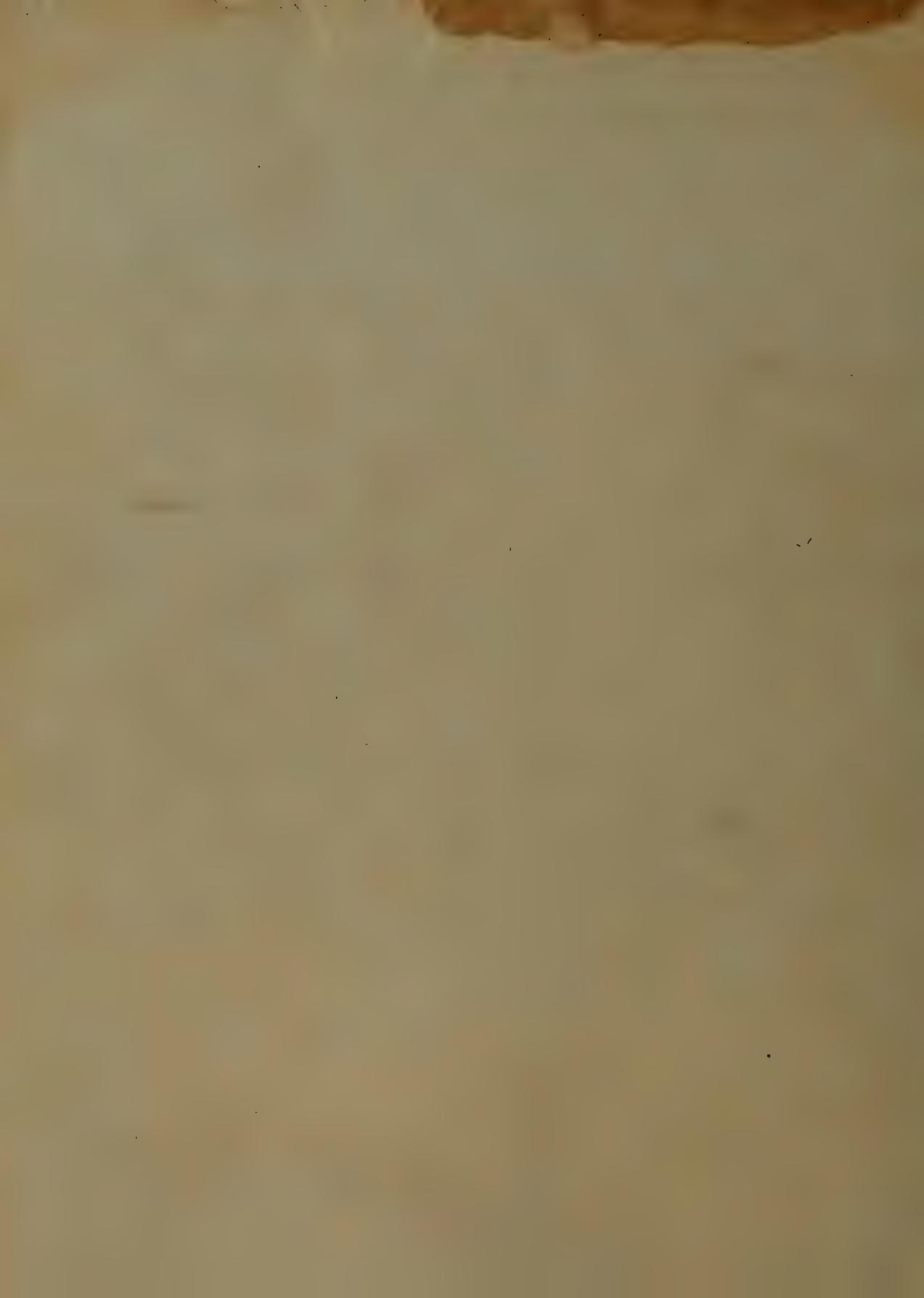


it is passed out through the urethra
in the act of Micturition, and our
Modicum of Vesta, our transformed
Crumb of Bread, is returned to
the Earth from whence it came,
to be again decomposed, and to go
through future endless changes thereby
proving the truth of the old saying
that "There is nothing new under
the Sun."

Geo. E. H. Harmon.

Baltimore Infirmary

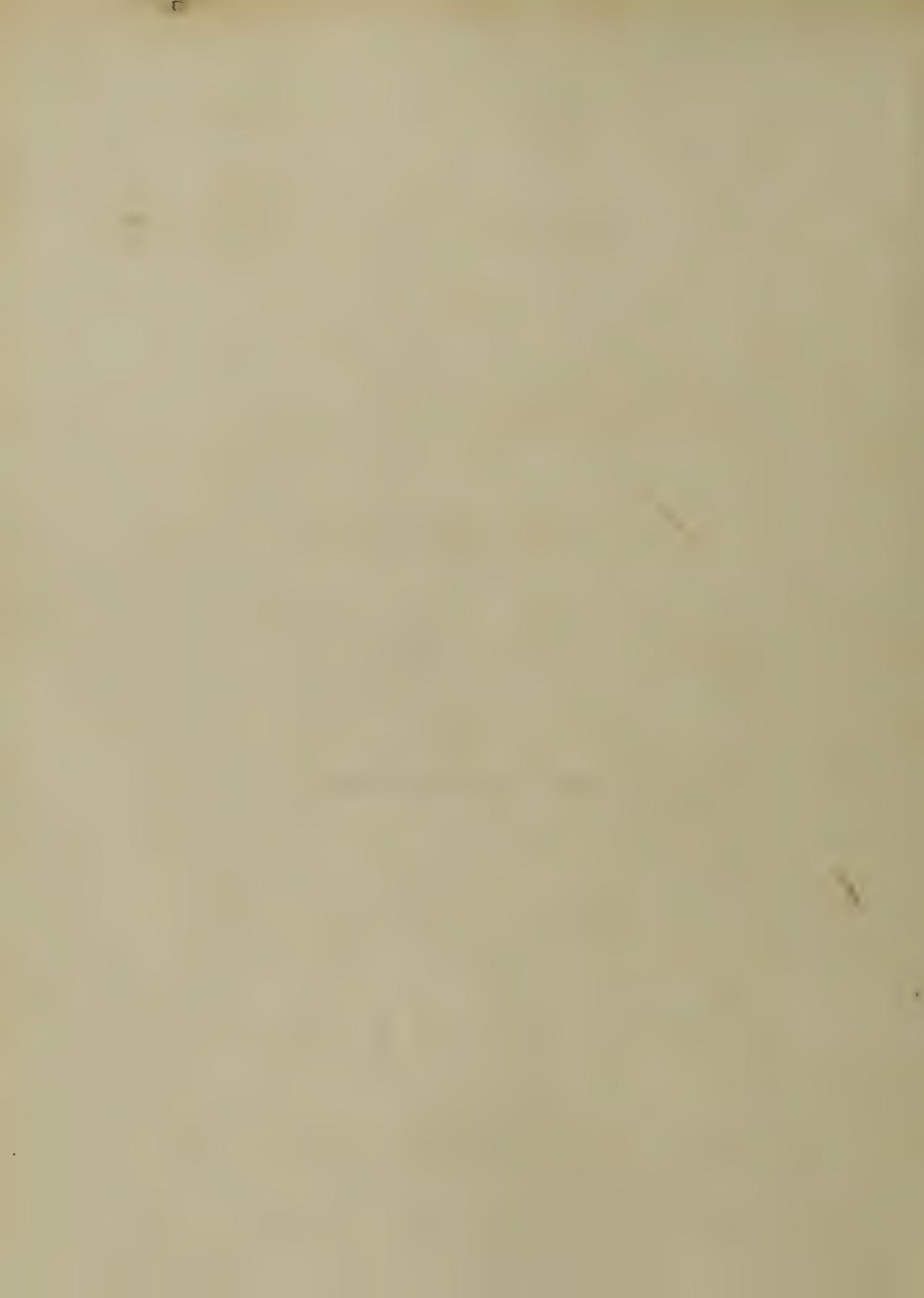
February 14th 1872.



This
on
Anæsthesia
by
Henry P. Ray,
of
Mississippi.

University of Maryland.

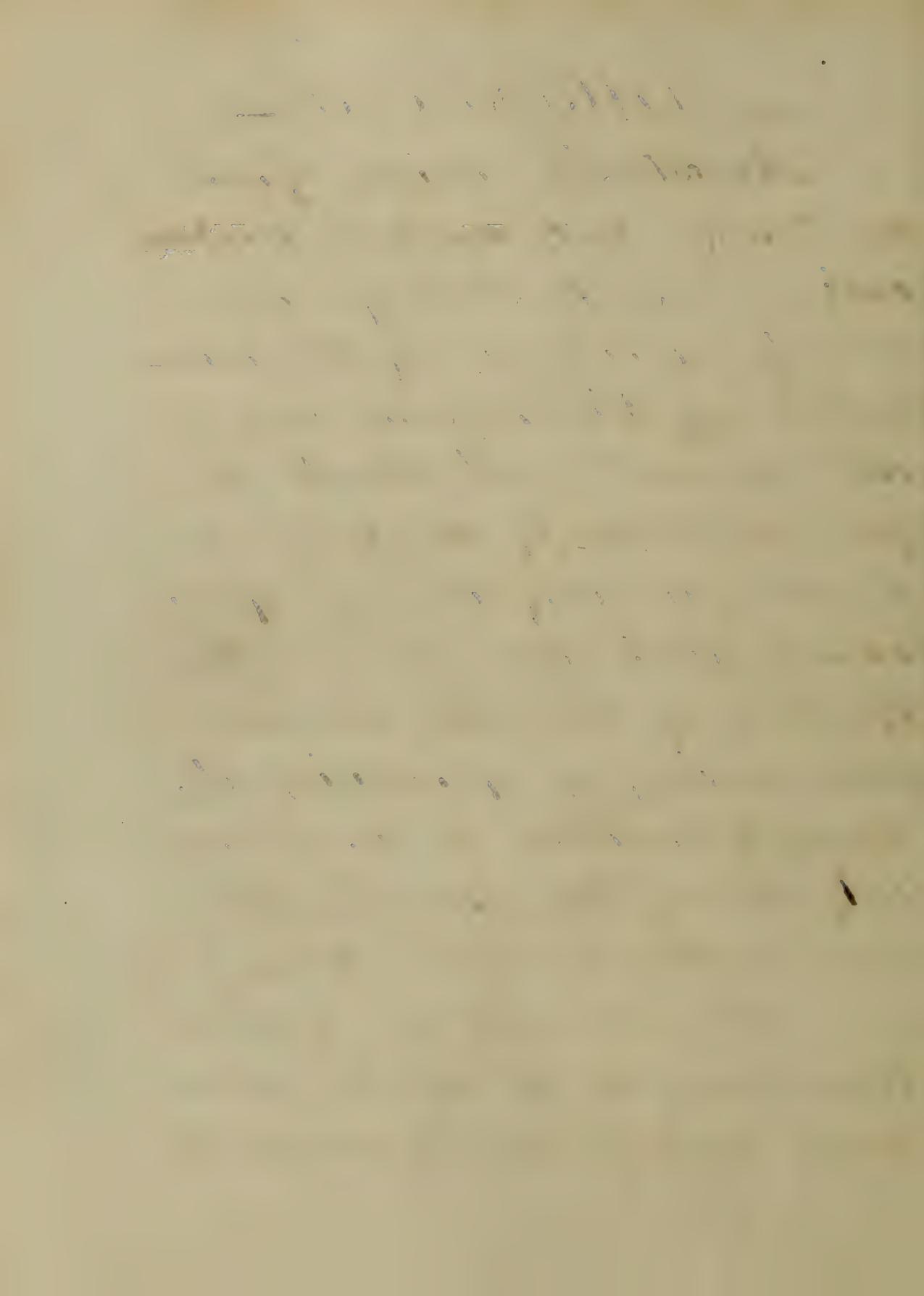
Session. 1872.



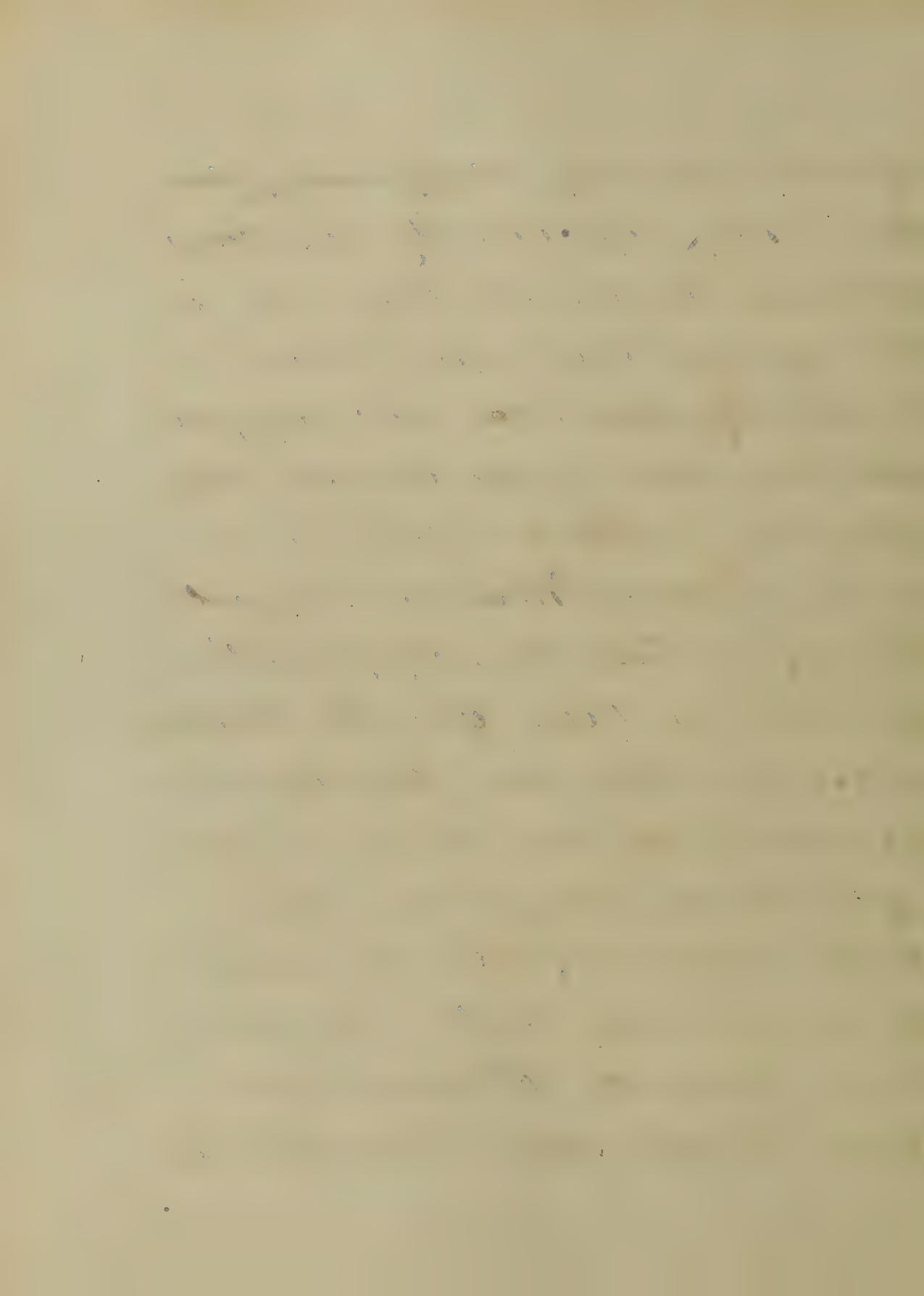
Anaesthesia

Anaesthesia derived from the Greek *a*-νησις, *a*-ναι, and *θεσις*, *to feel*, a state of insensibility produced by the inhalation of Chloroform and other agents. It blunts the pain inflicted by the knife, as it saws its way through good human flesh, and relieves the operator of the sore distress and anxiety of producing it; hence, Anaesthesia is considered truly, one of the greatest gifts ever bestowed upon man.

The condition of perfect Anaesthesia, is one of the most grave and frightful conditions



of life, and by suspending more
than half of vitality, it comes
so near to death, that it is
wonderful how near that
boundary line can be appro-
ached, and yet be so rarely
passed. Thus again, ever
since Horace Wells introduced
the practicable application
of Nitrous Oxide gas to Dental
Surgery, who in the opinion
of most writers, is in every
practical respect, the
discoverer of Anæsthesia,
and deserves both the honor
and reward. Anæsthesia
has been of great benefit in



Alleviating the sufferings of patients, but not with success until Simpson discovered the properties of Chloroform.

Anæsthesia is divided into two grand divisions, viz: General & Local.

General Anæsthetics act by going to the circulation, and prevents the blood from taking a certain amount of oxygen. Thence it affects the nervous system. The first appreciable influence then, is upon the nervous system.

The patient becomes excited, boisterous and talk-

ative as a general thing, and again, they are quick and manageable, and a state of unconsciousness is induced, the whole muscular system at the same time becoming rigid and thus exercising great strength.

At this period of things, the pulse is usually accelerated and stronger than natural.

As the administration of the Anaesthetic goes on complete paralysis of sensation and motion is induced.

The patient becomes unconscious wholly of all outward impressions; the muscles become

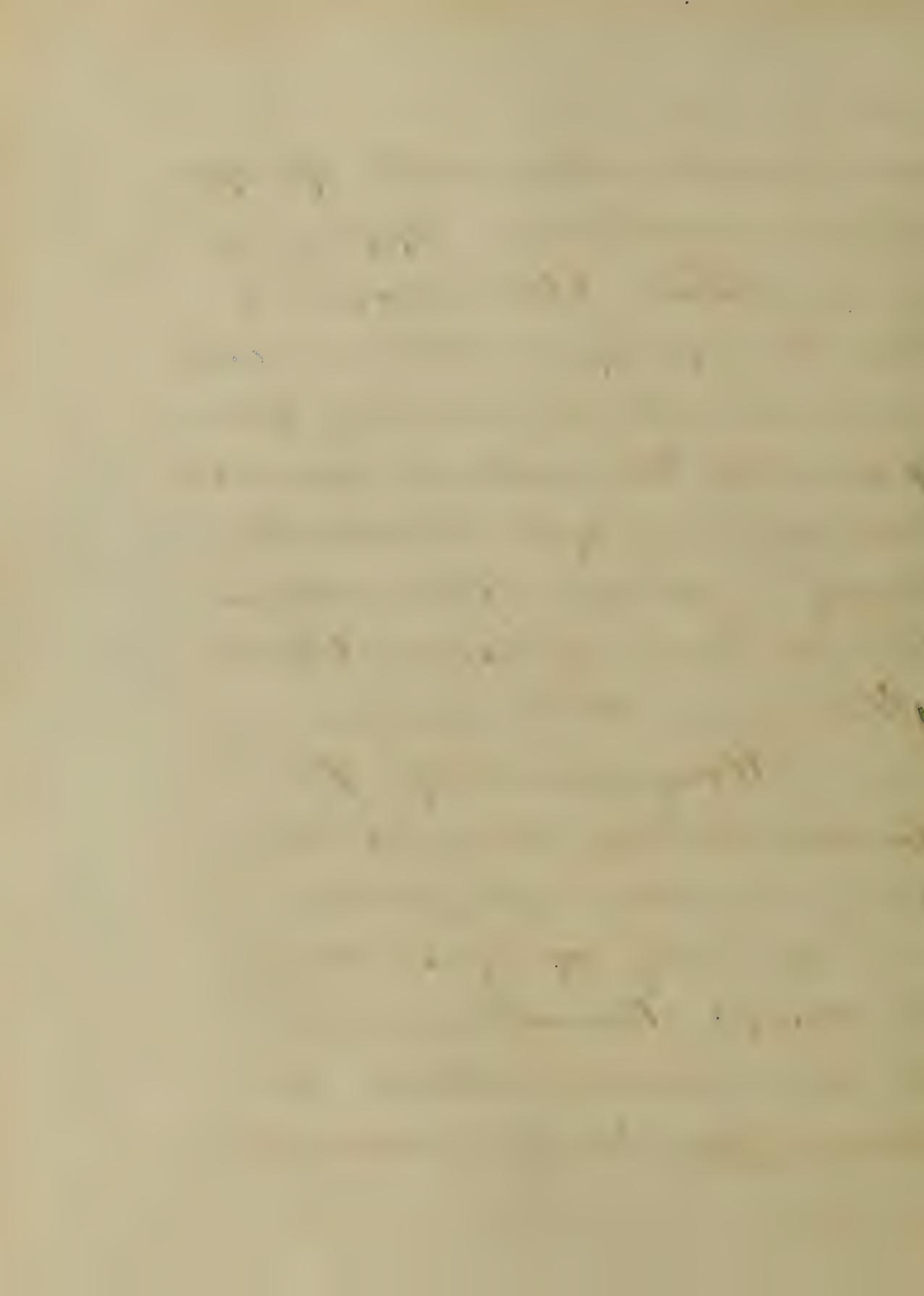
relaxed and the action of the heart slow and feeble - respiration becomes feeble in proportion as the Nervous System and energy of the muscular movements are lessened.

Such is General Anaesthesia. It can be best effected by inhalation from various contrived apparatus for the purpose, which will be described in speaking of Special Anaesthetics.

Various Anaesthetics have been employed; but those that have been well tried up to the present time are three

in number; and with proper discrimination in applying each of these appropriately, and the proper skill in using each, all the legitimate purposes of Anæsthesia can be accomplished with reasonable safety. These three Anæsthetics are, Nitrous Oxide, Ether and Chloroform.

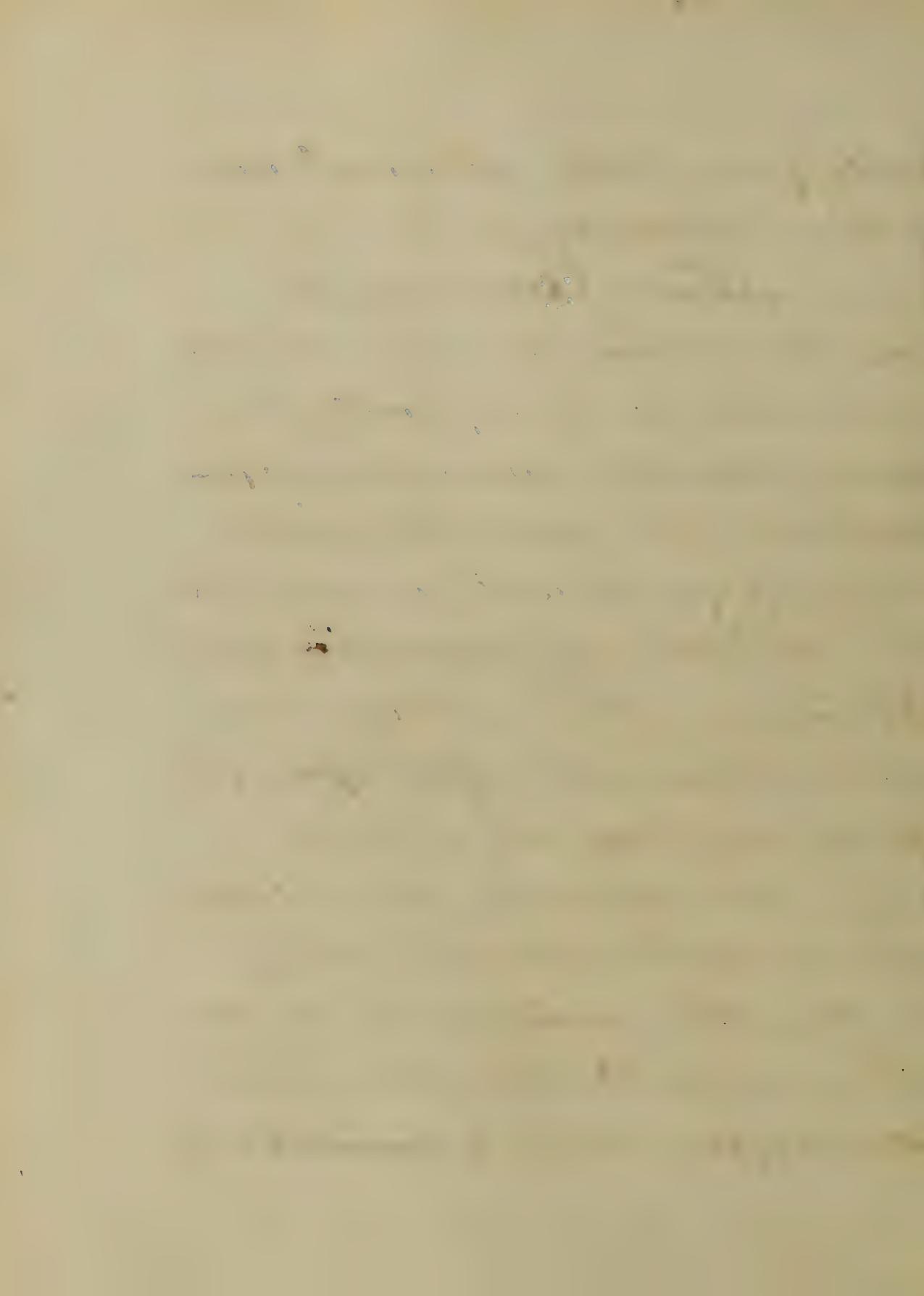
Compression of the Pneumogastric nerve in the neck has been proposed as a safe way of producing temporary Anæsthesia, which if such means should be found practically successful-



would prove to be of great gain
to Minor Surgery.

Nitrous Oxide, was the
first Anæsthetic, and is said to
be quite safe in experienced
hands for all momentary op-
erations. It must be given
perfectly pure and unadulter-
ated with air. It completely an-
aesthetizes. Patients generally
recover from its effects prompt-
ly without any ill effects.

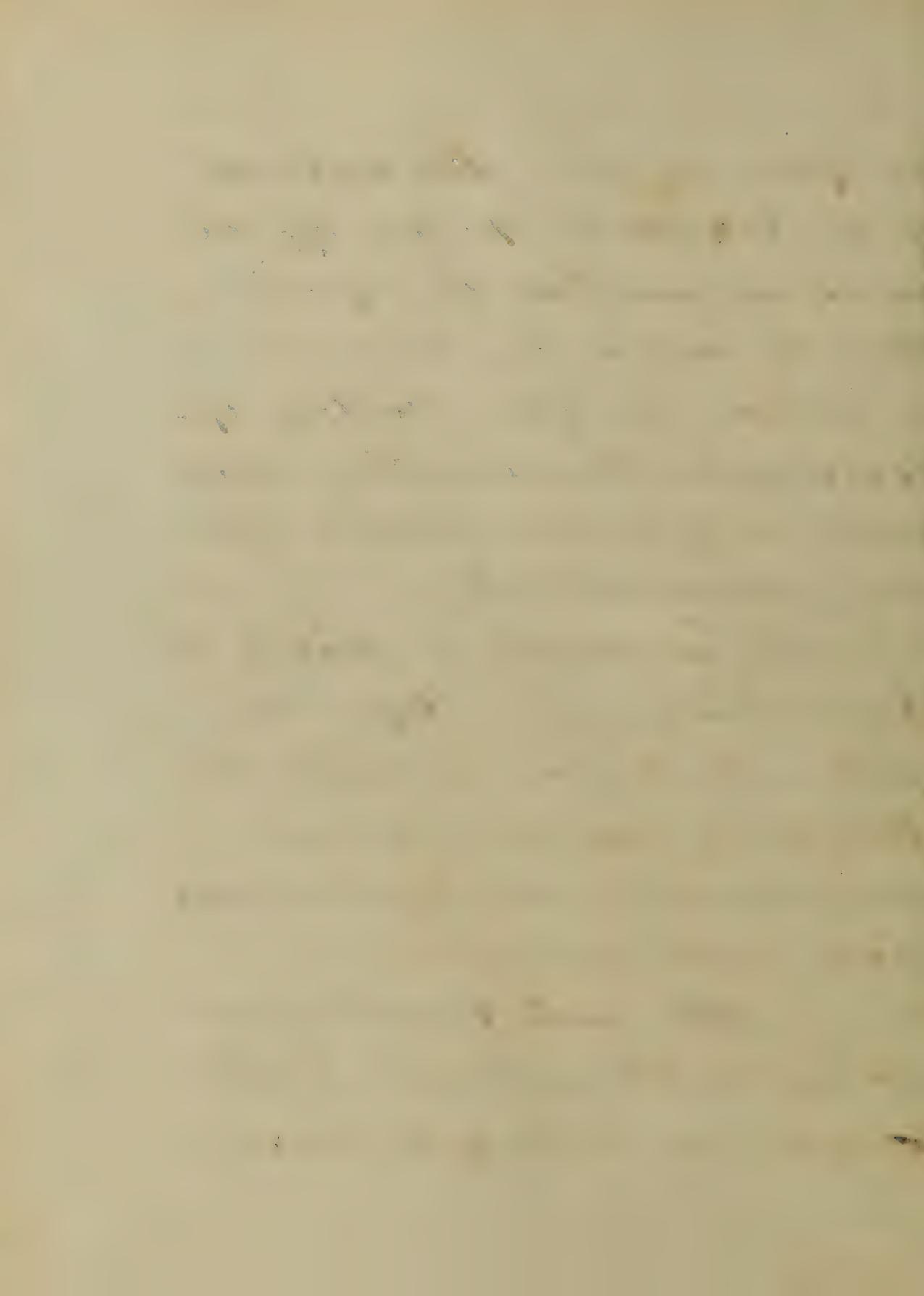
Its inhalation, however can-
not be continued with safety
beyond a few minutes, in as
much as it induces the state
of Asphyxia when administered



in pure state. The influence of the Anæsthetic passes off almost as soon as the patient ceases to inspire it, consequently, it will not do for cutting operations, as the smarting afterwards is felt as much as the sting from the cut.

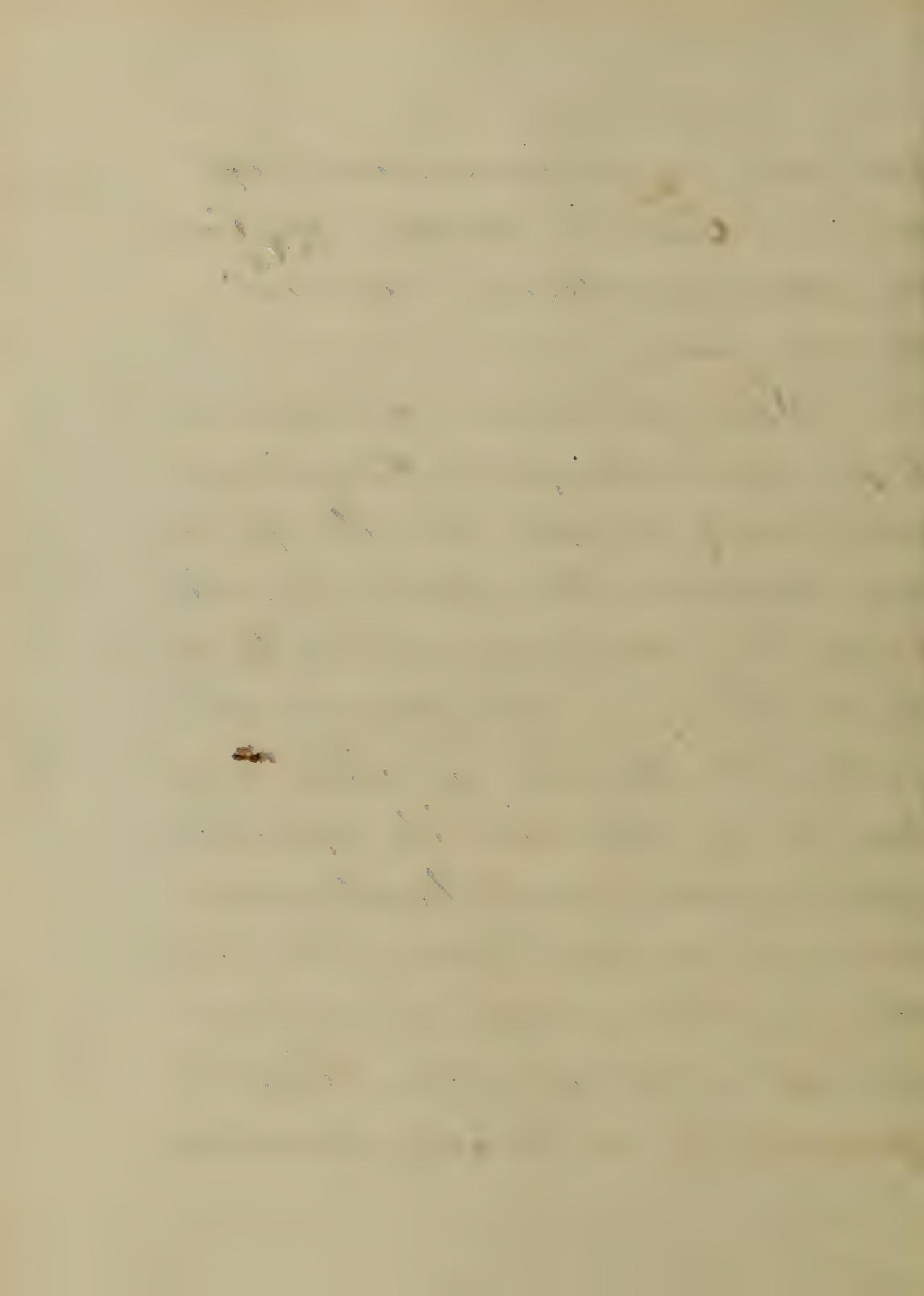
It is confined chiefly to Dental Surgery. Upon the whole it is far inferior to Ether or Chloroform, as an Anæsthetic, in all ordinary Surgical operations.

The new Anæsthetic is Ether, sometimes Sulphuric Ether, and is considered by some



far the most important of all. Ether is generally applicable, and practically safe in common use.

Some few doubt its power to produce complete Anæsthesia with safety to life, in its primary influence, the great objection being the supposed difficulty of application. The common objections to the use of Ether are, that it is slow in its operation; causes a long and troublesome stage of excitement; and that after these disadvantages have been submitted to, it often fails to produce a sufficient Anæsthesia



from any reasonable quantity that may be given. Six or eight fluid ounces are generally used in the effort to get patients through the stages of intoxication.

The patient and bystanders and indeed the whole apartment become charged with ether-vapor, to such an extent that the air is in danger of exploding and causing an accident from fire. Another great objection is, that it takes half an hour to control the struggles of the patient, to enable the operator to get through satisfactorily, in a reasonable time.

Ether is preferred in the North being the only article used.

Some prefer a mixture of Chloroform and Ether; I believe such is used in New York.

The administration of Ether is effected by the application over the nostrils, a hollow sponge, on a Towel folded in pyramidal shape, with opening at apex, sufficient to let air pass, saturated with the best vapor.

These modes, I think are preferable to complicated whalers in as much as there is a sufficient admixture of atmospheric air, all danger of

Asphyxia is avoided so much for Ether as an Anaesthetic.

The most popular and generally used Anaesthetic, Chloroform, comes next in order.

Chloroform is the most rapid, the most certain, and the most effective Anaesthetic, which has been practically applied on a large scale up to the present time. When to these prominent advantages are added the facility and simplicity of its administration, the small quantity required, the facility of getting it of good quality, its non-inflammability, its asepsis, its

agreeable odor, and the prejudice in its favor, to which all these circumstances will always tend, the key to its popular use is found.

There is another side to the account of Chloroform; that is its excess of power, & this excess involves power to do harm, which long experience has accumulated against it. It will undoubtedly do harm, when too freely and carelessly administered.

There are different opinions among writers as to the increase and decrease of mortality from Chloroform. Erichsen holds

that it is increased.

It seems of late years deaths from Chloroform are very rare indeed; scarcely even hear of a case. However it has its dangers. Its greatest danger is an over dose, and the danger of administering to patients of constitutions complicated with diseased conditions of System. Great care must be taken in Cardiac troubles, lest the hearts action be checked suddenly. There are some necessary precautions which must be observed.

See that the patient is

free from heart trouble, and of
good constitution, in the first place;
then see that the Administrator
is one of capability, and that
full reliance can be put in
him. Take care that it be
not given too suddenly, or in too
concentrated a form, and whilst
under its influence the patient
be not raised into the erect po-
sition, as it exercises a power-
ful sedative influence on the
heart's action, and may cause
fatal syncope.

Care should be taken to
remove all restriction from the
Abdomen, Chest and Neck - let

then be free. It would not do the patient any harm to do without dinner, just before taking it, that is the Chloroform.

With all care and due caution, it may be administered to all ages, old & young with perfect safety.

There are any number of ways in which Chloroform can be administered-

Any apparatus which will admit a sufficient amount of Atmospheric Air, will serve the purpose. It should not be pulled down over the nose with the first few

inhalations, lest the lung be filled with too strong a mixture.

One or two Drachms is considered sufficient to produce Anaesthesia; but in Hospital Practice it is given ad libitum; if there is more than enough, it is evaporated.

We know that the patient is under the influence of Chloroform, when the whole muscular Apparatus is relaxed; insensible to impressions.

The eye-lids drop, the pupils are contracted, breathing slow and sometimes stertorous. The breathing becomes

obstructed by the falling of the glottis; in such cases, take a pair of forceps or Tenaculum and seize the Tongue and pull it forward so as to admit the free passage of air.

Patient may be kept under its influence for all capital operations.

The most tedious operation may be performed under its influence.

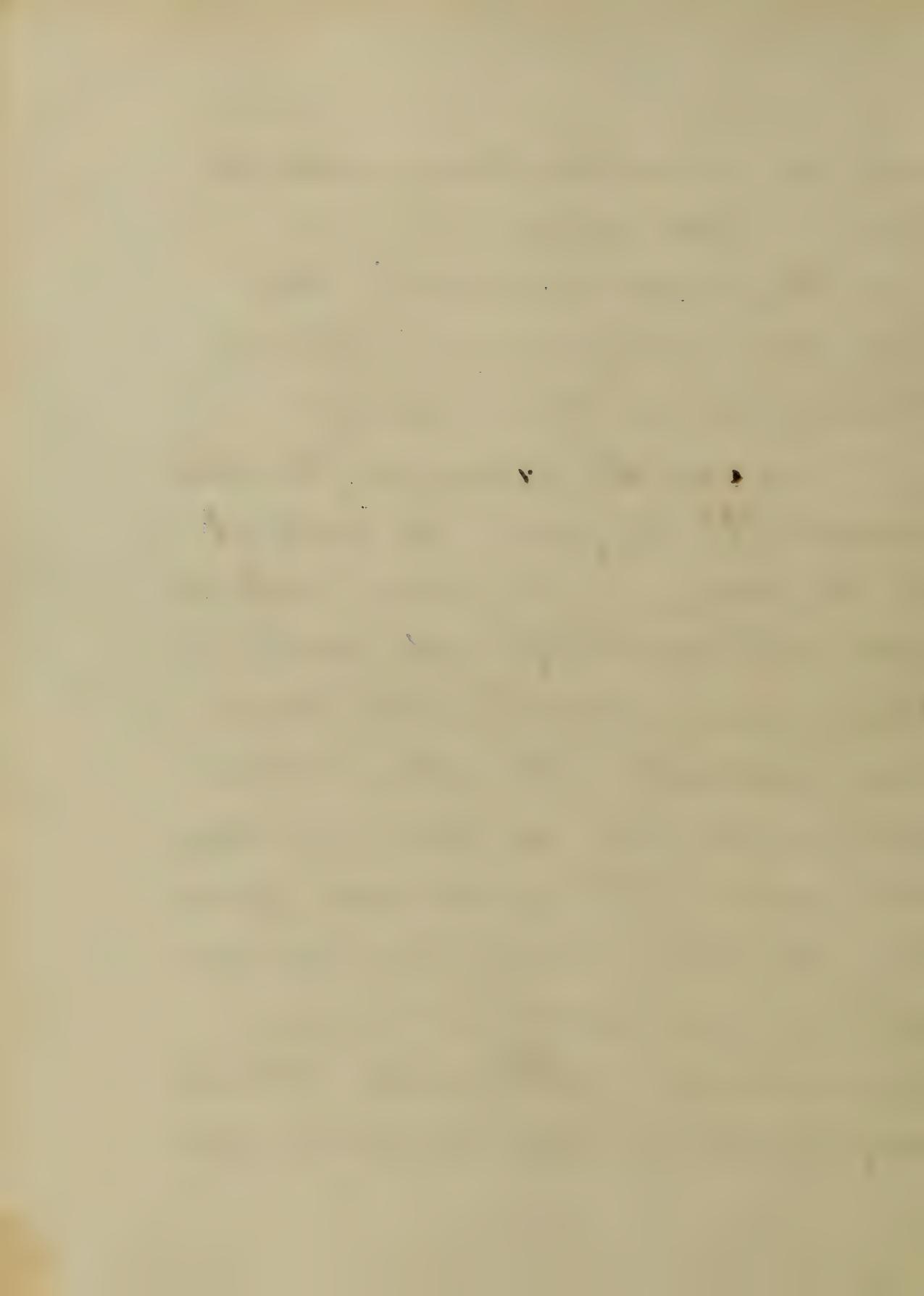
The after effects are slight generally there is a little head ache, depression of spirits, and sometimes vomiting; but all these pass.



away in a short time, and the patient all right.

We now come to the Second Grand Division - Local Anaesthesia. What is it?

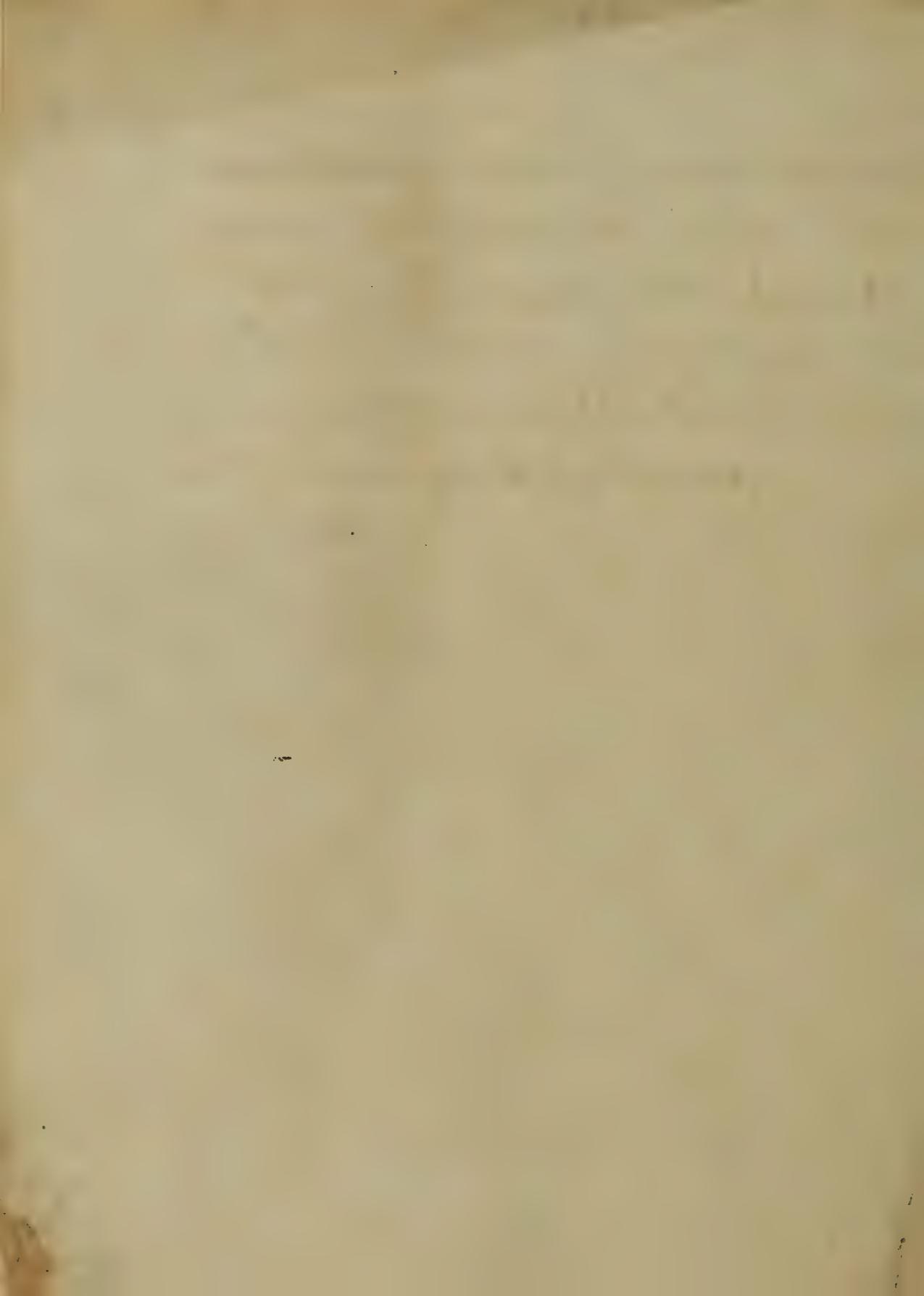
It is the process by which insensibility to pain is induced in a part. It can only be used with certainty and success, in those cases in which the incisions implicate the skin and sub-structures, as in removing toe-nails, slitting sinuses, opening abscesses, removing small tumors, and all such minor operations. There are various ways, and various articles for



accomplishing local Anaesthesia.

It is induced by means
of Cold, Ether Spray, Chloroform,
and a freezing mixture of Chlo-
roform, Nitrate Potash and Ammonia.

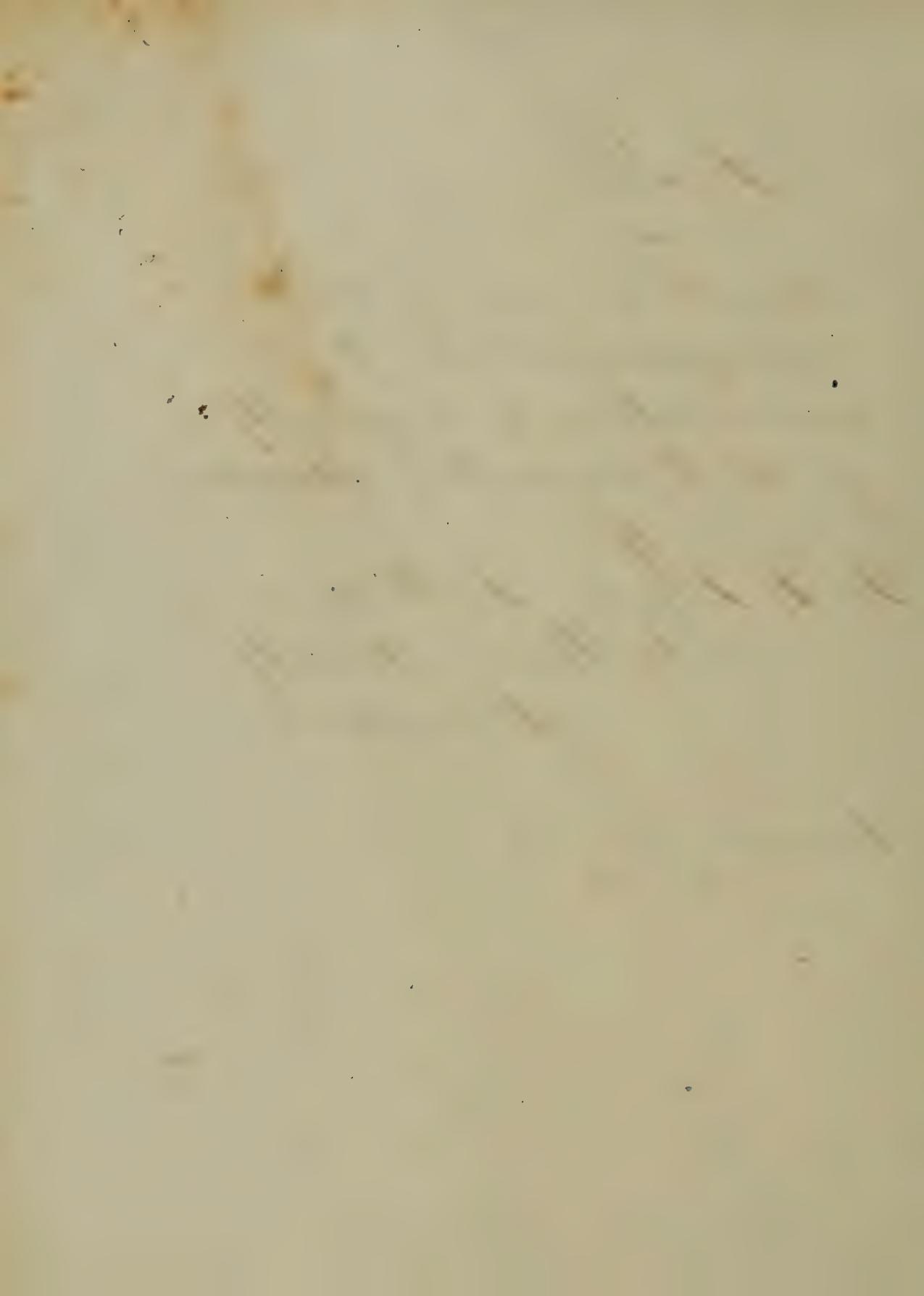
The End



A. Thesis
on
Diseases of the
Kidney Subjected to
Examination by the faculty
of the University of Maryland

Geo. W. Morris. White-hall
Baltimore County
Maryland.

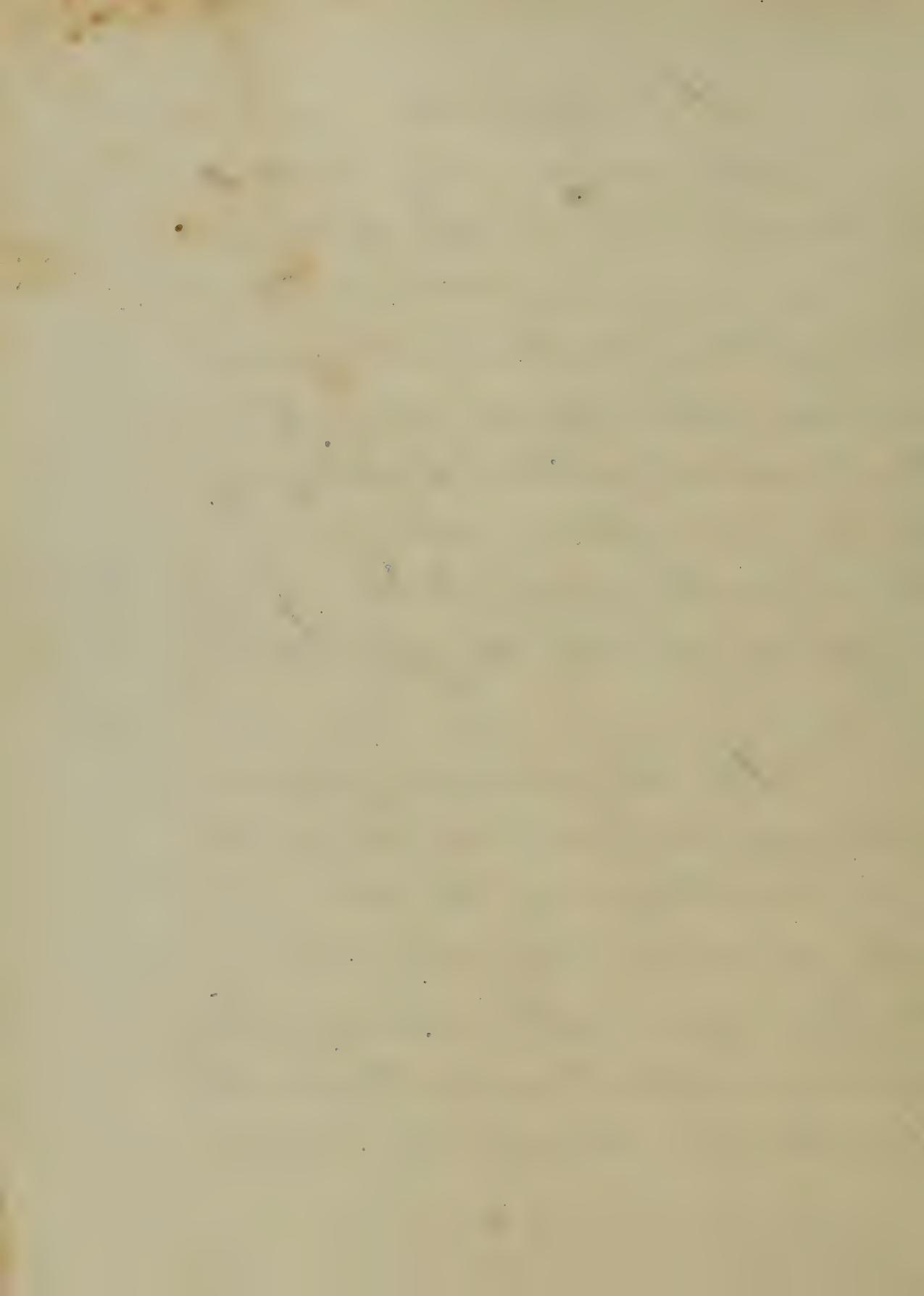
Session 18-19.



A Finis.

The a^e ground disease
of the Colon followed by
an ^{ad} occasion to the ^{visit} of
one that takes off from
any of the specific gravity
than natural and which may
bring about the disease.
How in hand do the ^{visit} of
London with the first disease
of its

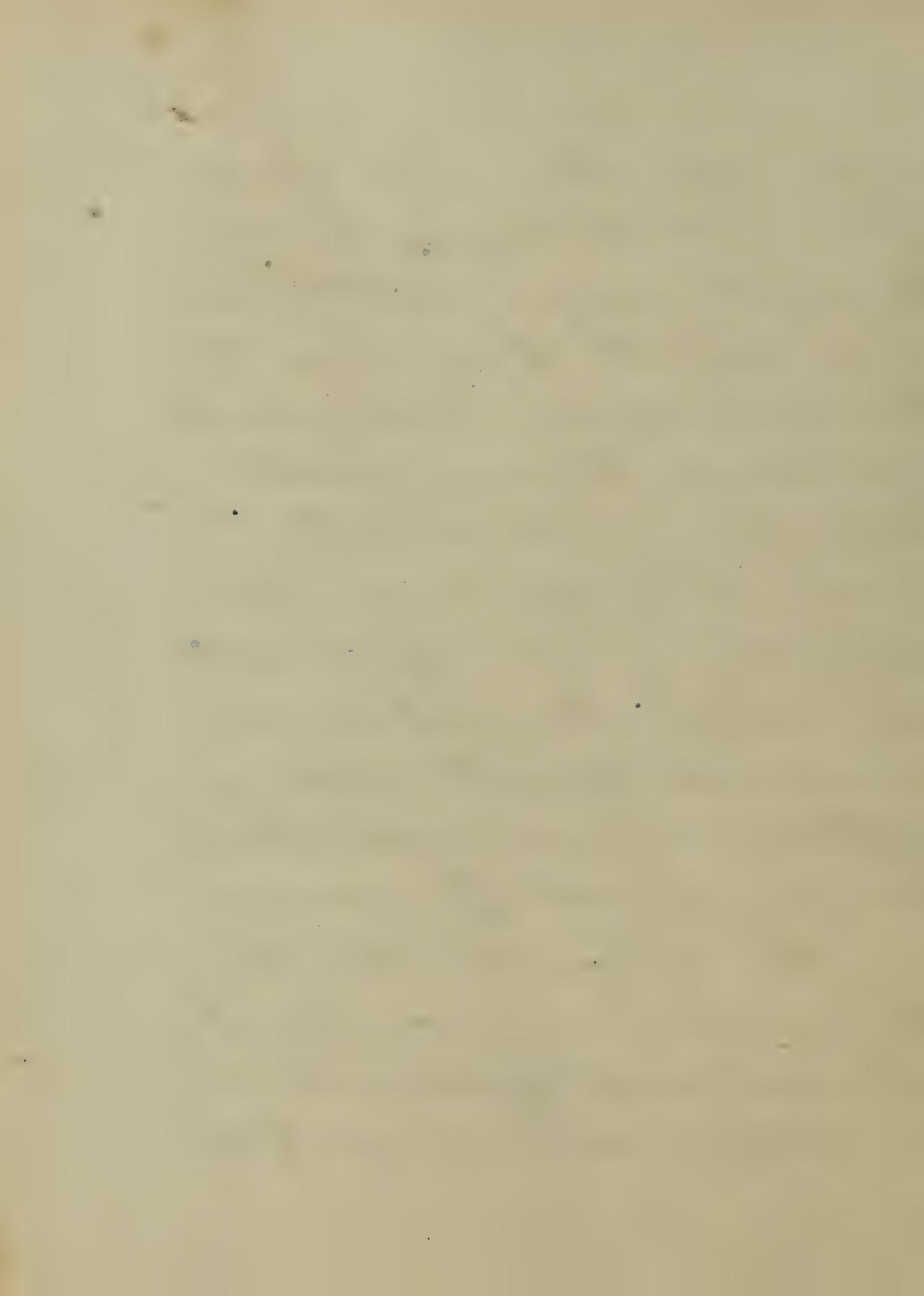
The liver is a compound
and organ and cannot be regarded
as inferior to some of the other
internal viscera, being considered an
existing organ. Its most important
physiological relation is its minute
structure and its glands, and



vascular elements imbedded in a
structure of interlacing fibers.
The sides have a certain amount of
medullary substance, the cellular
substance is more vascular than the
medullary substance. The medullary
contains but little cellular tissue,
as the Haemiglandular glands. These
glands are mostly concerned in
detoxifying certain noxious materials
from the blood, in its circulation
through them. The tubular unit
is. There is a peculiarity in respect
to the circulation of the organs.
The supply is derived from the arterial
system, as other organs, by the small
arteries; but it is not sent to its

gently approach at first, just
entering the beday, it speedily
divides into many minute twigs
which entitle it to *Sophora* like
name. It divides, & extends itself
expanding to a large extent
towards the ground, with its
numerous twigs of a
more whitish green, on the side
of the stem. It contains no flowers
and goes on to suffocate a part of
Cappillariae round it, & turn
them into poor thin ^{greenish} incisions.

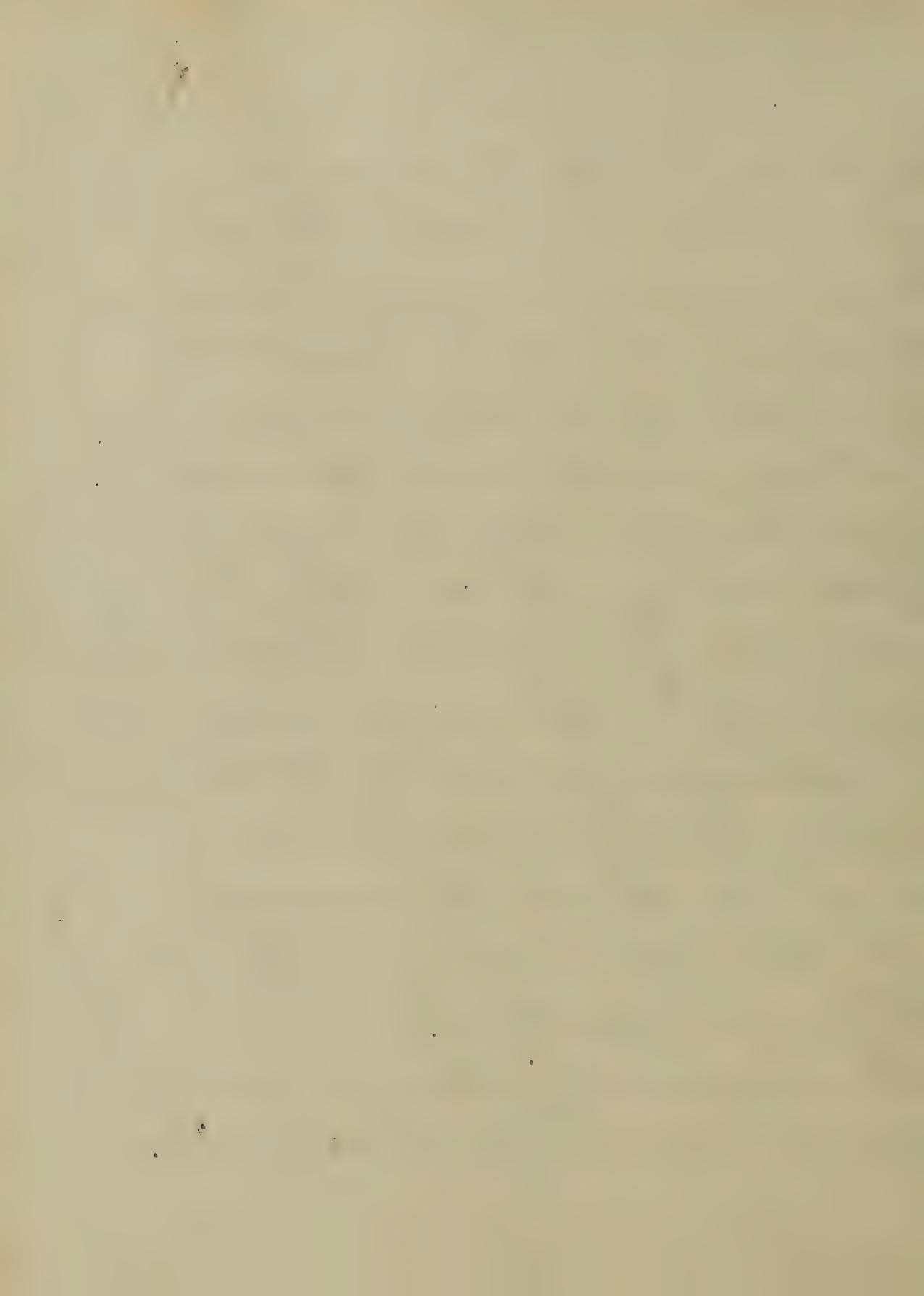
The beday or tree has
no name, & we could
not get a good specimen to
qualify of value as a plant its



7

before we get to New York on
the 20th or 21st which will be a
long enough time for you to
be ready with my cabin
so I'll get off of them
as soon as possible. The most
important part of the ship
is to ride up. So am I fit
each person will depend on his
own ability to bear it.

The cargo is likely to consist
of shot & fuses, which there are
several hundred; but the main cargo
of the boat consists of men. Right
that don't make up all the cargo.
The way we're going to get along
will have to be a secret definition



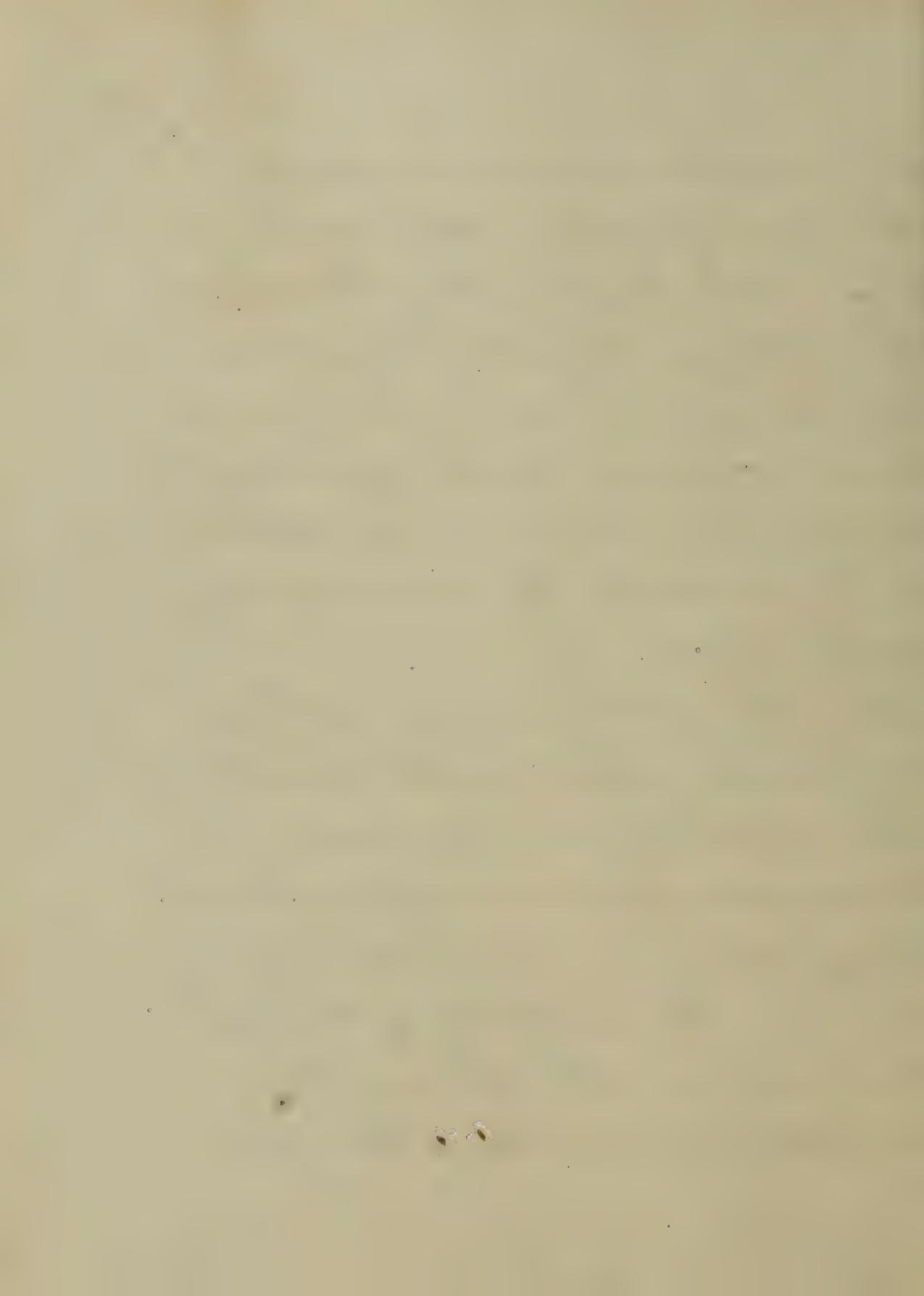
1.

tully and surrounding lines; this may be a different, or a close effusing of fire, or a inundation in the Tumison in the first thick layer; this ought to produce eggs, a quantity of malignant fluid, which will be followed by a most violent, and almost total destruction of the eggs, so intermixed with the
muddy effusion.

In such a state of the globe as this, it will not be for its normal functioning the nature of things, which will cause the dead land to undergo a
severe attack from the system.

Should be anxious.
The heart palpates but will
readily suspect his trouble
the sickness. Slight giddiness
occasionally occurs in the
lungs, nausea, vomiting a very
small amount of mucus, while
a tingling with the consciousness
of fulminous.

Sometimes there may be trifling
suffocation if such be the case, or
he suddenly, a few moments after
a respiration, becomes insensible
to the world, or falls down, or
and sometimes deathly languid,
conscious. In this condition
a slight rattling though



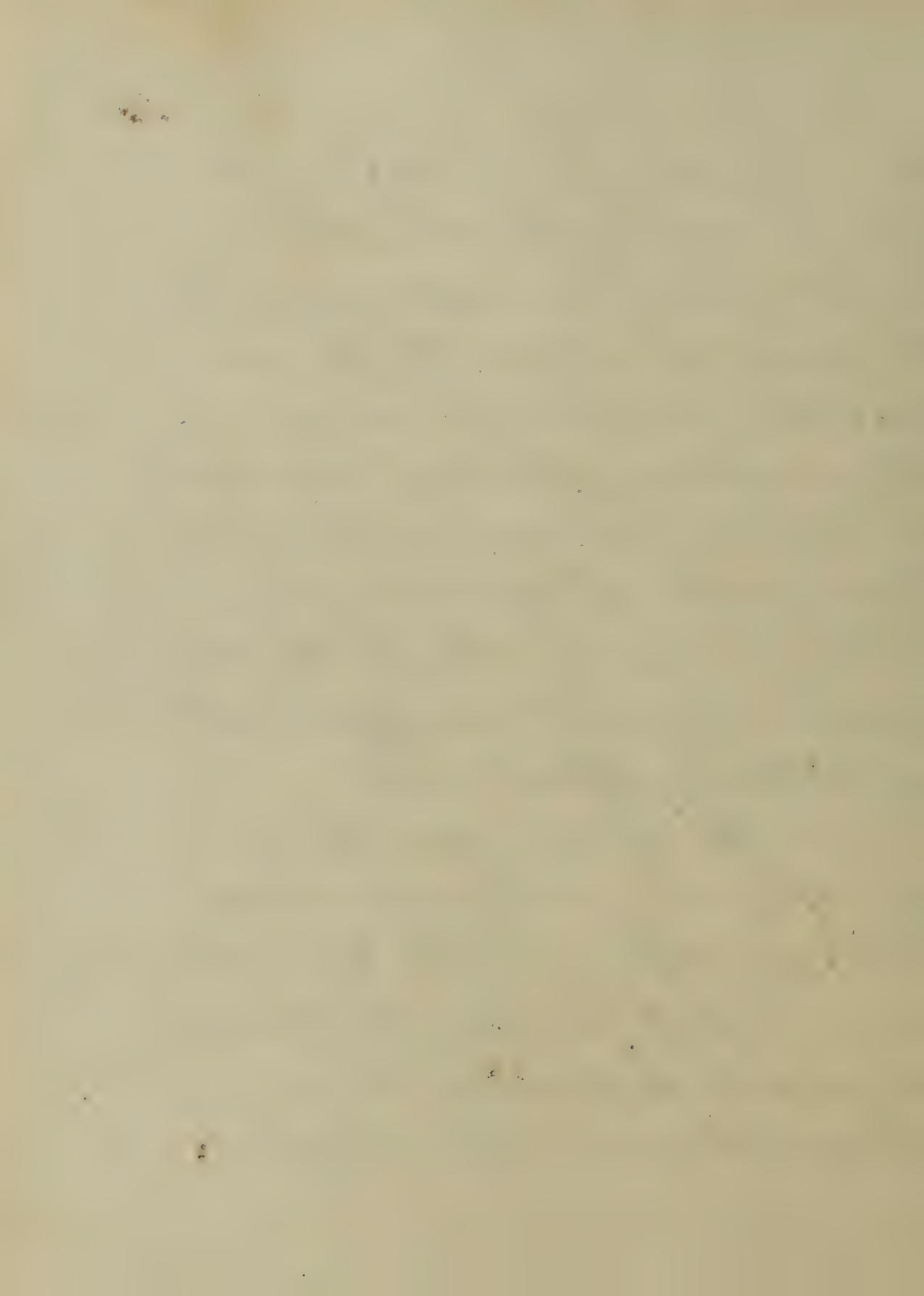
This is the most likely disease
acute inflammation; or having
periodic fits, accompanied by a pro-
found, white, cold sweat, and dry
effusions. Symptoms of this disease,
are accompanied by fits, sometimes
with effusions as, &c. & it does
not always occur with them, but
always indicates such diseases
as those which disease always
breaks off suddenly in the mind,
and lets you go to nothing.
It seems to me that the cause
ought to consist of some kind
of food and medicine, or so
a drug made of wine
or some other article.

feats of indigestion & gout
they change sides. I have also
been attacked in this way, but
without violence to either.

I have not as yet taken up
your suggestion, and also after
the administration of strong
strychnine a long time it disappears.
It is an undoubtably a right
disease, often the disease of old
men, but grows to be more
acute if it is left alone.
By frequently taking the wine,
and see if it passes or throw it down
when you feel bubbly, and
accompany it some of the other
suggestions mentioned above.

It would be good to make
not merely the act
of killing, but suspending
the execution of capital
sentence on the same
day on which it is pronounced.
First, because it gives time for
by a suitable enquiry
to get a full; & then
animosity disappears after
an adequate trial.

Sufficient qualified
scallywags, in a dozen cities,
to see as to whether or not a
given Person Army in the Cities;
but it will be far from this in
great cities, and not even



11.

the w. Y, big vein has
this in a veinous portion
that has a not much more, to
ascertain that it contains in
the vein, which brings about the
second day effects of a kind from
Spibon.

It is difficult for me to
describe the pathological
character of the kidney in Brachy-
dromus; It may be often very
congestive, figures, other sometimes
it a large & thick material; Sometimes
of ordinary size, sometimes smaller.
The average weight of the kidney
in adult birds is about a 4000 gr.
but in disease it varies much.

The color of the body is
distinguished by soft greyish
brown above, and white
in the white streaks; the surface is
sometimes variegated with brown,
presenting a yellowish green and a blue
purple tint in some species.

Sunday effects.

The most common, are perhaps
entirely, a headache, with a
feak of nausea. Some feel the dog's
very important epithet after
sitting to the nose, or even
dealing much of cerebral trouble,
headache, slight loss of vision,
accompanied with a voice, or
drowsiness, delirium, fits,

apoplectic death of a friend
who was with a violent disease.
She was very ill during his
last, which like a red-hot scorching
of the boundary fence.

The accumulation of serum agent
in the arteries, is almost sure
to bring about death. It was
unless removed by the means
The cause of acute inflammation
attacking serum, or mucous
membrane, or being it with
of the former material to incide
a disease whilst circulating
and passing a vent through
some channel of excretion.
The fluids bears more liability

of a suffocating heat & loss
of perspiration. The man
was born with a disease of
the heart, & the brain, &
certainly, as well as his eyes
in such disease, namely, rachitis,
rachitism, and diarrhea, there were
afflictions, indicating a general
and muscular debility of the
organ, & the heart, & consider-
able difficulties to us in the disease
preventing most all the symptoms
and others of which I do not
know part accompanied it.
This complaint happens about
ages, but most often in children
youth, or afterwards. He first

case described, a list of similar
Scrofulous individuals. These cases
are reported, though eight
of them upwards of twenty have
but known to have this disease.
The malady is much more
common in adults, yet even
the bidding is liable to take up
this disease more often in youth
than in other subjects, especially
among the circumstances that tend to
to produce it, & causes of more
frequent operations, interrup-
tions, exposure, disease of heart
etc. How ever we are often attacked
by the usual disease than
any other. It is common

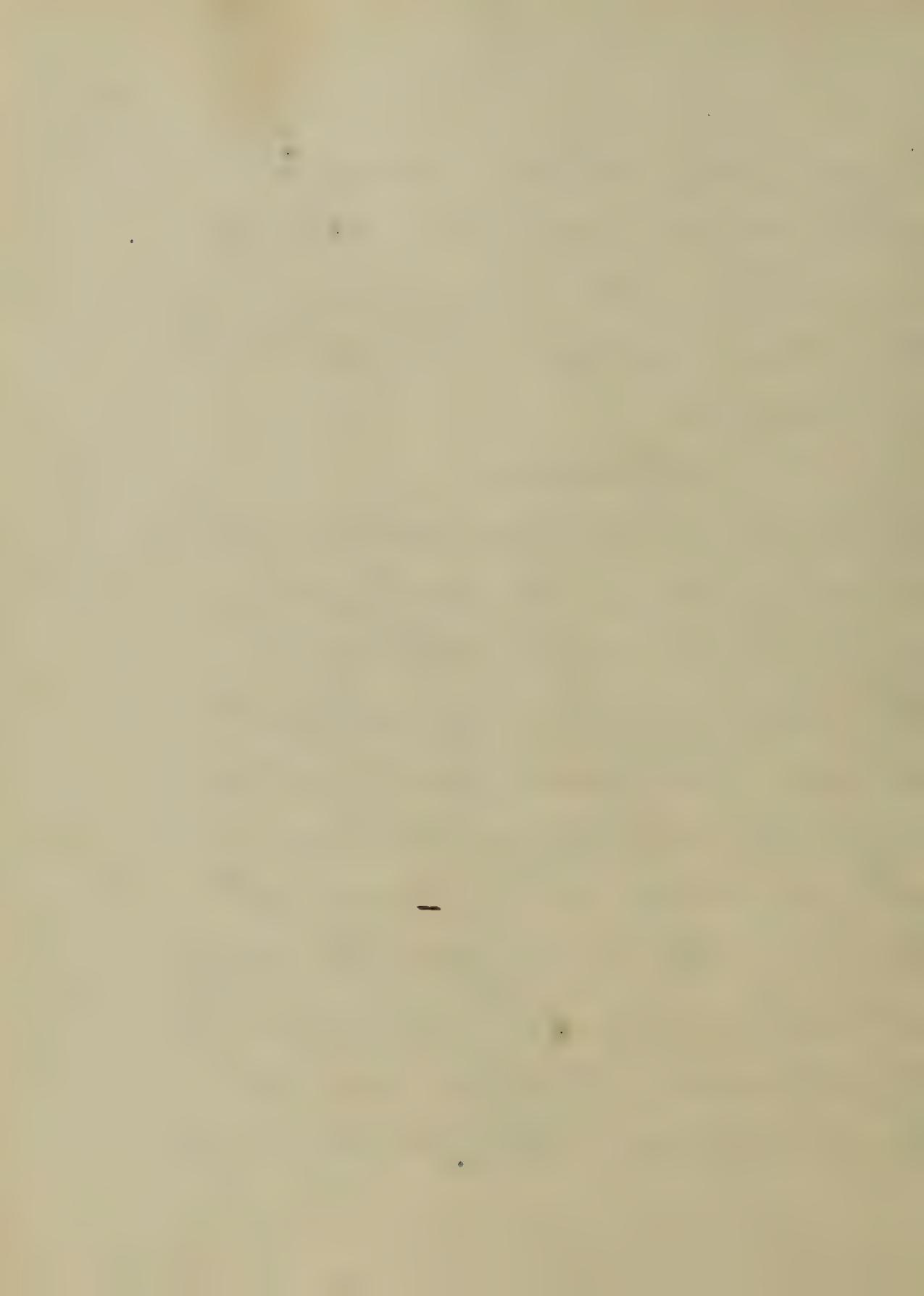
Confined to one or another state) with suspicious activities and falsifications performed; but these cases are rare, and of doubtful origin.

Cause.

Oppression & violence of master and child when the master is in unmerciful circumstances.

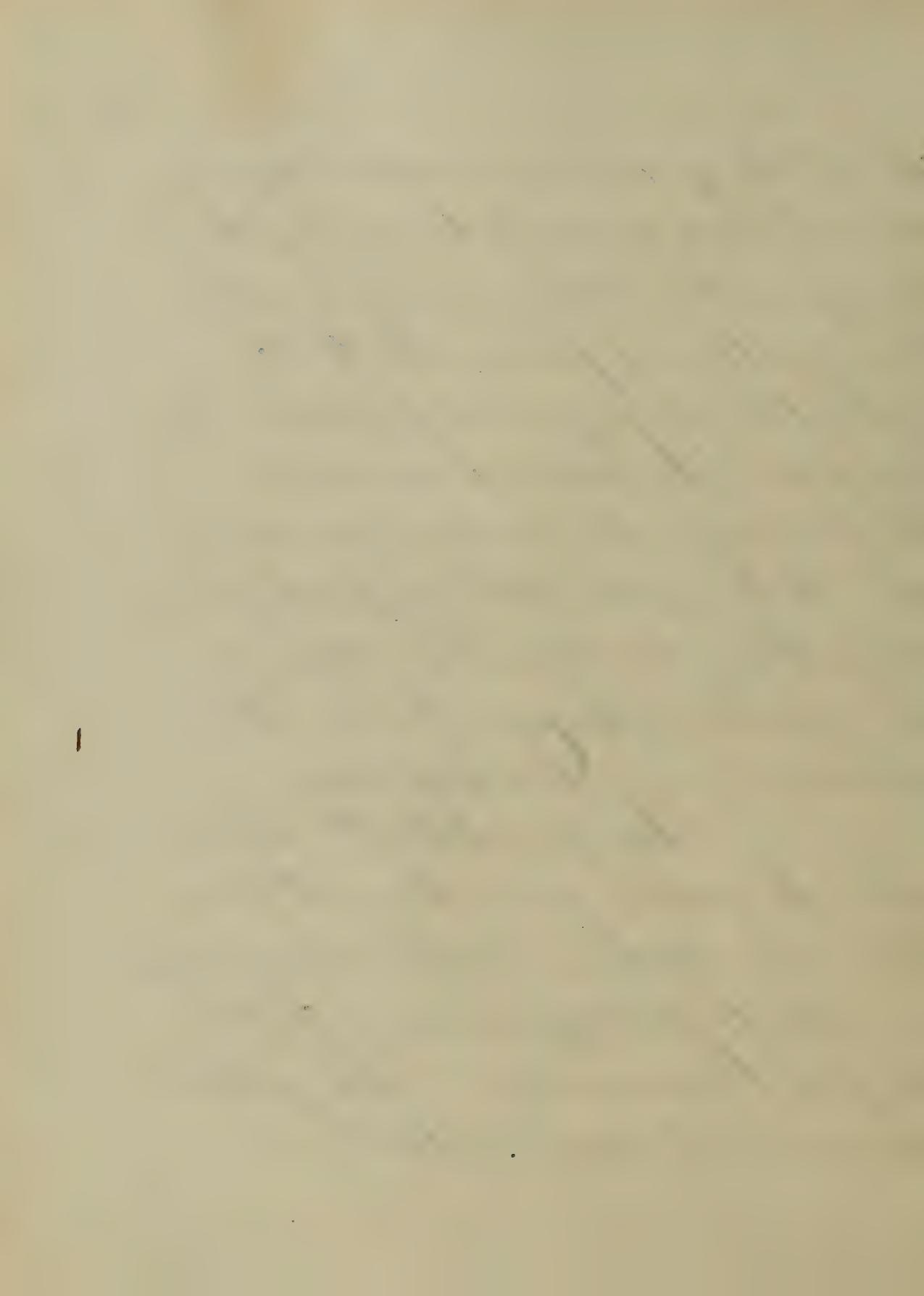
We can not form any definite idea in some cases, for the master may have been lying talents.

Men have been known to take on the mad idea of being attacked by fire & dropping the fingers they had incinerated properly, which is a case of



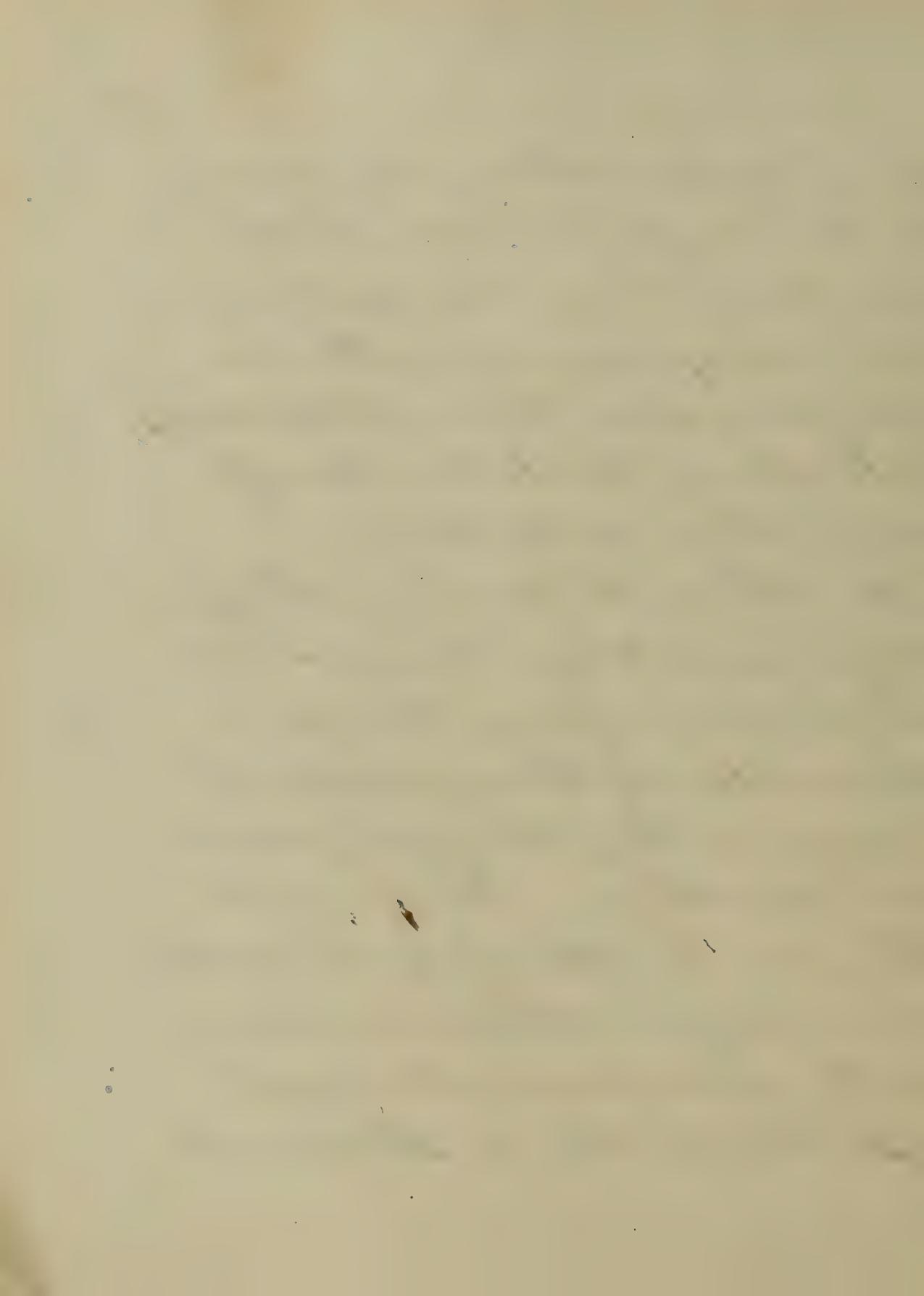
The history was so well known,
with regard to the history of
lungularia, and in view of the
circumstances for which T. B.
after the dropsey his physician
supposed it had been cured.
It is likely that some error
in the first diagnosis
was made in the case of the
adult, owing to his being
a child, & prone to have the
disease. — *Ciacanitis.*

I will add
here to make you have better
and more observations in the diagnosis
in adults, satisfy himself of the
proper treatment. — The patient
becomes very irritable,



loss of sight at times, fugitive now
in the carelessness of this with
scanty exertions, loss of this
will way-pain him at times,
obtaining due to his idleness
shortage of the body, scanty
wings fatigue with it.

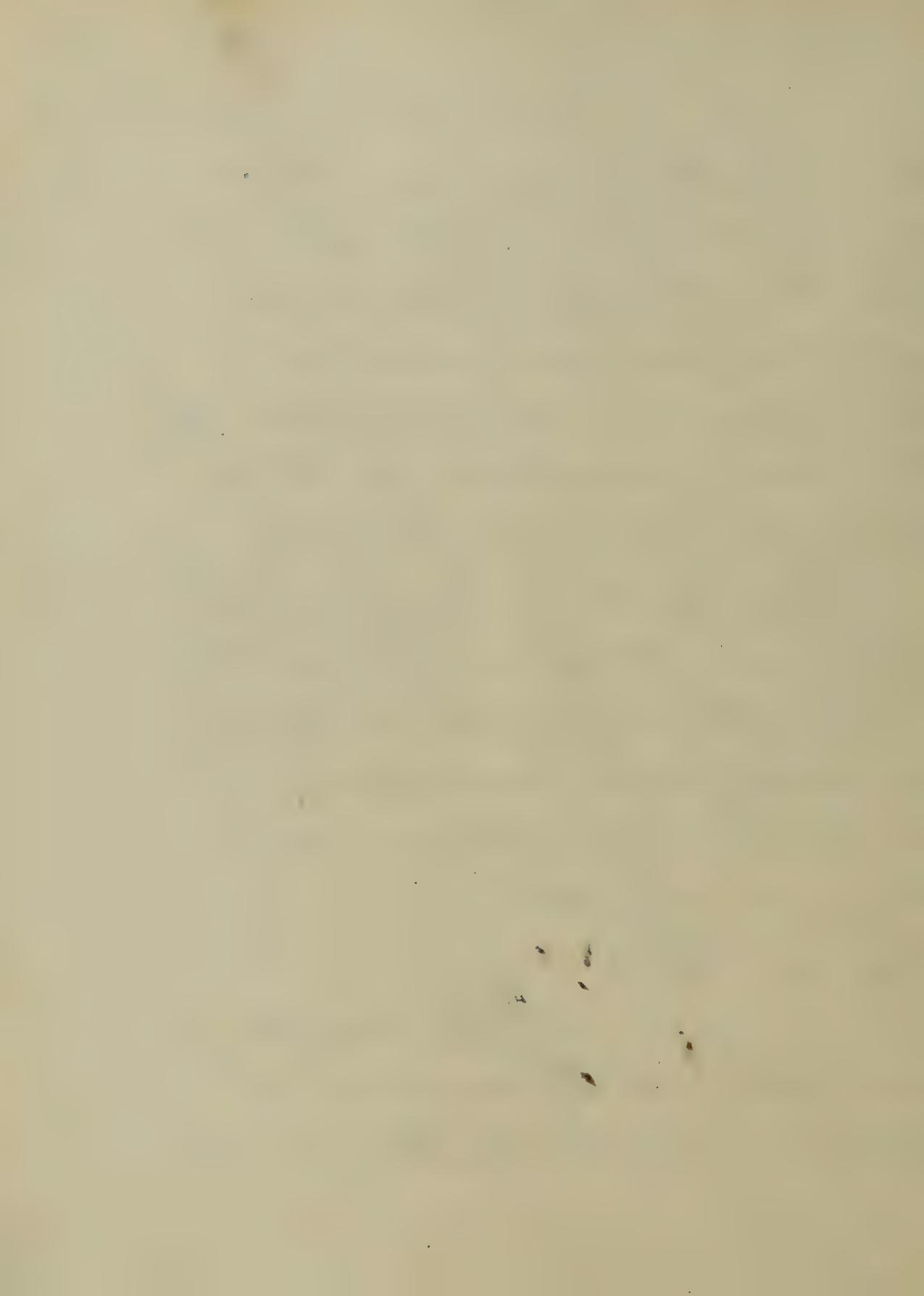
Sometimes the wing is entirely
suppressed which brings about
deep and profound languor,
sometimes at times slight de-
rangement of staggers, nausea
and vomiting. The losses at
times are a little increased with
changes but attenuated with
the most diagnostic signs.
The test for this is Stammering



which is the most common. This is
heat of the air of Siberia.
To test these specimens, it
must be put in a small glass
tube, and placed over a spirit-lamp.
This heat remains as long as the
amount of albumen present.

Usually the albumen first
appears in the form of a whitish
cloud, the particles collect together
in evanescent flakes, and soon
subsides to the bottom of the
tube, leaving the remaining
lique behind.

By this way we
can estimate the amount of
albumen present. Heat is reck-



alone, a sun test for alumina,
thus is Silicic acid alone.

If the wine is alkaline, heat will
not precipitate alumina although
present owing to the presence of
ammonium bicarbonates.

Heat may cause a precipitate
consisting of earthy precipitates.
Carrying sun test in connection
with this is the addition of
Silicic acid which will cause it
to come down; again if
any of the wine contains any of
the titratable acids, Silicic acid
will not cause the precipitate
it will come off the organic
matter of wine & settle down.

in the place of albumen when
there is no mucus. There is a getting
of this kind, the use of water will
not all done. Any quantities
of Nitric acid will dissolve the
albumen; so it is best to operate
on a small quantity of wine,
heating, and dissolving a few
drops of the acid.

The last tube should be clear
of any acid or alkali. Other tubes
are given, but as this is the one most
in use I will not speak of them.
Inspection is one of the first
symptoms to lead us to suspect
Bright's disease. There is an infat-
-ant symptom, as it odds greatly

This disease, are dangerous.
To remove the complication
to consider the varieties of the
drops, distinct from the varieties
of the vital changes. The first
is drops, and this name is scarcely
of the cubitus, then the anasarca
is observed to increase or diminish
as the quantity diminishes or
augments. Anasarca signifies
a filling up of a considerable
quantity of serum, a liquor fluid
in the subcutaneous and other tissues.
When there are large collections in
some of the viscera & cavities, it is
called the genuine drops; it proves
fatal, when it accumulates in

The brain, in blown the evenings
external to the brain. Few and
rarely come this accumulation may
take place, the effects are the same.
They complain of shortness of breath
and palpitation of heart, a sense
of suffocation if they sit down,
or take active exercise, distress
across the epigastrium, stiffness
of their limbs. The shortness of
breath, is caused by edema of the
lungs, as revealed by auscultation,
of water in the pleura, by pressure
upwards of the diaphragm which
causes the heart and lungs to be
compressed. To make so if the
dog has sat in suddenly,

with private sympathy as a victim
it has captured many; yet in it
was any exciting cause.

The question is, then, how will
whether it depends on disease, or
disease of the heart, this anti-
tis cardiac dropsy. That which
depends upon kidney disease,
a renal dropsy. It will give us
to find out especially each case
in order to treat successful.

The modes in which disease of
the heart may cause dropsy are
as follows: thoracic symptoms
Cough, dyspnoea, distended jugular
veins, irregular movements of the
heart, unnatural impulsion

allied sounds and of any acute
inflammation before hand.

The kind of heart disease that
mostly brings about this dropsy
is any obstruction to the circulation
through the heart or some obstruc-
tion nearby. Hydrocephalus may
cause a stoppage near of the one
and back the previous blood back.
The liquid commences to accumu-
late in the greatest circumference
from the heart; this causes the
ankles, legs, hands, arms, face,
and more or less of the whole
body. Sometimes great causing
the spirit to suff. The spirit fits
are presumed. Real dropsy can

be diagnosed from cardiacs by attending to the history of the patient. An attack of illness attended by swelling of the body and derangement of the urinary functions soon after exposure to wet and cold; an attack of dropsy with scarlet fever, which often lays the foundation of these changes in the body. The discovery of times of intermission halts! Dropsy attending heart disease commences mostly in the mucous membranes. Facial dropsy mostly in the upper cutaneous, face, lips and eyelids. I have been speaking of Cardiac & renal.

dropsy; but they go with the disease
far more lighter.

The progress of the malady
is very unfavorable especially
when complicated with secondary
affections, and when it continues
for sometime

Treatment.

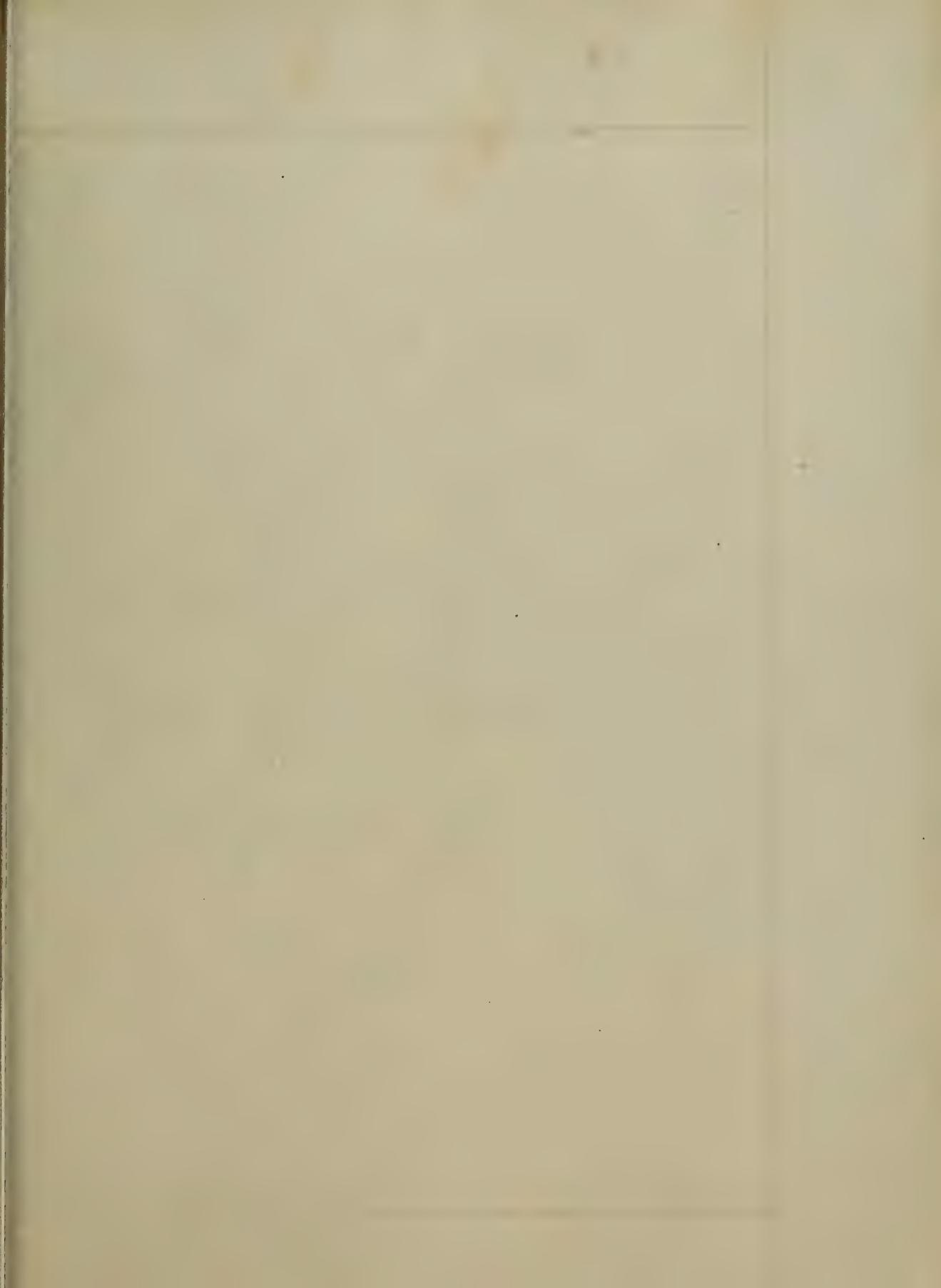
The disease sometimes yields under
treatment but soon to recur.
In Cardiac dropsy where the
kidney is sound, Simplicial
medicines such as the most
important. When they fail to
abate we have recourse to the state
of the bowels, permitting hydro-
-geous purgatives. Blutman

Sigillaria & dilatatae are good
remedies! A Pill made up
of this powder & common dilatata
about twice the quantity of
dilatata & Pepper & a few gr.
Cinnamon. Coughs & hoarseness
to this may be added
with good results. Saline
laxatives and some of the
preparations of Opium
Coughs & colds will be
cured, taking one dilution
or two more or less according
to the age of the patient
when it is divided & broken
apart and applied to the
breast. I would advise

placed there will be
no danger. You may
not have been reading
Lancet. What did you
say to a person with
the skin. There are many
other remedies for the
diseases of the skin, such as
spirit of nitre, & so on.
etc.

You are at liberty to
recommend as little or as
much as you judge necessary
the disease & circumstances
admitting of them.
So that you will be
when the accumulation is

case do not give the
drainage any trouble
likely to be patient.
The condition did not
warrant trying it
but patient's want of time
would be a reason for this
I could not mind taking
off metal casting.
The body is to be buried
and dry throughout.



On Chancroid Infection

On Pneumonia

Dedicated to the Faculty

of the University of Maryland

for the Degree of

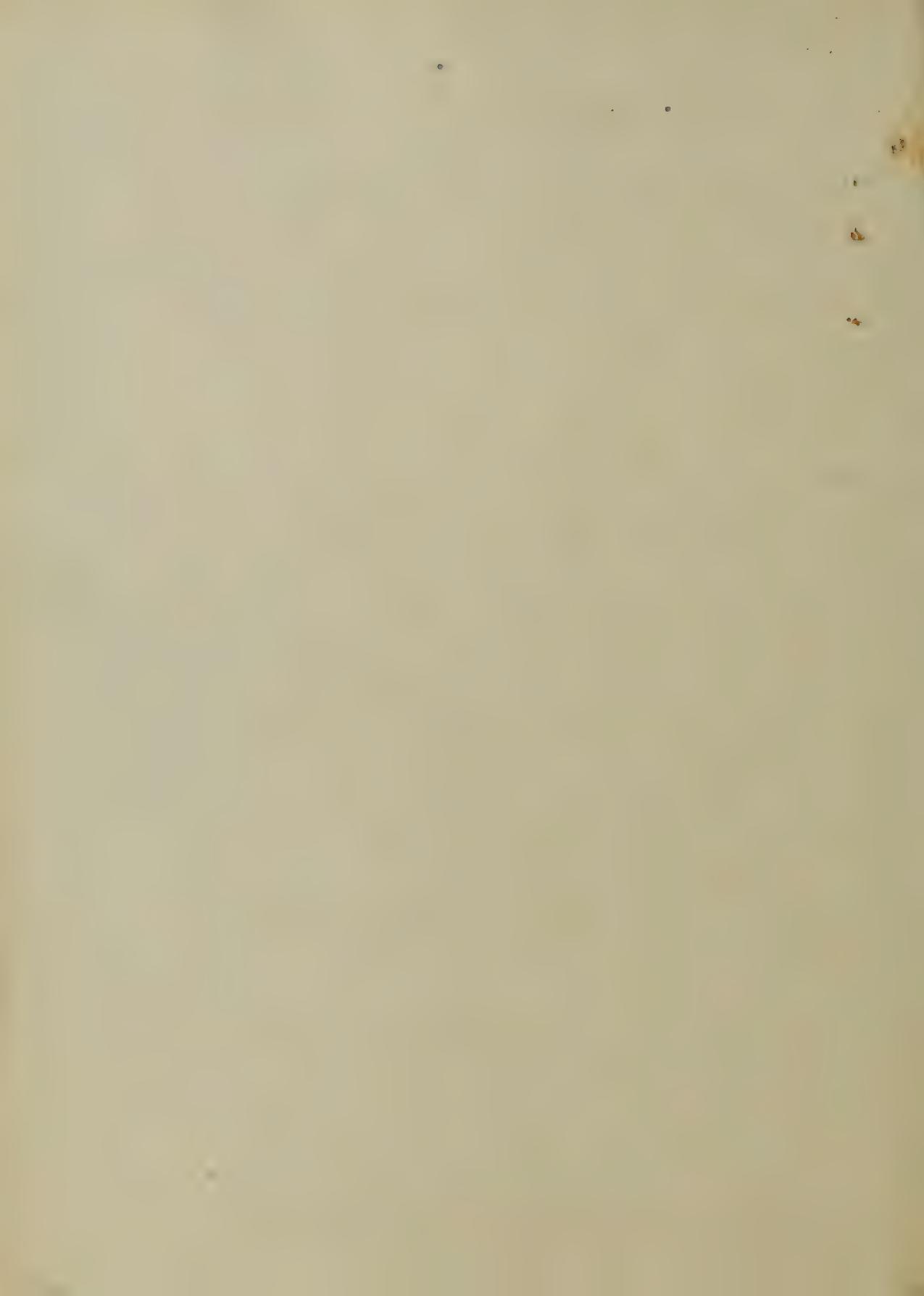
Doctor of Medicine

By William H. Clegg

In Baltimore - 1872

Inflammation of the mucous
of the lung. This is a disease
to which all are subject, more
unconscious to age, sex or climate.
The young and old, rich and
poor, men and women, and
all subjects to th. However
which occurs often in the male
than the female, and often in
the lower classes than in the upper.

In some cases you may see
your case previous to an attack
of pneumonia. The patient,
yesterday languid and dull, but
as it were suddenly, now
these symptoms are unnoticed
at the first attack.



The affection is a violent one
by fits cough, cold pain in
the pharynx, sneezing and some
times vomiting. The pulse is
quick, often even as
high as 140 to 160 beats to the
minute. The increased temperature
of the surface is very remark-
able in this disease. When it reaches
a m^o & f the fever may be con-
sidered a severe one. Delirium
is common. The respiration
is hurried, generally out of pro-
portion to the frequency of the
pulse, sometimes as high
as 50 or 60 to the minute. The tongue
is coated with a yellowish
white fur. Generally there may
be seen a circumscribed flush

one or both cheeks, (one
day of the one on the side of
corresponding with the affected
lung). The spuma are of rusty
colour and very tenacious.

The bowels are generally constipated.
It is supposed that there
is a deficiency of Chlorides in
the urine, but there is an excess
of urea. According to the seat
of the disease it may be lobular
or lobular. When it affects the
whole or greater portion of a
lobe it is called lobar pneumonia;
and when it is confined to the lobules
and is circumscribed it is called
lobular. In those occurring es-
pecially to the lobar variety

Glossy Blue, or Glauca

7. In the first

stage of the disease

the animal is

as healthy as ever

but advances to the second stage or

that of suppuration (which

very rarely occurs in the first

stage) in the second stage

the lung becomes solidified

and will not float when in

water. In the third stage

that of grey suppuration or

putrid suppuration there is a

change in colour from white

to grey; the yellowish white

specks which may be seen

on the surface of the lung

indicate the going on of suppura-

and by pressure the lung lesion
may be broken down.

We may have two distinct stages
existing in the same lung at
the same time; for instance one
portion of the lung may be
in the fibrinous stage or that
~~portion~~ ~~area~~ ~~area~~
portion is in a more advanced
stage.

In the first stage on auscultation fine
crepitant rales may be heard,
on percussion the resonance is
slightly modified. In the sec-
ond stage there is crepitant
rallent on percussion; on aus-
cultation there will be crepitant
and rhonchi.

In the two stage there is
the first stage the auscultation
auscultation course respiratory structures
values

The tracheal are persistent consonant
values of the lungs, either by all
authors chronic pulmonary and
tuberculous Cephalic, sometimes acute
epileptic may follow this disease.

Anatomical characters.

"The posterior portion of the
lower right lobe is much lighter
than the rest of the lung." Dr. Dugald
Shoulder death occurs in the
first stage (which is seldom
the case) the lung will be found
somewhat swollen, cork red in colour,
increased and yellow in the
serum. It will still float in

nals, though larger than the healthy lung. In the next stage the lung is consolidated and presents considerable resemblance to the liver. It will no longer float in water, and the fingers may be easily thrust through it. ~~in the~~ ~~the~~ ~~the~~
is Degeneration of the exudation. This occurs by suppuration and suppuration; occasionally an abscess forms. The diseases with which ~~Pneumonia~~ ^{confounded} is most liable to be one having an apillary tendency. In this case it may be distinguished by the difference in the character of the pain in the side and also by the method used in the

it may be distinguished by the rales
being heard on both sides while in
pneumonia they are heard only
on one; except in cases of double
pneumonia, and then we have
dullness in both sides which
we do not find in bronchitis.

Opposite the right collar
bone there is often a dull
and coarse rattle due to
obstruction to the passage of
the venous blood or phlegm of
the venous system and the more
pronounced it is called pleuric
pneumonia of the cause of its
other name phlegm.

Pleural Pneumonia of simple
obstruction affecting only one lung
in young persons frequently

in the disease, and
circumstances and proper treatment
always to be avoided from
But in all persons it is more
dangerous; and the double variety is
at all periods though yet
recoveries do occur. Among the
unfavorable signs are the respi-
ration of foul blood in the
first stage and albuminuria
in the second.

Pathology and Nature.

In ordinary pneumonia as
in other pleurias, we have
pyrexia, fever, hyperaemia, and
inflammation. The fever may be
caused by a local action by
the person or body, or there may be
an tuberculous pneumonia - it is

The German, in malaceous the latter,
also in incapacity, both are supposed
to lack.

Causes. although this disease
is more common in the winter
and spring, yet we do not
think that it is produced
entirely and solely by cold.

Malariaous diseases are often blamed
with it and confound what is known
of it.

We are not acquainted
but in malaceous than in other
regions. It has been observed
by us in the practice, that
those who have suffered from
malaria are among the sum-
mer and fall and more
commonly than

of the disease during
the following winter or spring.
We know that cold is generally
considered the exciting cause,
and authors generally say
that the way in which me-
lana acts in producing the
disease is by corroding the ap-
petite and thereby rendering it more
susceptible to ~~an~~ cold; and al-
though we can conceive that
that this may be the case, espe-
cially in the case, yet we are in-
clined to think that melanæ
may act sometimes as an
exciting cause. Pneumonia
may be produced by direct violence
to the chest the same, is called
traumatic.

as regards the eruptive variety
that you will be informed
at all about it is a remark-
able fact that fever upon
is more apt to produce it than
complete. For instance suppose
a person to be sitting in the
house on a cold damp day
and exposed to a current
of air. Then he is much more
likely to an attack of measles
than ^{one} who is out on the street
for several hours. Damp & cold
processes the disease or makes
dangerous than dry. We sus-
pect the cause of this is
that in rainy weather the
secretion of the ~~lacrimal~~ ^{sudoriparous} glands
is impeded.

The sometimes sudden attack
the causes of which are unac-
countable. We find the disease
occurring in persons where every
precaution has been taken against
exposure to variations of
weather and all other exciting
causes; yet the symptoms are as

~~well marked and the disease~~
where the cause can be readily
discovered. There is undoubted-
ly a predisposition to this
disease in certain persons.

It is on account of this that
the disease is produced in
some persons by causes which
would not affect others.
For such health a man
would catch fire with the

trial relate to a case in
which it occurred seven times
in the same subject, chronic in
which it occurs in the tenth
and very malignant form,
a patient the seventh time with
it, and second time, also!
to a second attack.

Treatment. This is a subject
which has employed the minds
of eminent practitioners for
centuries past and there is yet
no general remedy, or opinion
in regard to it. The treatment
of Hydrocephalus can be divided
the last few years, resection
one after another ^{surgically} together
were considered by the mass of
practitioners to be successful,

alone all others to be rejected,
when applied with judgment and
discrimination. But like all other
valuable remedies it was greatly
abused, which has caused most
practitioners to abandon its use
even in cases where it is actually
needed. Modern practitioners
think the "new" treatment
~~"Mucus and mucus"~~, stimulation
and diuretics are preferable
in this view of other treatments
which they do not think of
repeating, once you get away
to the old treatment.

Dr Bennett says very few patients
nowadays bleed so much that
even the animal Crux should
be small; just sufficient to

follow. In cases of average severity, counter irritants should be applied to the thorax (such as hot poultice shapes). The mouth should be kept open, and stimulants and tonics given with emaphorotics and diuretics. In a majority of cases we think good hygienic regulation is the best treatment. Conditions in which bleeding is admissible. In a young person of robust constitution, with hot skin, full and frequent pulse, and venous stasis of the lungs, no doubt venesection does good.

In the second stage venesection is never admissible under any circumstances. In very ill patients

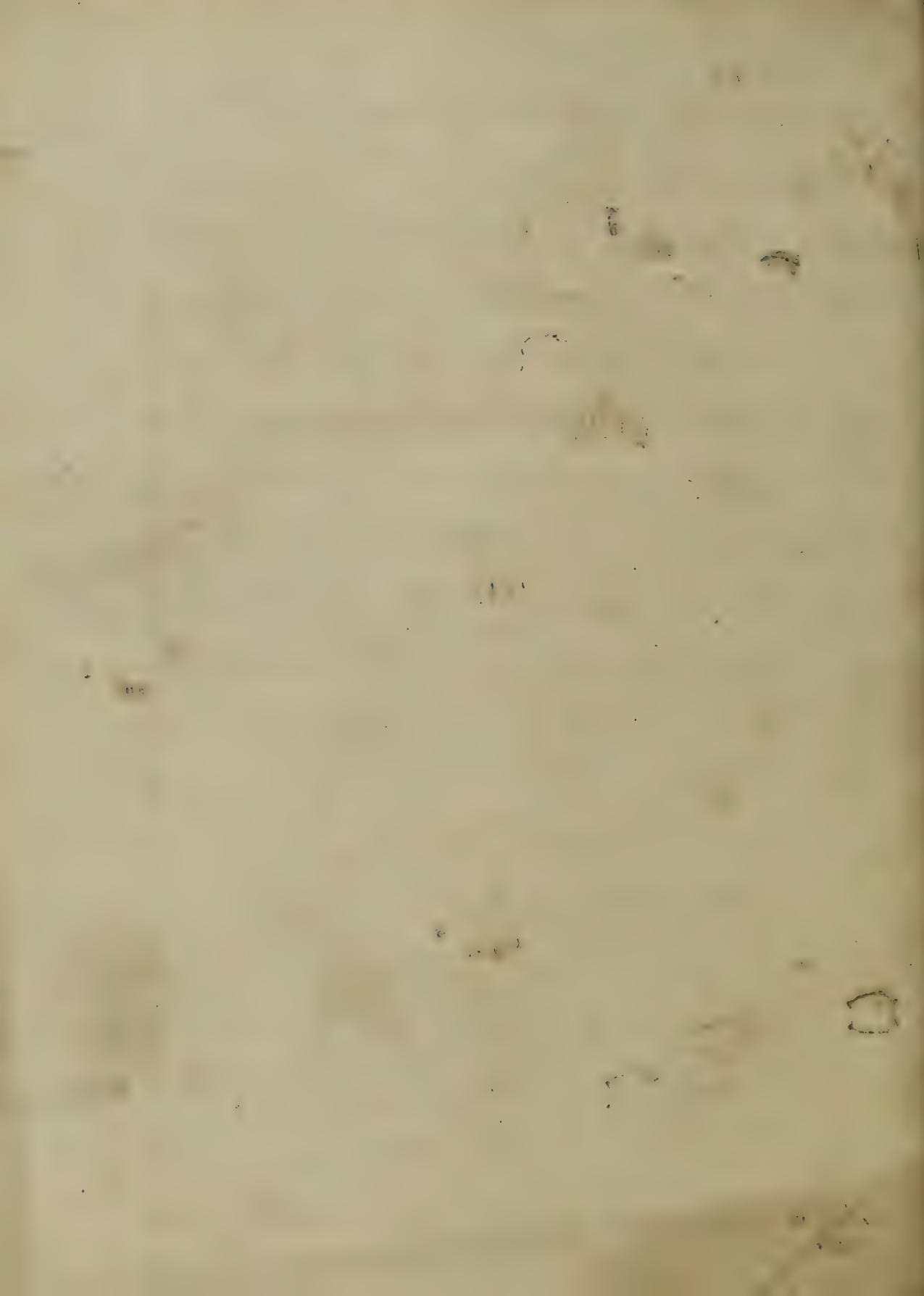
given in the case of ten grains
may six hours after the febrile
state has passed no active treat-
ment is required, and should be
suspended. The patient should
be nourished and stimulated if required.
Milk counter irritants should be
applied over the thorax.

The patient should be covered
the patient should wear a plain
velvet suit to the skin.

An oiler silk jacket may
be worn to keep the surface
moist. The patient should
have plenty of fresh air but
should not be exposed to a current
of air and passing of the febrile
excitement to the skin on dry days

may have followed either
of the forms of the disease
of a malignant character which
should be dominant & early until
the fever subsides.

After an attack of pneumonia
the patient should be very
careful for some time as one
attack predisposes to another.



approved H. C. Wilson

Thesis on Gonorrhoea.

by

John A. Watson, of
South Carolina.

February 14th 1872.

Thesis on Gonorrhœa.

Gonorrhœa is a specific disease accompanied by inflammation, and an abundant mucopurulent discharge. This disease has received various names at different times and places. The discharge was once supposed to consist of semen, and hence its name Gonorrhœa, from ~~sperm~~ sperm, and ~~ew~~, to flow. This term however is incorrect since it has been proven not to consist of semen. It is known to the French as Blennorrhagie. Popularly termed "Clap" by the English. "Chande pisse" by the French. The disease is mostly located in the anterior part of the urethra the fossa navicularis; although it may attack any mucous membrane e.g. the

external ear, the schneiderian membrane of the nose etc. It occasionally extends throughout the whole urethra implicating the lining membrane of the bladder; again in women it may affect the uterus and fallopian tubes producing peritonitis and death.

These grave complications are fortunately very rare.

Symptoms. The first symptoms of gonorrhoea make their appearance between the second and fifth day after exposure; in exceptional cases not until the seventh or tenth day.

The symptoms are at first very mild, consisting of an uneasiness or tickling sensation in the anterior part of urethra, exuding at the

same time a mucous, Decided pain
is experienced by the patient in
passing water. This is known as the
stage of incubation.

This stage lasts for a week or more
the symptoms gradually increasing
in intensity until the acute or inflam-
matory stage is developed. During this
stage the symptom will increase in
severity. The discharge becomes copious
and of a greenish color. The urethra
becomes very much swollen, and has
a cord like feeling to the touch.

The pain is now intense when the pa-
tient passes water; there is also more or
less obstruction to its passage owing
to the discharge,炎, and inflam-
mation of the urethra giving a
forked or irregular appearance to the

stream. No. 2. nocturnal erections or "erotic" all is one of the most troublesome as well as painful symptoms attending this stage, occurring principally at night when the patient is warm in bed. It is during this stage that buboes appear if at all.

These symptoms subside in a fortnight or two gradually fading into the third stage or stage of decline. This stage is ushered in by a marked diminution in the severity of the symptoms. There is now very little pain in passing water. The discharge ceases and complete recovery rapidly follows. If this stage be improperly treated, however, it will continue for several months

Causes. Gonorrhoea is induced by an impure and indiscriminate sexual intercourse which generates a highly contagious virus.

It may be generated if coitus be practised during the menstrual period. Gonorrhoea in the female will produce gonorrhoea in the male as may any other acrid discharge. Burns lead has reported many interesting cases proving that the disease may be found to exist where there has been no previous sexual intercourse, but depending on causes altogether foreign to what is usually supposed to be the producing cause.

Treatment. The treatment of gonorrhoea must be directed according

to the condition of the patient as well as to the stage of the disease. If the patient be seen in the first stages of the disease that is within four or five days of its exposure before the symptoms have become acute, when the discharge is but slight and chiefly mucous, the abortive treatment may be adopted with success. A strong solution of Argentii nitratis may be used for this purpose or perhaps what is better a weak solution used more frequently. Argentii nitratis grain one fourth Wales one ounce M. The injection should be carefully given so that every part of the diseased urethra should be saturated with it. The syringe should be glass.

treatment of the third stage or
stage of decline. This stage can
generally be recognized by a mark-
ed diminution in the severity
of the symptoms.

The diet of the patient should now
be nutritious, but still avoiding
stimulants especially malt liqu-
ors. Tobacco in any form should be
abstained from. Exercise moderately
taken is very necessary.

Injections of the acetate or sulphate
of zinc may now be practiced
with success in the proportion of
from grains two to four to the ounce
of water or glycerine of the former
and from grains two to six of the
latter. Any of the other mineral
astringents may be used

with almost equal success.

Of the vegetable astringents the vini rubri and vini tannic are the best though far inferior to the mineral.

Copariba and Orbea if used at all should be given at the early part of this stage. The dose of the former is from twenty to thirty minimis every time. per day of the latter one drachm three times per day

Treatment of special symptoms

One of the most annoying of them is Chordae. Various sedatives are employed for the relief of it among which camphor holds the first rank. It may be given in pills form combined with opium or extract of Lettuce.

The discharge usually becomes more copious and slightly tinged with blood after the caustic injection has been used for a few days; but these apparently severe symptoms soon abate when the injections are discontinued, as they should be. The discharge now becomes very thin and soon disappears altogether, and the patient pronounces well.

Treatment of the Acute Stage.

Peculiar attention should be paid to the mode of life that the patient leads, but more especially to his diet which should be of a milde character free from stimulant, &c.

Absolute repose is preferable for a few days if possible; this can not always be had, however, it is

the duty of the Physician to forbid his patient taking any violent exercise such for example as dancing, horse back riding, etc.

The genital organs should be well supported by a suspensory bandage well adapted to the parts so as to prevent chafing.

An active purge should now be administered e.g. three 6 oz. pills or a full dose of Epsom salts.

The alkalines and milder dinkies are always in order. One pint of flower tea per day in connection with the following violent formula is highly recommended by Burstead. Rx Potassae Bicarbonatis 3*ij*

Sive turiae bigoseyam 3*ij*

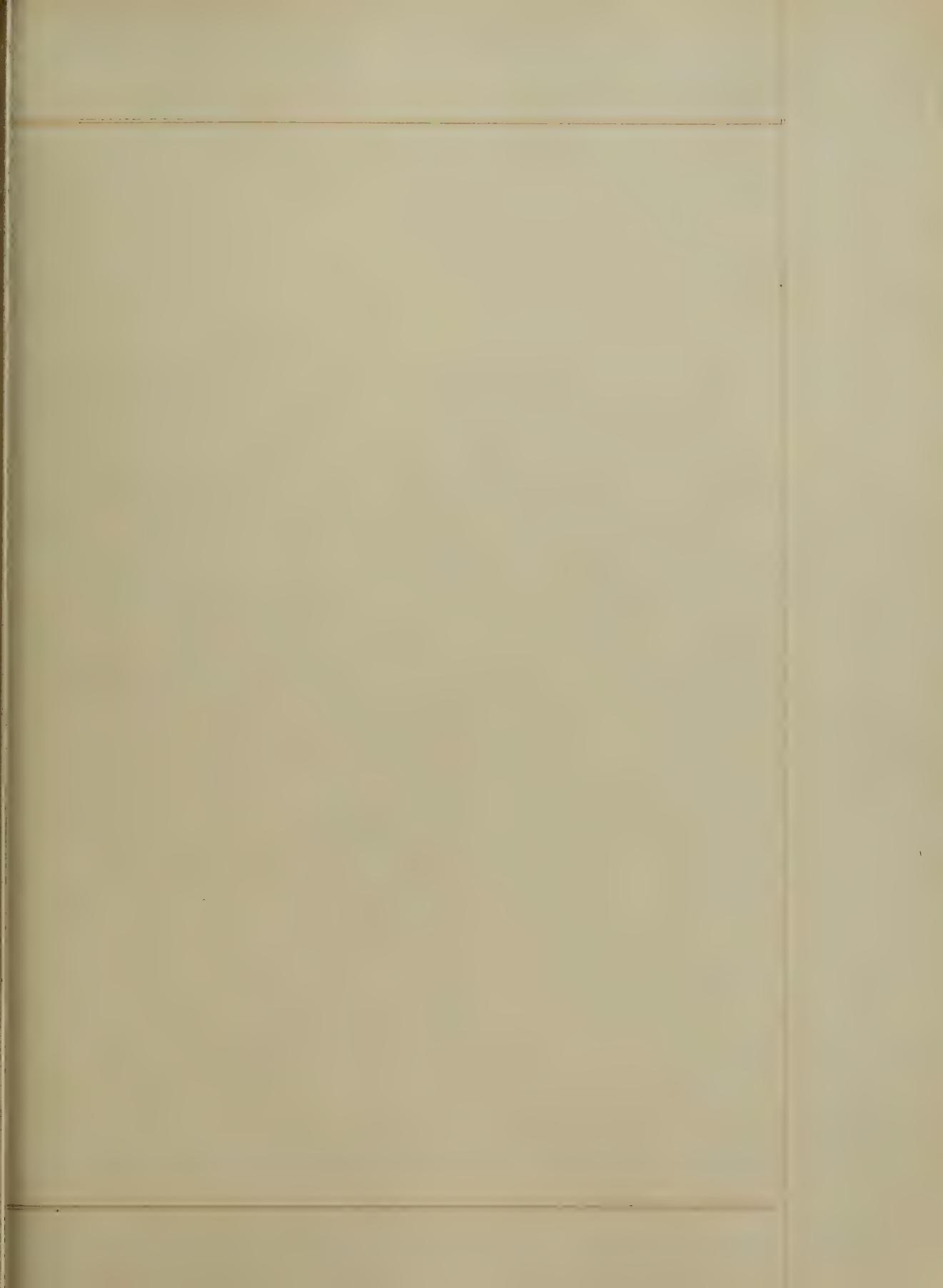
Mucilaginis 3*z*. M. S. 3*ij* liq. adie.

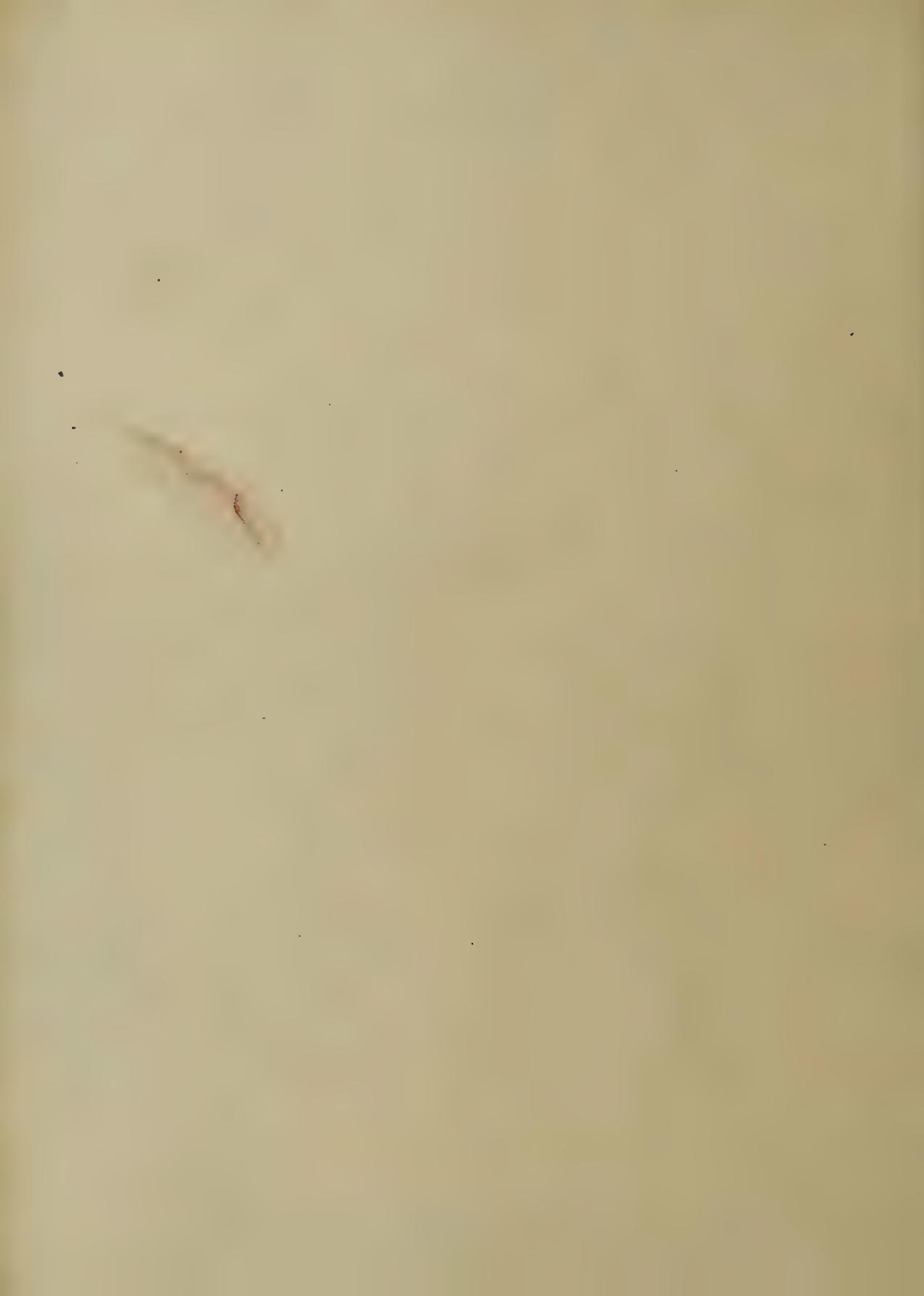
the following formula is recommended by Burnslead
R. Lac tauri

Pulveri. camphorae, $\frac{aa}{3}$ fl.
M. ft. pil. xx.

Dose. - Two at bed time

Hemorrhage occurring during erection, need no special treatment. Abscesses occurring along the course of the urethra are to be opened early.





An Inaugural Dissertation on.
Acute Pericarditis.

Submitted to the examination of the
Provost, Regents, and Faculty
of Physic, of the
University of Maryland,
for the Year of
Doctor of Medicine,

by
Thomas P. Howell,

Indian Territory,
Session of 18th / 8th A.D.



Acute Pericarditis

Is an inflammation of the serous membrane lining or investing the heart or the pericardium. The morbid appearance resulting from acute inflammation in this situation are essentially the same as in other serous membranes when inflamed. viz first reddened or congested appearance due to deternination of blood to the part but as death rarely occurs at this stage but later it will have led to the exudation of coagulable lymph. This exudation takes place sufficiently to give rise to the

Characteristics Solid deposit, often
probably within a few hours from the
commencement of the inflammation,
will be the deposit at first of a
jelly like consistency about slightly the
size membrane forming a thin layer
either limited at the base of the organ
and about the roots of the large
vessels or extending more or less over
the preceding surface. The process
of exudation goes on until the
uncoagulable or plasma portion forms
a liquid ~~with~~ which accumulates within
the pericardial sac. The quantity
of effusion in different cases of
pericarditis varies greatly according

in some cases to a pink and in other
cases only a brownish tint. The sputum
is serous, but may vary so much
that it is sometimes sanguinous.

The disease is divided into three
stages. The first stage may be con-
sidered as extending to the time when
the accumulation of sputum is
sufficient to be determined during
life by symptoms and physical
signs. The second stage will
embrace the period during which
an appreciable amount of sputum
continues. The third stage
comprises the duration of the
disease after desorption of the

The liquid. A more simple mode is
to describe the disease as consisting
of three periods. Viz. Before, during
and after liquid effusion. The
latter expression being understood
as applying to a quantity of
~~effused~~ liquid sufficient to
distend. More or less the pericard-
ial sac. Causation. Acute
Pericarditis may be produced
traumatically by perforating wounds
of chest or contusions. Exclusive
of its traumatic origin. Acute
Pericarditis as an idiopathic or
primary disease is extremely rare.
The changes of its development

irrespective of age & other disease. In
a healthy horse they are very rare.
The affections to which it is
an occasional complication are
numerous & it is much the
larger proportion of instances it
occurs in the course of either
Articular Rheumatism or several
affections involving Aluminuria.
The causative relation of these diseases
to Pericarditis is attributed
to a species of blood poisoning
and when we get to this we can
say nothing more. As to its
modus operandi, time and
metico-chemical researches are needed.

The impression prevalent with the
Medical profession at present is
that the excretory action of the
kidneys is at fault and that
it is to be attributed to the
accumulation of urinary
principles in the blood. The
intermediate morbid condition
determining Pericarditis is thus
supposed to be uremia. The
urea in excess, or the products
of its decomposition in the
blood, acts as poisonous agents
giving rise to inflammations
of the pericardial and other
serous membranes, among

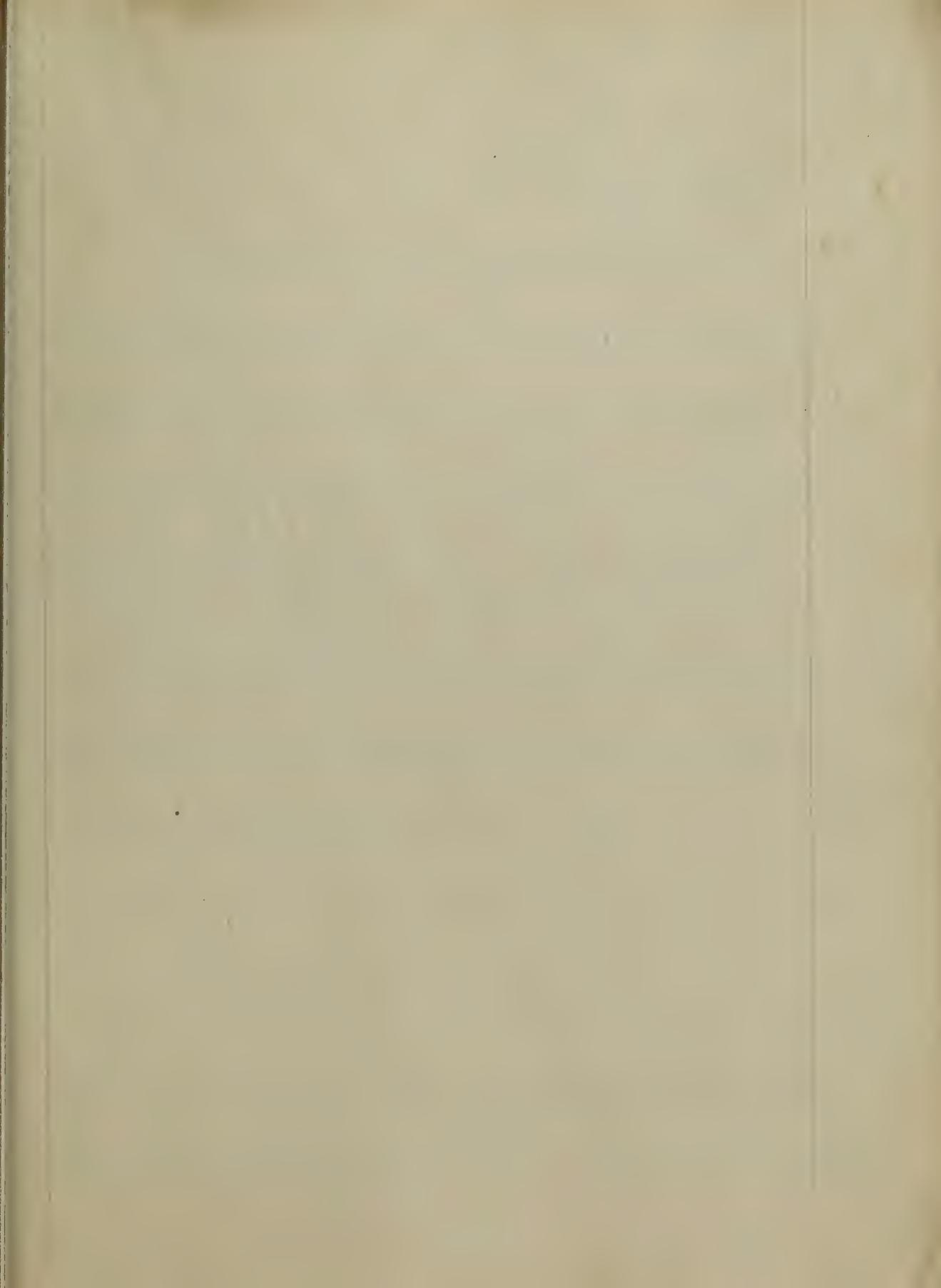
various pathological consequences.
This is the explanation we can
consistently make at present
knowledge. The diagnosis must
rest mainly on physical signs.
The friction murmur so
sound in the first stage of
Acute Pericarditis is almost
pathognomonic. Taken in
connection with the symptoms
and history. In the second
stage, the occurrence of
liquid effusion and its
quantity are determined by
percussion. Abnormal dulness
exists over an increased area

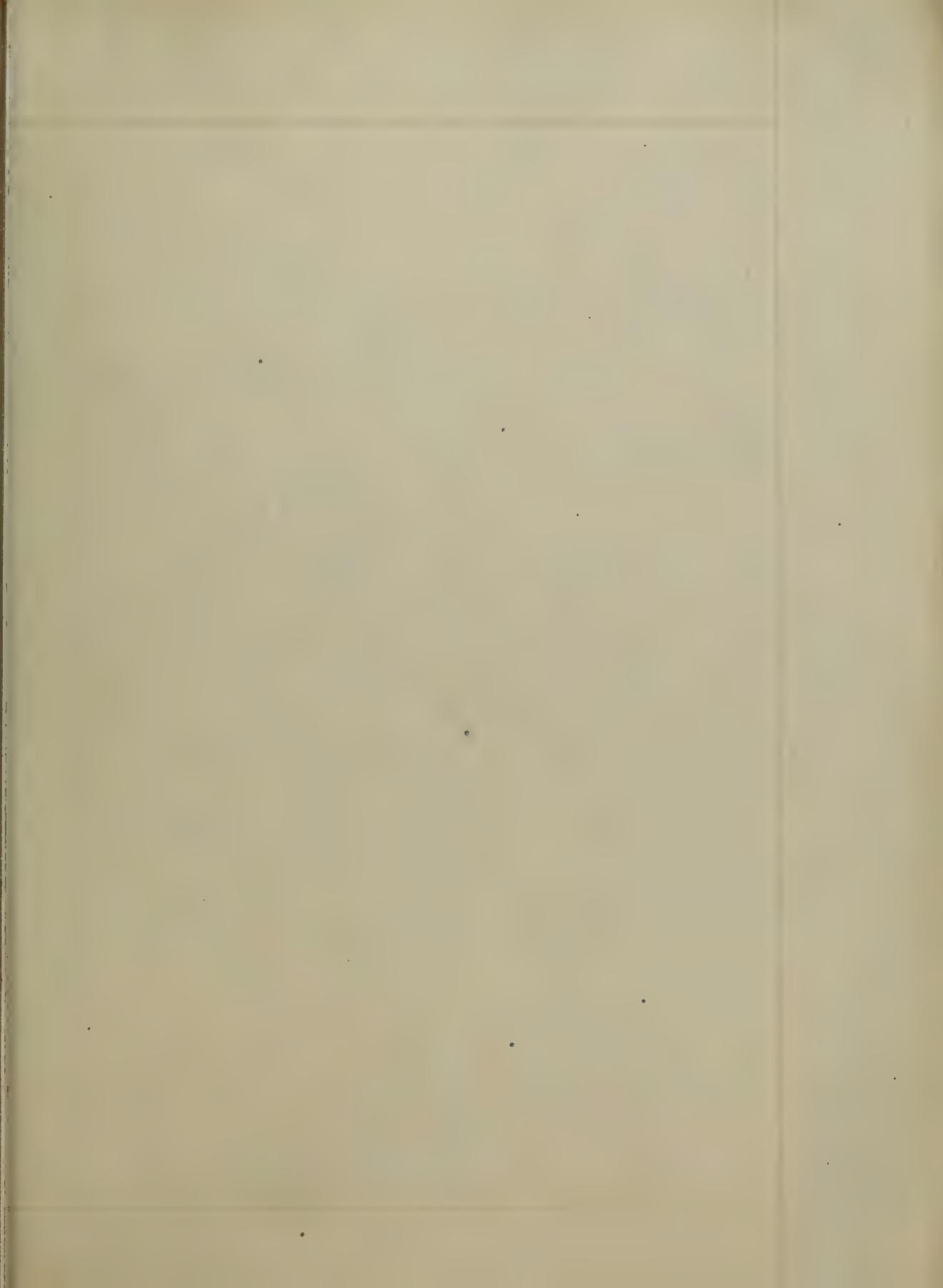
in precordial region. As regards prognosis acute Pericarditis is never a serious evil & is often a
benign affection. The gravity however, is due not so much to
the disease per se, as to the con-
dition of the system. The patho-
logical condition of the disease and
coexisting affections. Acute
Pericarditis occurring in connection
with Rheumatism, is very fatal
indeed. It is determined whether the
affection is simple or in connec-
tion with Bright's disease and
Pericarditis or various other affections.
It most generally results fatally.

As respects treatment of this
affection, aspiration by means
of saline fuscations, with restricted
diet, is indicated in
the first stage by the same
symptoms as in other acute
inflammations. The cardiac
sedatives such as Sint Agnita,
Digitalis & Veratrum viride
and others, are highly beneficial
by means of their tendency to
soften the heart action.
Opium is inadmissible in this
disease. It is indicated by
pained consciousness and
distress, however, -

The indications in the second
Stage relate, first to the
liquid effusion. The skin
and the proctitis may be
painted occasionally with
the tincture Iodine and small
listers may be applied.
Hydragogue Catarrhies and
caries may be suffused
with much benefit, taking
care not to carry these
medicines so far as to depress
the vital powers and
weaken the heart & arteries.
In the third Stage or
that of Convalescence

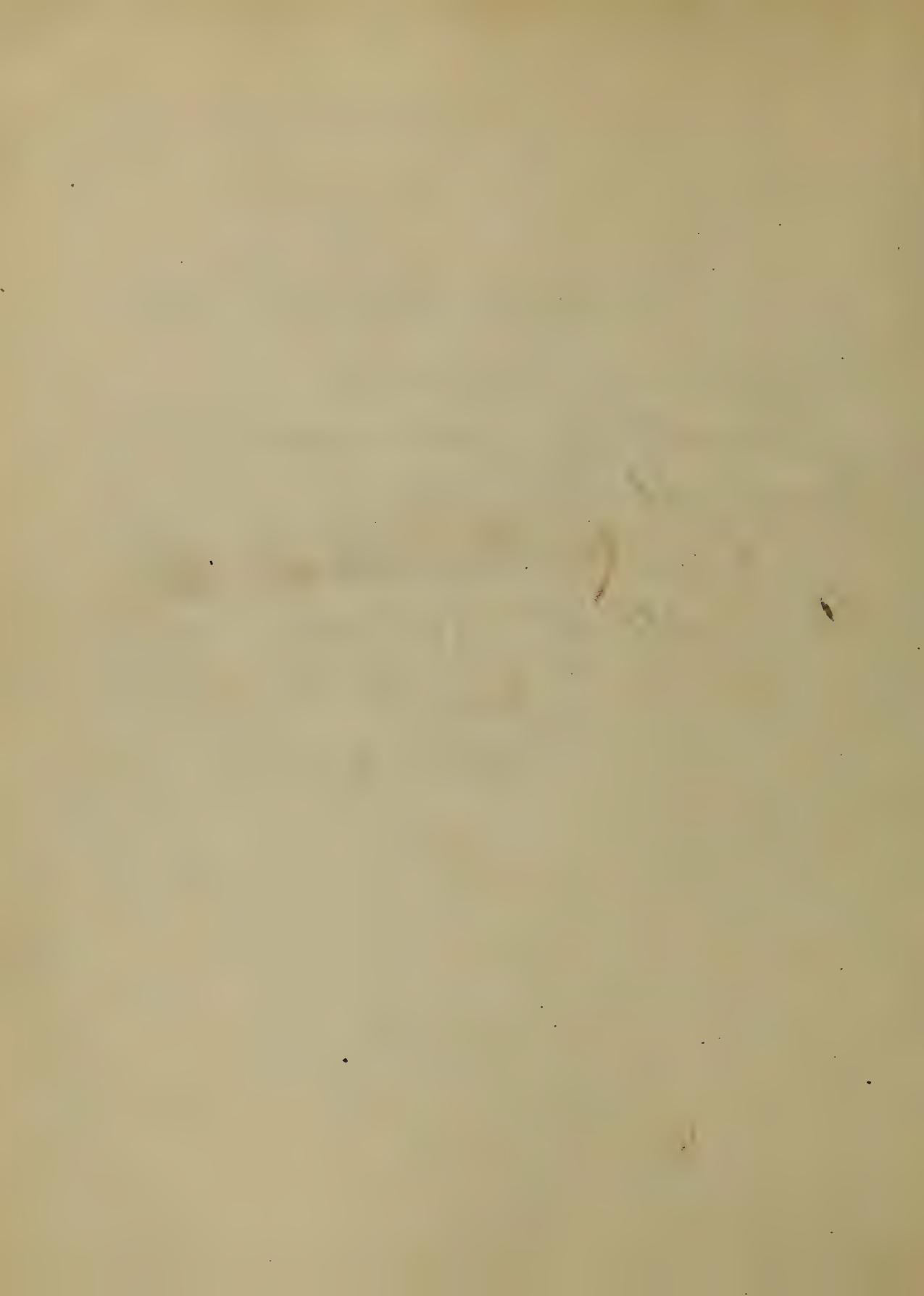
The Grindal Society
in their opinion will
recommend that Congress
make a law to prohibit
fugitive slaves to stop over
in the independent as
soon as Convalescence
is established





A New Inaugural Dissertation on
Spasmodic Laryngitis
Respectfully submitted to the
Examination of the
Dean ^{and} Faculty of the
University of Maryland by
James O'Keech
of Maryland

Sep. 1871-2.



The Symptoms anatomical Characters
diagnosis prognosis and treatment of
Spasmodic Laryngitis by
James Neech

This disease has been known
by many different names such as Strid-
ulous Cough Catarrhal Croup Spasmodic
Laryngitis and False Croup. This last term
being used to distinguish it from Pseudo-
membranous, or True croup.

Spasmodic Laryngitis is a simple Laryngo-
trachitis, with spasm of the glottis

This is a frequent disease, sporadic in
its nature, and most frequently attacking
children between the age of eighteen and

thirty months of age; it gradually decreases in frequency after the last-named age until seven years of age after which it is very seldom met with Symptoms. This disease commences variously. Not infrequently the child is affected for a day or two, preceding the attack, with symptoms of a common cold, such as a slight cough, of the ordinary character, soreness about the throat, and some bronchial irritation.

In some cases the cough is croaky, and a slight hoarseness of the voice, or in others, there are no premonitory symptoms preceding the attack whatever. In either case, the child is usually

awakened from sleep, between the hours
of ten and twelve O'clock at night with
a violent paroxysm of coughing and
dyspnoea, having certain characteristi-
c features. The cough is peculiar, dry
loud, and sonorous, immediately succeed-
ing which there is often a shrill
stridulous sound produced in respiration.
Accompanying this there is severe dyspne-
œa. If the child attempt to speak
the voice is more or less rough and hoarse,
and in very severe cases may become
whispering or almost extinct, but only
temporarily so.

The suffering during a severe attack
of spasmodic Laryngitis is often very

destroying. The face is flushed
and indicative of suffering. The child
cries and tosses himself about in the bed
lies on his back and extends the head
so as to allow as much air to enter the
larynx and trachia as is possible.
He however soon tires of this position
and he may then try the sitting posture
or supports himself upon the hands
and knees. or in short he tries all man-
ner of positions in the hope of gaining
relief. Sometimes if able to speak
he complains of constriction and pain
in the throat and chest. but often his
attempts at speaking are stifled by
the cough and this therefore adds much to

the violence of the paroxysm.

At first the skin is warm or hot and the pulse frequent and feeble but when the attack has last for some time, or it is a severe one, the effect of the impeded respiration is experienced in state of the blood which is imperfectly oxygenated, consequently the lips and ends of the fingers becomes bluish or purple. The face becomes pale the extremities cool. The pulse is very frequent running up to one hundred and forty one hundred and sixty or even higher and is feble and irregular. And just as asphyxia seems to be inevitable, the spasm relaxes, the air is allowed

to enter the lungs, the blood becomes oxygenated, the proper color returns to the lips, and face, the violent symptoms subside and the patient is allowed to fall asleep. and when he awakes is found to be greatly relieved.

The cough though greatly relieved, being both frequent and distressing, remains for a time, somewhat barking or sorrowous. The breathing soon becomes normal, health being restored in from one to two days. But in some cases the inflammation does not stop with the larynx but extends down to the larger bronchial tubes constituting the disease known as laryngo-bronchitis. Again in many cases,

after the disease appears to be completely cured it will return during the following night, or on two or more successive nights but with less violence.

Such I believe to be the history of tolerably severe attacks of spasmodic croup, which But the paroxysms are not so severe in the major part of the cases.

It is said that death very seldom occurs in a paroxysm of Spasmodic laryngitis, but that capillary bronchitis, pneumonia and measles follow an attack and then the prognosis is more grave.

Anatomical Characters,

When a child dies in a paroxysm of spasmodic croup the

mucous membrane of the larynx and
portions of the trachea are usually found
inflamed and somewhat thickened, and
more or less thickened mucous in the
bronchial tubes. In some cases there
is no evidence of previous inflammation
having existed ~~during~~^{before} life, from the post
mortem appearance, but the hyperaemia
might have disappeared after death, as it
is known not infrequently to do.

I do not know that this disease presents
any distinctive marks ~~after death~~
~~to distinguish it from simple laryngitis~~
but during life the spasms of the
glottis is a marked and important
phenomenon of the disease.

Diagnosis. The diseases with which Spasmodic Laryngitis is most liable to be confounded with are pseudo-membranous or true croup and laryngitis mucosus stidulus both of which somewhat resemble false croup; but scarcely can be confounded with either if attention be paid to the history of the case.

The positive symptoms of spasmodic croup are: the sudden occurrence of the paroxysm in the early part of the night, only preceded by a very slight catarrh with cough, and the paroxysm having its maximum of intensity from the first. The cough is loud ringing and sonorous. The voice or cry is usually

almoste natural, or if it shoule be offec-
ted is only momentarily so

The fever in a great majority of cases
is slight, or of high baste but for a
short time. The paroxysm is short lasting
from thirty minutes to two hours and
the whole effects of the disease passes
off in from one or two days unless
followed by bronchitis or pneumonia.

Pseudomembranous croup on the other
hand, though having a catarrhal stage
resembling false croup in its initiation
soon presents distinctive character.
Very early there is marked hoarseness
of the voice which gradually goes on
increasing until it is almoste or quite

extinct. The attack instead of being sudden, gradually reaches its maximum of intensity and is liable to occur in any part of the twenty four hours. The cough is hoarse muffled or suppressed. There is usually high fibrile movement from the first and lasts throughout the disease. The Paroxysm has no definite limit and lasts from a few hours to as many days, and in those cases which end in recovery many days are required, for the patient to regain his previous health. If the presence of a false membrane can be detected, either upon the fauces or in the sputa or the matter vomited

of course that at once settle the question.

The diagnosis between Spasmodic Cough and Laryngismus Strictorius is easy.

In laryngismus, there is no cough, or fever attending the paroxysm, which paroxysm only lasts from fifteen to forty seconds and is just as liable to occur in the day time or later part of the night as at any other time.

Again there are no catarrhal symptoms preceding the attack, nor is it more liable to occur after exposure than at any other time.

Causation. This disease is much

more common during the damp & cold weather of March, April, October & November and early part of December than in the remaining portion of the year. Insufficient clothing and vicissitudes of temperature are not infrequent causes. It is said that children in some families are more liable to false chills than in others so that an hereditary liability must be admitted. Boys are much more liable to it than girls, and those of a nervous irritable temperament, are most commonly affected.

Prognosis. Spasmodic Paroxysms very seldom ends fatally, but death does

Sometimes occur in a paroxysm and it is highly probable, that it would end much more frequently in this way if it were not for the effects of treatment which is, in the great majority of cases perfectly satisfactory if proper remedies are applied. Although very seldom fatal per se. this disease is not infrequently followed by others which often end unfortunately. The most common of these are bronchitis, pneumonia and measles. These are often serious diseases when attacking infants in previous good health, but are much more so when they follow an attack of galu coups, which weakens the child and

renders it less able to bear up under their prostrating influence. This may also be said of other diseases which may accidentally follow.

Treatment. The indications to be met are twofold, first to relieve the spasm of the laryngeal muscles, and secondly to cure the laryngitis.

To meet the first indication, the patient's lower extremities are to be placed up to the knees, in a bath of the temperature of ninety six degrees Fahr. and be allowed to remain for twenty or thirty minutes; hot water being added from time to time so as to keep the temperature constantly up to nine & six. Simulta-

neously, with the use of the bath a mild emetic should be given such as

R Specacuanha. $\frac{3}{4}$ j

White sugar. $\frac{3}{4}$ j

Water $\frac{3}{4}$ t. fl.

S Dessert spoonful every few minutes until sneezing is produced. Or preferably

R Alum $\frac{3}{4}$ j

Fine Specac. $\frac{3}{4}$ j fl.

S $\frac{3}{4}$ j every few minutes until free vomiting is produced.

This treatment will in mild cases usually break up the paroxysm and nothing more is required except perhaps a mild antipyretic such as a few drops of laupia.
Fine opium. But in severe cases more

Energetic treatment is required; to give prompt relief. The child should have instead of the fumigation, a general bath of the same temperature viz- 96 Fahr. The water should reach up to the neck of the child and it should be allowed to remain some ten or twenty minutes after which it should be taken out wiped dry and put to bed. As in the mild cases, an emetic should be given while the bath is being used. Alum is said to be very efficient in these cases. To a child one year old, a teaspoonful of finely pulverized alum may be given in some pleasant Syrup and repeated in ten

or fifteen minutes if required. Should
the ulcer fail, or a more sedative action
desirable, the following may be resorted

to.

R. Tartar emetic gr. j

Specacanthha vj

Symp. Squills fij ff

In a child one year old the dose is a
drachm. In these severe cases the air
of the room should be kept constantly
loaded with the steam of hot water, and
at the same time warm fomentations may
be applied to the throat. The inhalation
of small quantities of Ether or Chloroform
will materially shorten the length of
the paroxysm and may be resorted to
in urgent cases. Bleeding is very

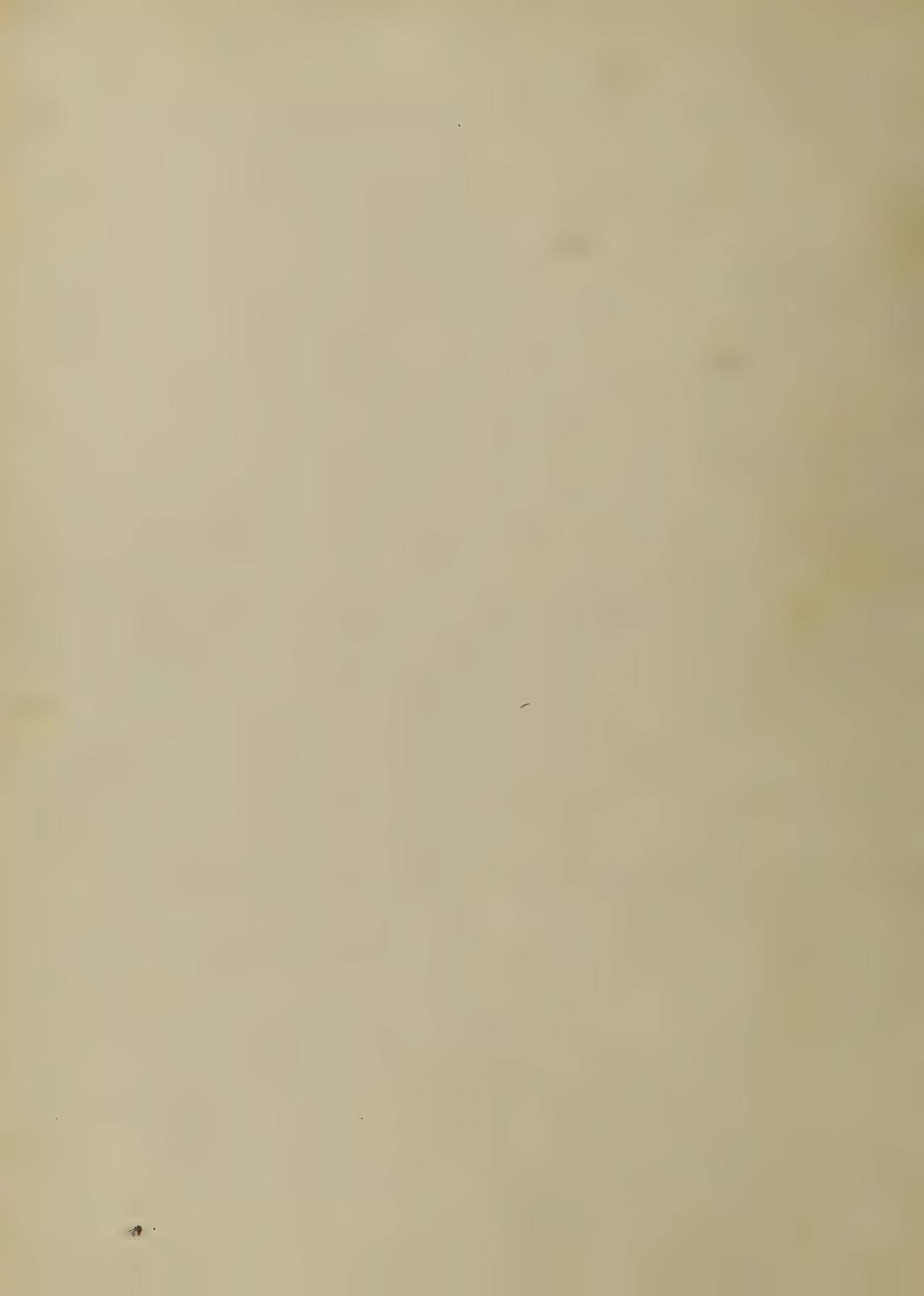
seldom called for in this disease, but
when other measures have failed, and the
^{over three years of age} child is ^{not} robust and strong, with high
fever, and the breathing so much obstructed
as to cause vicious congestion, under these
circumstances it should be resorted to and
will seldom fail to give relief, although
but a small amount being abstracted.
After the spasm is relieved no anodyne
should be given - is Eight or ten drops of
paragonie or one or two drops of deo. Tinc.
opium. To fulfill the second indicatio-
-n - to relieve the baryngitis, if the bowels
are constipated a mild aperient should be
given and to relieve the cough the
following

R Syrup Phoebe
Syrup Sgrasses with 3 fl. oz.
10 gths X-XV. every two or three hours to
child one year old. If there is any
prostration or evidence of lung trouble
the patient should have the more stim-
ulating expectorants. such as senega
or caps. of ammonium. good nutritious
food. Stimulants should be con-
sumed early. as it is best to begin
their administration a little too soon than
too late.

After an attack of spasmodic laryngitis
the child should be confined in doors, and
not be allowed, while there, to be subject
to vicissitudes of temperature

*P*ropylaxis As many children are subject to repeated attacks of this disease it becomes an object to prevent them as far as possible. To effect this robust children should be comfortably dressed, and allowed plenty of exercise in the open air in good weather, but should be kept in doors during damp cold days. Prof. McSherry recommends bathing the throat once or twice daily with cold water as a valuable prophylactic measure. Delicate nervous children should wear a tight jacket with long seams and so put upon a mild course of chalybeate or vegetable tonics with occasionally a small quantity

of good old "Spiritus Vini Galici"



Thesis by D. D. Jones.
Respectfully Dedicated to his
"Alma Mater" & Submitted
to the Faculty of the
University of Maryland
for their consideration.
Hoping they will mete
out unto him that
leniency which Youth
& inexperience so
greatly demands

Session of 1871072



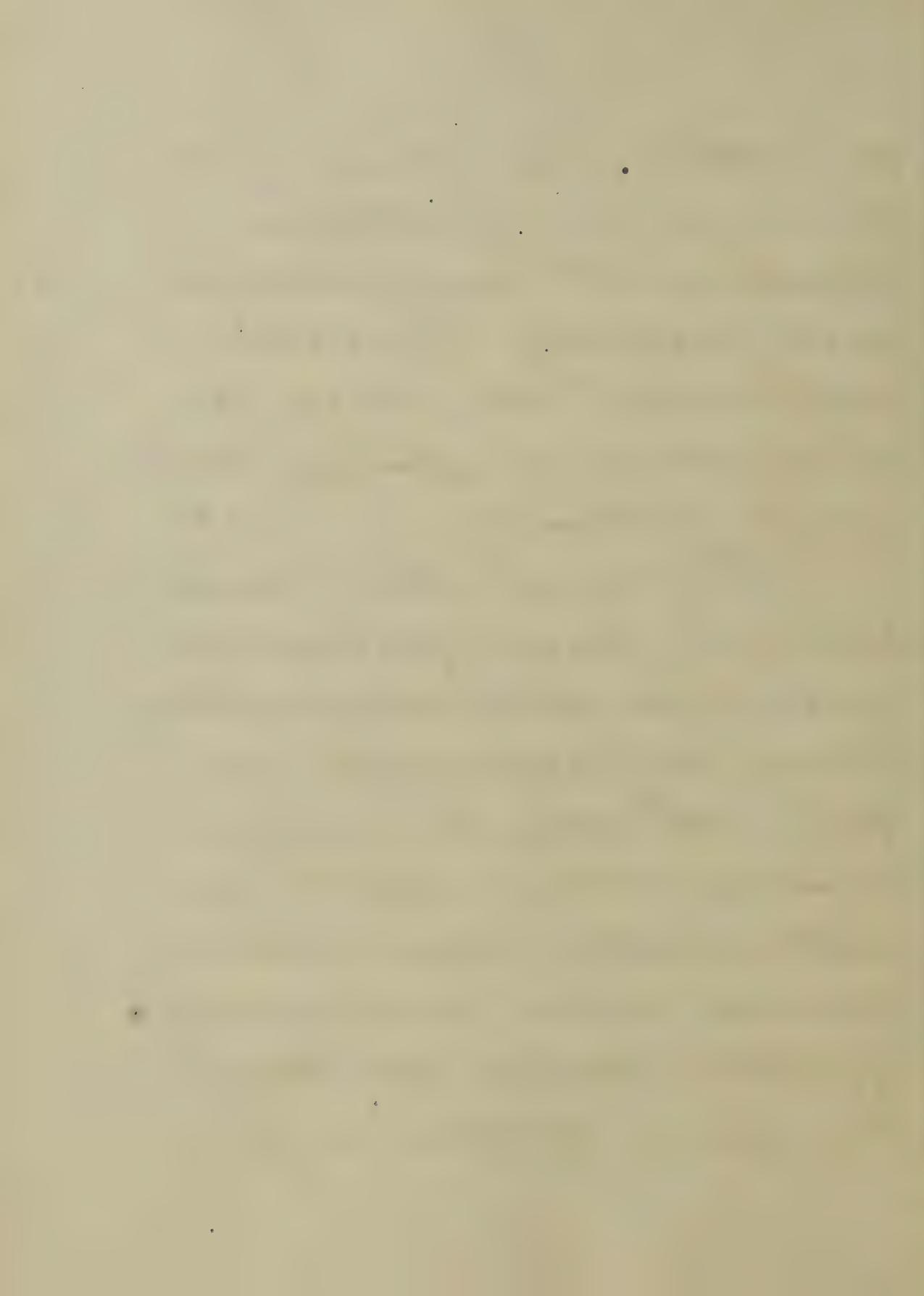
"Malaria Haematuria"

It is not expected
that a medical student at
this era of progressive sci-
ence, should make any
very wonderful discoveries,
or advance many original
ideas of much value;
for men of great experience
and ability are constantly
deliberating in the mines
of science for new and
useful discoveries - Yet, it
behoves every earnest
seeker after knowledge
and every well wisher
to our great "Healing
art" to contribute of

their store of knowledge
and experience, though
limited it may be, for
the relief of suffering
Humanity and the pro-
-mote of the science of
Medicine. I do not
expect many if any to
be much edified by what
I may contribute in this
dissertation - but as an
essay on some medical
topic is a ~~prerequisite~~
for the degree of Doctor
of Medicine - I purport
to record what little I
know of a new disease

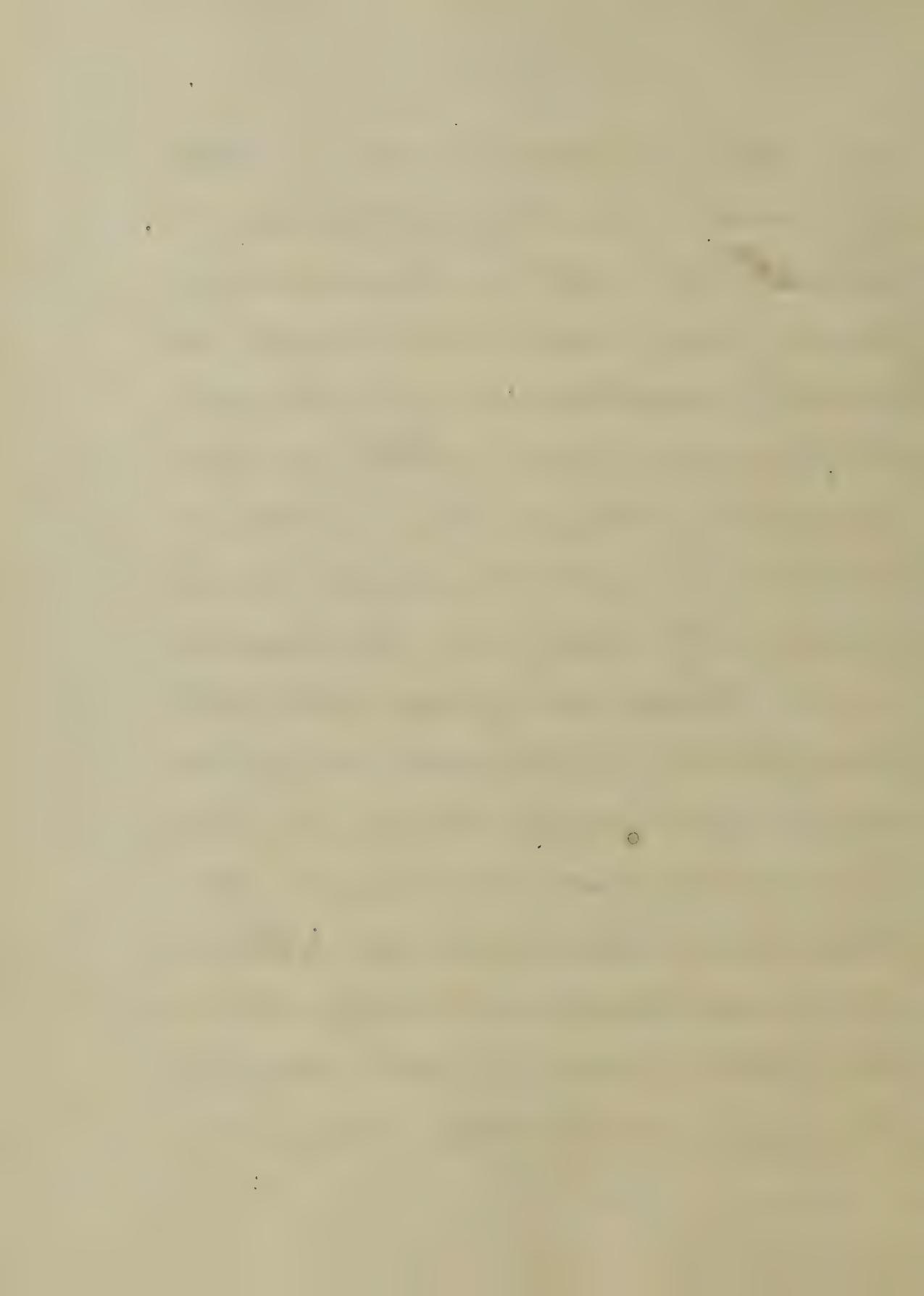
or rather. new form of a common affection - peculiar to my latitude and nativity, "Southern Alabama". The once beautiful land of prosperity and liberty.

The most that I record shall be from personal experience and observation having myself suffered from the disease under consideration and been with a Brother and several friends when similarly affected. It has not been my good fortune to find



any thing elaborate on the subject in our classic Text-Books - they merely gave you an inkling as to the existence of such a disease, but nothing definite - what has been written is at present confined to medical journals.

About the year 1867 this new form of disease was first described and denominated by several names, such as Malaria Haematuria, Hemorrhagia Malaria or by the profession, and by the non-professional, Yellow disease



and Yellow Chill - names indicative of prominent features in the disease. I rather prefer and shall adopt "Malaria Haematuria" as the most significant title-expressing as it does the cause - "Malaria" - and one of the most prominent and constant effects - "Haematuria."

Malaria Haematuria when first observed was not fully understood, i.e. its Pathology - Consequently the treatment was confined mostly to alleviating

Symptoms and rather effi-
cient - and as might
be expected in such a mali-
ignant affection improperly
treated - the mortality was
fearful - very few attacked
in any of the severe
forms surviving. Now
that it is better under-
stood and treated on more
rational principles the
mortality is much less -
from my observation about
30 per cent. I have no statis-
tics from any other source
Epidemic Cerebro Spinal
Meningitis as a terror has

given precedence to Malaria Haematura and well may the fears of the public be great for I have yet to witness a more rapidly prostrating and fatal disease in its course.

The query arises, what is Malaria Haematura? It is nothing more nor less than a malignant form of Intermittent fever of the Congestive type. That it is due to malaria is a question not to be mooted - for it is peculiar to malarial districts - amenable to the

same treatment of Malaria
diseases in general - and
in scarcely any instance
attacking any but persons
who have suffered from
chronic Intermittent fever
and whose general Health
very much impaired thereby.

The unfortunate has fre-
quent chills, may sometimes
escape for a week or two -
but most always overruled
by their depressing and de-
bilitating effects. The com-
plexion is of a waxy pallor -
the conjunctiva muddy - the
tongue slightly furred - di-

-gestion impaired and in fact
every thing indicative of
impaired and vitiated se-
cretions - finally, he has a
chill - in some instances very
severe - while in others com-
paratively mild for the
amount of injury inflicted
The chill is followed by
high fever, parched mouth
extreme thirst, suffused
eyes, restlessness and anxiety
generally very great, sighing
respiration and quick bound-
ing pulse. During the
febrile manifestations -
nausea and vomiting are extreme

The patient vomits a dark
frothy bile - and sometimes
the vomit is so dark as
to be styled by that terrifying
epithet "Black vomit". Some-
times during the chill the
patient experiences a desire
to micturate and passes a
copious amount of bloody
urine. This may not occur
in several hours after the
invasion of the chill. It is
always a source of great
alarm and if a physician
has not been summoned
no time is lost. In some in-
stances, in an incredibly short

time after the invasion of the
Chill, jaundice makes its ap-
pearance - The skin assumes
a dark yellow and sometimes
bronzed appearance - So prom-
inent is this feature, that
the disease received its name
from it - "Yellow Chill".

This change from a pale
anemic color to a deep bronze
occurs sometimes in as short
a space as fifteen minutes -
at other times very tardy and
gradual. With the Jaundicia
we have pain in the back and
well defined over the region
of the Kidney. The bowels

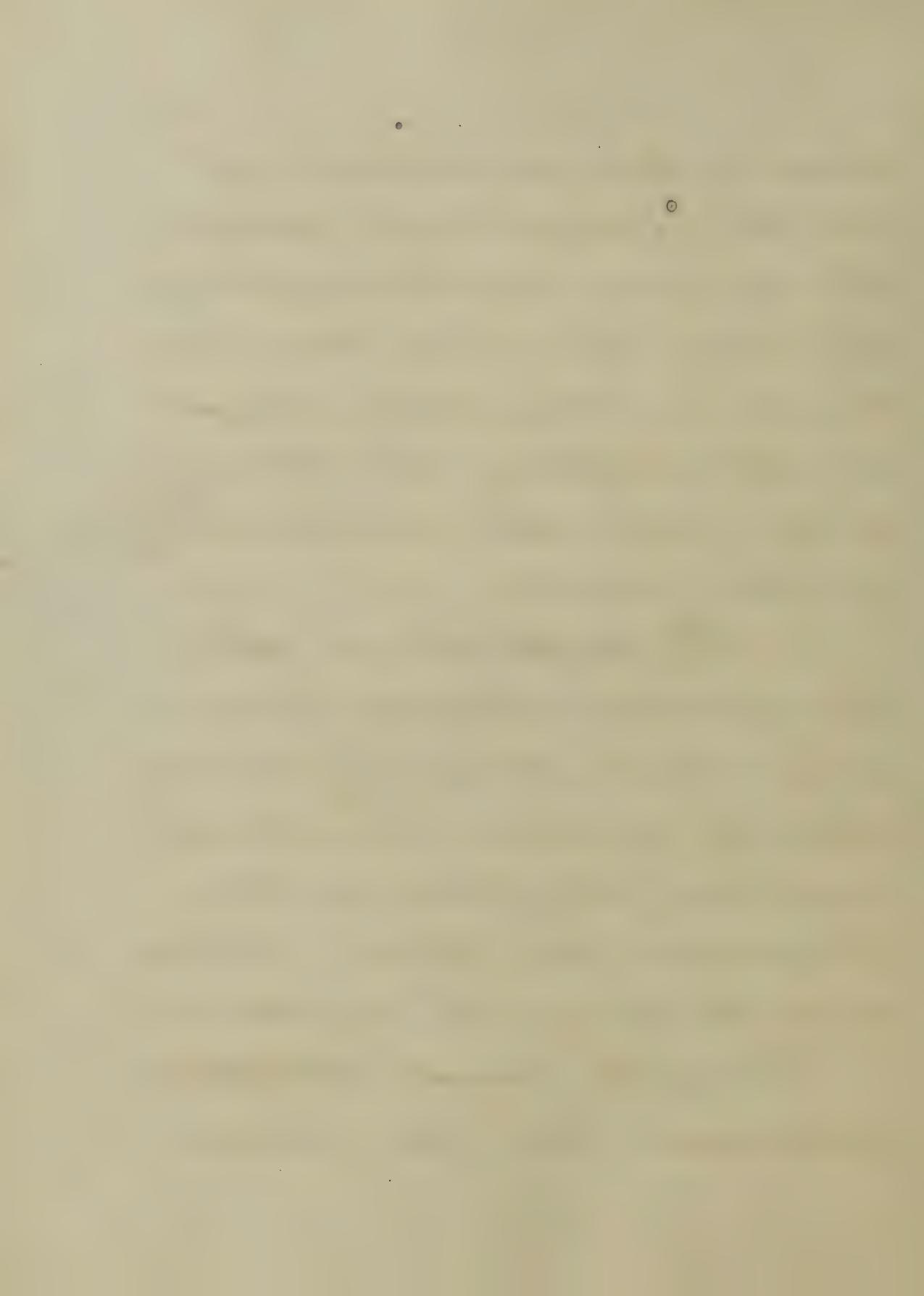
are usually constipated though sometimes there are copious discharges of dark tarry feculent matter. The mind is usually clear. After a time if the case bids fair to go to a favorable termination there occurs a remission though frequently the patient sinks rapidly from exhaustion the result of hemorrhage, or more frequently gradually from Aicholia or uremia the result of suppression of the functions of the liver or kidneys.

If a remission occurs

there is an abatement of all the symptoms except the nausea and vomiting, the skin becomes clearer, the urine clear and limpid, only to resume its bloody color upon the invasion of the chill.

Dr. Mitchel in the "New Orleans Medical Journal" says that autopsies reveal extreme rigor mortis - muscles very red - a yellow color pervades the brain - chest and abdominal organs.

Stomach filled with dark granulous bile. The spleen



Much enlarged solid and hard. Kidney enlarged and presenting the appearance of piping through severe inflammatory action

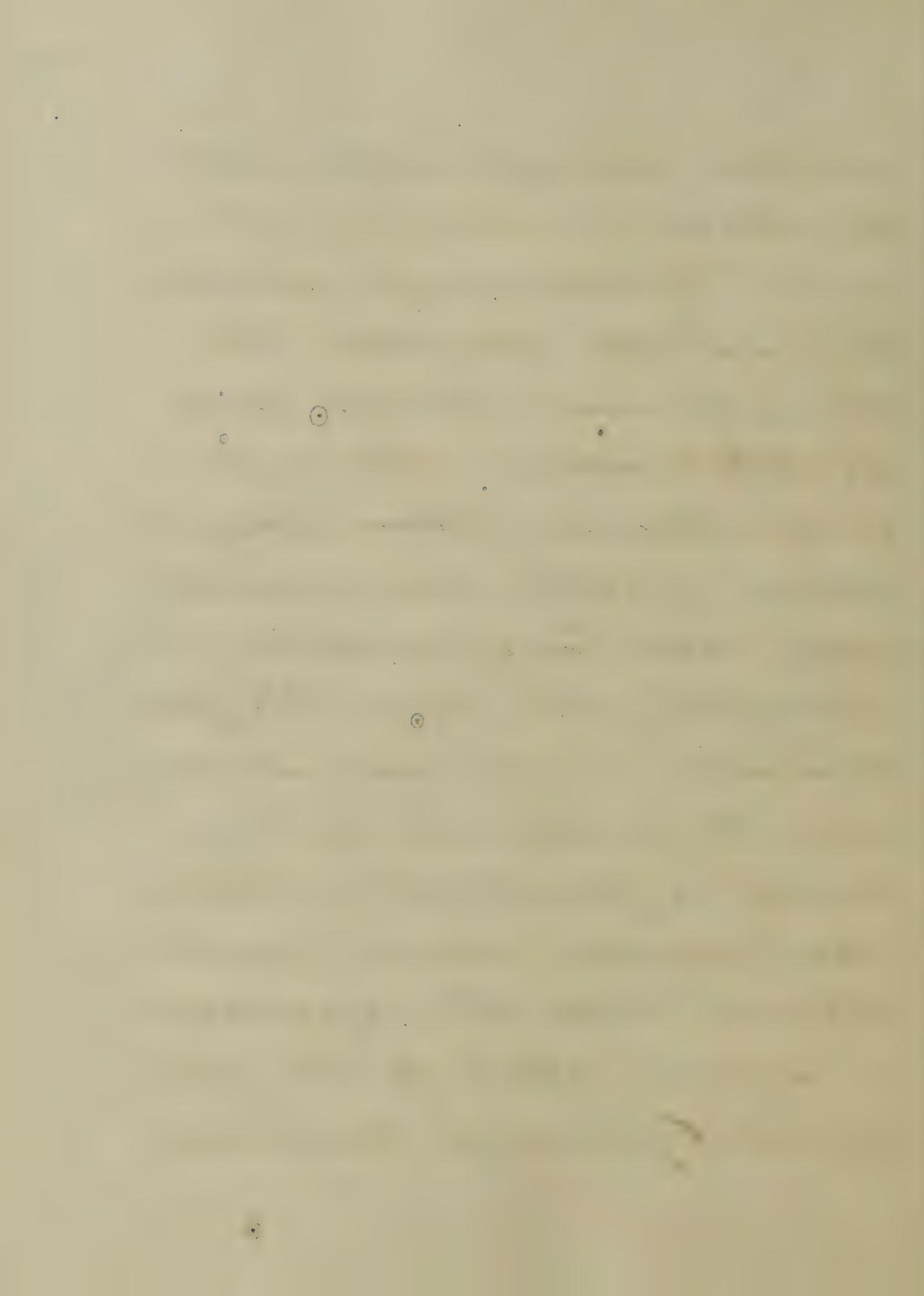
His treatment is first of all to give large doses of Mercurials followed by Castor Oil - and after the bowels are moved to give large doses of Quinine with Capsicum until the quinine has produced a decided impulsion. For the haematuria Opiates and Astringents

Dr Kyser of Alabama
Who has been very suc-

-cessful in the treatment of
Malaria Haematuria - places
more confidence in Soline
Cathartics, Quinine and
mild diuretics - such as
Buck's, Nitre and neutral
mixtures. In no case does
he use astringents to
check the vaginal dis-
charge - Considering
the keeping up of all
the secretions - ~~where~~
not too profuse - ~~more~~
important than most
Physicians will concede
Counter irritations by
means of Mustard Cataplasms

are also one of his favorite remedies.

Guinine is no doubt the sheet anchor to which we should trust in this, as in all mala-viol disease. How large doses of the mercurials can act beneficially is a mystery to me. The prostration is already severe and to increase it by such a prostrating remedial agent seems un rational. Yet the experience of some attest to its good effect. Opium I consider



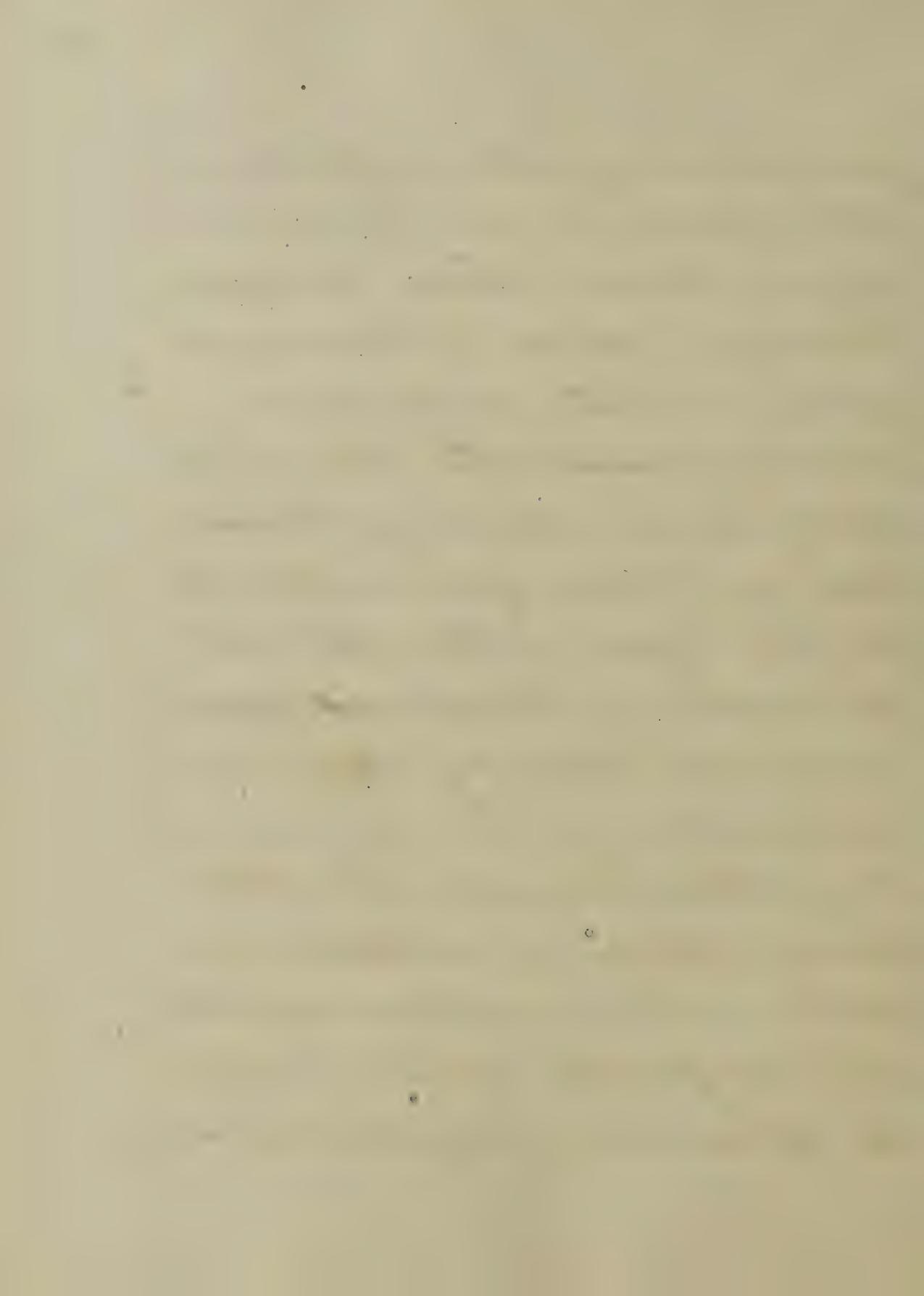
hurtful, diminishing as it does all the secretions and blocking up the passages for the exit of the materials of the rapid disintegration that is going on in the system.

In order to illustrate my views more fully I will here record the history of several cases, their treatment and its result.

In Nov. 1868. My Brother, who had for several years previous been a subject of Intermittent fever, of the Tertian type, was seized

with a chill of the malignant form - which lasted him unusually long and left him much prostrated, but rational in every sense - High fever followed, pulse quick and bounding - temperature of body not taken, tongue slightly coated - bowels somewhat constipated - severe pain over the lumbar region - thirst great and features anxious - nausea ensued and Emesis became almost incessant, vomiting at first a yellow mucus substance later in the stage a dark

gumous ejections followed,
they assumed an asteroid
appearance, then a deep
bronze color - kidneys
active with copious
micturations, the two first
acts were highly colored
but no blood perceptible
to the eye - the third
presented a profuse am-
ount of bloody urine.
resembling in appearance
congested venous blood.
Urine never was tested - I
noted when allowed to
stand for several hours
it assumed a jelly-like substance



Micturition gave no pain whatever.

These grave symptoms reached their acme about the 6th or 8th hour, modifying as the fever abated. Nausea and some vomiting persisted during the Apyrexia stage, and the skin tardily assuming its normal appearance.

Treatment. In the early stages of febrile action, ice was given ad libitum which allayed thirst and, seemingly, exerted a

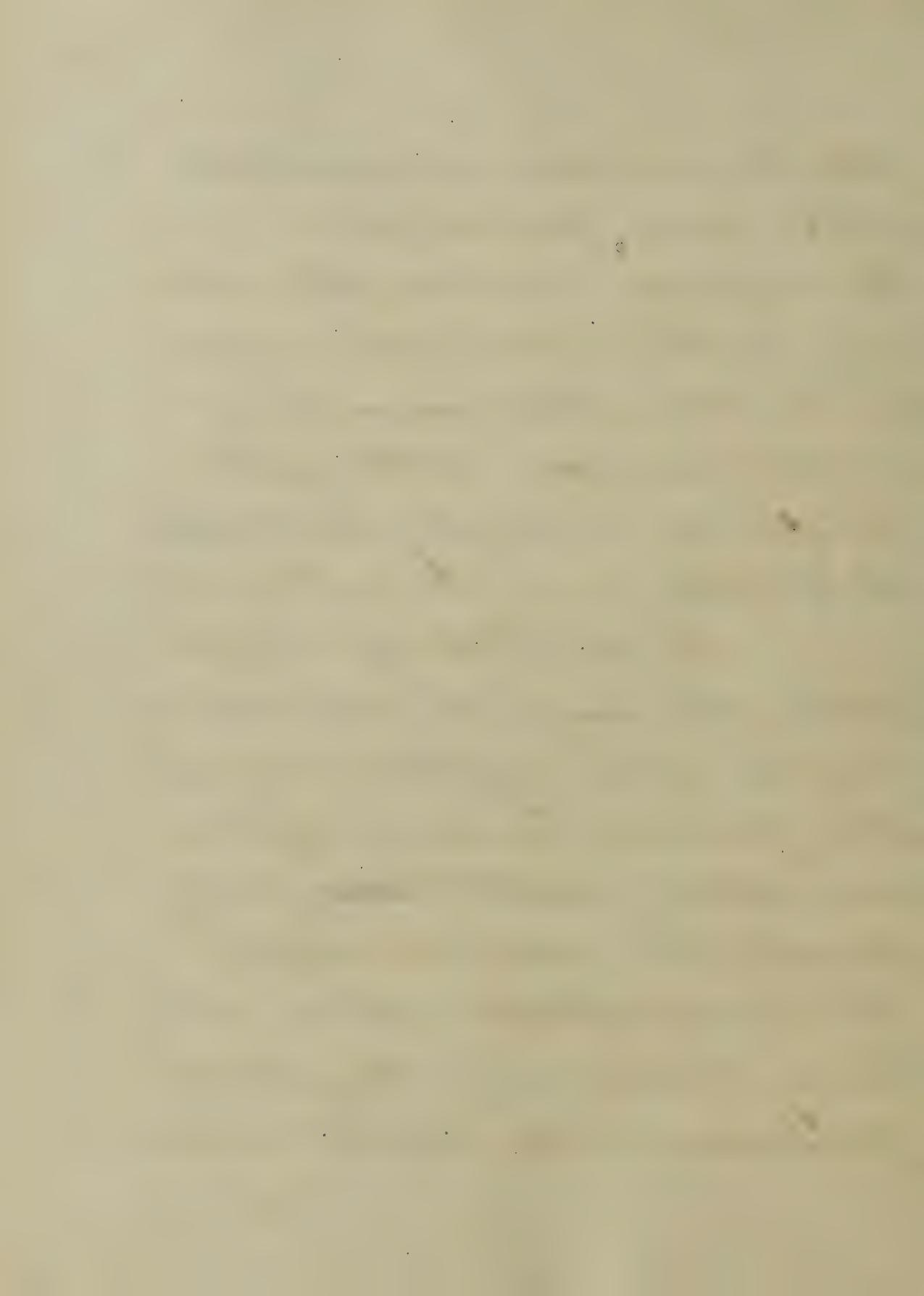
Prompt sedative effect -
linings of mustard over
the abdominal and lumbar
regions - Oli Perubithin 10 to
15 drops every two hours &
trepid baths medicated with
Soda Carbonas - As the fever
abated, Quinine and Galsemi-
num until the desired effect
of the former were produced

The perspiration that
resulted stained the bed sheets
a pale orange color. No
paroxysm returned - Quin-
ine was kept up for
several days, with farina-
ceous nutriment, beef tea &c.

Also tonics and stimulants
as the case demanded.

Couvalgence ensued the 8th
day with rapid recovery
to health. Has never had
a chill since. Although he
resides in a highly Malarious
district.

In the fall of 1869.
I was the unfortunate victim
of a similar affection myself.
The prodromic symptoms
and their results were pretty
much the same - with
this exception - that the
Bloody urine in my case
preceded the chill some



fifteen minutes and was never so profuse as that of my Brother - Neither was my Chills as severe, but the Emission and bronze appearance of the skin in my case persisted much longer.

The principle treatment was a dose of Chloral upon the invasion of the Chills. Counter irritants of Mustard Cataplasms. Buchu Fluid Elix and Nitre. Alternate, every two hours with Gossypium as the Shut Anchor - No Paroxysm recurred - Nutritious diet, Tonics and Stimulants given

prorenata. Convalescing
the 12th day and recu-
peration to general health
more tardy than in the
preceding case. Have
had no chill since.

In the fall of 1867. A
friend and neighbor of mine
who was a subject of Chro-
nic Intermittent - was
afflicted by this disease,
with all the characteristic
features recorded in the
preceding histories. In
the course of 4 or 6 hours
there was complete sup-
-pression of the urine

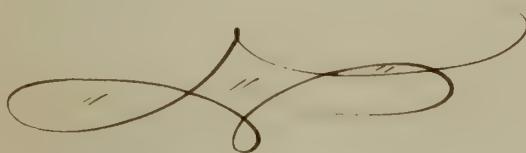
The most potent sin-
etics, turpentine stupes,
hot hip baths variously
Medicated were employed
but all treatment proved
inefficient - The ~~cat~~ died
from "Uremic poison"
on the morning of the
seventh day.

In Conclusion.
Malariae Haematuria seems
to be confined to the
Autumnal months, as I
have ~~not~~ seen nor heard of
it occurring at any other
Season of the year.
Moreover, It seems to be a

final struggle on the part
of Nature to rid the system
of the Malaria Morbi - As
I have yet to witness the
recurrence of a chill in
those who have undergone
the scourge and ravages
of this depricated Disease.

Very Respectfully
D. D. Jones
Richmond
Dallas County
Alabama

Dec. 30th 1871



On the Treatment

Malarial Fever

Delivered at the
Medical
Society

Dean and Faculty

University of Michigan

of Michigan

Session 1871-2.

the first part of the first book
and the second part of the second book
is intended for the use of those
who are desirous of learning
the language of the Indians
and Indians in their
language. The second part of the first book
is intended for those who
desire to receive a full knowledge
of the Indian language
in their own language.

The second part of the first book
is intended for the treatment of Malaria Fever. And
the following will be of great service

a summary of the different stages
of the disease, all called Intermittent,
Recurrent, Remittent and Pernicious.

It is often difficult to decide
from the three cases, which have
the same heat and with the same inter-
missions. The first stage of the disease
being the earliest stage, the heat is
more readily eliminated from the system;
the second or Recurrent stage, however,
in character requires more active treat-
ment. In the third or the
final stage the heat is less, & the
nervous system becomes more
degenerated, most physicians require a mor-

nic treatment. Do not understand
it to mean that a person suffering
with the one disease will
not contract the other.
What and why is the cause of
the state of health, which is not
the cause of the other? In
understanding we are as apt to have
a false idea of the cause
as of the disease. So the
diseases are divided into two classes,
which are not connected with each other,
concede therefore that the two
are properly described as separate diseases;
but how to distinguish them
according to their condition,
is, I suppose, the question.

The Pediobathe never attacks people
nor does it do so on roads, where
it is found in great numbers.
In some localities it is abundant
and sometimes it is common
in the fields with the same kind
of stones, but more frequently in
ravines or gullies. It flies,
and is about 1' from the ground.
It is constantly in the sun. The
sunburn may continue for one day
or even for a second or hundred times
navigated in water or air, and continues
to burn. After the sunburn, the
skin becomes a dark brown.

she can be distinguished by a distinct aphasia in the first thought and by short, And a reminiscence in the second which characterizes her. She can talk about her past history &往事, and also about a past movement of the body, and she continues to do so, even when she is silent. Her speech is slow, and she has difficulty in pronouncing words of long character, and often gives in some cases answers a person in question with more circumlocution and some of the other questions have been omitted, as we have great difficulty in

containing the following
The first part of the paper
according to the author, came
from different parts of the country, and
was written by the most of the
names are obliterated.

But in the second
part names were omitted,
with regard to the subject matter
of the paper, and the
author did not give any
name of any person, or as a name
and his son, and a man of
protection, which was
called son, and he called him
see that it is well known, it is a

case like this, it would be well
to have a committee of three or four
of the best men in the community
and let them go to the place where
the man is to be buried and see
what kind of a grave he has
selected near his former habitation.
This last would be much better
and similar would be needed if he
died on account of disease. If the
man reaches his own abode, or if
it is on some mountain, distant remote, in
this case, it may be good to have
three or four men travel in
company, I wish a committee of three
and can see would do as well.

other Preparation, and should be given
as in the first Case, when the pa-
tient is suffering much pain it is an ex-
cellent relief and very often salves
the sore place. This Medicine should
be cautious and not given to those
predisposed to the Sore, Emetics may be
resorted to when there is much & protracted
Stomach, nausea, etc, & Secacaria
is preferable, unless there be much
fetidness; when one may administer mu-
tard in laevioribus doses dissolved in
water, should it be great in
quantity it is stomach, or trachea & nose
water may be given, External Stimuli
may be used, or unguents with ment.

obstetric cases, venesection, or local bleeding
in the neck, or ~~the~~ the neck has been recommended in the last
hours, and should be used in cases
of violent pain, etc., where cold
or emmenagogue applications
above; but think it unnecessary to
recommend them.

It is not always necessary to com-
mence the treatment of the brain in
active cases, we may use local
washes out of cold water & the head
and face, above the mouth and nose
especially in the summer, soon after
a cold water or the head in the

To lime, or use the shower bath as
necessary, start cool & quiet, so as
to accustom the body to the
like heat of other weather. In
the evening a cool & quiet venice
Marl bath or warm. The
temperature required to afford an
cooling bath, ice water, eminable.
Mr. L. Liveressing draught etc. Sweet
spirit, Liniment or Powders Powder is
very useful to lessen nervous irrita-
tion. To avoid the cold & damp
more use insulation, Wool &
Silk. Soaking in a tub of
milk & the milk bath also
and datura (which is good).

contented with the above course, and wait
for the interval to administer more active
remedies. Should there not be a sufficient
interval, or should the fever be the
intermittent, we may use the following.
and if a sweat ensues or occurs,
case the patient is covered, by the
covered, with night or day clothes
is necessary, so that it is said
an active & copious sweat
may be induced, which the
sweat will, the longer he
rests, the more copious it will be,
and when it has been

is clean and no symptoms of bilious de-
rangements.

Stable cathartics will do, or Castor oil given
sufficient quantity to act freely. But
should there be a tendency to bilious de-
rangements, Camphor or Sassafras may
be given alone or combined with Castor oil.
It may also be used in decoction of
Peach leaves and the addition of the
leaves of some grasses will afford
tenderness to the body. This may
prove dangerous therefore. The body should
be kept in a saline condition without
any disease. It will mention in
the next place the most useful
remedies in the best form of Receipts.

mean Cinchonia and its Subservation.

giving preference to the small leaf Quinine. It is our best tonic and anti-periodic given in various doses and in all stages of the disease.

The patient who has not been drinking, must take a dose at which time breakfast may be given in divided doses. The 2d time is neglected or malreated if it may assume a low typhoid character.

The tongue becomes dry, covered with a dark brown crust with clean red edges. The abdomen tender and tympanitic. The skin hot and dry with delirium great prostration during which

time we may use. Opium and Quinine
in small doses, rectal opium may
be administered if necessary, the tabs
a mild enema would be prefer-
able. When diarrhoea is present it
should be abated with Arabic
and aromatic spirits of turpentine
is very valuable, it forms like a shield
like a charm in relieving the irri-
tation of the alimentary canal, cleanses
the tongue, and causes an abatement
of the sensations generally. It may
be given in doses from $\frac{1}{2}$ to $\frac{1}{4}$
every two hours. Best given with
gum arabic or loaf sugar. Various
tonics and stimulants are often used

result of the disease may be
more or less violent during the
course of the disease and require spe-
cial treatment. It will need in
order to do this, however, time
in doing so, so that more time will
be required than one already spent
down. If you then come round on
affairs then more time will be
the vital powers of life give way
so rapidly that it will be im-
possible to do much to save
the patient. Alcohol and other
narcotics, opium, cocaine or
morphine, are used; stimulants
are also used.

Some cases of constipation
will need the stomach be retentive.
Tannin, or acetate of lead is usefully
combined with the coffee emulsi-
ations on the bowels. Other stim-
ulants such as Camomile and
Ginseng may be used.
This induces the bowels to contract
or relax at the time of stooling
The case requires them. External
stimulants are most suitable
which may be applied directly to
the skin, & placed near the extrem-
ities, such as near the navel,
in various situations, will
act on the intestines.

skin is cold and shrivelled should
be persisted in. Directions may be
given to the patient to take a bath in
Turp Oil & Camphorated Linseed Oil
and Potash. In some cases
particular organ. Much to the
reverse of the above treatment has
been recommended i.e. the cold
bath or the cold affusion. And
since nature seems to point it
out what I wanted a trial. The
patient was established and it
is clear that the value of cold water
is proved when used in a
gentle way or applied in
a form of cold water with the

in the bone, he should then be
widely opened with a large
hot knife and the bone
carefully washed off.

Pericarditis will be great and the
left Fallopian tube stuck on the
now more solid mass cause retention.

As far as I can find out
remedy in this stage has not
got one, and I can't tell if
anyone is the right author here
as well as in the other stages.
It must be administered alternately
or in connection with all
the other drugs mentioned, in
large doses, and may be

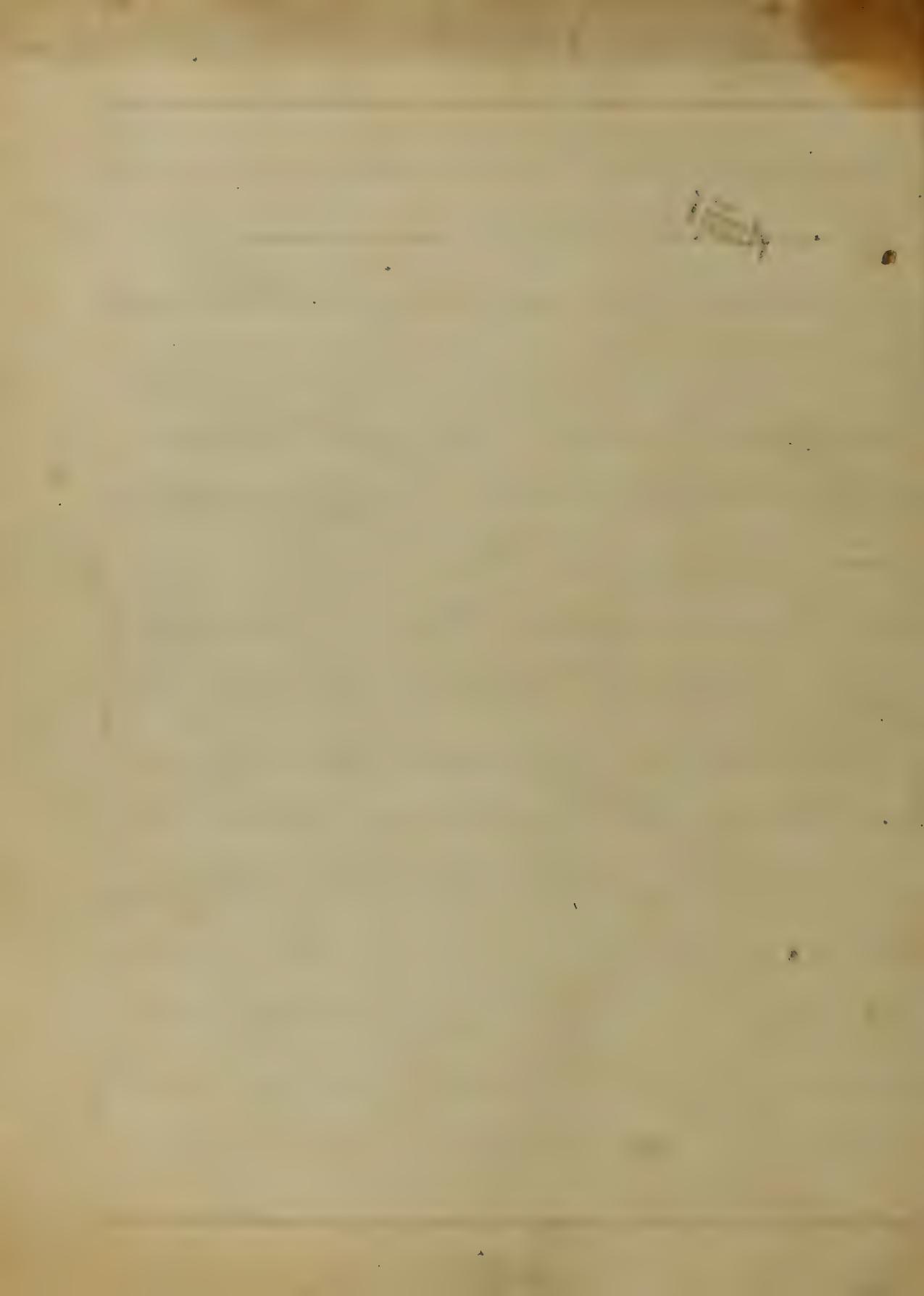
given and should be given
the 30th and will be 1.4.6.
a drachm or more has been ad-
ministered, or to be given in
the evening. Recently the British
Medical Council of administration of Quin-
ine in Malaria has been
The permission has been given
eulogized. It may be resorted to
when from irritability of the stomach
much cannot be taken when
given by the mouth, or when there
is inability to swallow. It is said
that it burns its effect man-
sion and that it has an effect
three or four times greater than

an abscess and incise it
therefore it will take some rea-
soning. A solution for injection
may be made by adding one
mineral. a few drachms Sulphuric
Acid to dissolve the Quinine
of the animal. The solution should
at once be in enough to contain
from one to three grains of Quin-
ine. In case of a tetanic fit the
effects of the Dr. should be
postponed until the fits have
a "natural" to attack.

The diet should be mild and
unstimulating during the first stages
but nutritious and stimulating

in the typhoid and malignant forms.
I am sure you will be interested
in the white cotton. The best
must be selected in quantity
as well as quality. He must avoid
all vicissitudes of weather and
use his judgment.

I am aware that I have
given only a general outline of
the cotton business. So far as I can see, it
will be a very difficult



An Inaugural Dissertation
On Digestion.
Submitted to the Provost, Regents,
and Faculty of Physic of the
University of Maryland
for the degree
of Doctor of Medicine by
H. Richmond Chamberlaine
of
Maryland

February 1872.

Introductory.

In compliance with the regulations
of your honorable body I herewith
present for your judgement and
inspection a dissertation upon
"Digestion"; its indifference to your
scientific minds cannot but be
very apparent, and I may offer in
apology, a reminder that the Medi-
cal Student can assert nothing
from practice or experience; he can
only give expression to those thoughts
and theories that his limited ac-
quaintance with medical books
has suggested to him.

I have selected this subject, because
I can offer my views and describe
the processes involved, without needing

that familiarity with disease which alone can give originality to a Thesis involving Pathology, Diagnosis and Treatment.

The study of Medicine embraces such an extended knowledge, and wide experience, so many theories, and so few Physiological or Pathological facts, and offers to her followers so large a field of unexplored and hidden treasures that a novice in the drama may well blush, to offer his simple essay to the criticism of so wise and matured minds. Seeking then your clemency for the errors contained herein I proceed to discuss the different processes by which our food gives up its nourishment.

and supplies our body with life
and energy.

"Digestion"

Digestion is that process by which our food is reduced to the proper form and consistency for absorption. It consists in the food being received into the alimentary canal, in its passage through which it comes in contact with certain digestive fluids which act upon it in such a way as to liquefy and dissolve it.

Since the food consists of substances having different physical and chemical properties, the several digestive fluids differ from each other

Each one exerting a peculiar action more or less confined to a particular species of food. These fluids are secreted by the mucous membrane of the alimentary canal and by glandular organs situated in its neighborhood.

In the passage of the food from above downwards each portion as it becomes liquefied is successively removed by absorption and taken up by the vessels while remaining indigestible portions are discharged from the intestine under the name of feces.

The alimentary canal in the human ~~subject~~ species is divided into different compartments which communicate with each other.

In the first of these compartments-

the mouth the food is first prepared for the complicated changes which it is about to undergo in its passage downwards. Here it is masticated - chopped up as it were - by the teeth, and moistened by the digestive fluids of the mouth, which are freely poured out by the different glands, and which lubricate the bolus of food and assist in its passage down the Oesophagus. The Saliva is a colorless and alkaline fluid, not simple in character, but consisting of a mixture of four different and distinct fluids, which are different in their chemical properties and the source from which they are derived. These secretions are poured

out from four distinct glands viz - the Parotid, the Submaxillary, the Sublingual, and the mucous follicles of the mouth. The total amount of Saliva secreted daily has been estimated at a little less than three pounds. It possesses the power of converting boiled starch into sugar if mixed with it at a temperature of 100°F ; from the fact of its possessing this property it was at one time supposed to be the true physiological action of this secretion, but this action does not take place in the natural digestive process and other means are provided for the digestion of Starchy matters altogether independent of the action of the Saliva. By the two processes which the food is

subjected to in the mouth, its preliminary preparation is accomplished: then it carried by the muscular contractions of the Oesophagus, and the force of gravity, into the Stomach.

The mucous membrane of the Stomach is very vascular and abundantly provided with glandular apparatus the gastric tubules, which are so closely set as to leave but a small space between them for the capillary bloodvessels the free surface of the mucous membrane is raised in minute projecting ridges each of which contains a capillary bloodvessel. The gastric follicles are different in different parts of the Stomach, they open on the free surface

of the membrane in the interspaces
between the projecting folds.

Among the tubules is also found another
kind of gland consisting of a closed
follicles similar to the solitary glands
found in the small intestine, the
follicles are lined by cylindrical
epithelium cells. That part of diges-
tion which takes place in the stomach
is the most important part of the
whole process. The Gastric juice is
secreted only under the stimulus
of food on the introduction of which
the mucous membrane becomes turgid
and reddened and a clear acid
fluid collects first in drops, under
the mucous membrane lining the

walls of the Stomach, and then flows abundantly into its cavity.

The Gastric juice which has been obtained by different Physiologists for experiment, consists when first poured out of a clear, colorless and acid fluid, it soon becomes turbid with the debris of food begun to be disintegrated. The acidity of the gastric juice is due to Lactic acid which is essential to its physiological properties, for it ceases to exert its solvent action on food after it has been neutralized by an alkaline carbonate - an important fact to be borne in mind I should think in the administration of Alkaline

medicines. The most important ingredient of the Gastric juice is its organic matter known under the name of Pepsine, this substance will exert its solvent power on various alimentary substances, such as meat, boiled white of Egg &c, outside the body at a temperature of 100°F . It affects only the Albuminoid nitrogenized substances, neither Starch nor oil are affected by it. In Cheese the Casein is dissolved, in bread the gluten is digested and the starch left unchanged.

The total amount of Gastric juice secreted daily has been estimated at $14\frac{6}{7}\text{ (a.v.)}$ this quantity would seem

to be incredible were it not for the fact that as soon as it has dissolved its quota of food it is again re-absorbed and enters the circulation together with the albuminoid substances which it holds in solution, it does not accumulate in the stomach in a very large quantity during digestion, but it is gradually secreted as long as any food remains undigested; each portion as dissolved is disposed of by reabsorption. There is then during digestion a constant circulation of the digestive fluids from bloodvessels to the alimentary canal and from the alimentary canal back to the bloodvessels. An important action

that takes place in the Stomach is the Peristaltic action of that organ it is accomplished by the alternate contraction and relaxation of the longitudinal and circular fibres of the muscular coat. It is carried on in such a way that the food is carried in a circuit around the Stomach as long as any of it remains there; by this action each particle of food is brought into contact with and acted upon by the Gastric juice.

From the Stomach those portions of food which have not already undergone digestion pass into the third division of the alimentary

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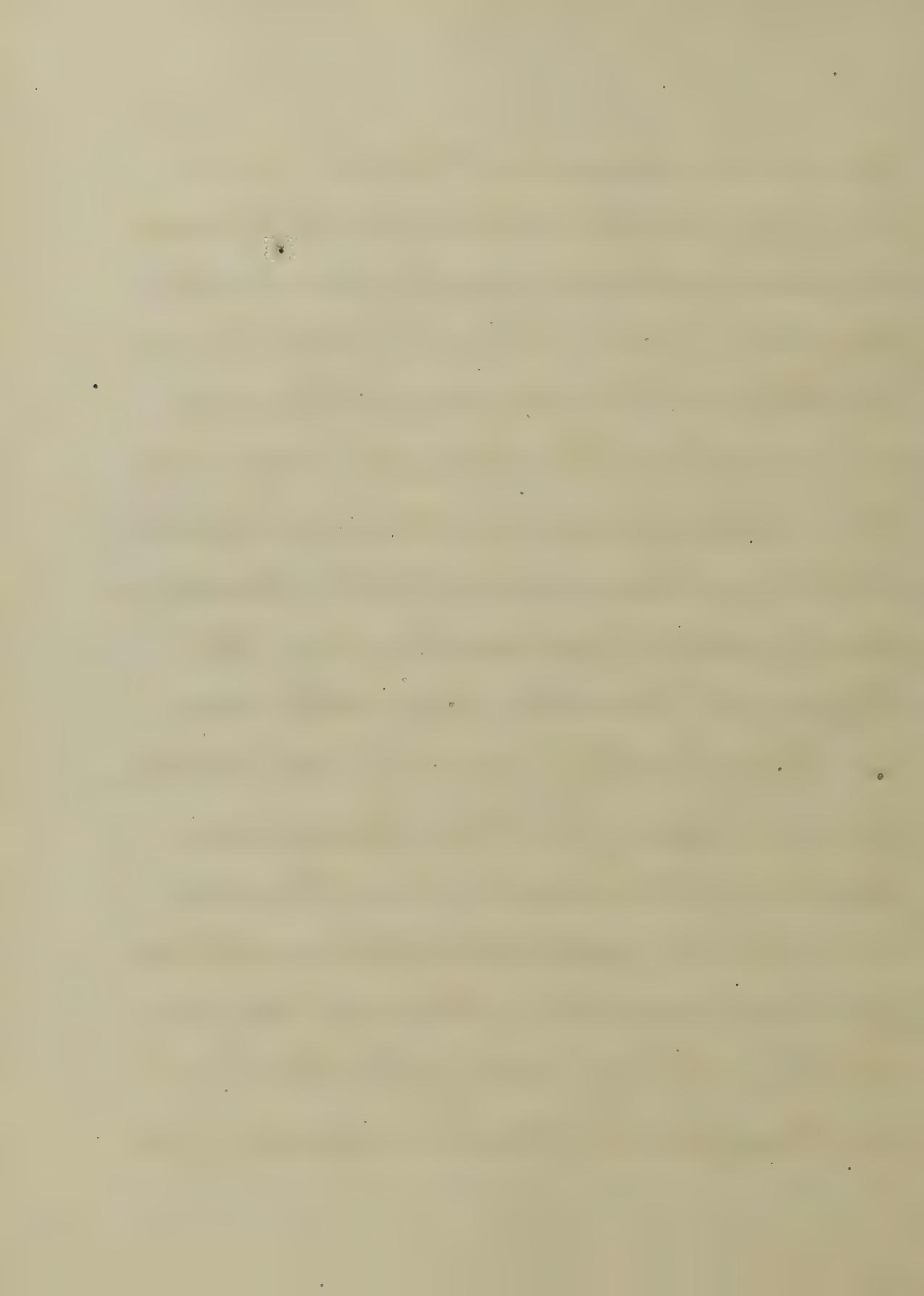
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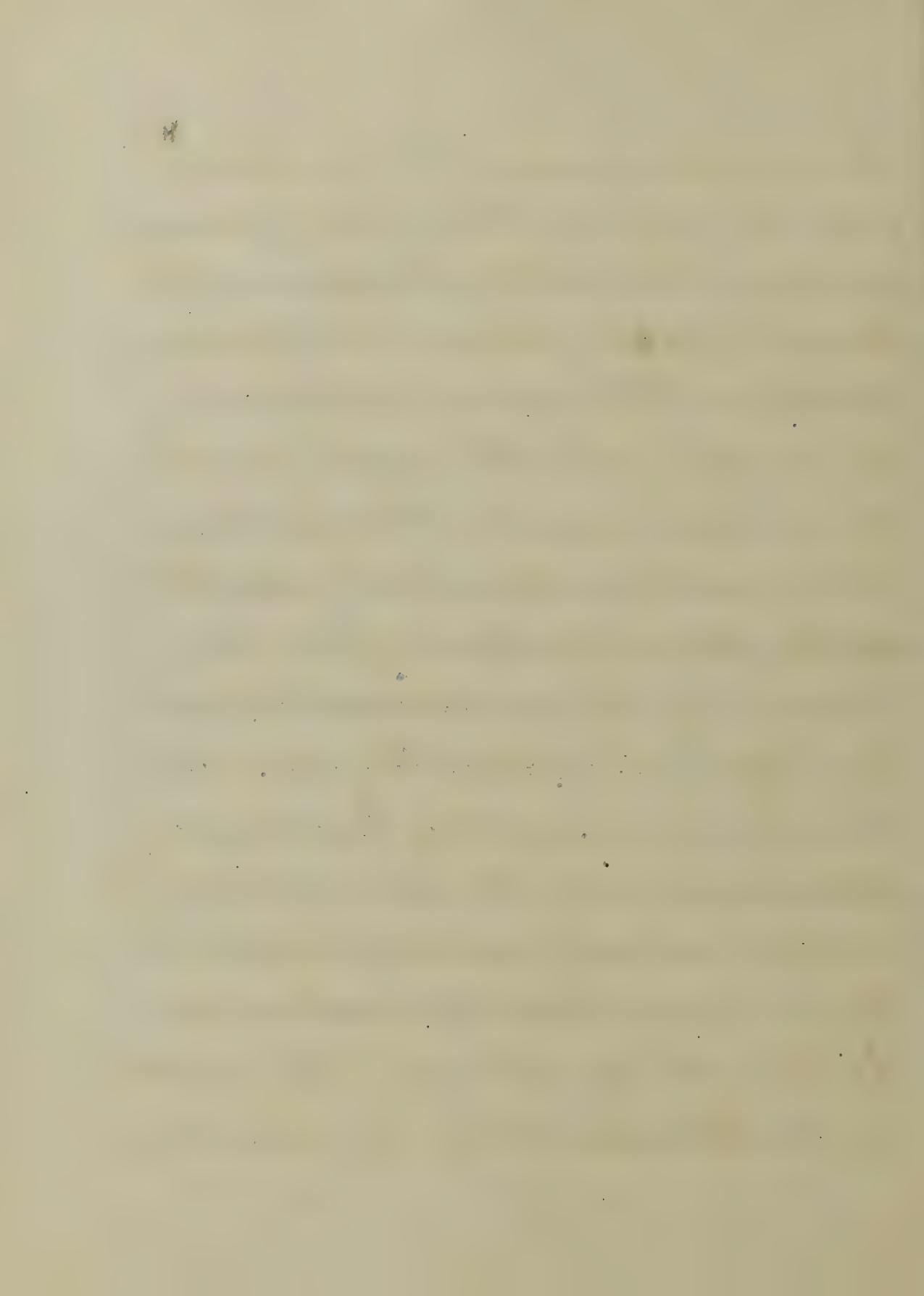
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canal the Small Intestine.

It is only albuminoïd substances that are acted upon by the Gastric juice and it is here in the small intestine that the second class of proximate principles, the organic non-nitrogenized, undergo digestion. The juices poured into the Duodenum are generally a mixture of three different secretions viz. the Bile, the Pancreatic juice, and the intestinal juice proper. The true intestinal juice is the product of two sets of glands, seated in the substance of the mucous membrane, the glands of Brunner and the follicles of Lieberkuhn, the last mentioned are



the most numerous, they are found
in great numbers throughout the small
and large intestines and are nearly
straight tubules lined with cylindrical
Epithelium. The glands of Brunner
are confined to the upper part of
the Duodenum, in the deep part
of the mucous membrane, extending
down a short distance from the
Pylorus; they are composed of a great
number of small excretory ducts clus-
tered round a central duct: each
follicle is a delicate membranous
wall lined with glandular Epithe-
lium and covered with small nuclei
Experiments do not show the secretion
of these glands to be very plentiful



it is colorless and viscid in appearance and has a distinct alkaline reaction. It is in the Duodenum that the oily matters taken in as food are digested, they are not affected by the gastric juice but remain unchanged in their essential properties, being merely melted by the warmth of the stomach and set free by a solution of the membranes that contain them. Soon after their entrance into the Duodenum they lose their oily appearance and become converted into a white milky emulsion termed "Chyle" which is gradually absorbed by the Lacteals and capillary blood vessels that penetrate the villi. It is

only after the passage of the oily ingredients past the orifices of the Pancreatic and Biliary ducts that their conversion ^{into} chyle takes place, showing conclusively that it is the secretions poured out by these ducts that exert their digestive action upon the fatty matters. Experiment has shown that the Pancreatic juice is the effective agent in producing this change.

The Bile is not supposed to take any direct part in the digestive process. It has been seen that the digestion of all the different articles of food is provided for by the other intestinal juices, yet the bile is absolutely essential to digestion, being performed in

a normal manner and has some important function to perform in the intestinal canal. It has been shown by experiments performed upon the lower animals that when the bile is cut off and not allowed to flow into the intestine, but is directed out of the natural channel thro' a fistulous opening that the victim of the experiment will become extremely emaciated, languish, and finally die, showing symptoms of poisoning of the nervous system similar to those which follow suppression of urine or stoppage of Respiration.

The Bile is a constant and uninter-

-rupted secretion, its function seems most probably to be the power it has of facilitating the absorption of digested alimentary substances particularly the emulsified fats. The amount secreted daily is estimated at $2\frac{1}{2}$ lbs.

Throughout the small intestines the secretions are intended mainly to act upon the food and prepare it for absorption, but below the Ileo-cecal valve and throughout the large intestine the contents of the alimentary canal are of a different appearance and are distinct in color consistency and odor. The contents of the large intestine are

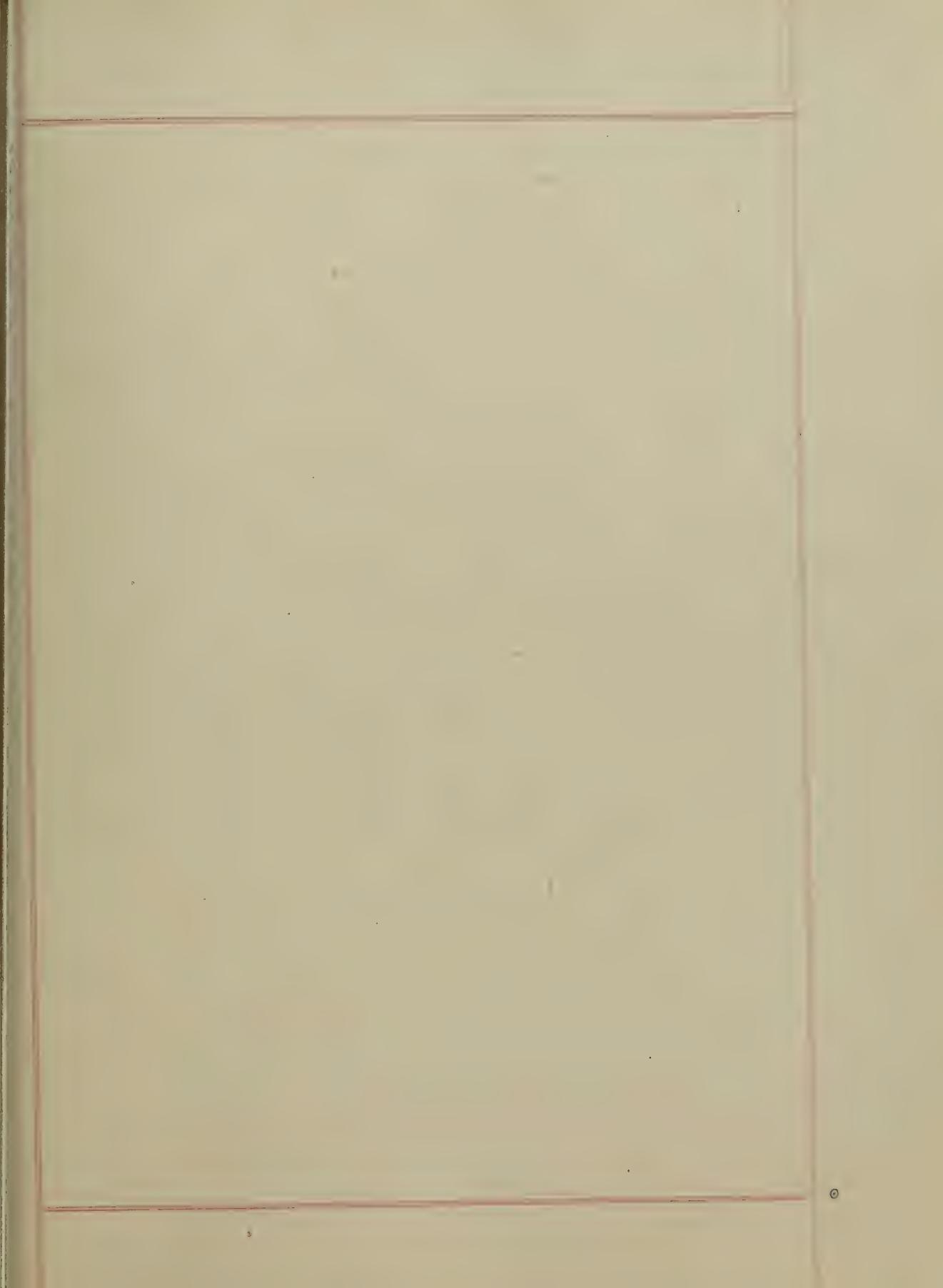
not entirely the remains of undigested food, but consist in large part of animal substances discharged into the intestine by excretion.

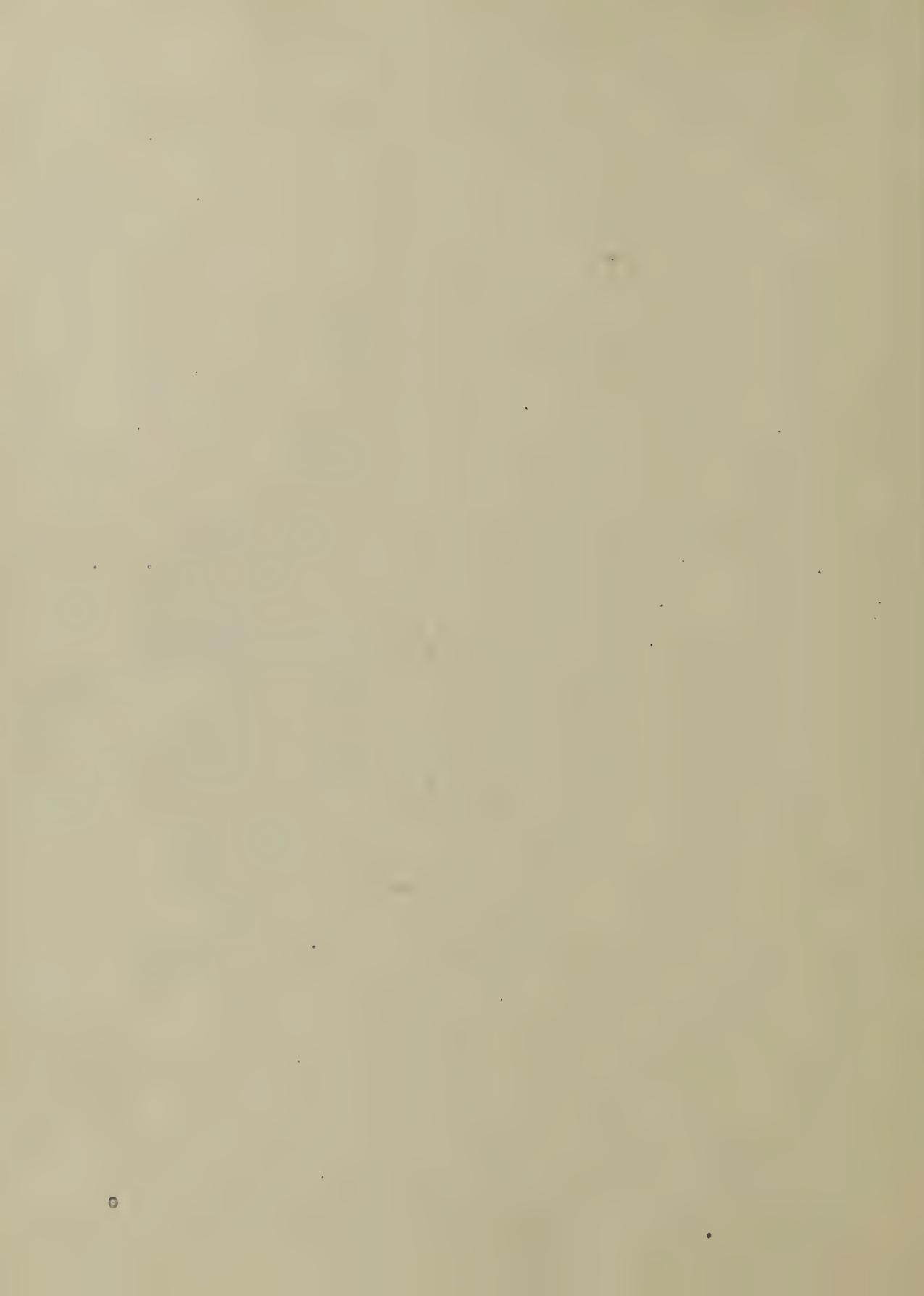
Those which have been most fully investigated are Excretine and Stercorine, besides these substances a certain amount of fat, fatty acids and remnants of undigested food are found. But little absorption takes place in the large intestine: its office is chiefly confined to the separation and discharge of certain excrementitious substances.

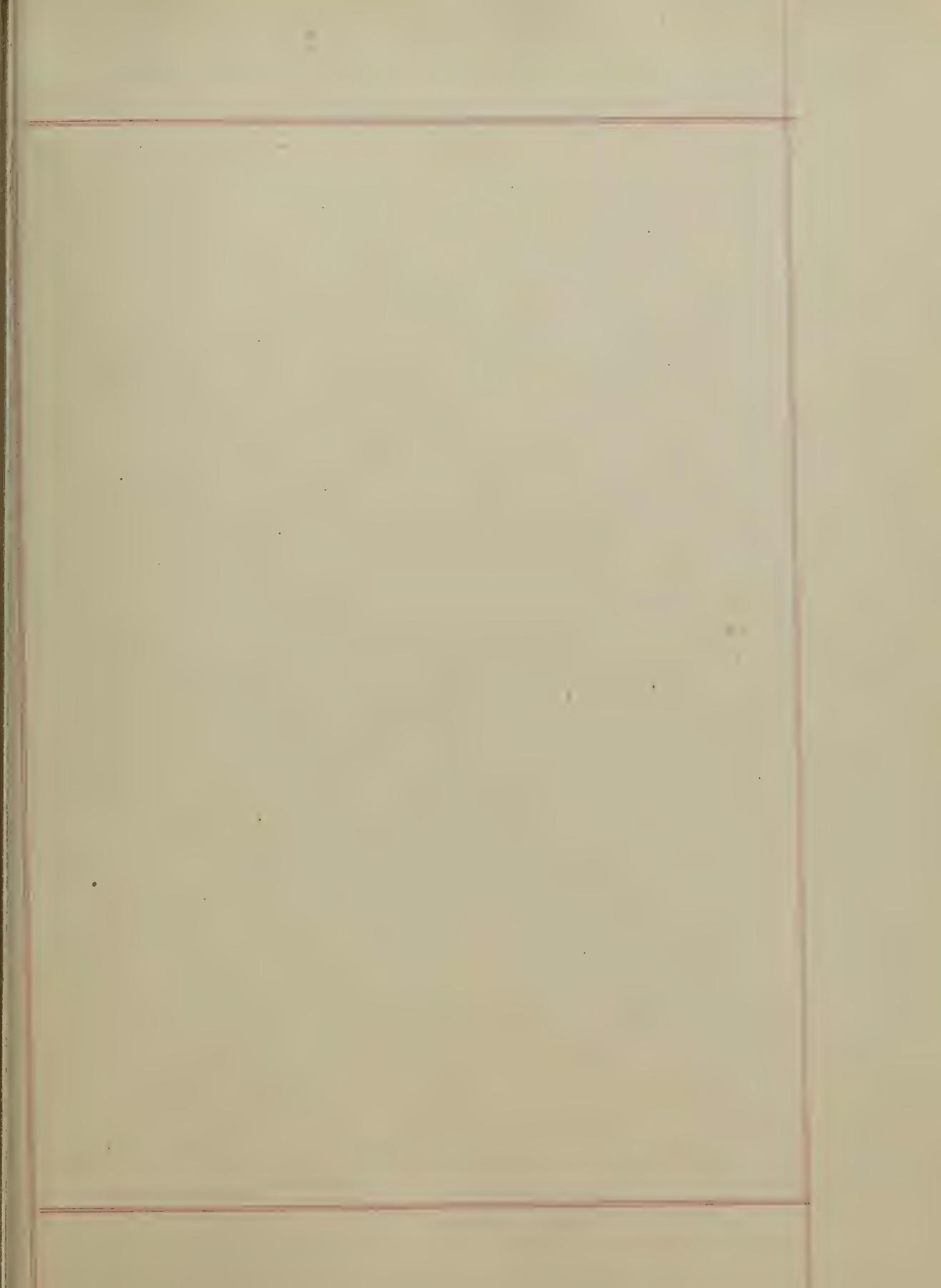
It is seen ^{then} that the digestion of food is a compound process which goes on successively in different

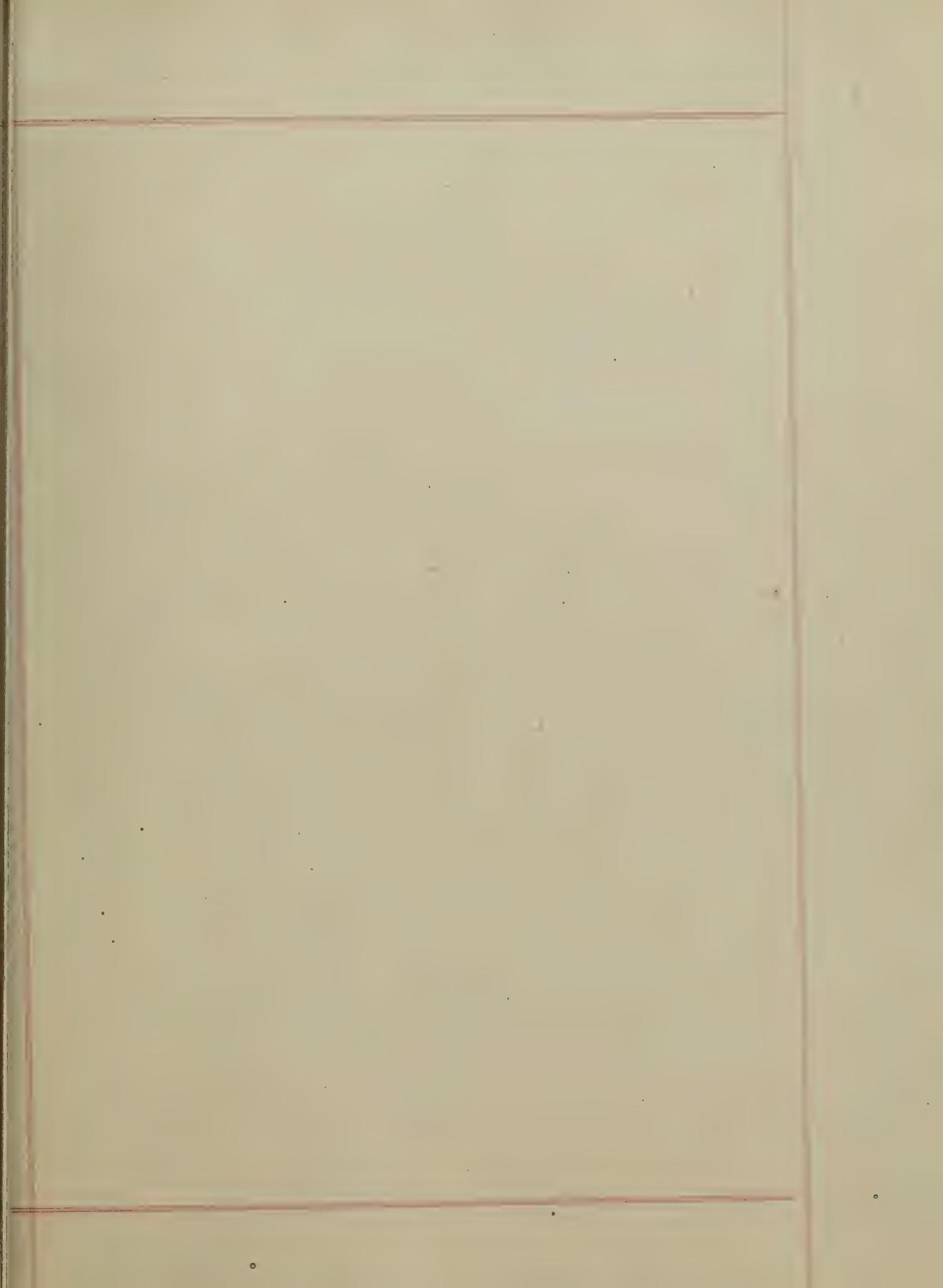
portions of the alimentary canal.
In the Mouth the food is subjected
to the operations of mastication
and insalivation, reduced to a
pulp and mixed abundantly with
the Saliva. In the Stomach by
its presence it excites the secretion
of the Gastric juice and undergoes
chemical transformation and solution.
In the small intestine the Pancreatic
and Duodenal juices convert the
starchy ingredients into sugar, and break
up the fatty matters into a fine emul-
sion by which they are converted
into Chyle and so absorbed.

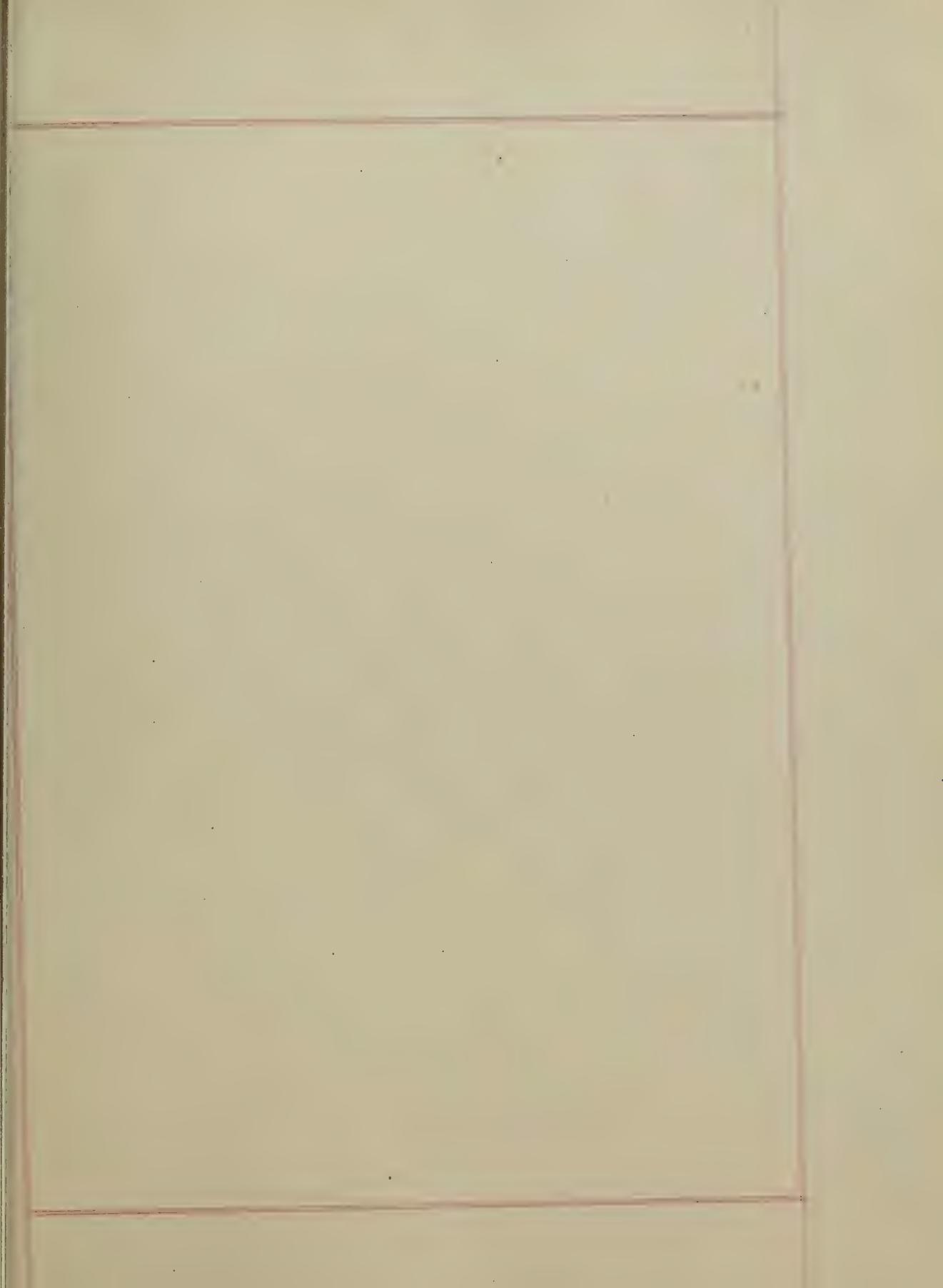
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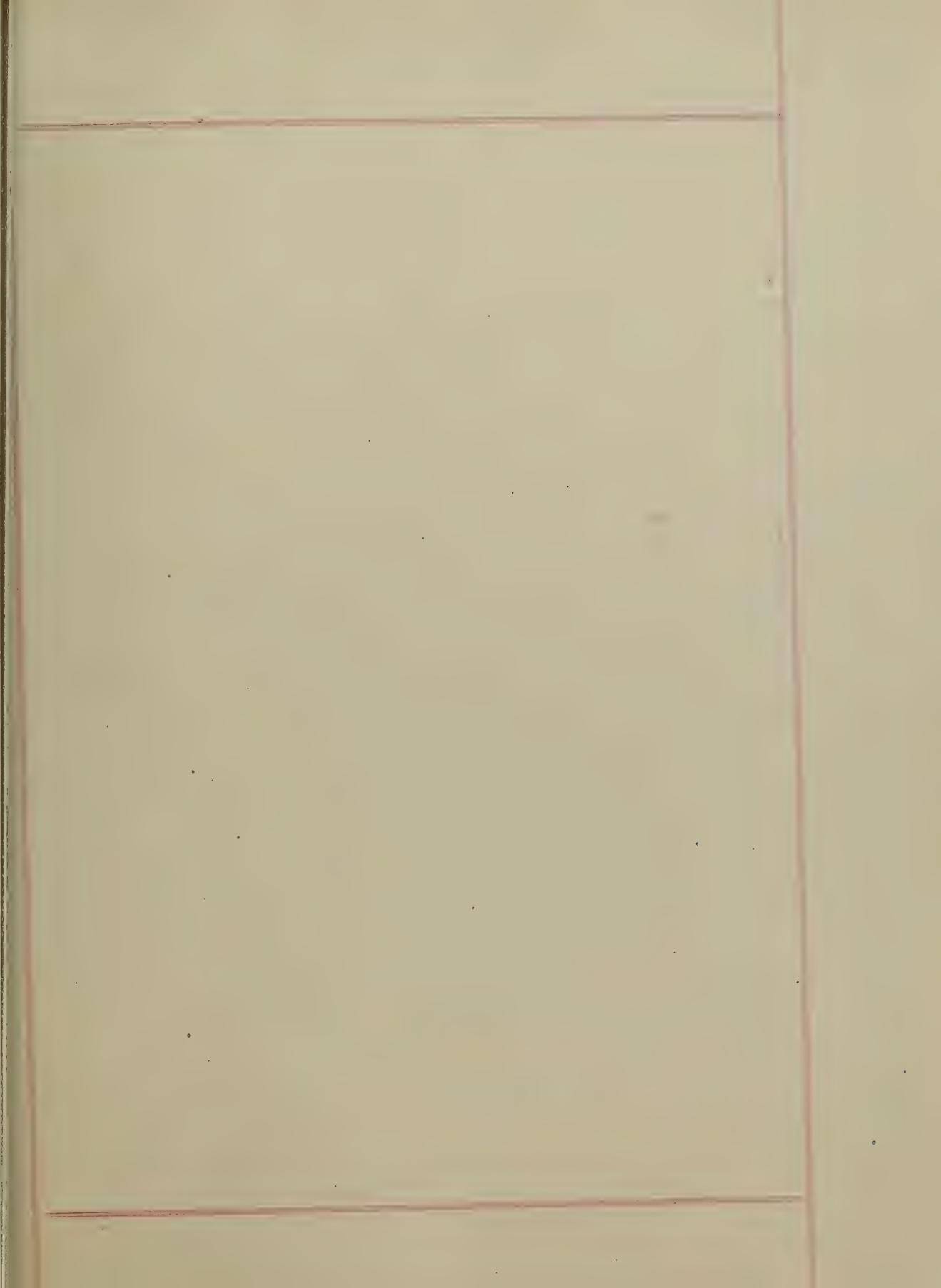


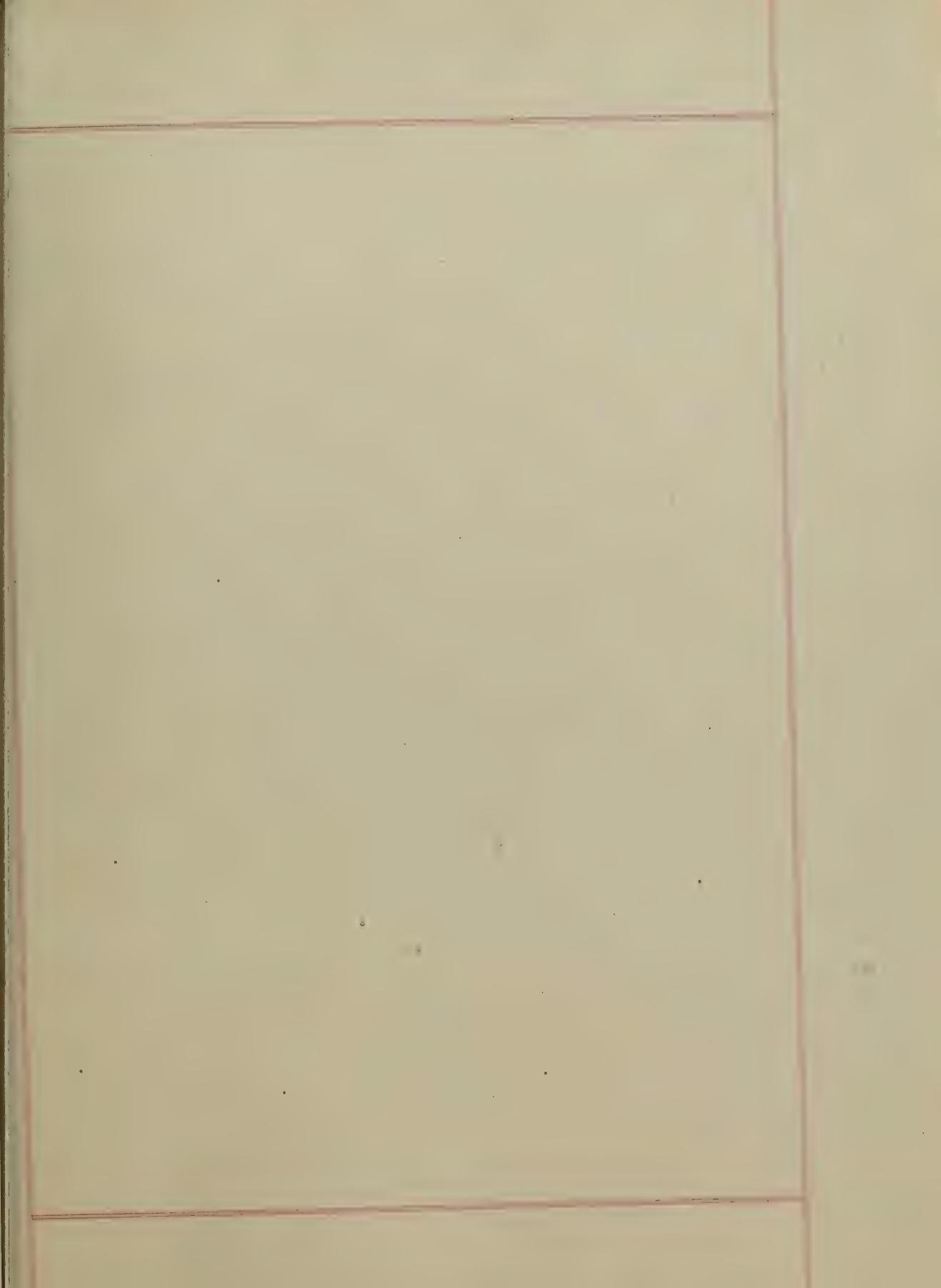


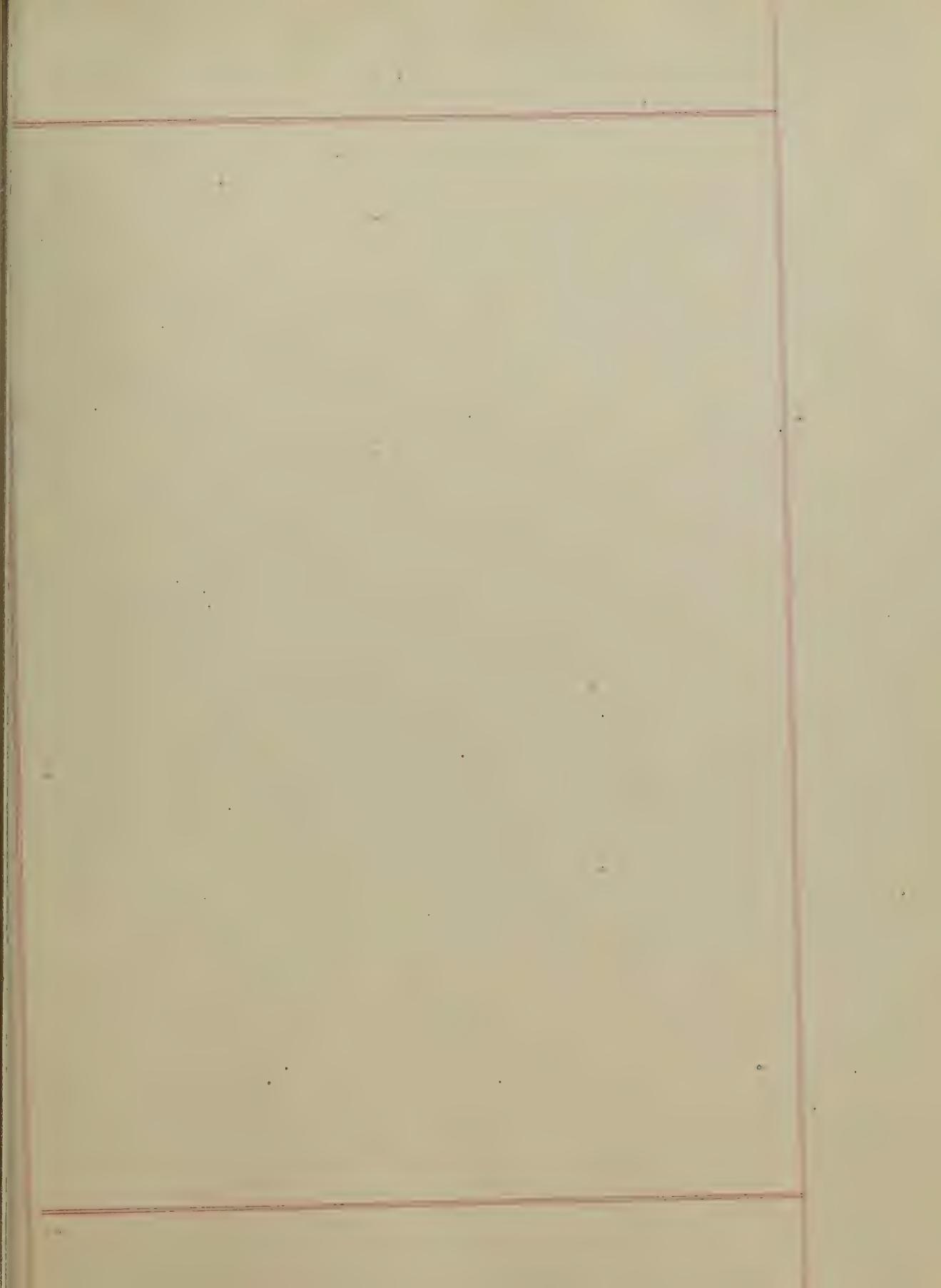


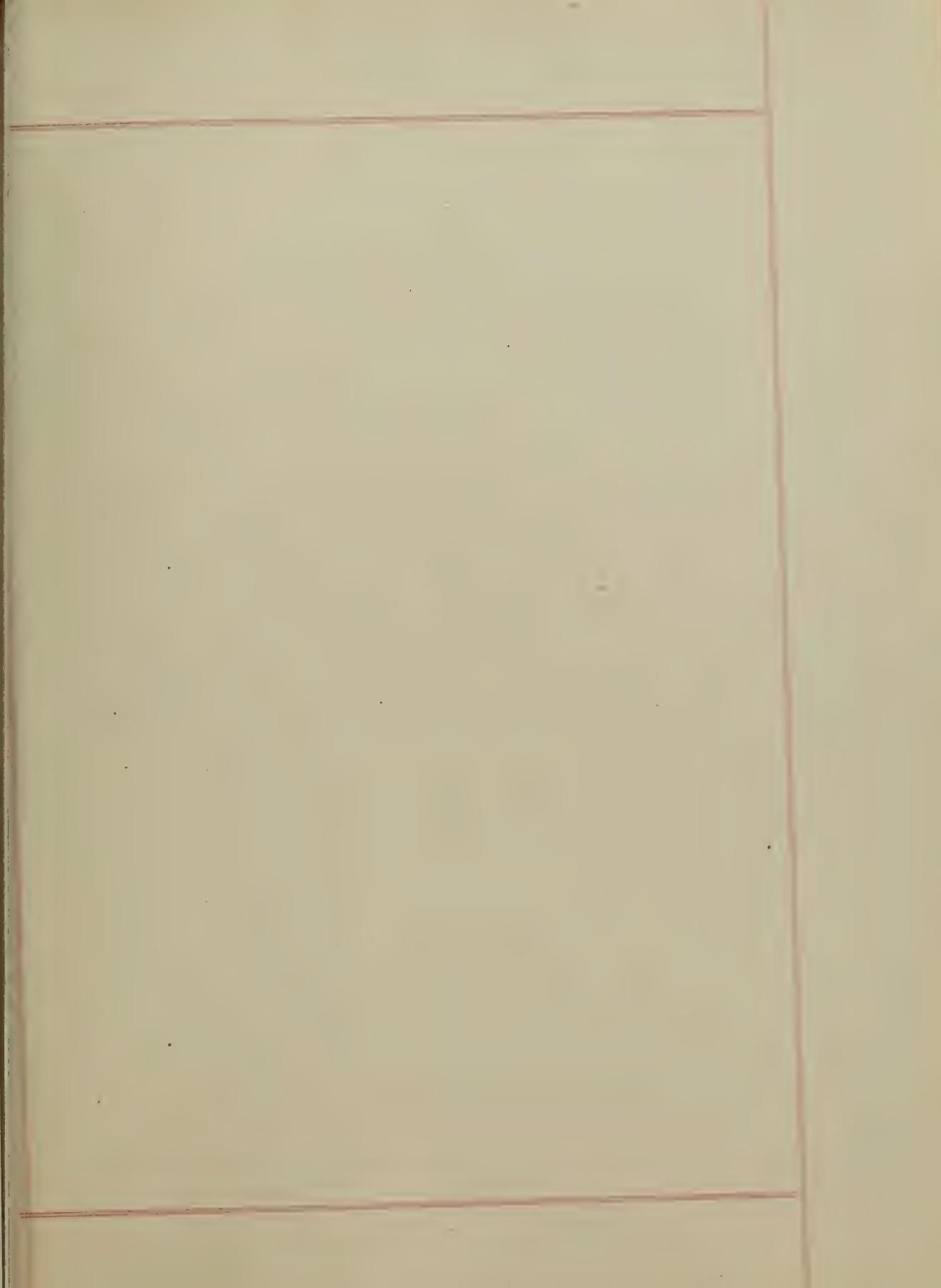


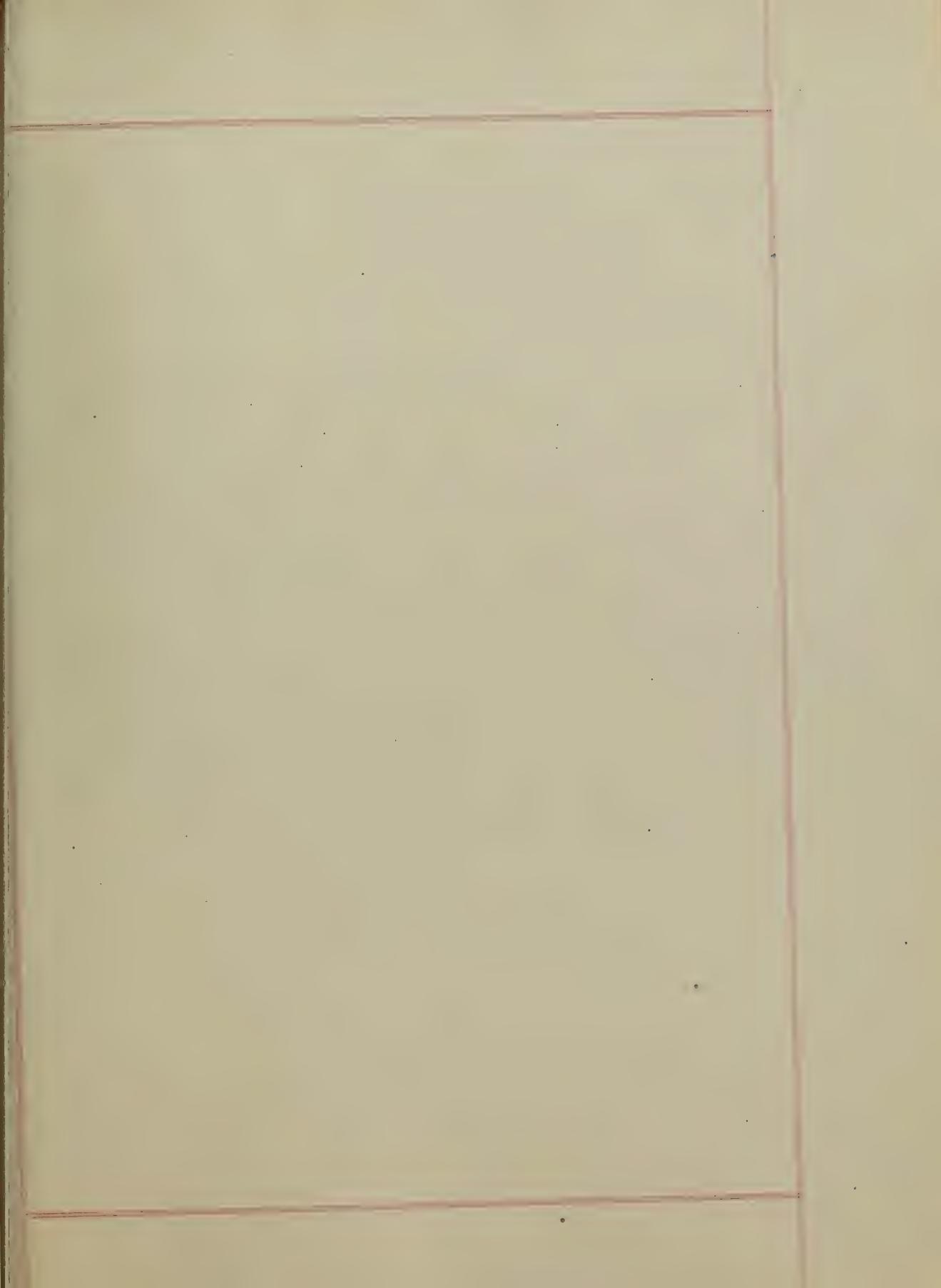


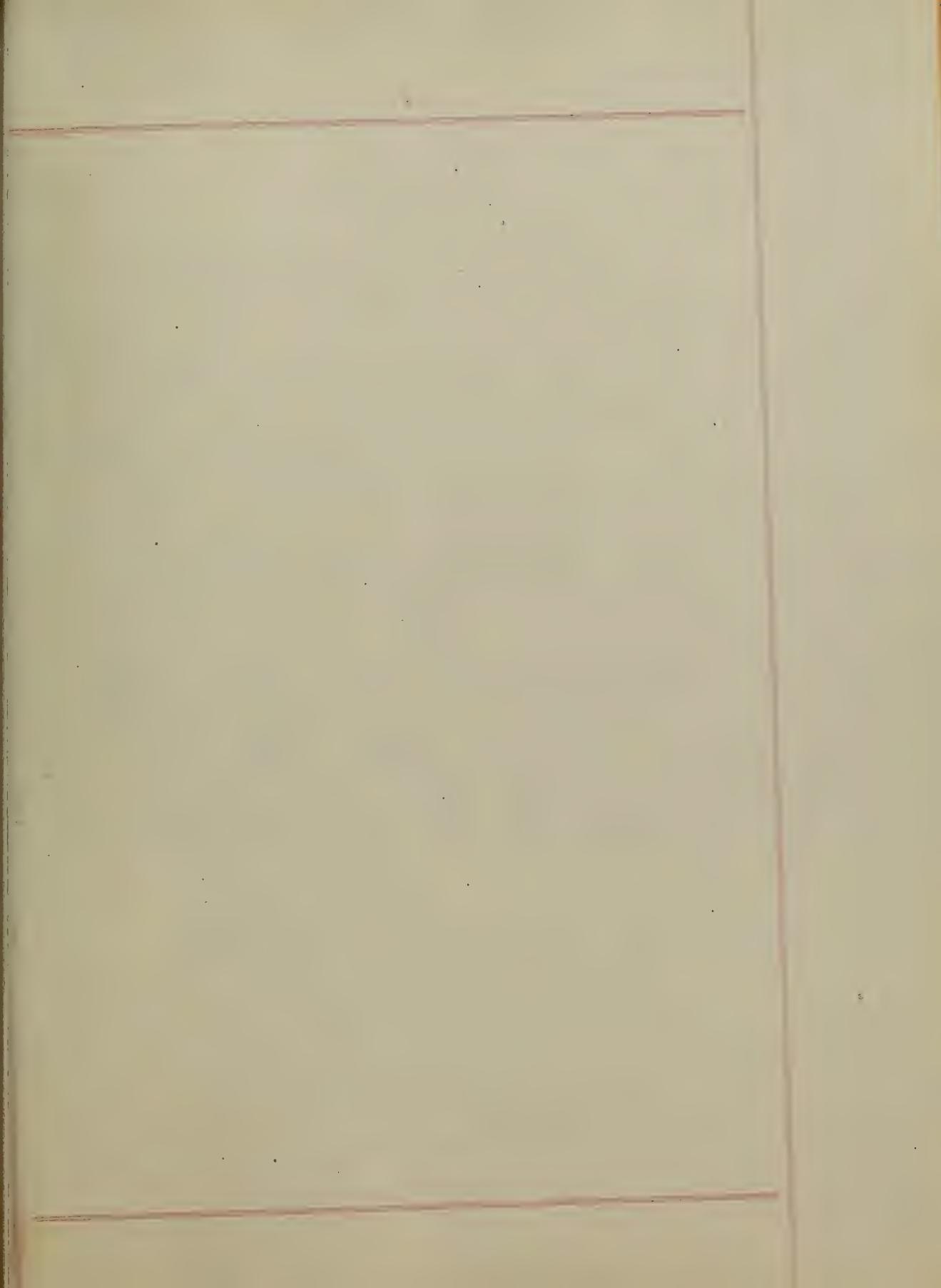












An
Inaugural Dissertation.
On
Spasmodic Laryngitis.
Submitted to the examination
of the Provost, Regents, and
Faculty of Physic
of the
University of Maryland.
For the Degree of
Doctor of Medicine.
By
Michael G. Salley
of
Orangeburg.
S.C.

Session 1871-72.

Spasmodic Laryngitis.

Generally known
as false croup.

Croup includes two distinct forms: Pseudomembranous or true croup, and Spasmodic catarrhal or false croup.

False croup is a simple inflammation of the mucous membrane of the larynx and trachea, connected with spasmodic contractions of the glottis.

It is a disease peculiar to childhood occurring most frequently between the third,

and fourth years of life -

It is rarely met with previous to the second year, and seldom seen after the fourth.

Symptoms. - False Croup may be preceded for a day or two, by slight cough and cold with more or less fever. But as often occurs, there are no premonitory symptoms, the attack coming on suddenly. False Croup, always comes on at night, generally near midnight. The child goes to bed with slight cold, or seemingly in perfect

Health - sleeps soundly and quietly till near midnight when it awakes with a loud hoarse cough connected with more or less dyspnoea.

If the attack be severe the face will be very much flushed, there will be high fever, a rapid pulse and great dyspnoea. The voice and cry are nearly extinguished during the paroxysms but perfectly audible during the intermissions.

If this severe form last for any length of time

the face which was at first flushed becomes pale and denotes alarm. The child cries and is very restless - wants to be held by its mother or nurse. Under proper treatment all these alarming symptoms soon pass off. and the child goes to sleep. There may be an occasional cough during the rest of the night and the following morning. there is often a simple laryngitis connected with this occasional cough following an attack of Croup.

The child is apt to be attacked on the following night and often for several nights in succession

The tonsils and soft palate are generally congested in severe cases. The cough is hoarse and loose, but children under six years of age seldom expectorate. - the sputum being swallowed as it is coughed up.

Croup is often complicated with or gives rise to other diseases. Pneumonia and Bronchitis are frequent complications and it often ushered in an

attack of measles.

Causes. Croup attacks the children of some families more than others, thus showing an hereditary predisposition. It always appears in sporadic form: generally ⁱⁿ Spring and fall, on account of the changeableness of the atmosphere. Exposure to cold and damp. Getting uncovered at night, or sleeping in a draught of air, or in a room which has been kept heated till the child goes to bed, and is then allowed to get

cold. These are among the most appreiable causes.

Diagnosis - The diagnosis of false croak is generally easy. But sometimes it is hard to distinguish from true croak. The essential points of difference are, the absence of false membrane in false croak - the distinctness of voice, the suddenness of the attack and its short duration, in false croak - while in true croak the voice is entirely lost. The attack comes on slowly and steadily - for

days sometimes. - The fibrinous exudation gradually invades the vocal ^{cords} and surroundings.

The disease creeps on so slowly, as not to attract the attention of the mother, till perhaps there is complete suppression of voice. The paroxysms in true croup are much longer.

Laryngismus Stridulus, differs from false croup, by its internal convulsive movements, by the absence of cough and catarrhal symptoms, by its chronic form, and by its occurring

in the day as well as at night.

Prognosis. False Croup seldom, or never, proves fatal of its self, though it often gives rise to fatal diseases - such as bronchitis and pneumonia. However the practitioner should never be too positive in making his prognosis.

Treatment. Emetics are the chief remedies. They should be given as soon as attack comes on. In mild cases ipecac or alum, or the two combined. ^R Syrup ipecac.

ʒj to ʒij - finely powdered alum
ʒj may be given in teaspoon
full doses and repeated in
fifteen or twenty minutes
till free vomiting is induced;

The yellow Sulphate of Mercury,
given in doses of from two
to three grains, is a very sure
Emetic, and causes very
little depression.

In severe forms or in
strong healthy children -
Antimony combined with
other remedies may be given.

R Tartar Emetic gr j } 2 drs
Pulv Specac ʒij } 5 at a time full
Syrup Squills ʒij } Drone-nata

A hot bath may be resorted to with great benefit if the above remedies fail to give relief.

The bath should be about 100°. The child should remain in the bath for fifteen or twenty minutes. A blanket, previously warmed, should be wrapped around the child as soon as it is taken out of the bath so as not to allow it to get chilled. After the child is sent to bed an opiate may be given.

Inhalations of vapor of hot water lime water Sulph

Ether or Chloroform are often
very beneficial.

Warm fomentations, or turpi-
tin strips applied to upper part
of sternum and ~~throat~~ or
a cloth wet in cold water and
covered by oil sieks, will
sometimes give great relief.

In robust healthy children
three or four years old,
where there is great dyspnoea
high fever, flushed face,
and rapid pulse; blood-
letting may be resorted to.
In such cases the loss
of a few ounces of blood

seldom fails to give immediate relief.

Purgatives are only necessary when the bowels are constipated. Rochelle salt, Castor oil, or a small dose of Calomel should be given, as soon as the nauseating effects of the Enteric Lava passed off.

Syrup of ipecac, and Pine syrup should be given in small doses to relieve the simple laryngitis, which generally follows croup.

When a child is subject

to attacks of Croup - productive measures should be resorted to - such as warm clothing - exercise in fresh air. Bathing in cold water in the morning.

The sleeping apartment should be kept dry and well ventilated. When practicable no fire should be allowed in ^{the} sleeping apartment.

Delicate children should have tonics such as Cod Liver oil. Sulph Lumine - Iron - Old French Brandy &c -

AN
Inaugural Dissertation

ON

Fever (Idiopathic)

Submitted to the Examination

OF THE

Provost, Regents and Faculty

OF

PHYSIC,

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

DOCTOR OF MEDICINE,

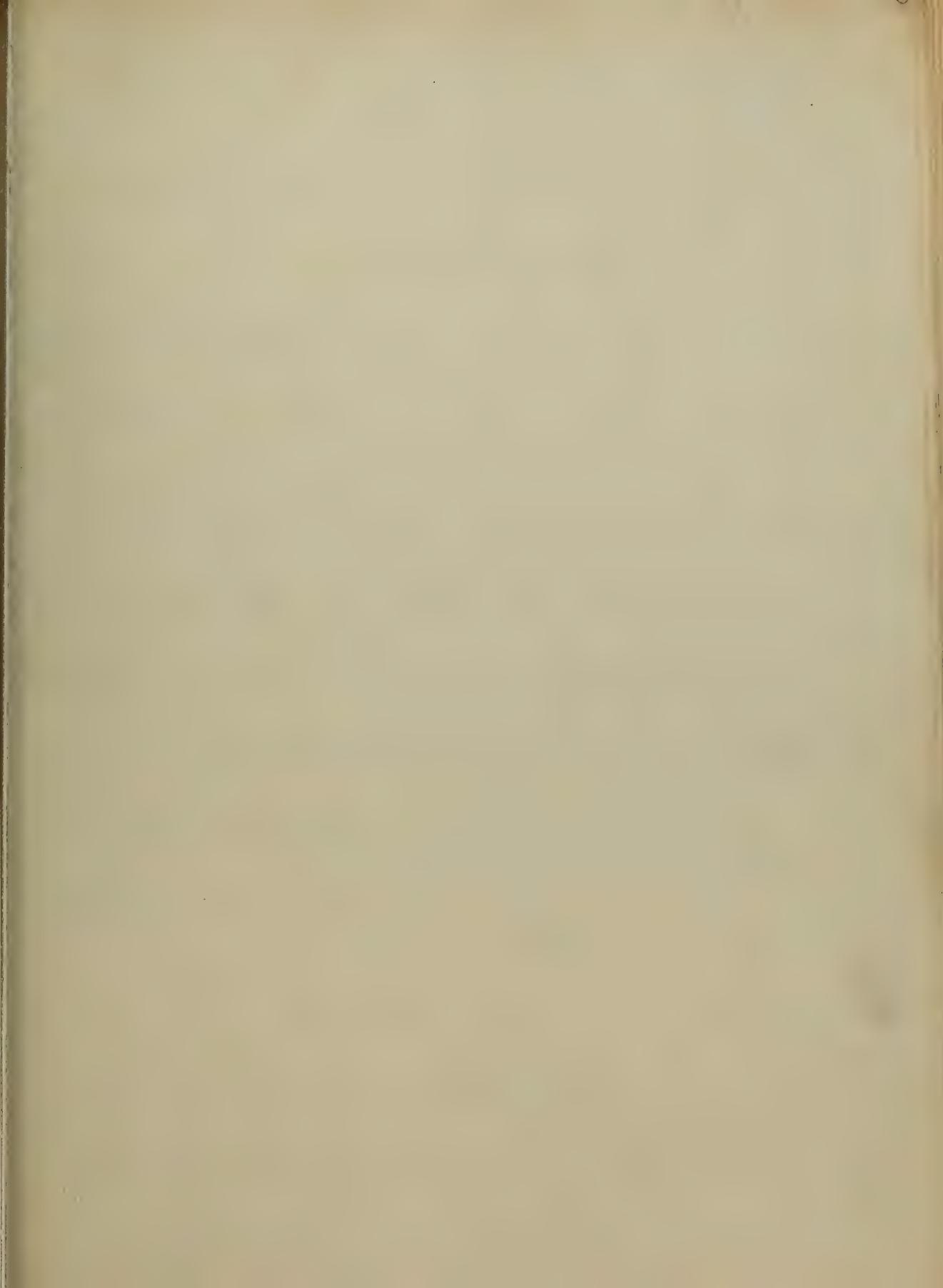
By

W. F. A. Kemp

of

Baltimore, Maryland

Session of 1871 and 1872.

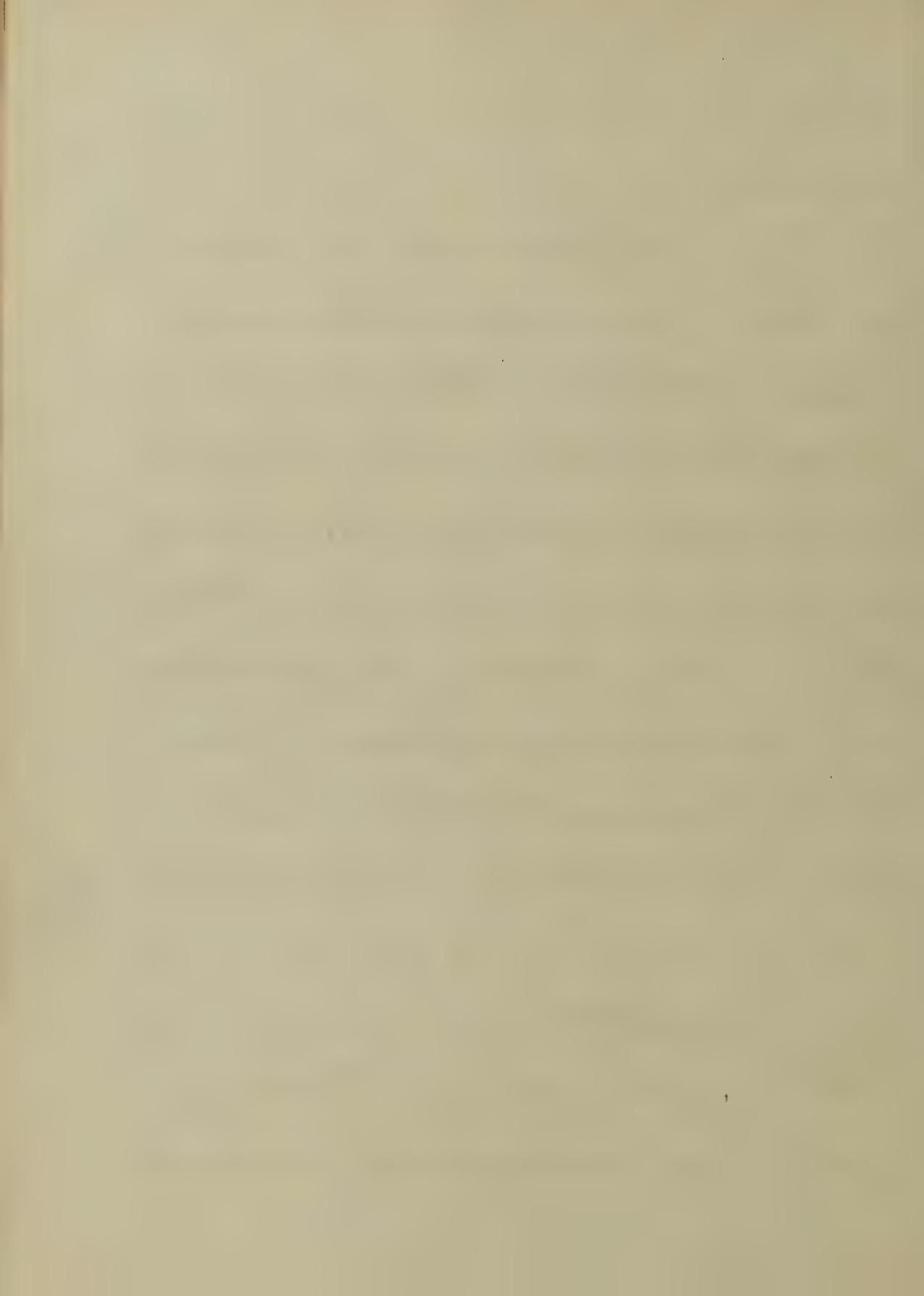


Gentlemen.

In presenting this Thesis
on Fever, to your consideration, for the
degree of Doctor of Medicine, it is ne-
cessary that I should state, that there is
no new theory or line of duty inculcated,
for should such a task be undertaken,
I am at once reminded of the Max-
im - "Ne sutor altra Crepidam" and
confine myself to the old and
worn ideas of the day, as best I can.

FEVER.

The most insidious of the diseases
to which man is subject, are classed among



the Fevers, and because of their similarity at times, they are the more interesting to the Practitioner and Pathologist.

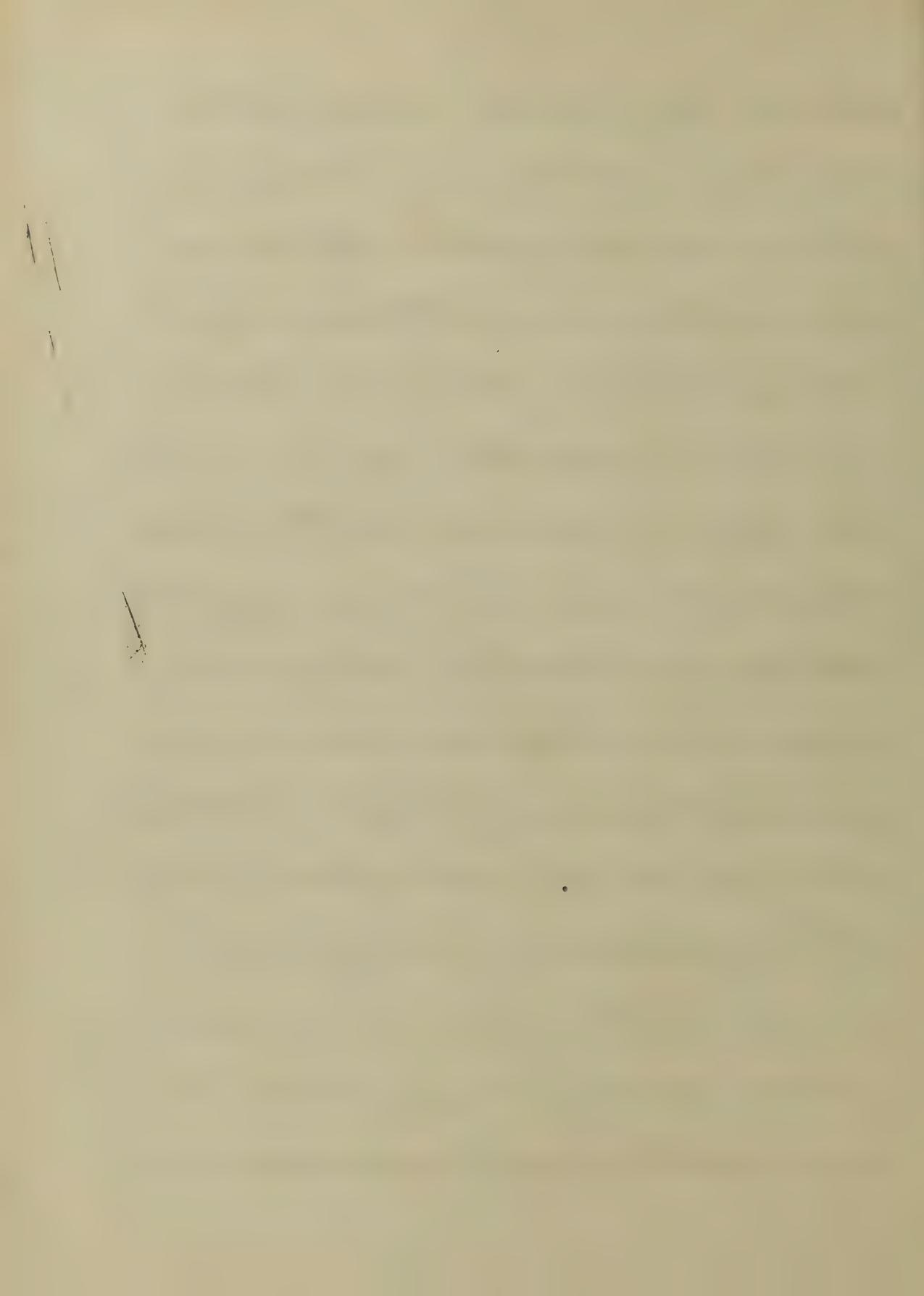
Fever is recognized by various signs and symptoms, "Painful lassitude, with debility of the corporal and mental faculties, alteration of the animal heat and of the secreting functions, accelerated circulation, increased thirst, and abolition of the appetite"; in fact no disease is without its peculiar febrile movement, hence we have the various forms of Symptomatic and Idiopathic Fever.

What is Fever? "A complex morbid state accompanying diseases, as part of their phenomena, and modified

by the specific disease which it accompanies".

Of the symptomatic Fevers, we have examples in the inflammations of the organs of the body, and fever accompanies them as the result of such inflammatory action. Of the Idiopathic Fevers, we have evidence in and of themselves, unconnected with any special inflammatory action as their cause: these Fevers are recognized by signs and symptoms characteristic of them as a class - "Idiopathic Fever present, during its whole progress, characteristic symptoms, not consisting merely of increased frequency of circulation and augmented heat, which are some-

times wanting in certain stages of the disease, but of other morbid phenomena that are equally important, that vary in degree and in modes of association with one another, and that superinduce other phenomena, thereby giving rise to the different forms and states in which the disease occurs; it commences with drowsiness and lassitude, which are followed by chills and rigours; it is generally composed of several invasions or exacerbations; it implicates the whole vital endowments and faculties, the fluids, and the entire organization; it is acute and dangerous in its course, with lesion of the circulation, with



alteration of the animal heat and of the secretions, and with diminution of vital power; and it is versatile as to its symptoms and type, with efforts at sudden changes or crises" — (Copland's Dictionary)

Diagnosis.

In the diagnosis of fever, we have many ways and modes of procedure, to determine with what fever we have to deal, we must discriminate between the Symptomatic and Idiopathic, and we must determine whether or not it is associated with other affections. Fever may be conformed with Inflammation, — with active organic functions, as with certain uterine disorders, —

with certain affections of the nerve-centres, as Phrenitis, Centro-Spinal and other affections, and with numerous others, all of which we should be able to recognize and isolate.

We have as aids in diagnosis the Thermometer: the examination of the urine: the Respiratory function: the Bloods condition: the workings of the nervous system. The Thermometer by registering the animal temperature, informs us how far above or below Nature's natural standard the animal heat has gone: By a rapid elevation or fall we are forewarned as to what may be expected.

By its aid, at times to name the affection.

The Urine by its alteration; either by its augmentation or diminution in quality or quantity and by its containing its natural constituents, in due or altered proportion.

The Respiratory function, in a vast number of ways. By its we judge of the condition of the internal organs, and of the constitutional forces as regards their power of reaction, and by its odor and quantity.

The Blood by the degree of its alkalinity; by the diminution of the red corpuscles, by its depravity we are cautioned frequently, as to the mode of Medication.

The Nervous System, by its workings gives us indeed valuable aid, as in health the functions of this great system give energy and controls the actions of the organism, how necessary then to observe its actions in disease. We have the greatest variety of conditions - Coma, - Coma-Vigil, - Eclampsia, and a host of other signs, all furnished by this great system.

These aids we have to diagnose fever, and by them we are informed of all the essential differences of the diseased and healthy state.

To account for the exaltation of the animal temperature, we have

various views 1^o By excessive tissue-metamorphosis.- (Virchow) 2^o By effect on ganglionic nerve centers, caused 1^o By Corpuscular toxæmia or 2^o By plastic toxæmia. (addison) 3^o By sympathetic irritation.- (Campbell & Müller). By a careful consideration of these three views, we think the conclusion has been arrived at, that the increased animal temperature is due to excessive tissue-metamorphosis, which change normally depends upon the nervous system, and this excessiv change demanding extra nerve force, sympathetically irritates, or if you will, excites the nervous centers.

To consider the causation of

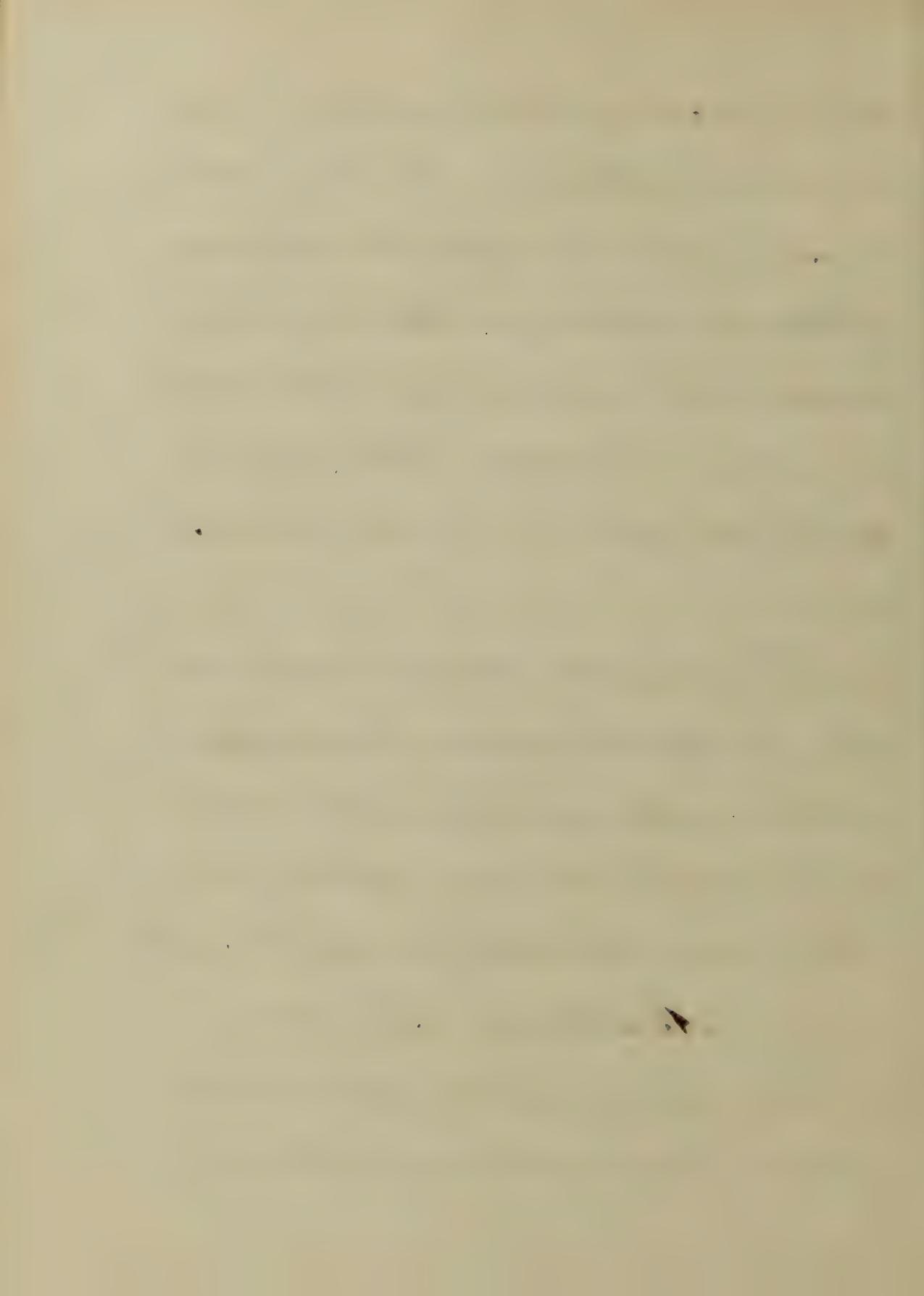
Fever is exceedingly interesting and also exceedingly intricate. We have various views and opinions upon the subject.

To mention a few would not only be useless, but would necessitate much more time and labour than could be profitably spent on such a discussion.

We will not consider a few of the Idiopathic Fevers: First we speak of the fever, then of Prognosis and then of Treatment, taking but little if any notice of Pathological characters.

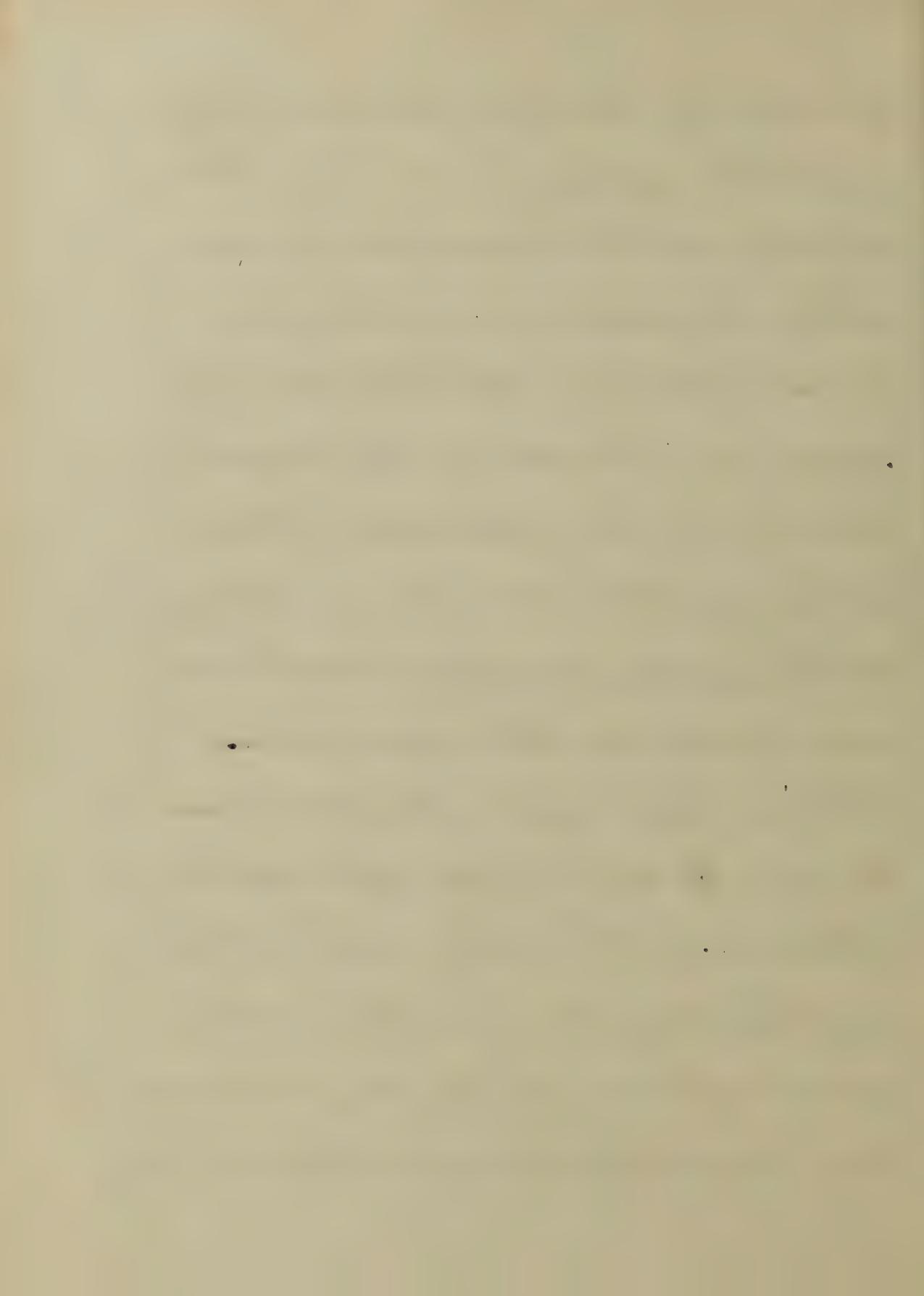
. Malarial Fever.

Malarial disease is supposed to be excited in a system by the sporules



of a mineral vegetable organism, belonging -
ing to the Cryptogamic genus. Dr.
Salisbury of Ohio asserts their origin
in the cells or spores emanating from
certain species of alloid plants, called
Palmella, which belong to the lowest
known vegetable organisms. To these
species of plants he applies the generic name
of Gemmasma, signifying earth mineral,
and he also calls them aque plants.

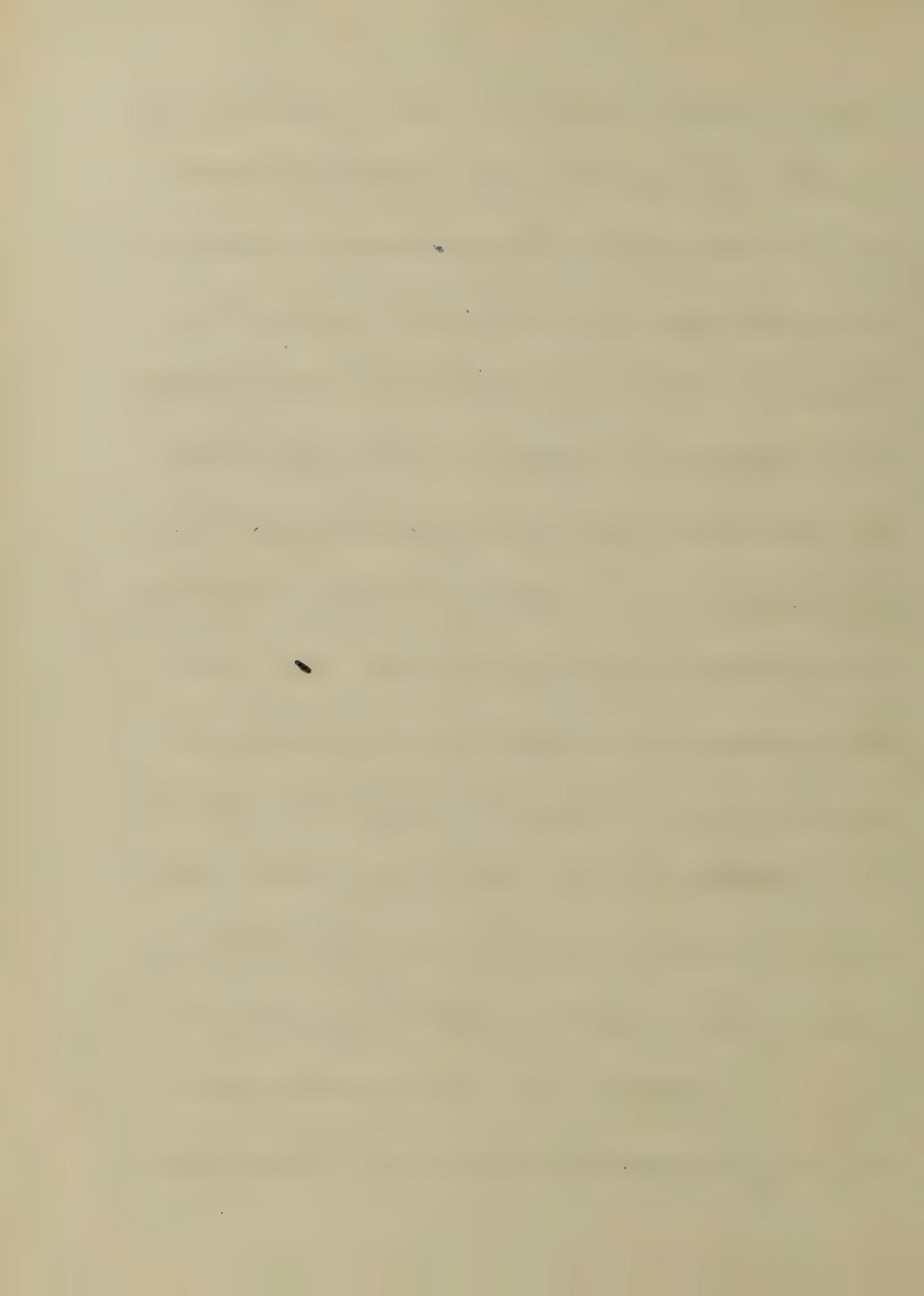
Others have accounted for their pro-
duction by certain atmospheric or other
changes. While the source of these
affections is still uncertain, we have
facts which are undeniable, and must
stand, no matter what our theory or theories



of production may be. Whether Cryptogamic or phanerogamic organisms be the cause of these fevers - styled - Malaria - Typhotic - or Periodical; we have observations of the greatest moment. "The following instructive facts are stated by Dr. Ferguson.

In 1815, the British garrison of English Harbour, in Antigua, was disposed in three separate barracks, on fortified hills surrounding the dock yard. One of the barracks was on an eminence named Monk's Hill, six hundred feet above the level of the Marshes. The other two were on an eminence called the Ridge, one at the height of five hundred, and the other at the height of three hundred feet. So pestiferous were the marshes-

among which the dock-yard was placed, that it often happened to a well-seasoned soldier, coming down from Mount's Hill, and mounting the night-guard in perfect health, to be seized with furious delirium while standing sentry, and to expire within less than thirty hours after being carried up to his barracks, with a yellow skin, and having had black vomiting. Those in the barracks on Mount's Hill, who did not come down, the superior officers, the women, children, and drummers, had no fever of any kind. Seventeen artillery-men, in the barracks at the height of three hundred feet, did not come down to the night-guards. Every one of these men



was attacked with remittent fever, of which one of them died. At the barracks on the top of the Ridge, at the height of five hundred feet, there scarcely occurred any fever worthy of notice" (Watson's Practical)

What are we to draw from these observations? The facility and rapidity of the exposure to induce certain affections.

Whatever the exciting cause of these Malaria diseases be, the mode of action is unknown, various views are entertained; some have supposed their action similar to an Opium, hence the appellation of Hypnotic. This class of fever is divided, by most Nosologists

into three varieties - Intermittent - Remittent and Prolonged. These are again divided into quotidian, tertian, quartan, and others.

Each may run, as it were, into the other - an Intermittent may become a Remittent and vice-versa, and either may tend toward the Prolonged, and more than this they may be double (i.e.) two types of the same form may be associated together. These fevers are characterized by three stages, 1° a hot, 2° a cold, 3° a sweating stage, in this form of fever the sercats are critical.

Febris Ictericoides.

We glance now at Yellow-Fever, for by some it is considered as a type or kind of Malarious affection. This fever is a dread to every man, for it seldom occurs except as an epidemic, and then it seems to defy all treatment and boldly and defiantly does it take its course.

This fever is supposed to be malarious by some, and by others *sui generis*. It has been divided differently by authors. Dr. Lyons has divided as follows - 1^o algic 2^o Ithemic 3^o Hemorrhagic or Purpuric and 4^o Typhous. This affection seldom attacks country places, but confines itself most generally to

cities. Prof McKerry states that while with the army in Mexico, the disease was rife in a city close by, while the army encamped about were uninfested.

This disease is characterized by a Yellow Skin and Black vomit.

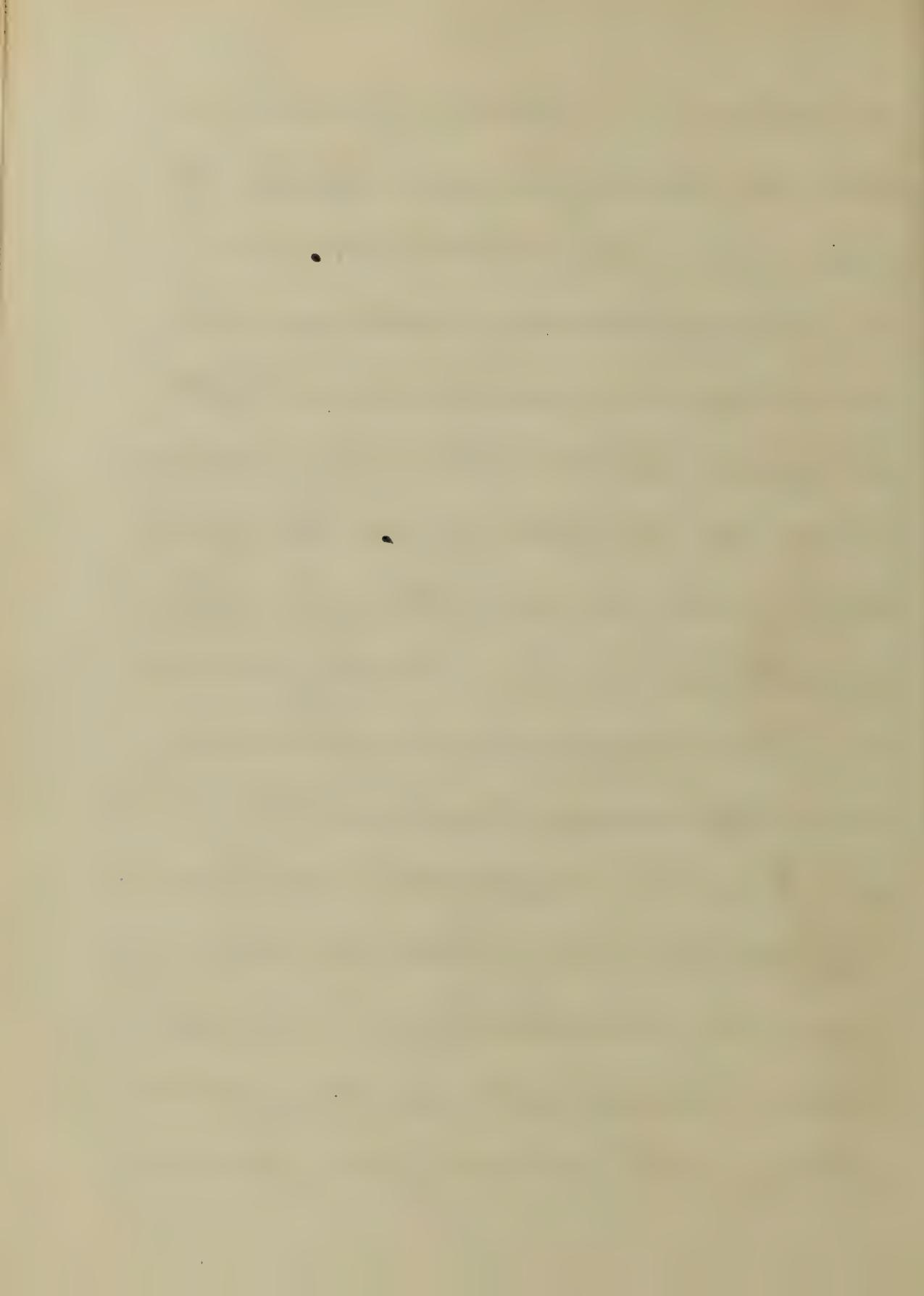
Typhus & Typhoid

We consider these fevers, under the same head, because of their similarity in most of their symptoms; indeed by some they are considered as only different manifestations of the same malady. To discuss the question of the identity, or non-identity, of these two fevers, would open an arena too vast to enter upon here, for one can find, on both sides, the ablest

authorities, and while the question is still sub-judice, it is not improper to glance, for awhile, at both sides.

Cases of Continued Fever are observed, which can neither be called Typhus nor Typhoid, and which have many symptoms associated with these fevers. The heat has been severe, and these fevers are called Typho. Cullen divided

Fever in his day, and so have others since, and for any variety of continued fever, we can find various appellations, we have Synochia Gravior and Mictio, we have Typhus Gravior and Mictio, also Ecteric, abdominal Typhus, Nervous fever, and many others, which have been intuded



as names for what we, in this Thesis, consider under the present head. We have Louis the leader, (in fact to him is attributed the praise of satisfactorily explaining the differences of the two diseases) of a class who hold to their non identity. Louis considered that Typhoid was a fever attacking (the young especially) those who had moved into Paris, from adjacent parts of country; it was always connected with alterations in the Peyerian patches, from a slight thickening to a marked and apparent ulceration.

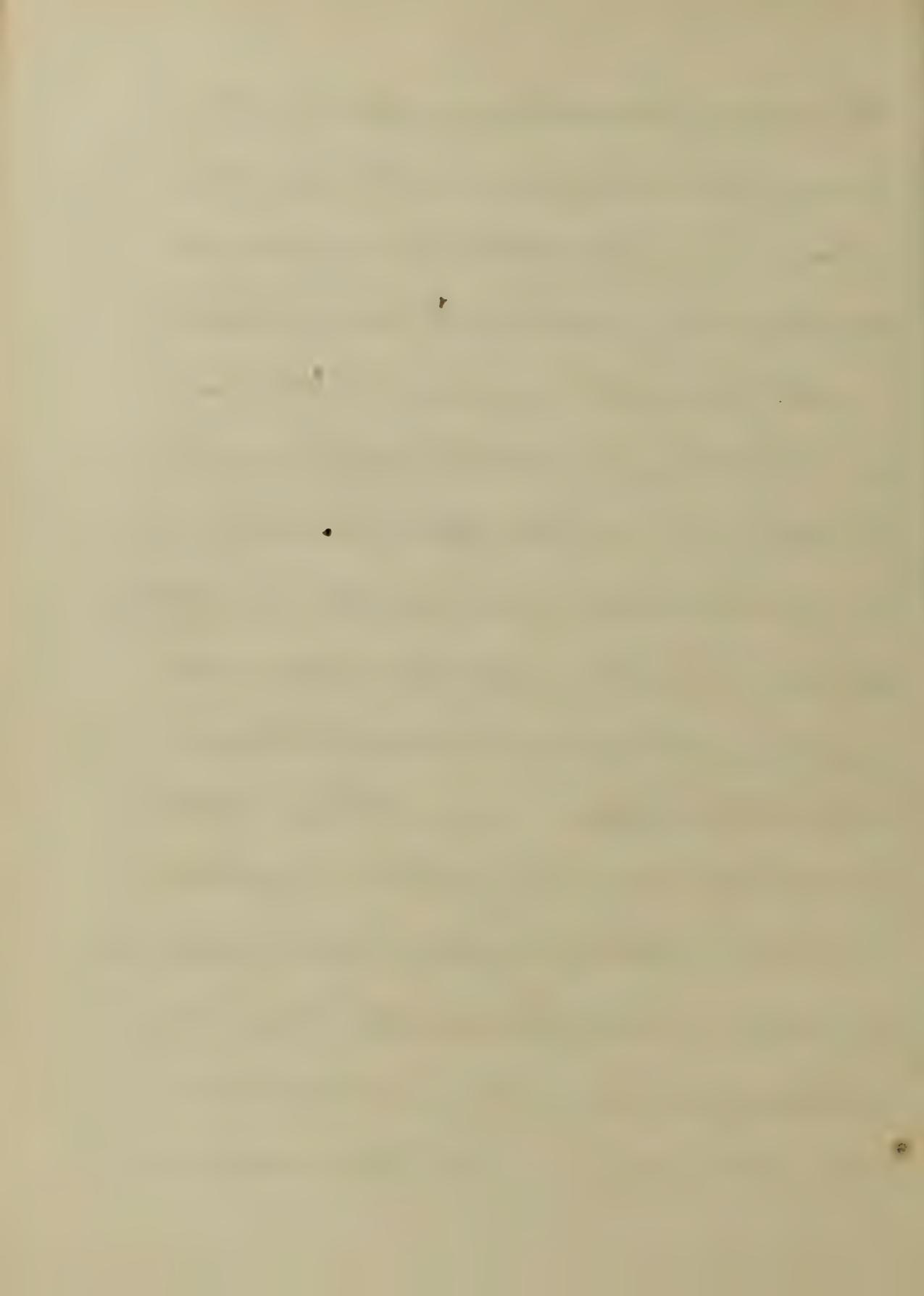
Many complete autopsical examinations were made, and in cases of the Typhoid affection this one fact was elicited (i.e.) affection of the Peyerian patches.

Others have written in support of this opinion, while others have still adhered tenaciously to the idea of their identity, if not identity, to their almost similarity.

Before quoting *per contra*, we here record the fact, that "One class of Pathologists have placed the seat of these affections, in the Brain, another class have placed it in the Digestive system; and many have believed that inflammatory action, whether limited to one or more organs, is the cause of Fever. Should the essential cause of these fevers, be in either the Brain, Alimentary tube, or set of organs, we think they should be considered as *Symptomatic*.

We believe that when any part of the organism is concerned in the course of disease or any Ileopathic Fever, it is as a complication, and not ^{an} essential.

Dr. Graves, the eminent clinician of Dublin, in speaking of ^{the} fevers of Ireland, says on this point, "I have examined numerous cases of fever, in which there was not any appreciable trace of inflammatory action in the three cavities of the body" Many of the ablest medical men, who have adorned science, by their writings and researches, have considered these diseases the same, only differing in degree, as to severity and complications. Of these there are



the author just quoted, Lombard of
Venice, failed to observe any essential
difference, and others unnecessary to
mention. If we examine their
symptoms, we find them much the
same, lassitude, chills, rigours, quick
and frequent pulse &c. in fact their
symptoms are generally the same, but
it is asserted that essential differences
exist in the following particulars. "

"These Fevers differ essentially in their
mode of extension, and anatomical char-
acters. The latter are not fixed and regular;
on the contrary, the organs are diseased in
so many different degrees, that there is no
one uniform anatomical character, unless

it be the blood condition of the blood, which
is evidently altered in many cases, and prob-
ably so in others, in which the demonstrative
proof is wanting": "The Symptoms of
Typhoid are not ^{any} found in every case; that is,
some which are considered leading symptoms
may be wanting, but the group of those which
remain is in every case, or nearly so, quite
large enough to identify the disease. For
convenience you may divide them into
distinct groups-

1^o Those of the Central Nervous System.

2^o of the Skin

3^o of the Abdominal viscera

4^o of the Thoracic organs. "

(Graves & Gerhard)

The great differences, as alleged, are as follows

Typhus has mulberry spots, milian in character, Typhoid has rose coloured spots, buticular in character. In the former (^VTyphus) we have generally torpidity & constipation of bowels, stupor & coma early in the attack, hardness of hearing, suppression of urine, sometimes at commencement of attack.

The tongue grows darker as the disease progresses. Its duration is generally three weeks; the critical period occurs about the eleventh day; occasionally death may take place within five days, or recovery within fifteen, from the commencement.

In Typhoid Fever we have generally a tendency to looseness of bowels at first, or early in the attack,

Bleeding at the nose (Epistaxis) and a bronchial cough, these two symptoms, are, by some, considered pathognomonic early symptoms. Swelling of the belly, (Typho-pathy) tenderness on pressure in right Olear fossa, with gurgling over the heart usually exist; Sudaminae. The duration less than two weeks, one month may be considered the average time. In this affection (Typhoid) the Thermometrical changes are interesting, but we have not time to detail any of their particular indications. The complications of these diseases are also interesting, but space forbids noticing them here.

We have a few other Idiopathic Fevers, but we hasten on, only now enumerating a few of them.

Relapsing Fever seems closely allied to Typhus and Typhoid fever; this fever lasts for a week, or there abouts, and then seems to subside, then again breaks out, as it were afresh, its symptoms vary, but are closely allied to the above mentioned diseases.

The Exanthemata.

Variola, - Rubiola, - Varicella, - Scarletina, - and a few others have a definite course to run, and we ~~cannot~~ can not cut them short by any medication. They each have a peculiar eruption; they are divided into stages - 1^o Incubation 2^o Primary fever. 3^o Eruption 4^o Secondary fever, and 5^o Desquamative.

Puerperal Fever has, by some, been

regarded as Idiopathic, by some as identi-
cal with or related to Encephalitis and by others
to Peritonitis: Dr. Ramsbotham, in his sys-
tem of obstetrics, has given a detailed account
of the various diseases, commonly called
Puerperal.

Prognosis.

The condition, situation, corporal and
mental vigour, are all here considered,
and by them, we are aided in our opin-
ion as to the issue. The intensity and
extent of disturbance in the harmony of
organic relations, are fundamental consid-
erations, and it may be assumed, that the
farther the divergence from Nature's normal
acts, the graver the disease, and the more

unfavourable the prognosis. The condition of the pulse, the state of the nervous system, ^{of} the *Prae-a-via*, of the external surface, and of the Psychological faculties, must all be carefully investigated before our opinion can be formed, and by their indications, we anticipate good or evil results.

Treatment.

The treatment of fever, generally consists in the administration of Laxatives, Diaphoretics, and Diuretics. To keep the excreting organs free, is the main indication, and especially so in the Exanthemata.

The treatment of Malariae diseases.

are the simplest and surest. With Cinchona, and its alkaloids, we are able to overcome, either by siege or storm, any form (if uncomplicated) that the disease may assume. We have a sure hope in Cinchona or some of its constituents for breaking the return of paroxysms, but in the paroxysm itself, we may use, as adjuvants, Febrifuges, Sinapisms, Sanatives and Cathartics. The minor agents for arresting the periodicity, are Eupatorium Profolatum and other deciduous vegetable tonics. Preparations of some of the minerals are also used successfully.

The treatment is not only to suppress the paroxysms, but to obliterate the tendency,

after the paroxysms have subsided.

To this end, we administer the Restoratives, Iron, the Bitter Tonics, and whatever tends to impart strength and vigor to the constitutional powers.

The treatment of Yellow Fever is not so certain, nor so sure. So great a variety has been recommended, and by such eminent authorities, that a novice scarcely knows whom to follow; but, under all circumstances it is well to keep in mind the advice of Dr. Watson. "To keep constantly in view the manner in which any disease tends to terminate"; and adapt our remedies accordingly.

The treatment of Typhus and Typhoid fevers are of the utmost importance.

We must be careful in the selection of our remedial agents. We place our patient in the best possible condition, to enable him to endure the shock, and bear up under the continuous strain, which the disease will make upon his constitutional powers; look to the abatement of destructive processes and the saving of dynamic forces.

We support the overtired strength by bland liquids, Milk, Beef-Tea &c. We endeavor to modify the severity of the fever, by the administration of the Mineral acids, Muriatic, Nitro-Muriatic, Sulphurous, and others.

The alkalis offer us a remedy, the Chlor-

ate Mixture, and others. In these fevers
there is less urgency for activity, than in
the combating of their complications.

To moderate high cerebral excitement,
accompanied by persistent sleeplessness, we
may give, according to Dr. Graves, the follow-
ing. R. Fructuæ opii 3*ij*

Aatum et Rataus. Tart gr iv

Aqua Camphoræ 3*viii*

H. S. A Tablespoonful every two hours, until
the sleep is induced. By consulting Dr.
Graves work, we find the following history—
"The patient has slept many restless nights,
he had universal tremors, and subaultas,
diffused eyes, occupying one position,
(Dorsal decubitus) dry and black tongue,

typicalic abdomen, high pulse quick
and thready, and high delirium. The
case had previously been blistered upon
the scalp and sucha, cold applications and
purgatives had failed; opium in various
forms had been tried, and without the slight-
est benefit; if sleep were not speedily ab-
tained he was lost" The above Mixture
was given, and Dr. Graves thus narrates
its effects. "The success of this was almost
magical. It is true that it did vomit him
but after the third, ^{or fourth} dose, he fell asleep,
and awoke calm and refreshed; he
began to improve rapidly and soon recov-
ered: In the above we have sum-
marized the remedies relied upon, and on whose failure

the mixture was given. For persistent Insomnia a combination of opium, Sptace and Camphor has been used with much good. Sub-Sectas Troidium, Floccilatio, and a low muttering delirium, call for the administration of Alcoholic Stimulants.

The intercurrent thoracic complications, require the same general measures, as if they had originated in their usual Manner, modified only by the nature of the disease to which they are added.

The Complications, connected with the abdominal organs, are interesting, in two respects, - in the difference of its lesions, in which the characteristic distinctions

are found, and also in the many ways of treating these complications.

When the tongue is hard and dry, we are advised to give the tonics, either Vegetable or Mineral. Under certain conditions of the bowel, the tongue cleaves in the centre, leaving a smooth moist red surface, which will become dry (and especially) if connected with tympanitis, indicating involvement of Payer's glands, Dr. Wood of Philada. relies upon oil of Turpentine. Some have preferred a combination of R. Terebinth. and Balsam. Copaiba. If sequo of perforation occur, Opium. If hemorrhage from bowel, we may give the old, and perhaps the best,

Formulae of Acet. Plumbi et opii, or
the same with Camphora, with con-
ter irritation over abdomen and spine,
or both.

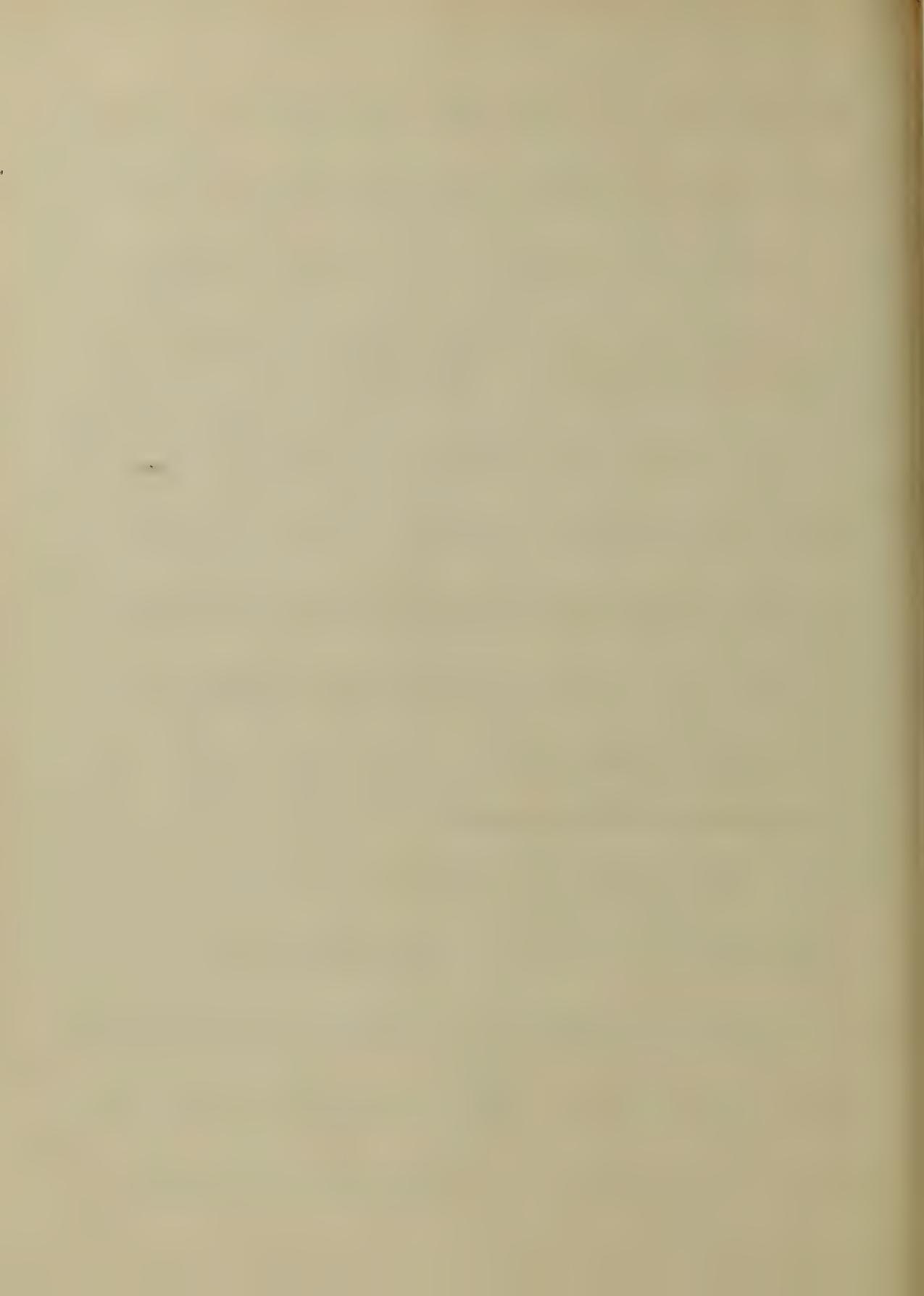
For the diarrhoea we may give, Turp-
line. Mustard & crite. Bismutte. Opium and
Lead. Astringents both mineral and
vegetable. We combine agents of these
classes to suit each individual case, re-
quires its own course to conduct it through
the perils of functional disturbances, and
structural lesions.

As to the treatment of the Exanthem-
ata, we say nothing for it is simple and
comprised under the head of Febrifuga-
ges.

We have not spoken of the treatment of Idiopathic fevers, with the Secephites or Phosphites, or the hypothetical idea of their being a fermentative process connected with them, nor have we touched upon the administration of Quinine as the "Sine qua non", and we have left unnoticed many points which attracted us by their interest, such as the theories of their cause, the critical evacuations, the intermingling of one fever with another, and the sequela of fevers. The limits of a thesis would be greatly exceeded, if any attempt were made to even notice the thousands of special points that have entered into the experience and

productions of the ablest writers
on the subject of Fevers.

We have glanced superficially
at Idiopathic Fever, knowing that
the subject could not receive at our
hands any elucidation. Nor do ~~we~~
Students opportunities enable them
to speak of any particular experience.
We have only endeavored to speak
of their definition, allude to their
general Diagnosis and Prognosis, and
give a few of the articles used in their
treatment. There now remains only
to most respectfully submit the above,
with the hope (if successful at our
examinations) that, in a very short



time, we shall have other opportunities
for acquiring a more complete knowl-
edge of fevers and their treatment.

W. A. Keup
of Maryland.

Session 1871 & 1872.

