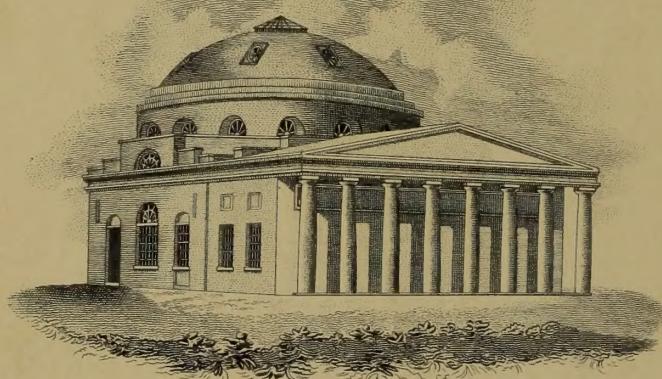


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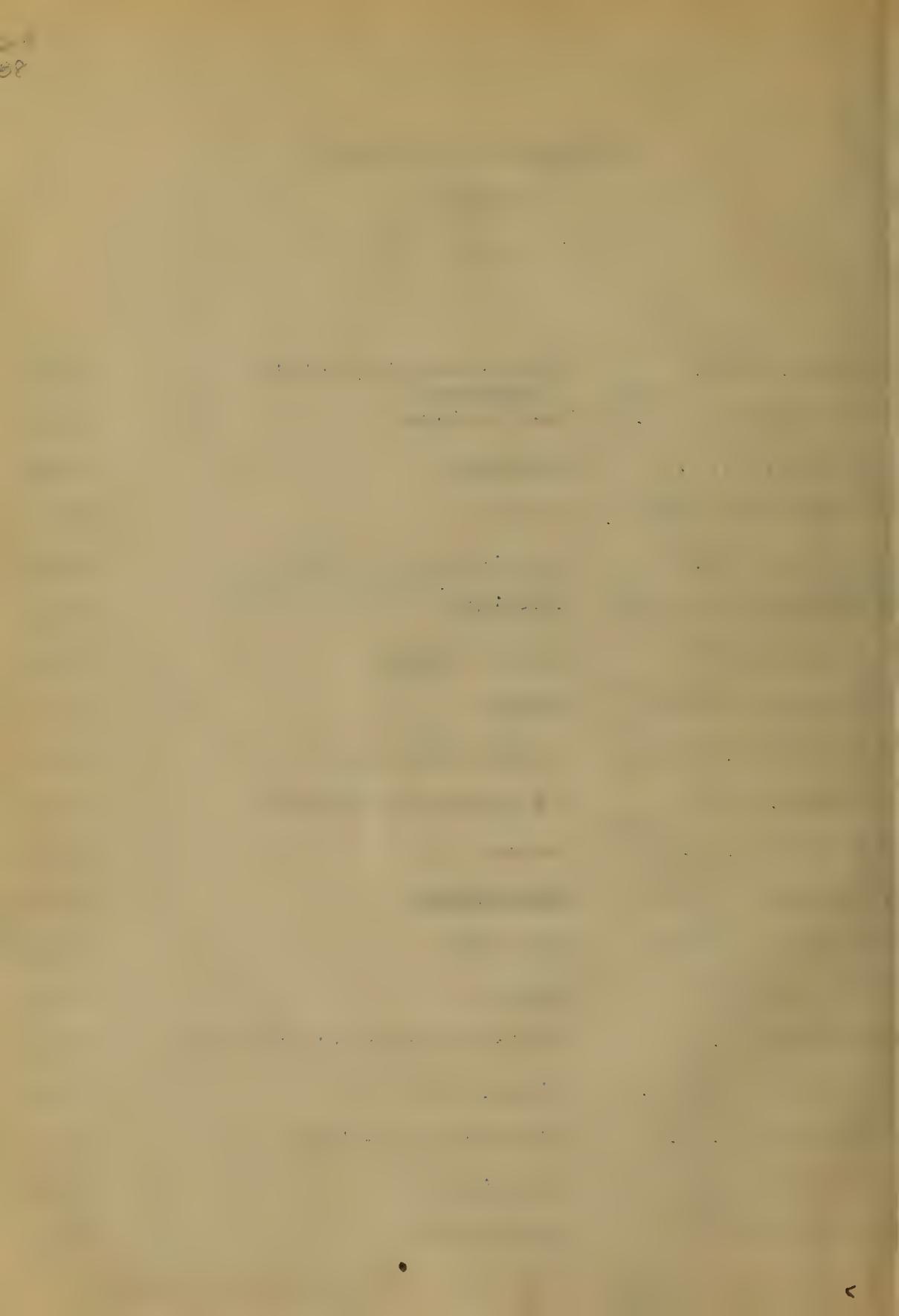
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Influence of Alcohol on the ^{physiological} _{chemical} properties of the tissues and fluids.



AN

Inaugural Dissertation

ON

Variola et Saracenica Purpurea

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

Thomas Edward Kirby
of

Maryland

Session Fifty-Eighth

1865-1866

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Variola et Garracina Purpurea
An Inaugural Essay

Presented to the
Provost, Regents, & Faculty of Physic,
of the University of Maryland.

By
Thomas Edward Kirby,
of Maryland.

A D 1866.

Variola

Of all diseases which have ever affected the Human Race, none perhaps has been more universally dreaded than "Small Pox"; not more on account of the great mortality; than, of the horrible disfigurement frequently resulting. To give a general definition, Small-Pox is a contagious disease characterized by an initial fever of three or four days duration succeeded by an eruption passing through the different stages of papule, vesicle, and pustule, and terminating in about eight days.

To enter upon an extended history of the origin and progress of the disease, would be quite out of place here; time and space not permitting.

I will merely remark that it is known
to have prevailed in China and India
from time immemorial. It is said to
have first appeared in Arabia at the time
of Mecca in the sixth century in the
year in which Mahomet was born.
No mention of the disease is to be found
in either of the Greek or Roman authors
of antiquity. It is believed to have first
found entrance into Europe at the
time of the overthrow of the Gothic mon-
archy in Spain by the Moors.
Previously to the discovery of America
by Columbus A.D 1492 the disease
was unknown. In 1517 it was import-
ed into St Domingo. In 1520 a negro
belonging to one of the Spanish expeditions

from Cuba to Mexico, covered with small-pox pustules was landed on the Mexican coast; from him the disease spread with such rapidity and desolation that, according to Robertson, three millions and a half of people were destroyed in that kingdom alone. It was taken to Iceland in 1707 when more than one fourth part of the population of the island was destroyed. It reached Greenland first in 1733 and spread so fatally as almost to depopulate the country.

Two varieties of the disease have been generally recognised; the distinct or discrete; and the confluent; the former characterized by the sparseness and isolation of the pustules, and the latter by

their coalescence. All cases of small pox have three stages, First the eruptive fever; Second the progress and maturation of the eruption; and third of the decline. I will now proceed with a description of the symptoms and course of the disease taken in part from Park, Wood and Watson. Distinct or Discrete Small Pox

The first stage commences usually with rigors of various intensity and duration, which are followed by heat of skin, acceleration of pulse, furred tongue loss of appetite, epigastric uneasiness, often nausea and vomiting, headache, thirst, pains in the back and limbs, and general muscular weakness. These are the ordinary symptoms of fever and there is nothing in this stage

of Small-pox to distinguish it most certain-
ly; from any other disorder. If there be
anything peculiar it is in the violence of the
lumbar pains, and, the frequent occurrence
of obstinate vomiting not referable to
gastric inflammation or cerebral disease.

When these symptoms are violent they
usually usher in a severe form of the
disease. The same may also be inferred
from a continuance of the nausea and
vomiting after the appearance of the
eruption, which, is very unusual.

According to Heberden, Acute pains
in the loins was, almost always follow-
ed by severe disorder. Pain higher up was
of better augury; and it was in all cases a
good sign if there was no pain in the back

Early delirium, stupor, and convulsions,
however, though not always announce
severity in the subsequent course of the
disease. Sores of the throat, cough,
sneezing and an excess of tears are not
uncommon. The fever is often decidedly
remittent with daily exacerbations;
it continues generally some 3 or 4 days
and subsides upon the appearance of
the eruption. This appears about the
third day. Minute bright red specks
show themselves first on the face, then
upon the neck upper part of the head,
fore-arms, upon all parts of the trunk,
and lastly, upon the lower extremities.
It is generally the fifth day before
the eruption ceases to appear -

There are some exceptions to this rule.
Sometimes, but not often the spots
appear first upon the extremities, and
in some instances straggling papules
continue to come after the main crop
is completed; but these seldom arrive
at the same size with the others.

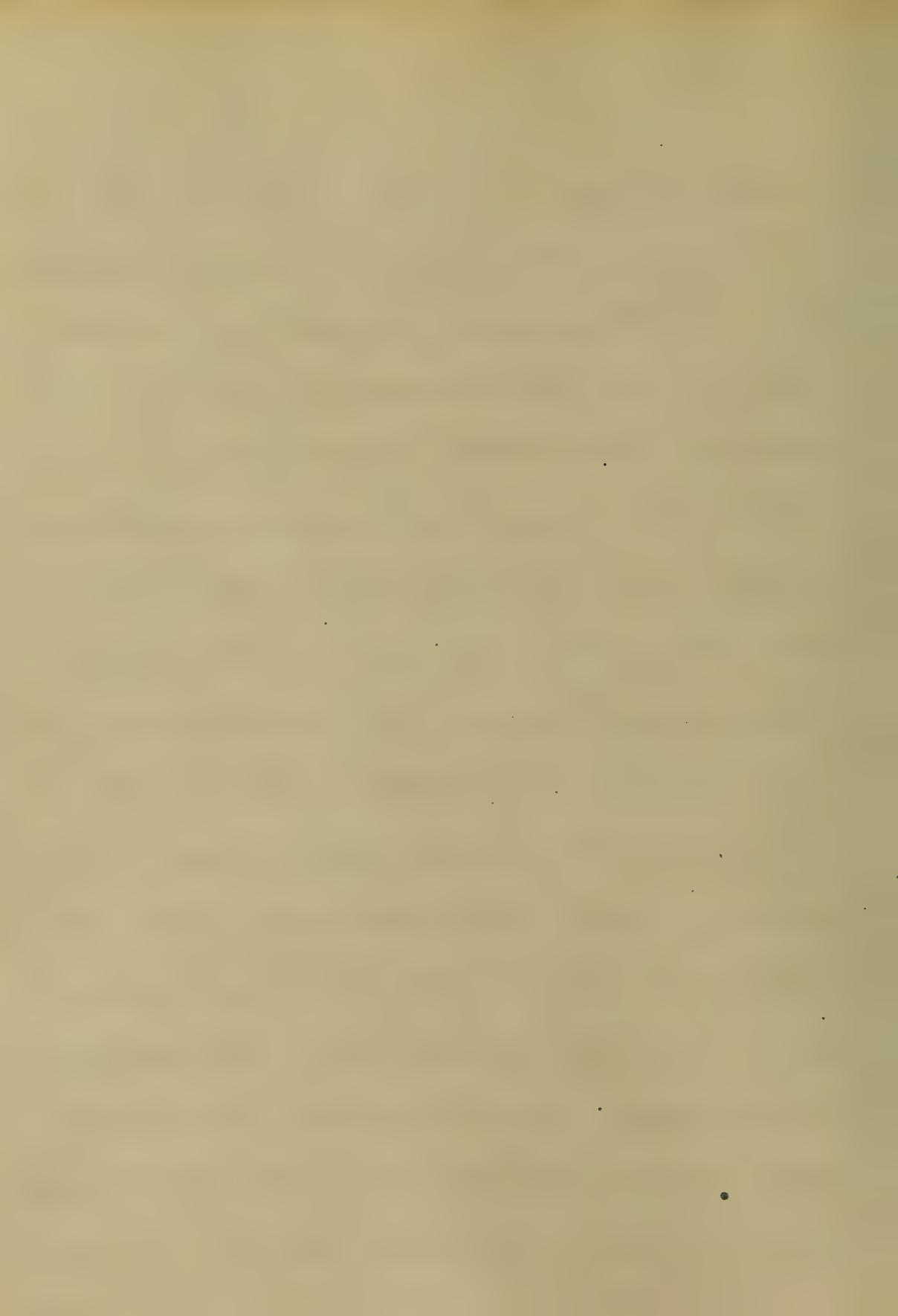
The fever has generally disappeared by
the time the eruption is completed.
Some times it subsides rapidly and
even abruptly. "Second Stage"
This may be considered as having
begun when the eruption is fairly out.
The alteration through the various stages
from papule to pustule, pursues the
same order as the eruption beginning
with those on the face -

The minute specks soon become decidedly papular, and, upon the top of each papule on the second or third day, a little clear lymph may be seen; thus it has become a vesicle. On the third or fourth day the pocks are distinctly formed, being round and flattened on the top, in the centre of which is a little depression, giving the eruption a characteristic umbilicated appearance. They are now hard to the touch and surrounded by an inflamed areola which renders the skin red between them. From this period, they by degrees, increase in size and change into pustules; their liquid contents becoming more and more purulent until quite purulent. As they approach

their completion, they lose the umbilicated form and become convex and distended at the top. Those upon the face are at their height and begin to turn generally about the eighth day of the eruption, the eleventh or twelfth day of the disease; but it is two or three days later before those on the trunk and extremities have matured. During the progress of the eruption many interesting incidents occur.

Patients often complain of an itching; the skin is more or less tender; an eruption also occurs upon the mucous membranes of the mouth, eyelids, &c &c, which may be seen two or three days after the first appearance on the skin, in the form of white circular spots, which however contain

neither lymph nor pus. Between these the membrane often becomes red and inflamed and, on the seventh or eighth day of the disease, sore-throat swelling of the fauces painful deglutition and salivation are apt to come on which are among the most disagreeable symptoms. The patient is sometimes much annoyed by the necessity of constantly clearing his throat and mouth from the viscid secretion. With the progress of the eruption there is more or less swelling of the skin especially upon the face where the sensation of burning and tension is often painful. The scalp is occasionally much swollen. Both the external tumefaction and soreness of mouth with salivation increase as the pustules



matured can begin to subside as soon as
they have reached their greatest height.
During the period of maturation a peculiar
greasy, disagreeable odor quite "In genere"
proceeds from the body of the patient, by
which, one acquainted with the disease
might readily recognize it. The salivation
before referred to is of some importance as
a prognostic symptom. If it cease sudden-
ly and abruptly and at the same time the
swelling of the face subsides prematurely,
the peril is great. The blindness of one or
both eyes so commonly a result of small-
pox especially in children is caused, not by
the formation of pustules on the conjunctiva,
but according to Dr. Gregory by an intense
kind of Ophthalmia which sets in about

the period of the Secondary fever, and rapidly involves and spoils the transparent tissues of the Organ. The Secondary fever is a febrile action developed about the eighth or ninth day of the disease depending exclusively upon the sympathetic of the constitution with the local disease. It is most violent "catarris parvus" when the eruption is most copious, and, when this is scanty may be quite wanting. Being symptomatic it generally declines with the pustules. The third or healing stage is little more than a period of Convalescence. About the eleventh or twelfth day the pustules become brown and dryish on the top or, some of them burst and the liquid which escapes, concretes

into a yellowish brown, crust and from
this time the desiccation advances rapid-
ly; the swelling of the subides rapidly,
and, at last, only dry scabs remain
which begin to fall off from the face on the
fourteenth or fifteenth day. But the emp-
tiness upon the extremities has scarcely yet
arrived at its height, when that upon
the face is declining, so that the hands
and feet are now considerably swollen;
this is looked upon as a favorable sign,
as it indicates a certain vigor of the
constitution. It is not until three or
four days after the scabs have formed
upon the face, that the same process is
completed upon the wrists and ankles.
Many of the pastyles instead of forming

regular scabs shrink away in consequence
of absorption of their contained fluid,
and nothing but a pellicle of cuticle is
left, which separates by desquamation.
This is especially the case with those
upon the arms and legs. The eruption
upon the mucous membrane is almost
always resolved without the formation
of ulcers or anything that can be consid-
ered a scab. The scabs fall off entirely
between the fourteenth and twenty-first
days. A singular fact mentioned by
Rayer and others is that, when the skin
has been previously inflamed as in
Psoriasis, Lichen, Eczema, &c. &c., the process
of maturation is considerably hastened
so that the pocks on the inflamed part

commonly run through all their stages within eight days. After the falling off of the scabs, blotches of a reddish brown color are left behind, which sometimes continue for several months before they quite disappear. Some of the pustules especially those of the face in consequence of an ulcerative destruction of the true skin, leave scars and pits - which are never effaced. The surfaces from which the scabs have fallen frequently afterwards undergo a furfuraceous desquamation. When the scabs begin to form the fever declines, the tongue clears, the appetite returns, and, by the time the skin has been relieved of its burden, the patient has been fully restored.

Confluent small pox. It is in this variety - we may expect to find, the greater percentage of mortality. It is a more aggravated form of the disease and, there is every grade between the extremes of the two varieties. As a general rule, the initial fever is more violent than in the discrete form. The pain in the small of the back is more severe. Convulsions, delirium and stupor are more frequent; nausea and vomiting more distressing and obstinate; and the disease more liable to inflame.

- long or malignant complication.

The delirium is occasionally violent, and though sometimes associated with signs of inflammatory cerebral congestion, is,



in other cases, dependent on vomiting
irritation alone. Cough, dysphonia, and
pains in the chest are not uncommon
and the epigastrium and other parts of
the abdomen are often painful and
extremely sensitive to the touch.

The eruption appears earlier and is
not attended with so complete a sub-
sidence of the fever, which however
remits to some degree. The eruption
is occasionally preceded by a rose-
lous or erythematous efflorescence upon
the face and trunk. The papulae
appear thickly upon the face so
that in some cases, scarcely any
portion of healthy skin is visible,
but, more frequently leaving intervals

of the surface comparatively unaffected. They are generally more distinct upon the body and extremities, but sometimes even here, they are more or less confluent. and it sometimes happens that, while distinct upon the face, they are confluent on some other part of the body. In these cases the symptoms are usually less violent. As the disease advances the pocks are not so regularly developed as in the distinct form. They do not fill so amply nor do they rise so much above the surface. It frequently happens that, large portions of the face are covered with apparently a nearly uniform layer of pus beneath the epidermis and



sometimes nearly the whole face is affected. In some cases the pustules appear fused into one mass of suppuration. The inflammation often extends to the subcutaneous cellular tissue and, not only is much of the proper skin destroyed by ulceration, but great havoc is made by the pus burrowing in the subjacent tissues. The eruption in the mouth and fauces is more copious; the consequent pain and swelling greater, and the salivation more distressing. Frequently the eruption and attendant inflammation extend to the larynx and trachea, and to the larger divisions of the bronchi producing cough, hoarseness, painful expectoration

and sometimes extinction of the voice.
This is one of the most dangerous accom-
paniments of Small-pox causing death
by suffocation, in some instances,
through closure of the rima glottidis,
in others, by the clogging of the bron-
chial tubes with their viscid secretion.
As a consequence of this condition in
its advanced stages and arising from
a want of aeration of the blood,
are a dark discoloration of the skin
a livid or purple hue of the eruption,
feebleness of the pulse, coolness of the
surface, and universal prostration.
The deglutition which is painful from
the inflamed state of the fauces,
becomes in some of these cases, still

more difficult on account of the thickening of the epiglottis, and the want of proper adaptation between it and the orifice of the glottis.

The nostrils are often stuffed with the tough secretion, or closed by the swelling of the Schneiderian membrane, so as to render breathing through them almost or quite impossible. The surface also swells greatly, especially the face and neck. Such is the tumefaction that the eyes are often closed; almost every feature obliterated and the head considerably enlarged. Sometimes buboes form in the groin and parts of the surface when there

is little eruption are sometimes affected with an erythematous inflammation. The eruption usually begins to turn upon the face about the tenth day of the disease, and in place of the broad maps of suppuration with its cellular covering, the whole face is often invested with a mask of dark colored scabs, beneath which the matter still exists; giving a soft marsh-like feeling to the part. Frequently the matter exudes from beneath the scabs and sometimes when these are torn or scratched as they are apt to be in consequence of the intolerable itching attendant

on their formation) a bloody or ichorous discharge from the raw surface occurs. These phenomena along with the intolerable fever which is extreme render a patient with constant small ^{for} an object truly revolting. The fever which had remitted upon the occurrence of the eruption, but has never entirely left the patient increases again on the eighth ninth, or tenth day: and the new accession is often marked by the occurrence of rashes. The secondary fever may still have more or less of the asthenic character, which in some vigorous constitutions it never loses; but very often it assumes a low form.

consequent partly upon the exhausted strength of the patient and partly also, in all probability, - upon the deteriorating effects of the absorbed pus and putrid secretions upon the blood. The pulse is now feeble and frequent; the tongue dark and dry; there is low delirium, hiccups, subsultus - tertundium, great muscular weakness, occasionally, involuntary excretions, or, retention of urine and, if no favorable change occur, the patient dies; either from extreme exhaustion or, the interruption of some one of the vital functions through the severity of the local disease. Should the patient

survive the period of maturation, and pass into that of decline, he has still great dangers to encounter. It is now that disorganized inflammations are most apt to occur in various parts of the body. Pseudo-membranous or adenomatous inflammations of the fauces and larynx, pneumonia, pleurisy, diarrhoea or dysentery and occasionally inflammation of the brain, complicate the symptoms and often with fatal effect. It is also at this period that those destructive attacks of ophthalmia occur which are apt to result in the irreparable loss of one or both eyes. Sometimes the cornea elongates

and the internal part of the eye
project through the opening.
Sometimes the whole eye is convert-
ed into an abscess. In milder cases
an opacity of the cornea is formed
which either remains permanent,
or gradually disappears after sever-
al months. Erysipelas sometime
appears on the face or elsewhere.
In hospitals this is one of the
most common accompaniments
of the disease; it occurs not only
during the declining stage, but
also during that of maturation.
Abscesses are often developed in
the head neck and limbs. Fumules
break out over the surface of the body.

various eruptive affections give rise to intractable sores, and add to the distress of the patient. Gangrene sometimes attacks the surface, and portions of the skin slough. If the disease do not prove fatal, the patient enters upon a slow convalescence. The scales fall off leaving evidences of the ravages of the disease in numerous pits and sometimes large scars and seams upon the face. Occasionally the recovery is attended with the loss of one or both eyes. Any tendency to Scrofula or Pthisis is apt to be developed. Desquamation is seldom completed and health restored under three or four weeks; and sometimes

complete recovery is further postponed.
Some cases of Confluent Small-pox
run a more favorable course, and
after surmounting the dangers of
maturation terminate well. As was
before remarked there is every grade
of violence between the extremes of the
distinct and confluent form, so that
sometimes the confluent is attended
with but little more danger than
the distinct variety.

Another form of the disease is Black
or Malignant Small-Pox; so called
in consequence of its extreme malig-
nancy. Its peculiarity consists in
the association with the specific
effects of the variolous poison, of an

asthenic state of the system which causes the patient to sink under the disease at a comparatively early period. This state of the system may be connected with any of the forms of small pox; the distinct, confluent, or even the modified form called varioloid: but it is more commonly observed with the confluent. It is evinced first by an utter prostration of the nervous power, inducing inefficient reaction with coma, delirium, excessive restlessness and anxiety, and sometimes imperfect development of the eruption, or a sudden retrocession of it when formed, or secondly, by those sym-

ptoms which characterize a depraved condition of the bloods such as petechiae or vescicæ, oozing of dark blood from abraded surfaces, or mucous membranes, a purplish or bloody and badly developed emulsion which fills partially, and rises but little above the surfaces, pallor or lividity of the surrounding skin, a disposition to gangrene, oppressed breathing, anxious countenance, and great feebleness of the circulation.

Sometimes the signs of malignancy do not show themselves in the initial fever; unless perhaps by the severity of the lumbar pains; but in other instances, they are striking from the beginning, and, there is reason to believe



that, persons have sunk under them,
before the appearance of the eruption.
Death generally occurs from the seventh
to the ninth day. Variola or
Modified Small Pox. This is the
term used to designate the disease
occurring in persons who have been
previously protected from the effect
of the genuine disease by vaccination
but, afterwards exposed to the conta-
gion of Small Pox. It is a very mild
form of the disease, scarcely ever
attended with danger, and usually
of very short duration, unless com-
plicated. At other times however
it assumes a very severe form, and
should it be associated with an

asthenic state of system, may result speedily in death. The constitutional symptoms of this modified disease are in general at the onset, and, for several days much the same with those of the genuine disease. The initial fever is of equal length and intensity. There are frequently much headache, and sickness, and, sometimes, ~~and~~ delirium. The eruption begins about the third day; it is often copious and sometimes confluent, and, in the confluent cases the fever does not entirely subside with the appearance of the eruption. It is in its subsequent progress that

the complaint is modified in respect to the appearance presented by the skin, and to the constitutional symptoms. Three distinct kinds of eruption have been observed. First, the eruption sometimes approaches in its character and course, very nearly to that of ordinary Small-pox. The pustules first appear with the central depression and ultimately crust over and the face swells, but this course is performed in a shorter time than that of the ordinary disease, and the pustules are usually smaller. This is the severest and least common form of varioleous. Second form. Sometimes the pustules show a little

fluid on their tops only, but never
fairly suppurate nor break, but the
vesicles dry up, and hard prominences
with livid bases and hoary sum-
mits remain. Third form. In these
cases, a great part of the eruption
consists of red pimplles which soon
become livid, but contain, from first
to last, no fluid whatever. In the
majority of instances of Varioloid,
all these forms of eruption coexist.
Some of the papulae go on to suppu-
ration, others become covered with a
hoary summit, and others exhibit
no fluid at all. The most import-
ant characteristic of Varioloid, is the
total absence of secondary fever.

The constitutional disturbance which, for the first weeks, may have been as severe as in the genuine disease, generally subsides entirely when the eruption has reached its height. The patient is convalescent just when in the unchecked and regular form of the malady, his danger is beginning to be the most urgent.

Anatomical Characters

The only characteristic alterations are those upon the skin, and mucous surfaces. Signs of inflammation are often found in the lungs, pleura, membranes of the brain &c &c; but these are only to be attributed to complications and not necessarily to the disease. In malignant

cases the blood is found to have under-
gone the same changes as in other ma-
lignant diseases. When taken from the
arm during life, it sometimes contains
a small excess of fibrin and upon
coagulation exhibits the buffy or infla-
-matory coat which however is usually
soft and gelatinous. In asthenic or
typhoid cases the proportion of fibrin
is diminished. Cause. The
cause of Small-Pox is now universally
admitted to be a specific contagion.
There are some persons, (but the pro-
portion is small) who are not liable to be
affected on exposure, who are not
protected by vaccination. The conta-
gion acts either through the air or

by contact, in the liquid or solid form
with the sound skin or mucous mem-
branes, or by insertion beneath the
cuticle. Opinion is not settled as to
the period at which it is contagious;
some believing it to be so only after
the commencement of suppuration,
others consider it capable of propagating
the disease at any period from the begin-
ning of the initial fever. The body
after death retains the power of impa-
-ting the disease for a period of from
ten to twelve days even without con-
-tact. Some times it is true Sponta-
-neous cases occur apparently entirely
independent of contagious influence
but these form an exception to the rule.

Diagnosis. From what has been already said, it would seem almost impossible for any person, well acquainted with the disease, not to distinguish it readily after it has fully formed; yet at the beginning of the initial fever it is not so easily diagnosed from any other fever. The following symptoms closely watched may however enable the practitioner to predict the disease viz; Severe pain in the lumbar region and excessive irritability of the stomach not attributable to any obvious cause; Add to this the prevalence of the disease at the time, and I have seen a papular eruption occur upon the third or fourth day and shortly become

vesicular with an umbilicated summit, the diagnosis is quite certain. Prognosis. Genuine Small-pox is a very dangerous and, was formerly an exceedingly fatal disease. The general average of deaths is one in four. The varieties differ greatly in the degree of their danger. The distinct when uncomplicated is seldom fatal. The confluent is almost always dangerous. The malignant almost always ends in death. The fatal cases of varioloid are very few; and, in the vast majority of cases the affection is but trifling excepting the consideration that it may be a source of danger to the unprotected. The favorable signs are; the disease

pursuing its regular course without complication: yet some cases appear to progress favorably, when, suddenly, without apparent cause, the vesicles or pustules suddenly shrink and the patient sinks. The unfavorable signs are excessive lumbar pain continuous, of vomiting violent delirium, or coma, convulsions (except in children) great abundance and confluence of the eruption, the simultaneous appearance of the eruption over the whole surface of the body, livid or purplish color of the pustules, or imperfect development or the sudden subsidence when fully formed &c &c the occurrence of Pneumonia or Pleurisy or other signs of

inflammation, or the occurrence of
Pectohia, Vibes passive hemorrhage,
or other signs of typhoid complica-
tions &c. Plethora and debility are both
unfavorable and, the intemperance
are very apt to die. The disease is
more fatal at the two extremes of
life, than at the intermediate stages.

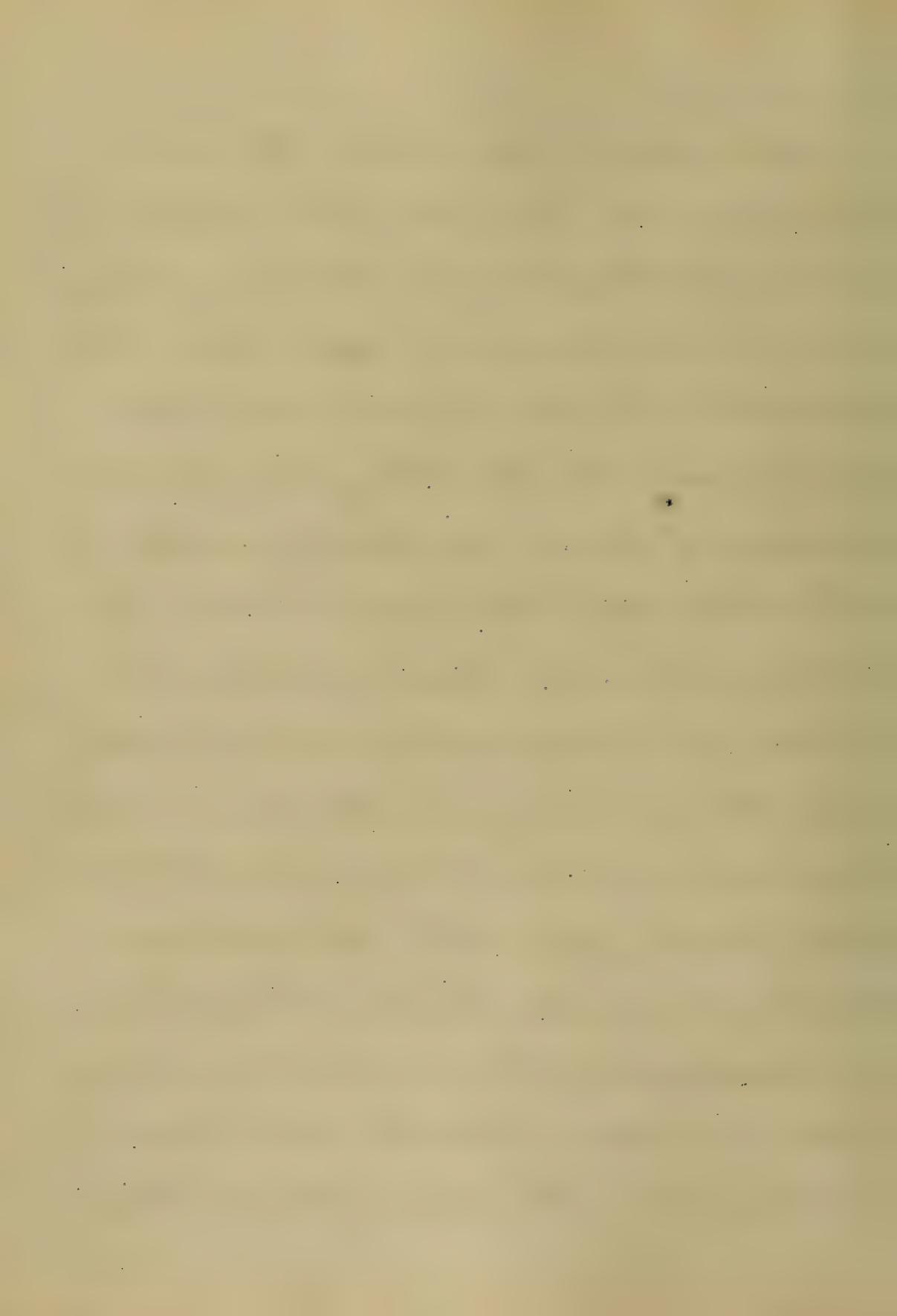
Treatment. The treatment of small
pox has at different times differed
greatly. The old theory, that the emp-
tum was an effort of nature to rid her-
self of the noxious matter which if
retained must prove fatal, called for
a heating and stimulating plan of
treatment so as to favor the eruption
much as possible. At present it is

known that the greatest danger in small pox arises from the sympathy of the constitution with the occasions of the eruption; hence, the cooling or refrigerant plan is now pretty generally adopted in medical practice. Yet doubtless there are cases where stimulative measures seem to be called for and even demanded; as in cases accompanied with debility; or occurring in the intemperate. In simple cases very little if any treatment is required. Such cases sometimes run a favorable course and get well without any medical assistance. This statement I saw verified in a child some 2 years of age during the



month of January 1864. The disease had proogressed as far as the third stage or period of decline before the mother had taken any particular notice of it. On enquiring into the history of the case I learned that some two weeks previously the child had shown some signs of general malaise viz it had been fufle and crop and that it had vomited freely during two days that it had had considerable fever &c &c and that 3 or 4 days afterwards some twenty or thirty pimplles had appeared on the face which were succeeded by an eruption of the same kind on the neck and extremities; this had excited no alarm in the mind of the mother.

as she informed me that the child
had frequently had pimplies before so
that she thought the child's stomach
was a little disordered and now that
the child had fever again and was
quite sick, she had thought of seeking
medical advice in a day or two if
the child did not get better. The
child had never been vaccinated.
I told her it was a case of small
pox though a very mild one and I
once advised her to keep her other chil-
dren away from the one who was
sick and revealed the fact that I was
apprehensive they would have varia-
-loid (as I knew the others had been
vaccinated) The sequel proved that



my suspicions were correct and well
grounded as in less than a week I was
called to attend them with varioloid.
The child first spoken of received no
treatment whatever but recovered
entirely and has since enjoyed better
health than at any previous time.
There is really no specific remedy for
Small-pox : nor can the disease be
abruptly shortened. The treatment must
be conducted on general principles.
Symptoms must be combatted as they
arise. The danger in the disease arises
partly from the reaction of a copious
eruption on the skin and partly from
intercurrent inflammations &c &c, and
partly from the exhaustion consequent-

upon the long continued irritation
and discharge, it is obvious that, the
indications are, first to moderate the
amount of pustulation without im-
pairing the strength, Second to ob-
viate in all its stages the effects of
inflammation and, Third to support
the system when requisite in the
advanced stages.

In mild cases it is sufficient to give
refrigerant draughts and cooling
drinks, during the fever, and an
occasional laxative should the bowels
be confined. In severe cases it becomes
necessary to interfere more efficiently.
at the commencement of the primary
fever an efficient cathartic such as

calomel, comp &c Coloured with a
minute portion of Ipecac, or the Rice
Cath Co (No S P.) or Calomel and Rhu-
-barb or Senna & Salts to be should
be given, and, afterwards the bowels
kept free by saline Cathartics, mag-
-nesia, Rhubarb or Castor Oil for a morn.
In cases with irritable Stomach the
Sedative Powders will be found useful
after the bowels have been well evacu-
-ated, Saline draphtines as Lig Am.
Acet, Pot chl or Pot Cit, especially
in the form of Mist Inhalation, it usual-
ly serving to allay the nausea and
vomiting.). When there is but little
irritability of the stomach the Tonic
powders will be available.

Spt Nit dulc. is also valuable when much nervousness exists with inability to sleep. The skin if hot and dry may be sponged with cool water; but this should be confined to the arms and face, in consequence of the tendency to inflammations.

Sponging with warm water may be employed more freely and often affords relief. Should the pulse be full and strong, and symptoms of inflammatory congestion of any important organ as the lungs, brain, or Stomach appear, bloodletting either general or local may be resorted to.

In all doubtful cases, the bleeding should be exclusively local. and, often the True Verat. Virid will be found to supersede the use of either general or local bleeding.

This remedy must of course be closely watched.
We can neither eradicate the fever nor diminish the eruption, but must be satisfied to relieve the most urgent symptoms.
To allay excessive vomiting, Spt Lac Co with a solution of Soda Bicarb in dilute Ac Persicina will be found useful or the effervescent draught, to which, may be added a little mafolina or Opium Acet and should the vomiting still continue Iced champagne may be given or an aromatic practice or a Sinapsis may be applied over the epigastrium and an anodyne enema given. Should the epigastrium continue very tender, leeches followed by emollient poultices may be applied In cerebral congestion the hair should be

thinned or shaved and Applications of cold water or ice made, and leeches applied behind the ears, while by revulsives as hot and Stimulating fomentations, Mustard &c. the irritation is to be invited to the extremities. Symptoms of laryngeal or pectoral inflammation are to be treated by local depletion, emollient Cataplasms &c &c. The drinks should be cooling such as water or lemonade which are nearly always acceptable to the patient. The diet should consist exclusively of mucilaginous saccharine or amylaceous liquids. After the appearance of the eruption, little treatment is required for some time Should the fever continue the draughting may be continued in diminished.

doses and at longer intervals. Gentle laxatives are sometimes required to keep the bowels soluble. Nervous symptoms, as before stated, to be treated with Spt. Nit. Dulc., Spt. Antra Hoff and Camphor water &c. An opiate as per Dr. Dorey may be given at night if necessary, to produce sleep. The regimen should still be cooling; though food somewhat more nutritious may be allowed for example gruels, toasted bread and tea, toasted apples, remelt whey &c &c. Attention of course to be paid to the degree of excitement. The diet in all cases to be strictly Antiphlogistic. On the occurrence of the Secondary fever, the original diaphoretic and refrigerant plan should be

resumed in a degree corresponding to
the excitement. And, the apparent strength
of the patient. And it is at this period of
the disease we must watch the patient
closely on account of supervening infla-
mations. For the relief of these, local
measures are those from which we are
to expect most. Opals may generally
be advantageously used at this time
and throughout the remainder of the
disease, unless contraindicated by cere-
bral congestion. They calm the nervous
disturbance, and render the system less
susceptible to the exciting annoyance of
the local affection. Opium is also an
excellent remedy, in the inflammations
of this stage when combined with Specac

and Calomel: Should the inflammation be sufficiently severe to threaten life, the Calomel may very properly be pushed to a moderate Salivation. Another great danger in the advanced stages to be guarded against is the prostrating effects of suppuration, and the vast irritation of the pustules. Then it is necessary to support the patient. When therefore any appearance of flagging is presented, when the power begins to become weak, and the tongue dry and dark, and, the extremities to show a want of due action, recourse must be had to tonics and Stimulants, and a nutritious diet proportionate to the wants of the system. The particular remedies to be employed are as follow; Iodine Sulph, the mineral Acids,

Infus Cinchon Co, Opium, the malt liquor,
and wine, either alone or, in the form of Whiskey.
When the prostration is very great, Ammon
Carb, Ether and Brandy may be added to
the list. Camphor is also an excellent
addition to the other remedies in cases of
nervous disturbance. When the surface is
cold external heat must be applied.
Milk, animal broths Jellies or Espaces,
and Eggs raw or boiled soft may also be
used. In malignant cases the tonic and
stimulating remedies must be used early
in the disease, or, at any period when
symptoms of malignancy appear though
little good can be expected.

It is necessary throughout the disease to
attend to the inflammatory complications

The treatment of this has been already sketched : chief reliance being placed upon leeches emollient applications, and blisters externally, and the judicious use of the drug with opium internally. Should diarrhoea attend, it must be treated on general principles. Convulsions occurring early in the disease to be treated as cerebral complications, later, they generally depend on purely nervous irritation and are to be so located. Throughout the disease attention must be paid to the diseased surface. Lotions of cool water, demulcent liquids, milk and water, or, weak lead water may be applied to the face when much inflamed : purulent matters are to be removed from the eyes

by frequent washing. Children should be prevented from scratching the pustules. Moisture exuding from the pustules or exco-
-riated surfaces should be sprinkled with some absorbent powder as Gycopodium Calamine or Rye flour; or, if the parts are much inflamed they may be anointed with either Cold, or Glycerine Cream &c
In infants - the nostrils are to be frequently washed, and slightly astringent washes used for the mouth and fauces.

Should a pseudo-membranous exudation be observed in the fauces it should be touched with Lunar Caustic, or washed with a strong solution of that salt.
Dilute solution of Chlorinated Soda 3j
ad 9j water is recommended as a gargle

and, also as a lotion. Ectrobie treatment
To obviate the disfigurement of the face
frequently the result of the disease, various
measures have from time to time been
recommended: To produce ablation of the
pustules the application of Arg Nit in
the solid form or state of solution to each
pustule has been recommended by
Bretonean & Sene; the former cauter-
ised each pustule separately. The latter
made the application to masses of the
eruption. A very effective plan is to
open each pock as soon as it has become
vesicular, by means of a darning needle or
lancelet and then to apply a fine point of
Lunar caustic. My friend Dr L of this
city in 1863 treated some thirty cases of

Sinall-pot are adopted. This latter plan and with successful results in each case. Another method of causing the pustules to abate is the mercurial plan first suggested by M Brugiat. It is asserted that if applied at the begining of the eruption, it will produce a resolution of the papulæ; if at the vesicular stage it will cause the vesicles to dry up, or, at least prevent suppuration.

No injury results to the constitution (but as is asserted benefit from the diminished irritation) from the abortion of the eruption. The most effectual mercurial for this purpose is said to be the Emplast De Vigo of the French Codex. The effect is ascribed to the specific

action of the mercury. In that case it would seem that any preparation of mercury would answer equally well: as Ugo Hyd fort thickened with any Gum or New Root. The Application is made by spreading any of them thickly upon a piece of linen and applied as a mask to the entire face cutting apertures in the linen for the eyes, nostrils, and mouth. These applications would seem admirably adapted in confluent cases. Some do thus attributing the good effects of the masks to the exclusion of the air, and, wishing to avoid the risk of salivation have recommended other application. Dr J Hughes Bennet recommends Carb Zinci Fiz & Ova Zinci Fz to be mixed with Ol Oliva.

sufficient to make a thick crust, and
to be applied as before. Thick Iodine
applied to each pustule has been success-
fully used as an abortive to the eruption.
Among other applications for this pur-
pose may be mentioned as follows;
Collodion, Gastricidal collodion, solution
of Gutta Percha in Chloroform, and,
Liment Calcis

Sarracenia Purpurea.

This drug, (A botanical and chemical de-
scription of which, forms a part of this
essay,) was first brought into notice as
a remedial agent in Small Pox, by
Dr's Morris & Miles of Nali's & S.
who attributed to it extraordinary cur-
ative powers in this disease.

It is asserted to exert an alternative influence
modifying the eruption, and cutting
short the disease. It is also claimed for
it that, if given early in the disease it will
cause the eruption to abate so that, but few,
, if any scars or pits remain. This however
needs confirmation and, although by its
Draughting and Dative properties it
may prove usefull it certainly has not
justified the representations made of it.
The mode of administration by Dr Morris
& Miles was Sol Saracenum 3*i* Aquæ of
boil to $\frac{3}{4}$ ijij strain and give a wineglass
three times a day. Larger doses than this
are said to cause vomiting, but such
is not the case. as I have seen 4 times
the above dose given every 2 or 3 hours

without occasioning the least nausea.
It may also used in form of tincture
and fluid extract. I would regard the
dose in substance for an adult as
20 to 50 or 60 grains

I have never had opportunity to treat a
case of genuine Small Pox, but have
treated several cases of Varioloid with
results as follow

I R at 35 by trade a carpenter sent
for me on Saturday April 18th 163. He
thought he had taken cold, complained
of headache nausea pains in the back
and limbs, coothing up to be. Not knowing
of his having been exposed to contagious
influence, and, as yet there was nothing
peculiar in his symptoms I agreed with

him that it was cold and gave him as follows.

A magnes sulph 3vij

Magnes Usta 3vj

Vin Colchici qtt XXX

Tr Grecii 3vj

2 fl drs i Et Sij Take it bed time

Mixed in a tumbler of Cold water.

This operated freely some 5 or 6 times on the following day so that he felt much abatement of the pains in his limbs and back the fever was but little left, not much headache remaining. On Monday at 4 o'clock P.M I visited him: he had no pain complained of slight headache & fever but no nausea I gave him as follows;

I, Sol Br Carb 3ij

Pataq chlor 3ij

Spt mts dulc 3ij

2 fl mit Agnus font 3vj
Et Sij

2 tea-spoonfull every 3 hours.

Tuesday. Saw him again. Complaint of sore throat, and at the same time I observed an eruption of very small pimpls about the forehead and face. This determined to my mind the existence of varioloid and I so advised him. On examination the tonsils were red and swollen I gave a gargle Tannic Acid $\frac{1}{2}$ jij Aquæ $\frac{3}{2}$ jij to be used 4 or 5 times daily, and ordered a continuance of the fever mixture every 4 to 6 hours.

Two days later saw him again; the fever had ceased entirely, the throat was still painful. On examination I found several large ulcers for which I directed Pot Chlor $\frac{3}{2}$ jij to be dissolved in a pint of water and used as a gargle 4 or 5 times daily. The eruption on the face was now

declining on the face and about fifty
pimplies upon the extremities had passed
from state of papule to that of pustule
and were then declining. Only 2 or 3 of
the pustules on the face ulcerated and
left Scars. The throat having yielded
in the course of 3 or 4 days I discontinued
my attention respecting him to the
house about a week longer as the weather
was damp and disagreeable.

Laura A german woman Aet 31 $\frac{1}{2}$
sent for me Feby 12/64. Complaining
Headache, Nausea, Pains in the back and
limbs, had been vaccinated some 20 yrs.
previous; Bowels costive No appetite,
tongue furred, pulse strong and active.
Gave her Pill Cath Co No 2 P vj Dr. Phillips

at bed-time and 2 in the morning if repre-
-sented. 13th Saw her. She said she knew she
had small pox, and, that in the old country
(Germany) the Doctors always gave hot tea
to break the fever and felt confident that
If I would pursue a similar plan she
would be well much sooner. To this I
however objected and ordered

1. Sod Bi Carb 3ij
Potts Chlor 2ij
Vini Isorene 3j
Tinct Nit Aquea 3ij

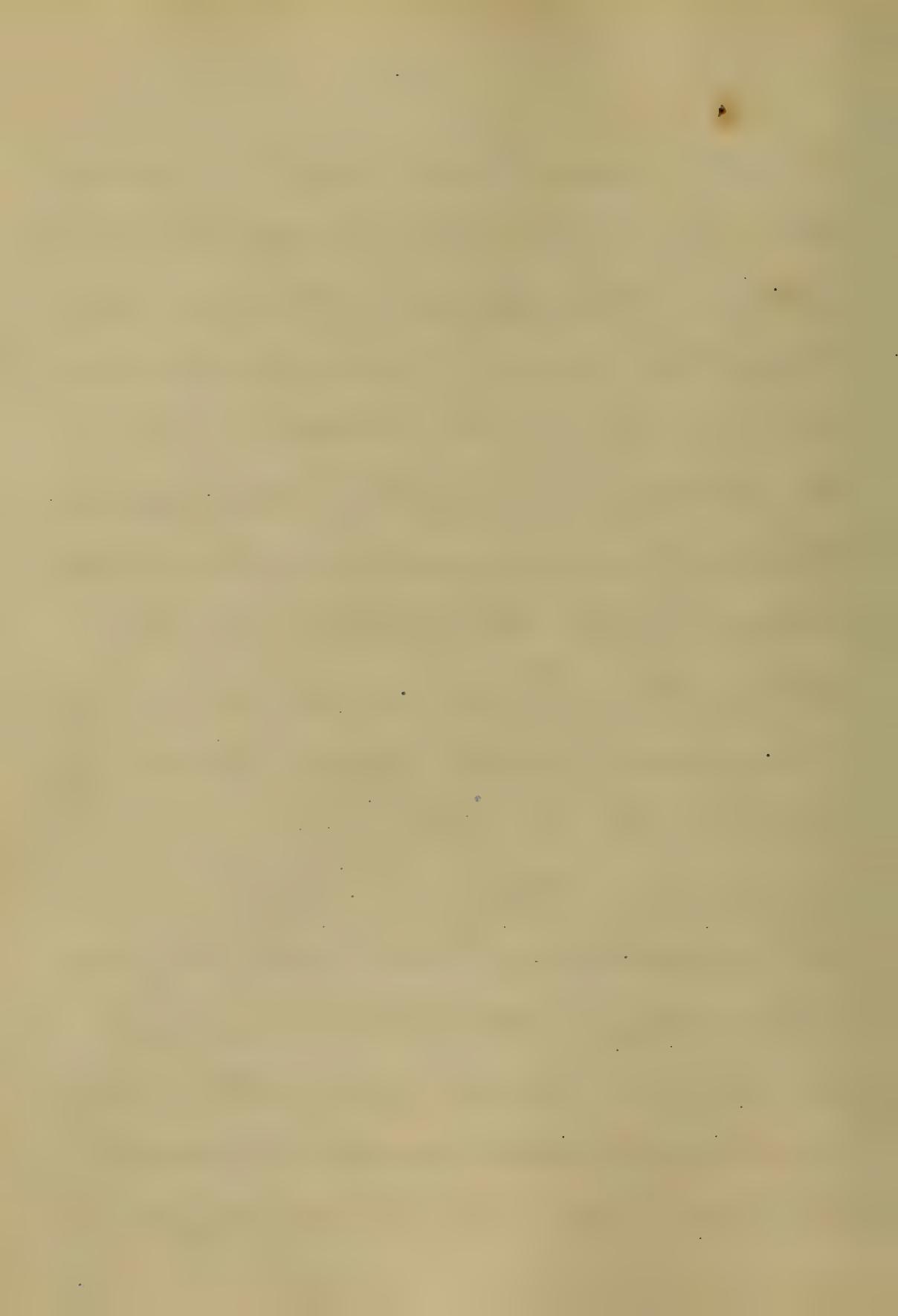
To be taken a dose every 3 hours
14th Visited her again; found
the fever abating; she was perspiring so
much, that, the night previous at bed time
she drank about a pint of boneset tea
hot. She stated she felt so much better
that she would like to repeat it at night

to this I at first objected; but thinking there
an opportunity - to try the Sarracenia I directed
an ounce of that drug to be made into a
Decoction with a pint of boiling water and
taken hot in wine glass doses every 3 hours
the next day, the eruption was appear-
ing on the face; the fever was abating;
the eruption was very copious and bid
fair to be a severe case. As the fever was
abating and the pains left seven. I prevailed
on her to discontinue the hot teas and sub-
stitute Cooling drinks and resume the
fever mixture as before. As she appeared to
have a hankering of cold water I permitted the
use of the Decret Sarracenia Cold instead
to allay her thirst. Next day the fever
was considerably less. Complained of sore.

throat, hoarseness and Cough. On examination I found the tonsils much swollen and numerous white specks in the fauces &c &c. I prescribed a gruel of Avo Jamie gr. 140
distill 3ij Use 4 times a day. She also complained of soreness and tightness about the Chest, rendering it painful to take a long breath. Auscultation revealed nothing that I could detect as morbid. I prescribed a Simple Cough mixture as follows:

Syr Scillæ 3j.
Vin Ant 3ij
Morph Acet gr. f
To fit Et 4ij A teaspoonfull every
4 hours: the breast to be rubbed at night
with Ol Terebinth to produce redness.

In a few days the soreness of throat had subsided; the white specks had resolved the eruption upon the face was desquamating



and in a few days more she was entirely
well. George, a german at 25 yrs.
by trade a Shoemaker called to see me
March 1st 1864, had been ailing some 3 or 4
days complained of headache, nausea, loss
of appetite, pains in the back and limbs,
tongue furred, pulse active and full, bowels
constipated; gave him ^{1/2} Mspf Atq 90 gr &
^{1/2} C. C. Co gr 1/2
Palo Specie gr 1/2
20 ft piece 3 dr. Take at bed-time also,
1/2 Sod Bi. Carb 3 dr
Potash Chlo 3 dr
Spt Nit dulc 3 dr
Aqua 3 dr
20 ft Dr 3 dr

A tablespoonfull every 1/2 hours : directed
him to go to bed. The following day visit-
ed him: the pills had operated freely; the
fever worse the pains in the limbs more
severe, and as in the case of his Sister-in-
law was anxious to have hot teas &c &c

I gave the Infus Sarracenia; as in the previous case hot. In 24 hours his fever was abating and pains entirely gone and the eruption (which however was very sparse) had appeared. In this case the brom. piles passed into pustules and then speedily dried up, and desquamated. In less than a week from the time the eruption appeared he was entirely well.

March 5th /64 Mrs T. a colored woman called on me for advice in reference to her child at 2 years. She stated that, the child had been ailing for about a week was cross and fretful, would not eat as usual, was restless at night and that in looking in her mouth, she observed some white specks on the tongue which she thought was thrush.

It being late at night. I gave her a powder.

Re Map Styx Pult

Pult Rhein an gr i v

Magnes Usta gr vij

Pult Ipomee gr 1/2

Pult Aromatic gr 1/2

No ff Et Lij Sij Give at once in sugar water

I directed her to bring the child to me the next day. so I could examine the mouth and

see what really was to be done for her

She brought her accordingly and when I

saw the child the eruption had passed into
the vesicular form: And as there was some

considerable fever I gave A, Pot Citrat 3f
Spt Nit dulc 3.

No ff Et Lij A teasp winefull every 3 fij

hours. I saw the Child 2 days afterwards;

the vesicles had become pustular, and

rapidly drying up. The Cough continuing I

Gave Re Spt Scilla 3fij Sij 20 drops every

Spt Nit dulc 3.

No ff Mist Glycer Co 3fij 3 or 4 hours.

In 3 or 4 days more the Cough yielded and
the child recovered rapidly. She had been
vaccinated one year previously.

The same Spring I attended some 20 or
30 cases with similar results; but as there
is nothing of particular interest connected
with their history, and, as my time is
limited. I must conclude this portion of
my essay without further statements.

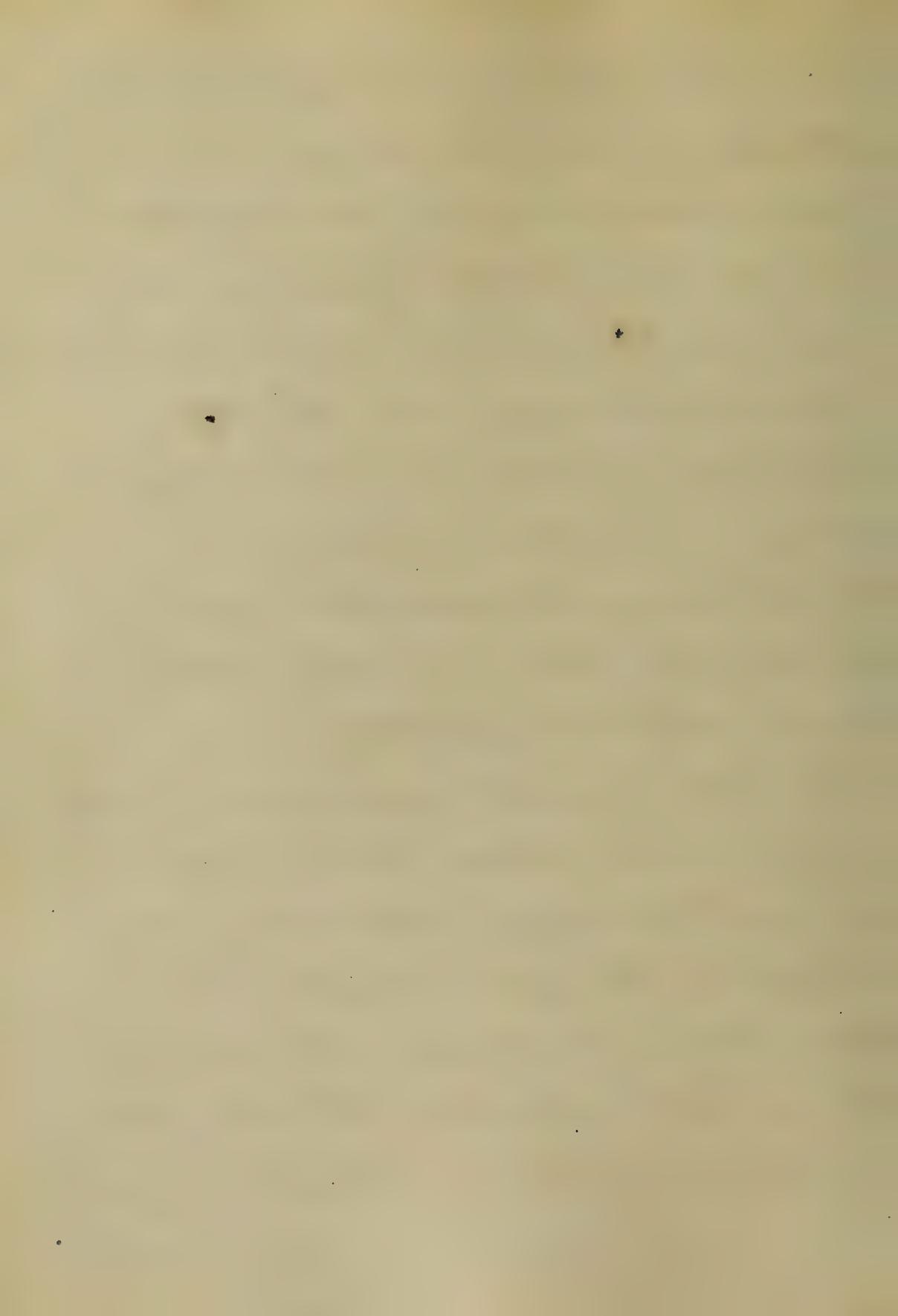
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Sarracenia Purpurea.

This plant having a few years since been introduced to the medical profession as a curative agent in the treatment of Variole by Drs Morris & Miles of Halifax Nova Scotia a botanical and chemical investigation may not be uninteresting.

The following botanical description of the plant is taken from Prof Alphonse Wood's clas book of Botany.

"This herb is aquatic growing in bogs or marshes with fibrous roots, perennial and, with the leaves all radical urn-shaped or trumpet-shaped and large flowers on Scapes. floral envelope 4-10 imbricated, the outer greenish Sepaloid. Stamens 8 hypogynous



carpels united into several celled
capsules. A curious order chiefly
remarkable for the leaves which are of
that shape called "Accidia". It embraces
at present 3 genera and 6 or 8 species;
the "Hedampnia" of Guiana, the "Darling-
tonia" of California; and the Sarcoeum
(named in honor of Dr Sarcoen of Quebec)
Sarcoeum. Calyx of 5 colored sepals
with 3 small bracts at base, persistent;
Corolla of 5 incurved, deciduous petals;
Stigmas 3-united into a large peltate
persistent membrane covering the
ovary and stamens; capsules 5-
celled; seeds very numerous, albu-
minous, leaves holding water, with
a wing on the front side and a hood,

(lamina) at top. Scapes 1-flowered.

Flowers, large, nodding.

Taraceum Purpureum. American Pitcher plant some times called Side Ladle flower. Leaves short decumbent inflated most near the middle; grows in bogs throughout Canada and the United States. This species is the most common, and, on it the genera was founded. Leaves 6-9 long rosulate ever-green composed of a hollow, pitcher form petiole, swelling in the middle, with a wing-like appendage extending the whole length inwards from $\frac{1}{2}$ to one inch wide, and extended on the outside of the mouth into a lamina covered above with several hairs. Their capacity when of ordinary size

is about a wing-span and, generally like the other species, they contain water with drowned insects. Scape 14-20 high, ~~more~~^{more} smooth, supporting a single, large purple, nodding flower almost as ~~common~~^{common} in structure as the leaves.

Chemical examination of the Leaves
Tannic Acid; An infusion Ratio 3:1 of
Cj Agave bullent treated with a solution
of Sesquichlorid Ferri gave a bluish black
precipitate. Solution of Gelatin added to
the infusion gave also a precipitate thereby
demonstrating the presence of Tannic Acid.
Gum. The infusion deprived of its Tannic
Acid by means of solution of Gelatine, and
treated with a solution of Tartarate of
Lead gave a precipitate of Gum.

Allium a cold infusion made by percolating the leaves (in state of moderately fine powder) with cold water, boiled air
Corrosive Sublimate added gave a curdy precipitate of Allium. Starch To a decoction of the leaves (ratio 3:1 ad 6) was added Imiture of Iodine which threw down a dark blue precipitate, the Iodide of Starch. Pectin. A quantity of the leaves, deprived of their coloring matter by macerating in cold water was percolated with a solution of Carbonate of Soda, on the addition of Hydrochloric Acid to the alkaline product, a precipitate was thrown down, which was collected on a filter and dried; this was insoluble in water, but soluble considerably when

mixer with the water; but dissolved imme-
diately in an alkaline solution, thus
giving the evidence of the existence of
Pectin. Resin. A incision was made
with Official Alcohol and evaporation
about the consistency of Syrup and then
thrown into water, this caused a precipi-
tate of Resinous matter which was strained
upon a filter and washed with water, and
then with Ether: this resin is a brownish
black substance which is odorous hard
brittle, and fusible: it is insoluble in water,
in Ether, and, the volatile and fixed Oils;
but dissolves freely in Alcohol and is sapon-
ified by the solution of Potassa. Fatty matter.
The leaves first exhausted by Alcohol and
treated with ether and evaporated left

a small quantity of fatty matter, which communicated a greasy stain to white paper and was not dissipated by heat; it was soluble both in the volatile and fixed oils.

Chlorophylle. This was separated by treating the ethereal extract with Hydrochloric Acid and precipitating the Acid solution with water. The leaves also contain a brownish yellow coloring matter soluble in water and also in Alcohol.

Extractive. A hot infusion evaporated to the consistence of a soft extract, and mixed with water, when filtered left upon the filter a considerable amount of a brownish black substance which was tasteless, insoluble in water but soluble in Alkaline solutions and in Alcohol.

Sugar. An alcoholic extract about the consistence of honey was diluted with water and filtered;

to a portion of the filtrate in a test tube was added a solution of Sulphate of Copper, and must be kept in excess; it was carefully heated to boiling, and allowed to boil for a few minutes, when a reddish precipitate (oxide of Copper) was deposited. Volatile oil. A quantity of the leaves was introduced into a retort (to which was immediately adapted a receiver) and water sufficient to prevent cymrysma added upon the application of heat to the retort, a small quantity of a light greenish colored oil was found floating on the surface of the distillate. Some of the oil was placed upon which paper and suffered to evaporate "Sponti Seca" and left no greasy stain. Saracessina. A quantity of the leaves was boiled with Dilute Sulphuric Acid and filtered to the filtered Acid decocation was added,

a solution of carbonate of Soda; this precipitated a reddish brown granular substance, which was deprived of color by being boiled in Alcohol mixed with animal charcoal. It is a white granular substance not unlike Salicin in appearance. It is readily dissolved by the dilute Acids, and capable of forming salt. If desirable the Acid decomposition may be precipitated by either Potassa, Ammonia, or Lime as well as Soda; but, as the Soda Salt is more soluble than the others, I prefer it as the precipitant, it being more readily separated. The alkaloid, Sarcoecinum was also obtained by adding Chloroform to a mixture of the leaves made with dilute Alcohol, Agitating the mixture well and pouring off the Chloroformic solution: upon evaporation, the granular sub-

stance was left similar in appearance to that obtained by the first method.

Ashes. A quantity of the leaves was incinerated and yielded about 3.04 per cent of the amount of leaves employed. The ashes were then washed with distilled water and allowed to stand for some time and filtered the filtrate being tested gave the following results)

Potassa. A solution of Br' Chlor Platina caused a light yellow precipitate. Soda, Antimoniate of Potassa gave a white precipitate.

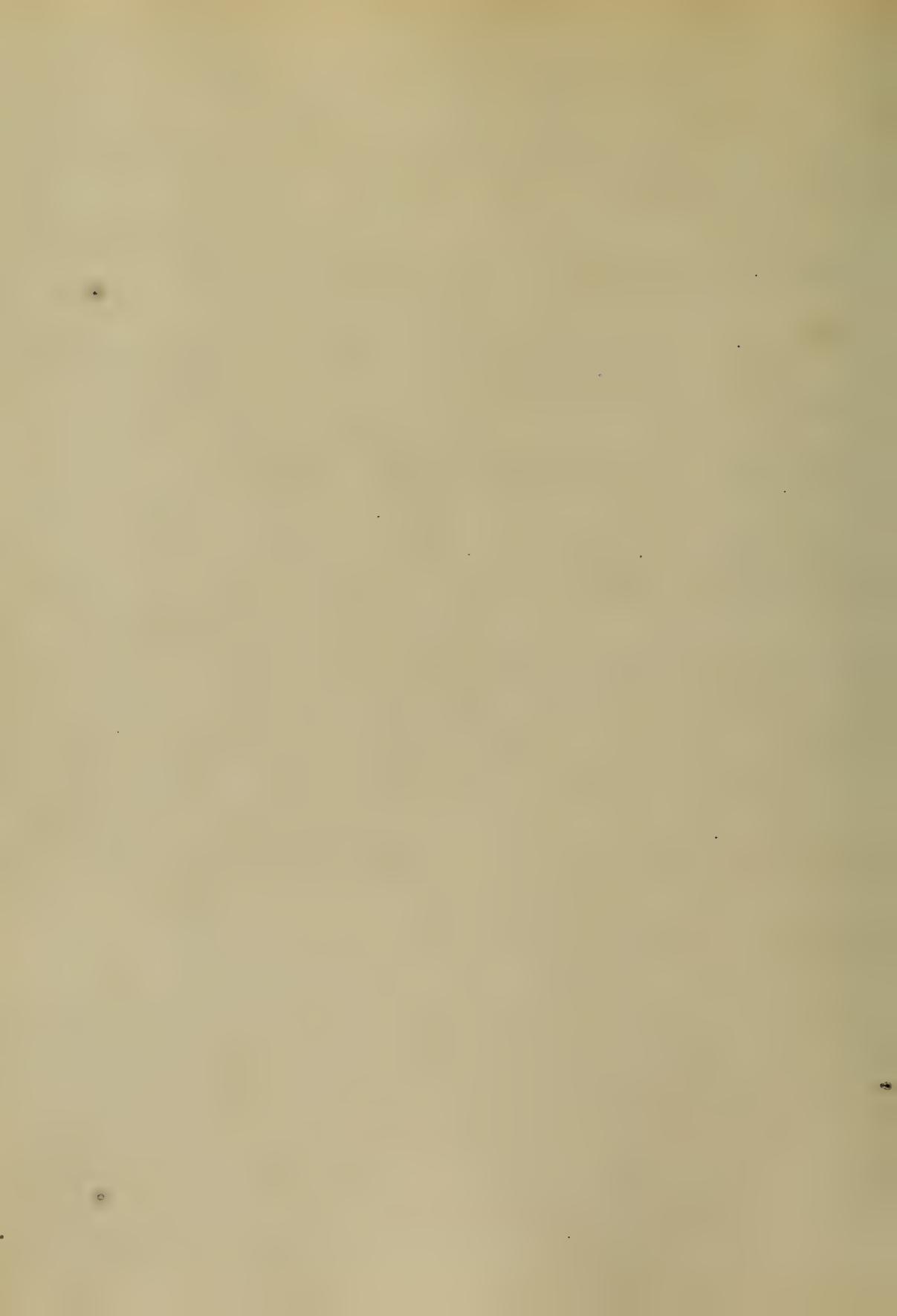
Iron. A solution of Farnum Acid added to the solution of Ashes (I should have stated that previous to adding any of the test, the solution was acidulated with Acid Hydrochloric which caused a brisk effervescence) produced a bluish black color. Copper. A solution of Ferro-gummit

of Potassium added caused a brownish color which was slight showing the presence of Copper in minute proportion. Since a solution of Oxalate of Ammonia caused a copious precipitate of Oxalate of Zinc. Magnesia. Lit. Ammon was added to the acidulated solution in excess, and then a solution of Soda Phosph added this precipitated the Magnesia as a double phosphate of Magnesia and Ammonia, entirely soluble in Chloride of Ammonium. The Constitut. of Sarracenia Purpurea may thus be summed up as follows Organic Matter 97.96
Inorganic .. 2.04
100.00.
and may be stated as follows Tannic Acid,
Gum, Alumina, Pectin, Sugar, Resin, Extractin,
Fatty Matter, Chlorophylle, Volatile Oil,

Lignum, and Sarcocinna, together with the
inorganic substances, Potassa, Lime, Iron,
Soda, Magnesia, &c &c. The experiments
of the Ashes would have been carried still
farther but for want of time, and also
the very small amount of the drug ex-
perimented upon.

As it may be desirable to administer the
drug in form of a fluid Extract I sub-
join the formula, which after a number
of experiments - seems to possess the
medical properties in the greatest degree.
Take of the leaves in moderately fine
powder 16oz Troy. Alcohol diluted viz.
Alcohol 3 aqua 1. Moisten the drug thor-
oughly with this menstruum and pack
firmly in a percolator and percolate until

10 fluid ounces have been obtained, which, is
to be set aside and the percolation continu-
ed with Alcohol 3 pts Aquæ Opt; until
22 oz have been obtained, this latter product
is to be added to the 10 oz first obtained
and the resulting mixture filtered. This
is of a dark greenish brown color and con-
tains the medicinal and sensible properties
of the drug in a high degree, and may
be given in doses of from 15 drops to one
or two dramsful; 2 drops of the fluid rep-
resenting one grain of the drug.





An
Inaugural Dissertation
On
The Cerebrum;
Submitted to the
Board of Examiners and Professors
of the
Faculty of Physic
of the
University of Maryland.
For
The Degree of Doctor of Medicine
By
Gustavus W. Fletcherbridge,
of
Maryland.
A.D. 1866,

The Cerebrum.

The Cerebrum or Brain proper, so called, is that portion of the Encephalon which occupies the whole of the cavity of the cranium, excepting the inferior occipital fossa. It is seven times greater than the cerebellum and forms about two thirds of the brain. It is, as it were, the crown of the spinal axis. The Tegmentum cerebelli completes the cavity in which it is enclosed, and forms a separation between it and the cerebellum.

The size of the Cerebrum is, undoubt-
edly, one of the most striking charac-
teristics of man. The weight of it has
been variously estimated from two to
three pounds in the adult subject.
A median fissure, the longitudinal,
extends longitudinally from the anterior
to the posterior extremity. And in this fissure
is lodged the Falx Cerebri, dividing the
Cerebrum into two lateral hemi-
pheres.

Each hemisphere presents for our consideration three surfaces, an external, internal and inferior. There is also another one traversing the cerebrum superiorly, the Tissue of Sylvius which extends transversely across the Superior surface, corresponding with the posterior border of the lesser wing of the Sphenoid bone, into which it is received.

According to some anatomists, the inferior surface of the cerebrum is divided into two lobes, but later anatomists describe it as having three lobes, the anterior, middle, and posterior, which is the view we shall adopt. The anterior lobe rests upon the orbital plate and the frontal bone, it is often termed the orbital lobe, it is divided from the middle one by the Tissue of Sylvius. The middle lobe is received into the middle fossa of the Sphenoidal bone, at the base of the brain, it is somewhat joined by the convex Sphenoidal portion of the posterior lobe, and has been called



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the Sphenoidal bone, The posterior lobe
rests upon the Sphenoid temporal fossa
and the Tentorium cerebelli, the division
now between this and the middle lobe
is only an imaginary one, this lobe
has been called the Temporal lobe,

The entire superior surface of the
Cerebrum is marked by a great number
of deep, winding furrows, which divide
it into as many oblong eminences, these
eminences have somewhat the appear-
ance of the convolutions of the small
intestines, and on this account have
been termed Convolutions, Gyrus, meander,
and processus Entorhinalis, the separations
between these convolutions have been
designated the anfractuosities of the
brain.

It is impossible to de-
termine the exact number of these con-
volutions, as they have no appreciable
limits, Each convolution presents to
our notice two surfaces a base or adhe-
rent, and a free border the surfaces of
the corresponding convolutions are divided

upon each other, the base or adhærent border of each convolution is continuous with the central portion of the hemisphere; but the free border is slightly rounded, so that between any two contiguous convolutions there is a small groove, the arteries and veins which pass over the free borders of the convolutions form grooves upon them, of various depths. The convolutions constantly found upon the anterior lobe are the small, straight longitudinal ones, which bound the groove of the olfactory nerve, while those found upon the middle and posterior lobes run along the great transverse fissure and are a continuation of the convolutions of the corpus callosum.

The function of these convolutions has been difficult to decide. Those of intelligence, phrenologists have concluded that there is a plurality of material instruments, or organs, by which the intellectual operations

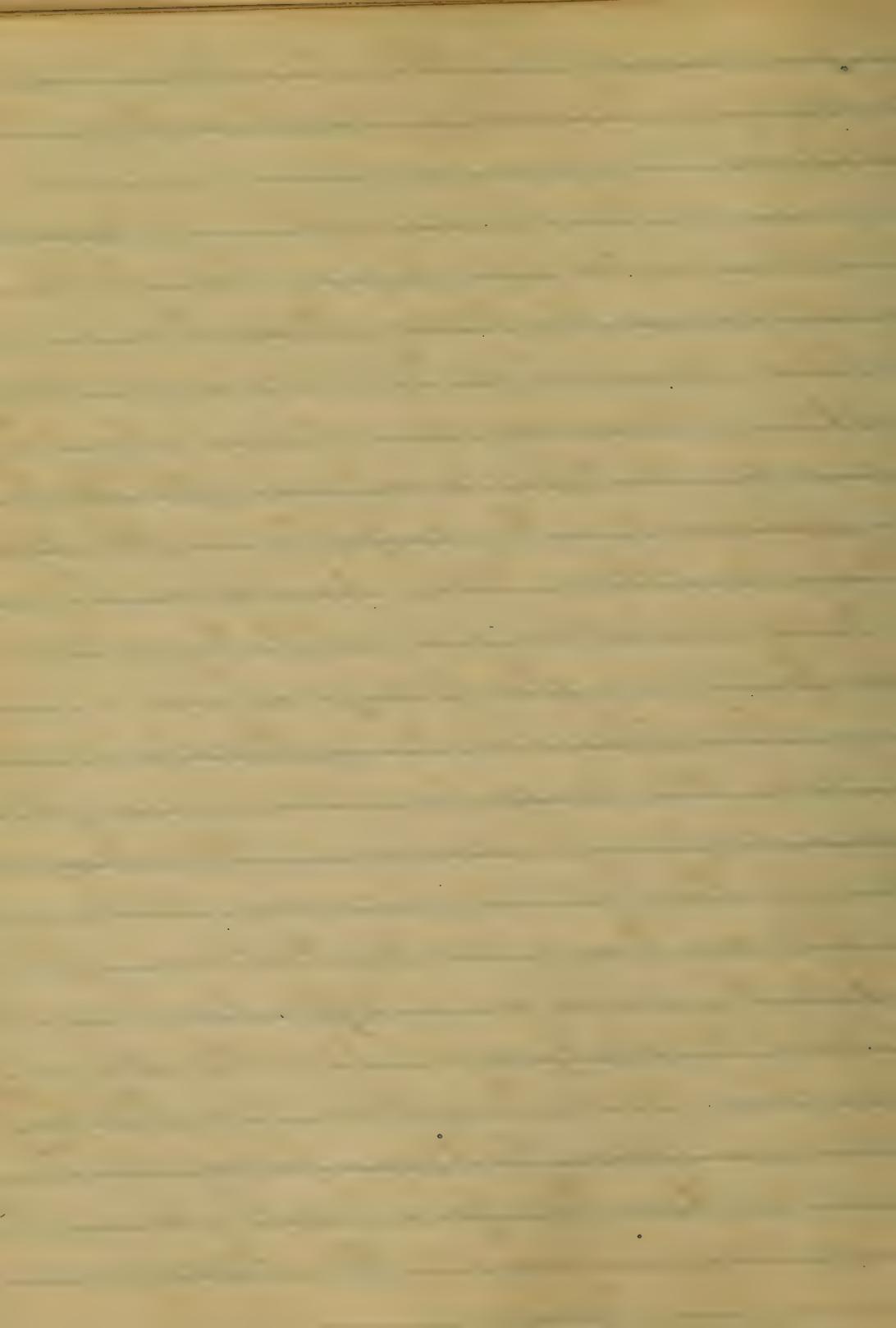


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are performed, and these material instruments have been supposed to be these convolutions.

The whole of the cerebral Cerebrum is made up of two distinct substances, a gray, Cerebellous or Cortical, and a white or medullary matter. And in each convolution we find a central nucleus of the medulla, surrounded by a portion of the cerebellous matter, and this cerebellous or gray substance constitutes about five sixths of its composition.

On the Centrum Ovale Major, that is, the presenting surface of the brain, after the removal of the upper part of the lateral lobes, is seen a medullary band at the bottom of the longitudinal fissure extending from one cerebral hemisphere to the other, thereby connecting them together, constituting a commissure between them. This band is the Corpus Callosum, the great commissure of the cerebrum.



On the removal of the upper part of the hemispheres, it will be seen that they encroach upon the Corpus Callosum, and in a measure, as it were, overhangs it without adhering to it, the interspace thus caused has been in proportion to the ventricle of the Corpus Callosum.

This great commissure reaches much nearer to the Anterior than to the posterior boundary of the cerebrum, being an inch and some lines distant from the former, and about two or three inches from the latter. It forms the Corpus Callosum resembles an arch or vault, its length is about three inches and a half, and its breadth an inch and a half, it is broader behind than before, its thickest part is at the posterior portion, being here about three lines.

This body has two surfaces, and two extremities that claim our attention, the Superior, and Inferior Surface, and the anterior and the posterior extremity. The Superior Surface is convex and

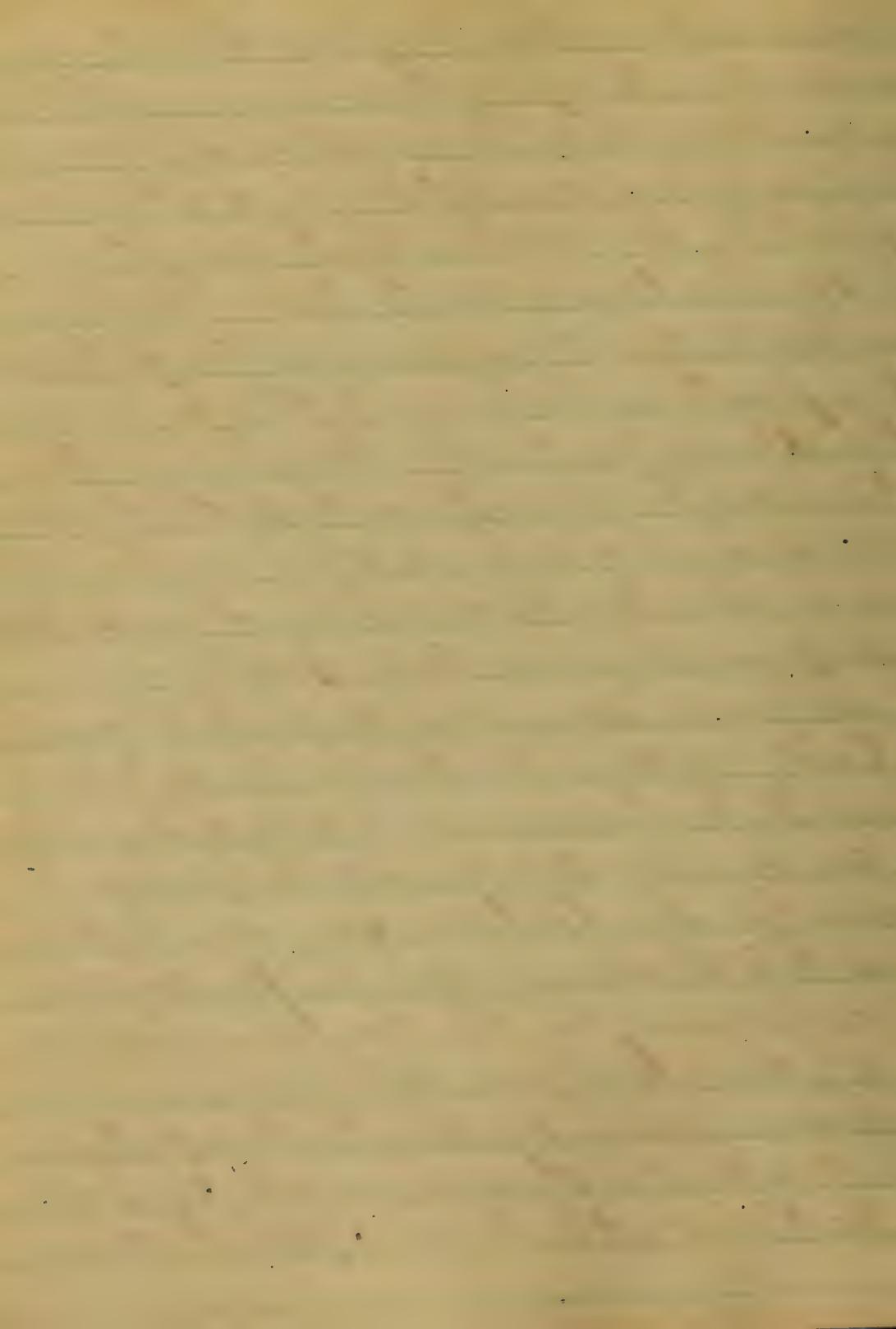


as it were, arched from before backward,⁷
it corresponds with the hemispheres
on each side, the inner surface
is concave, and free over a greater part
than the Superior, this surface is covered
by the serous membrane of the ventricles
and like the Superior is fasciculated.

The Anterior extremity is reflected
and embraces the Corpora Striata
while the posterior which is the thinnest
part is slightly convex transversely.

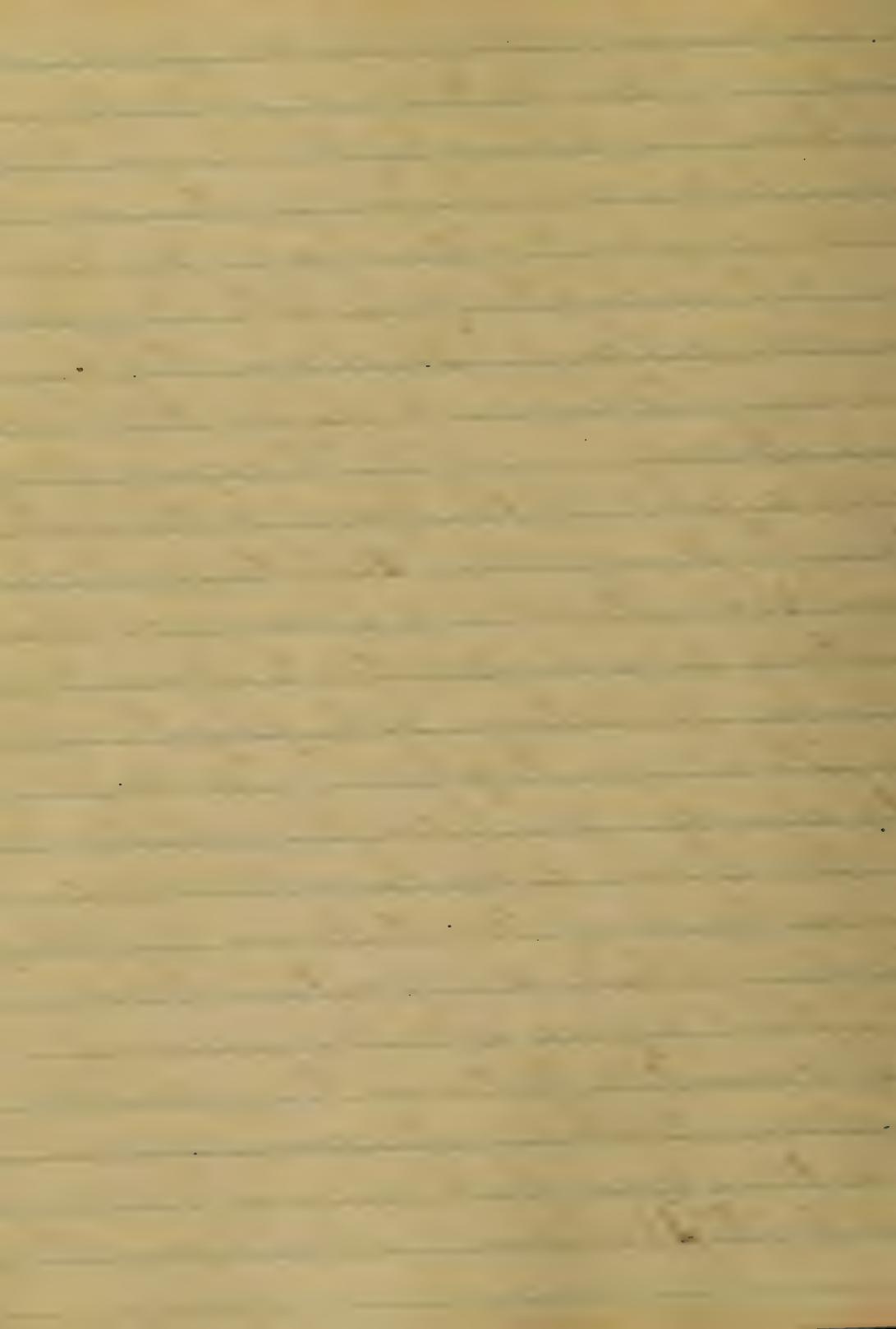
Beneath the Corpus Callosum
in a median line is the Septum
Lucidum, velum Interposition,
and the third Ventricle, and at its
sides are the lateral ventricles, Below
the posterior border of this Commisura
is seen a transverse fissure, which ex-
tends between the hemispheres and the
Cervix Cerebri, and it is through this
fissure that the Pia Mater Communicat
with the velum Interposition, along
the centre of the corpus callosum super-
iorly is a linear depression which will
contain

On each side of the Septum lucidum,
beneath the Corpus callosum, is to be
seen an irregular triangular space,
extending from one extremity of the hemi-
sphere to the other, these cavities
are the lateral ventricles. Each of
these ventricles commences in the substance
of the posterior lobe, a little in front
of the third ventricle, and behind the
anterior reflected extremity of the Corpus
callosum, by which they are bounded
above. The ventricles have three surfaces,
the superior, inferior and posterior.
The Superior Surface may be termed
the body of the ventricle, it is broader
in front than behind, and has a superior
and an inferior wall, The Superior wall
is formed by the Anterior Surface of the
Corpus callosum, while the inferior
wall is formed by the ventricular sur-
face of the Corpora striata, The
inferior surface, the reflected portion
of the ventricle descends into the pos-
terior portion of the base of the brain.



The posterior surface is the occipital portion of the ventricle. The ventricles are bounded above by the corpora pallidum, internally by the septum lucidum which separates one from the other, and below, by the corpora striata, genia semicircularis, thalamo opticci choroid plexus, corpus fimbriatum and fornix. The corpora striata form a part of the floor of the ventricle. These bodies receive their appellation from their striated appearance, their posterior ends are separated from each other by the velum interpositum of the thalamo opticci. The corpora striata are the ganglia of the cerebrum.

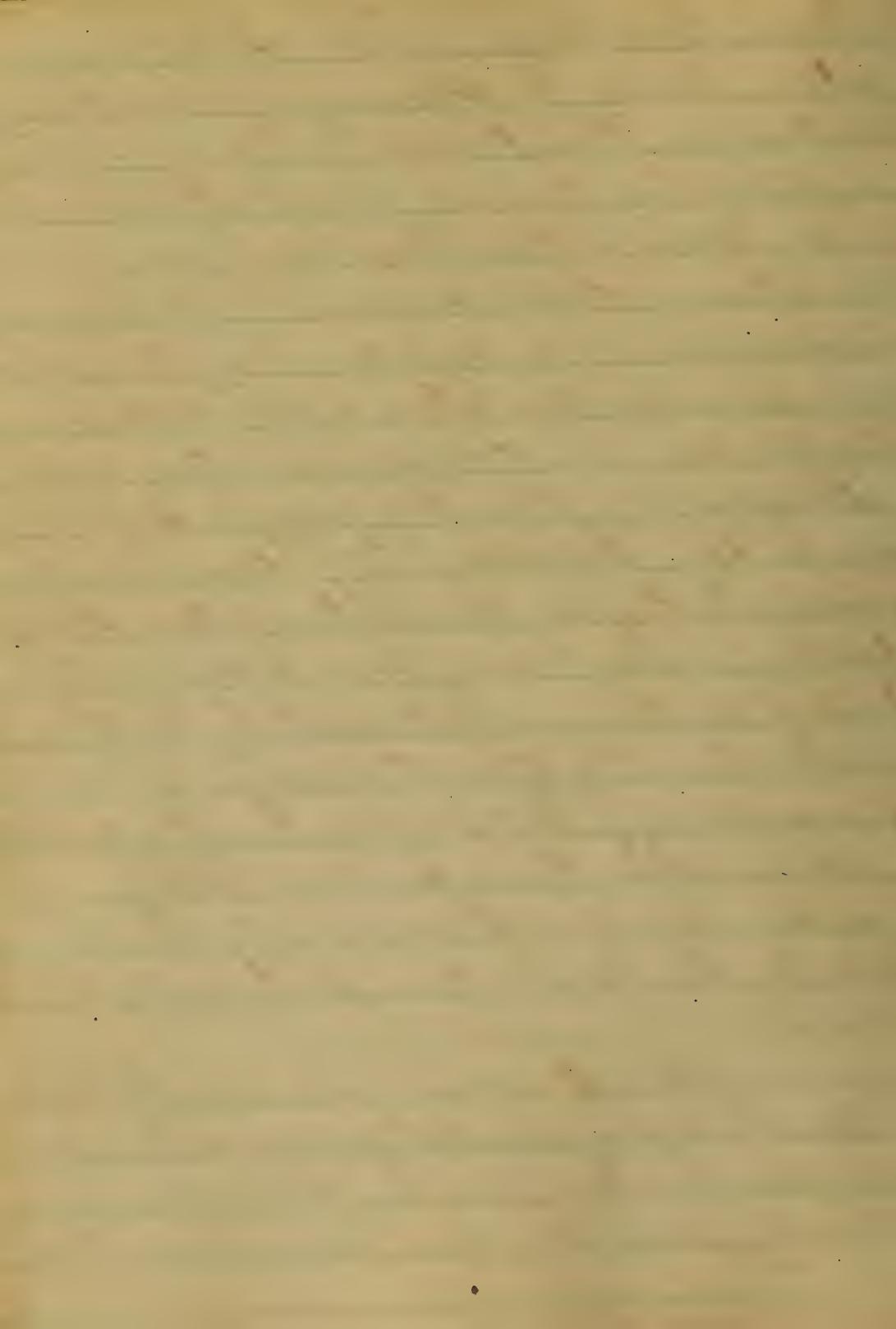
The genia semicircularis is a narrow band of medullary matter, extending along the posterior border of the corpora striata, serving as a connection between them and the thalamo opticci it receives nerves and arteries from the corpora striata and optico thalami, which terminate



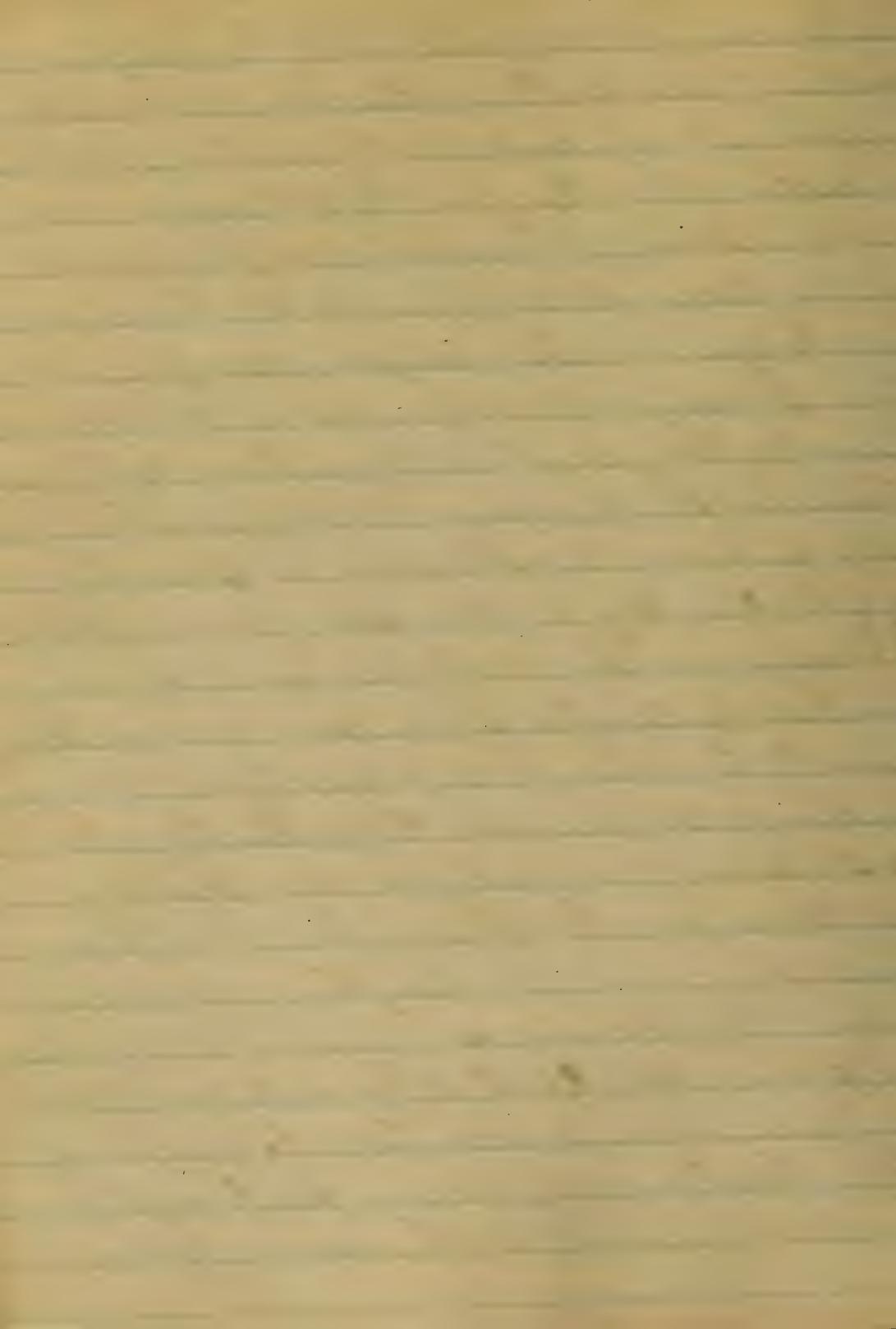
the Vena Galeni, The Thalamus Opticus may be known from having a ventricle, the third between them, and also by giving rise to the second pair of nerves, the Optic, from which they derive their name. The Choroid Plexus which is a network of vessels may be seen on the floor of the lateral ventricle, and it communicates with the Plexus of the opposite side through the Foramen of Munroe, an opening between the lateral and third ventricle. The lining membrane of the ventricles adheres intimately to the inner border of the Choroid Plexus. It consists of vascular fibers unlike any other structure in the body.

The Corpus Trinitatis is formed by the reflected part of the Fornix.

The Fornix is a fibrous band of the dura mater situated beneath the Corpus Trinitatis posteriorly, and the Septum lucidum



anteriorly, it resembles a triangle,["]
having an anterior angle somewhat
bifurcated, and is connected posterior-
ly with the Corpus Callosum. In
front the Fornix terminates in two Cruva
which arch downward to the base of
the brain. The Superior surface of
the Fornix corresponds in the median
line to the Septum Lucidum in front
and to the Corpus Callosum behind.
The Choroid Plexus is sometimes
reflected upon the surface of the
Fornix. The inferior surface of
this body rests upon the velum Inter-
position which separates it from
the third ventricle, and the Optic
Thalamus; its edges are thin and
free and are bordered by the Choroid
Plexus. The Septum Lucidum
is the thin lamina which separates
the lateral ventricles from each other,
being situated in the Median line
of the Anterior, inferior portion of
the Corpus Callosum from

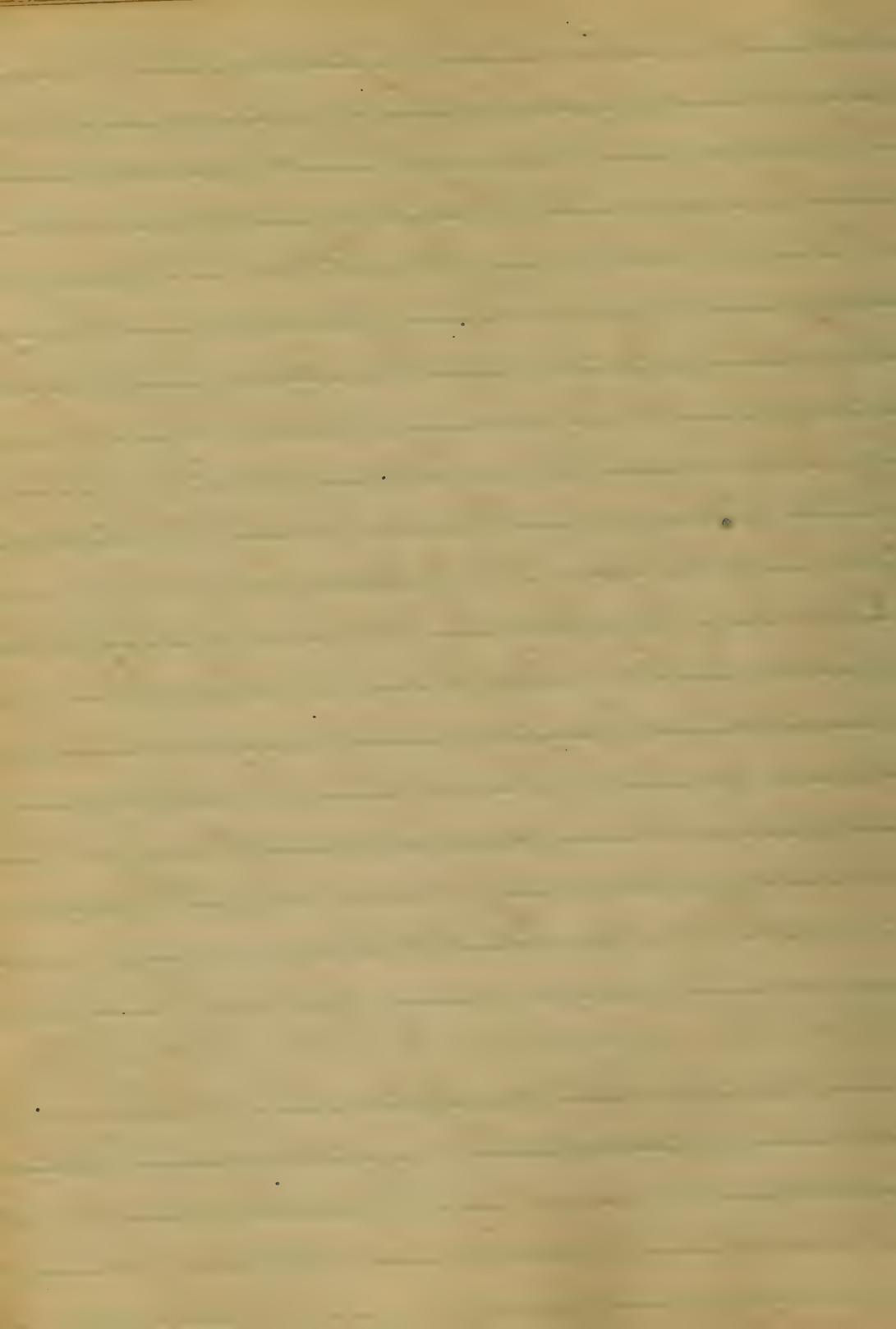


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which it extends. The cavity between
these laminae is called the fifth
ventricle. Each ^{Laminae of the} Septum lucidum
consists of a median layer, covered
on the outside by the Membrane
corresponding lateral ventricle, and
on the inner side by the Membrane of
the fifth ventricle. The Velum
Interpositum is a vascular membrane,
a prolongation of the external Pia

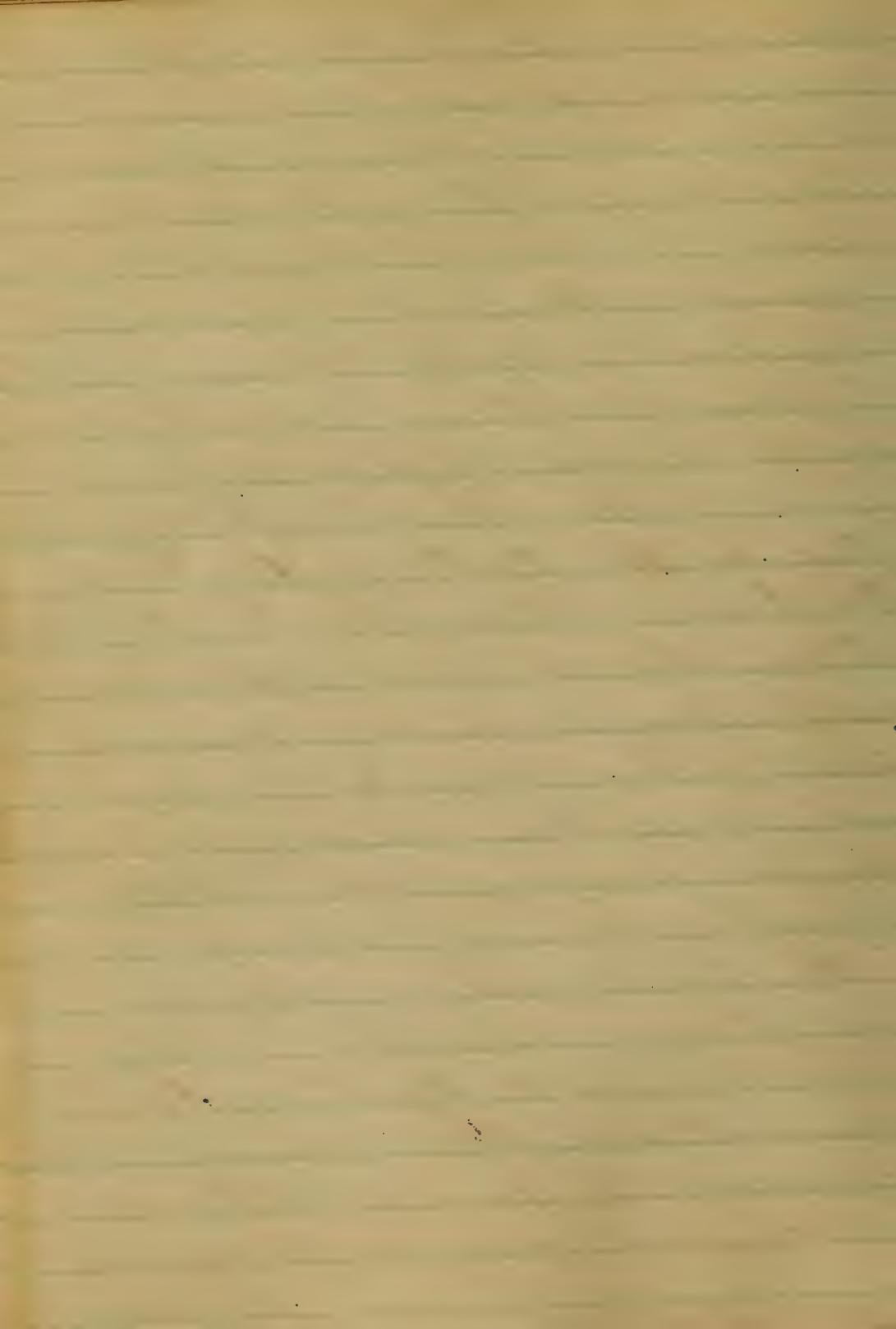
Mater, the Superior Surface of it
is covered by the Optic, the inner
surface forms the roof of the
third ventricle, and corresponds
on each side to the upper and inner
part of the inner surface of the Optic
Thalamus, and adheres very closely
to the Pineal Eland.

The Pineal
Eland is a small reddish Gray body,
of a conical form, situated in the
median plane of the posterior Com-
missure, behind the third ventricle
and between the two Thalami on which it
rests.



It is retained in its position by the
Culum Interpositum, below which it is situated, and by which it is suspended;
it has been considered the Seal of
the Soul, and that it directs all the
movements of the body by means of
the peduncles of the Cerebellum, which
have been considered as the Gular-
nacula or veins of the Soul.

The Third Ventricle is
situated in the centre of the base
of the brain between the two Optic
Thalami, and in front of the Corpora
Quadrigemina, it is a narrow
cavity, oblong from before back-
ward, It is bounded superiorly
by the inferior surface of the Cerebellum
Interpositum which is suspended
from the Choroida Fissus of the
ventricle. The floor of the
Third Ventricle is of greater extent
than the walls of the cavity, it is
concave on its Superior or Ventriculosal
surface, and convex on its inferior
surface.



The Third Ventricle is crossed by
 three Commissures, the Anterior, Middle,
 and Posterior, The Cervical Commissure
 is a rounded white cord,
 which enters the Corpora Stricta
 at either side; the Middle or
 Soft Commissure consists of a
 grey substance which is continuous
 with the grey lining of the ventricle;
 it connects the adjacent sides of
 the Thalami Optici anteriorly;
 The posterior commissure is
 smaller than the anterior, it is a
 flattened white cord connecting
 the Thalami Optici posteriorly.
 The ventricle is bounded posteriorly
 by the Velum Interpositum, laterally
 by the Thalami Optici, anteriorly
 by the Anterior Commissure and the
 Cura of the Fornix, posteriorly by
 the posterior commissure.

The Corpora
 quadrigemina, or optic lobes are
 two pairs of medullary bodies situated

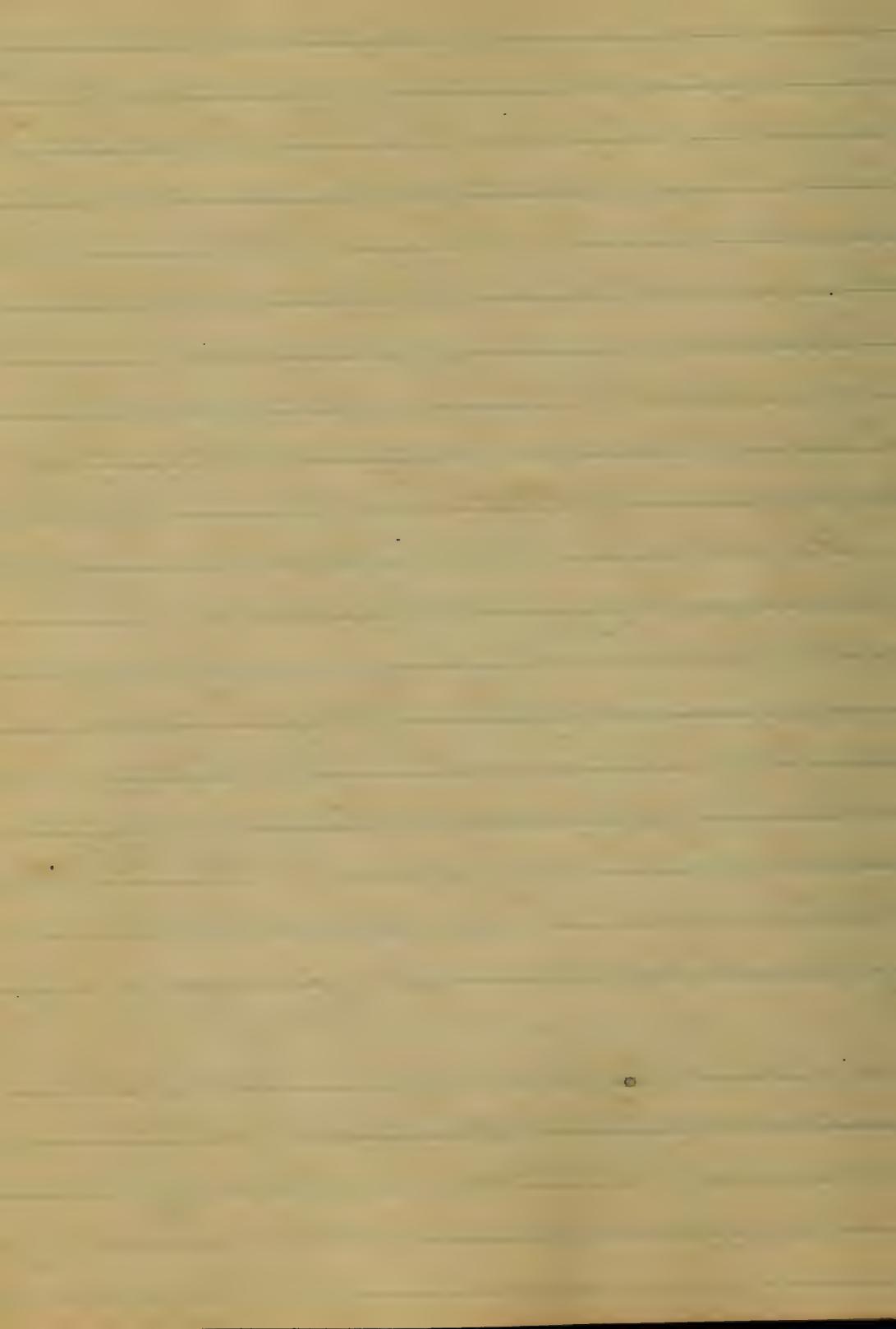
behind the Optic Thalamus, Posterior
Commissure, and beneath the posterior
border of the Opticus Pallidum. The
anterior pair of these are gray in colour
and are termed The Nodules. The posterior
pair are much smaller, and are called
The Pestles. The Corpora quadri-
gemina are perforated longitudinally
through their base by the aqueduct
of Sylvius. Their substance is med-
ullary externally, and gray or connective
internally.

The Fourth Ventricle is
more properly speaking a ventricle
of the cerebellum than of the brain.
It is situated between the Pons
Varolii, cerebellum and the Mamma
oblongata. It is lozenge in shape
and form, and is bounded on each
side by a thick cord extending between
the cerebellum and the corpora quadri-
gemina, and by the corpora restiformia.
The floor of the Fourth ventricle is
formed by the Calamus scriptus, an

Its roof is the valve of the brain,¹⁶
The Fifth Venticle is that cavity
situated between the two thin laminae
of the Septum Subciliatum, the opening
to which this ventricle communicates
with the other ventricles is yet un-
determined, the Corpora Albicantia
are two small white pectoriform-like
bodies, having the shape and size
of peas, they are situated between
the Puber Nervorum and the nerva
Cerebri, they form a part of the
Corpora Striata.

The Nura Cerebri
or peduncles of the cerebrum are
two thick white cords which issue
from the anterior border of the Pons
Varolii and diriggo latera the
Corpora Striata.

The Cerebrum also
gives origin to four of the twelve pairs
of cranial nerves, viz; the first,
Second, Third and Fourth, They
arise as follows; the first or olfactory



have rises by three roots: an inner, from
the posterior part of the Anterior lobe,
a middle one, from the Gray matter of
the middle lobe, an external or long
root also from the middle lobe.

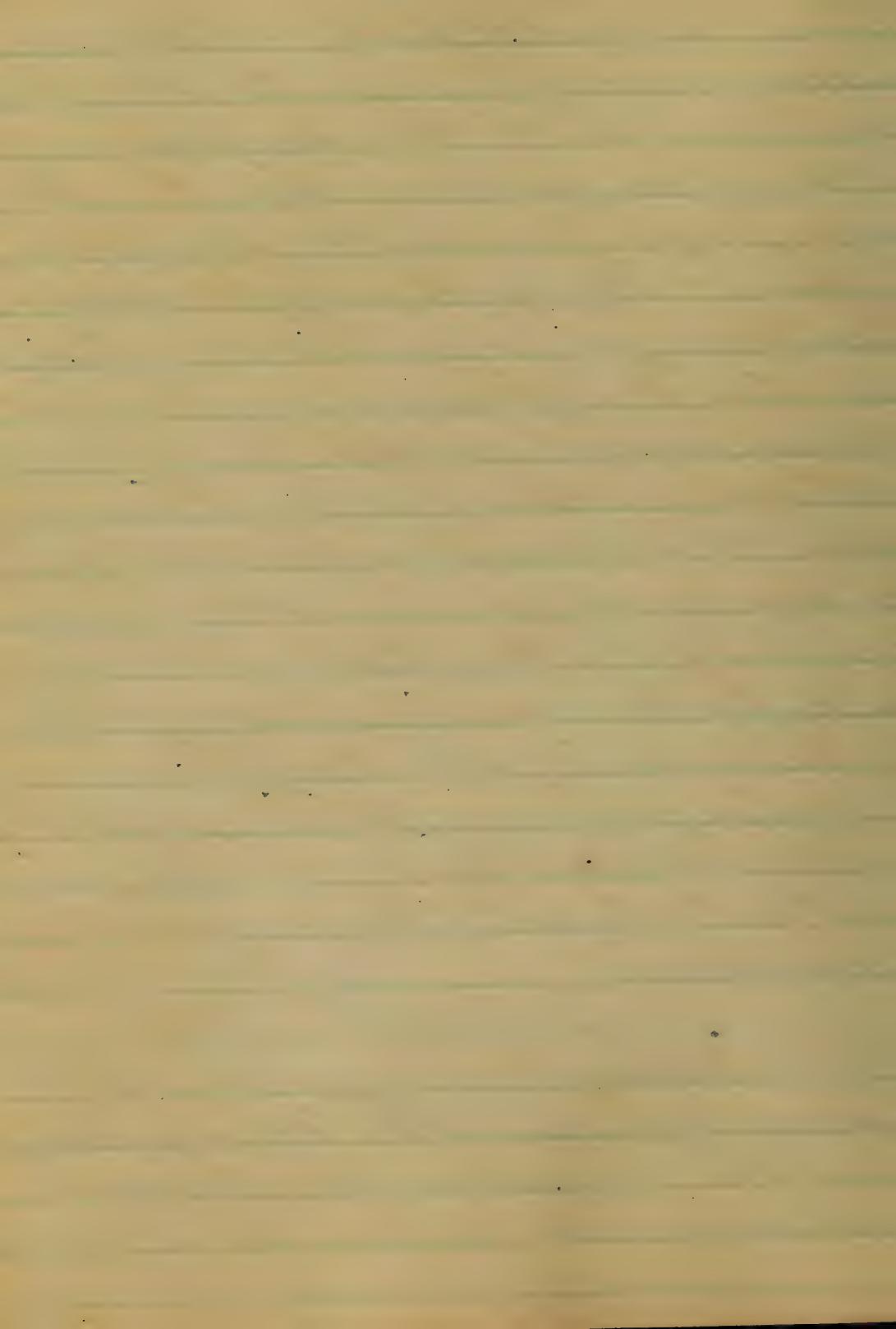
The Second pair or Optic nerve
rises from the Lateral Geniculata,
the Thalamus Opticus, or from
the Corpora quadrigemina. The
Third pair or Motore Cerebellum
rises from the Cervix Cerebri near
the Pons Varolii. The fourth pair
or the Pathetic nerve rises from the Ante-
rior portion of the Corpora quadrigemina.

Finally, the Cervix.

Considered on the whole is therefore
how of the Nervous Centers which is
undeniably in them the most predominant
Characteristic organ of his whole material
frame. It is also the instrument
of all the Psychical operations
and the organizer of all those move-
ments which could not be assigned
to the reflex action of the spinal cord.

It is also the organ of intelligence
as well as the seat of the greater
functions, and in the Hemispheres
reside the power of directing the
mind to particular Sensorial im-
pressions. The portion of the hemi-
spheres that possesses these elevated
powers are the Convolutions. The extent
of these convolutions is to be found
as extensive a surface to cover
matter in as small a space as possible.
By this arrangement a more ready
access is permitted to the blood ves-
sels on the one hand, and on the other
with the vast number of fibers by
which its influence is to be propagated.
The Cervical Nerve is the prin-
cipal conductor of impressions to
the cerebrum.

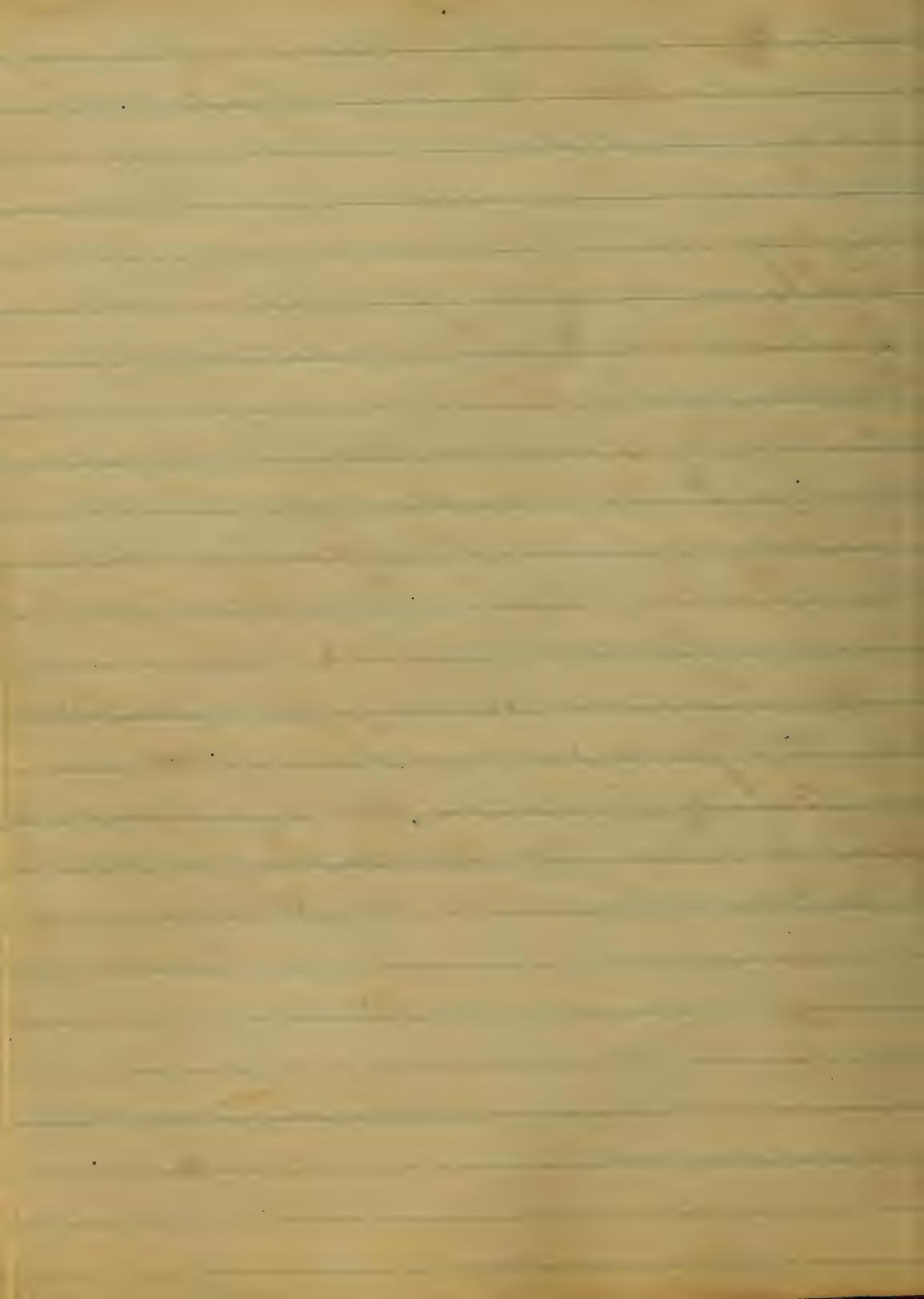
The functions of the
cerebral hemispheres upon the whole
are those by which the mind first
receives those clear and more precise
sensations which it can retain.



judge accordingly. Secondly, but among those acts of will, each of which requires a deliberate, however quick, determination. Thirdly, retains impressions of sensible things and reproduces them in subjective sensations and ideas; Fourthly, manifests itself in its highest and peculiarly human emotions, and feelings, and in its faculties of judgement, understanding, memory, reflection, induction, abstraction and others of like class.

The central hemispheres are thus the organs by and through which the mind acts in all its operations, which have an immediate relation to external and sensible things,

Finis.



AN

Inaugural Dissertation

ON

Influenza

SUBMITTED TO THE EXAMINATION
of the

Provost, Regents and Faculty
of

PHYSIC,

of the

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

Doctor of Medicine,

by

John S. Gackus

of

Baltimore, Md.

Session

18 : 00.

The Lucy disease, as it has been known
as the earliest winter disease, has been
accepted from a variety of sources, of its
most prominent symptom it has received
a great many different names and has even
been considered a new disease. Among the writers
from Hippocrates to Sedgwick, however, it
has been quite well known, although under
different titles. The Flakens gave it the name
Influenza, the influe ^o, taking the name
over the effect. Gellibrand, in his Histroy, calls
it Calarrhus ^o Cough, Calarrhus from Calaris
obligatores causa' subtilis calaris or epidemic
epidemic Calaris ^o and we have now
Siffler's Calaris. Glass' Epidemic, ^o like
Soy. ^o a French physician named Grpp
Sme due that this is a new disease
was mentioned by Cullen, afterwards

much puffed at once. When so, you
are almost dead. The most dismal
thing records is never a case of death so.
But again other signs went on, and
therefore the conclusion is upon that it was
the same disease. I do however, give 16/3,
the year previous. It was autumn
like summer, till toward the end of October,
and being suddenly succeeded by cold and moist
weather; a cough became more frequent than a
few number to have known it at any other
time; for scarce anyone can escape, and
sized while families are in trouble.
It is evident that a great number thought
that it was an epidemic; for the words
'scarce a week went by' a la b'
evidence. etc.; and few would call it
an epidemic Cough; and as we know that

it differs from epidemic, it is additional
proof that it is a distinct disease.
Yankee. The origin of it is often however
indistinct from that of the Asiatic Epidemic,
and the "Vermilion Lijf," a variant
name disease.

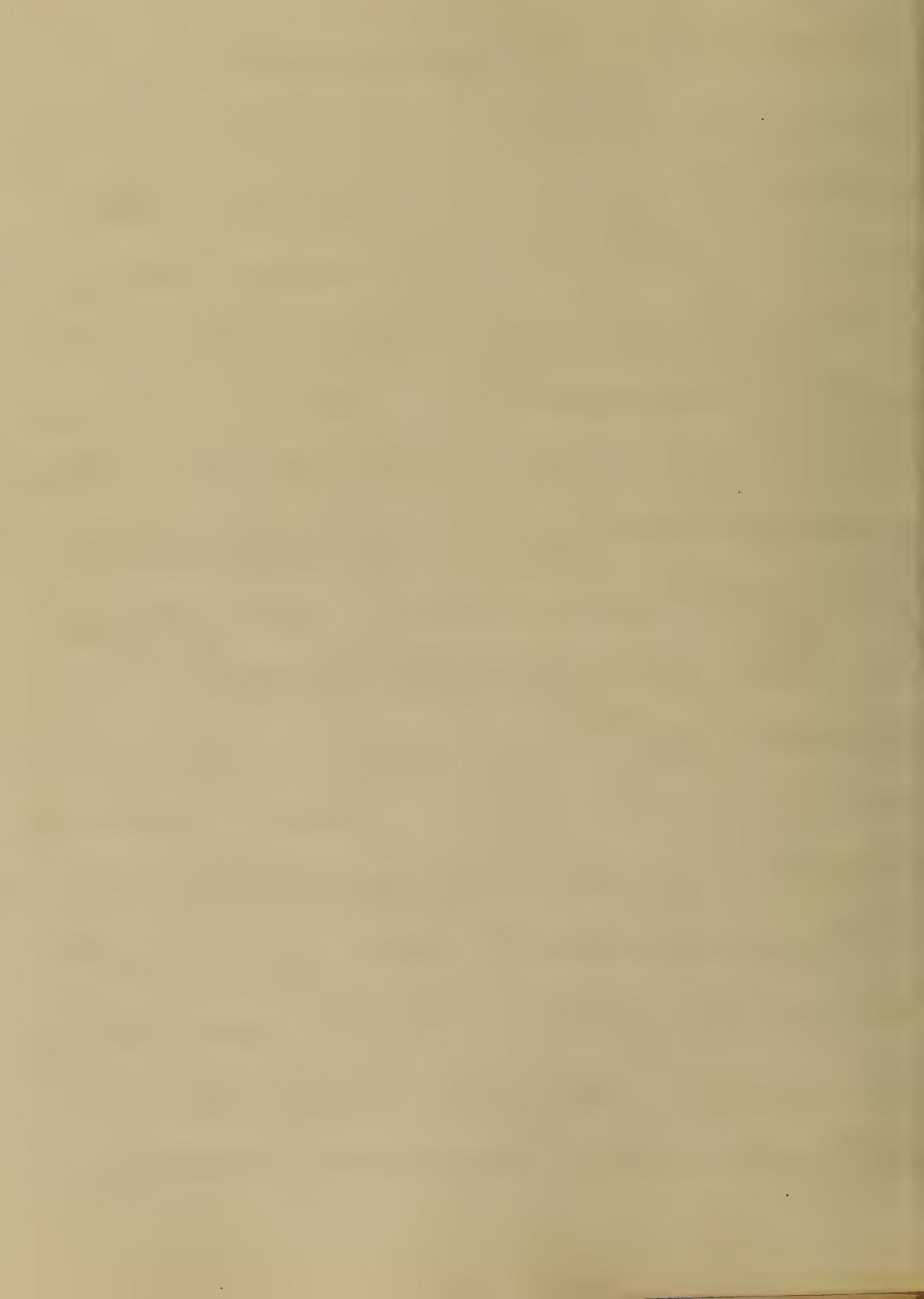
Dr. Grant in a recent discourse on
the care of the sick in Convalescence,
prophylaxis, and the practice of Medicine, and
finds his companion in the same book
described by the English physician C. Bryan,
"in a masterly manner as to subject
and method." Hearken to great teacher says:
"That no visitation is so malignant as
a cold which was more epidemic than any
had hitherto observed; if it is once over
you recover once." "It will do, or will not
it coughing, and will not you

not considerable, but after it was a trifle less
in some measure. In others, however,
the expectoration, the violence of the cough,
and its duration were so great, as to
greatly retard the convalescence.
I have seen one; or two cases; but this
was attended with a fever, and its usual
concomitant, a white, pasty sputum, and
the convulsive cough, - for I never knew
a recovery from these symptoms.
The convalescence is slow, and the patient
so very protracted, that he is
desirous of a change,
it has crossed his mind, to go to
the snows, and, in winter, it lies
on the lower islands of the sea; and

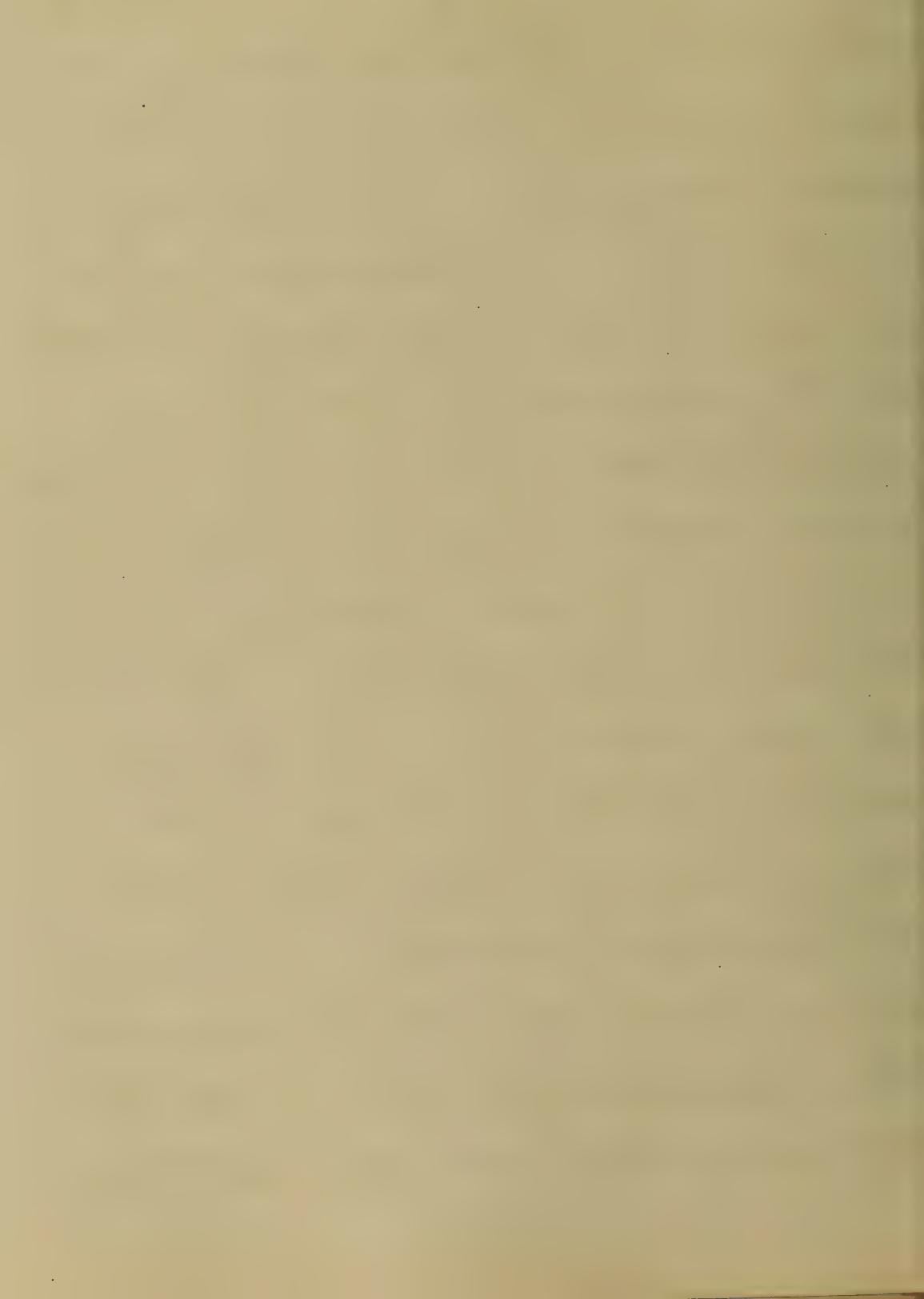
ever created a night, or tide, of an community
with such terrible incidents. It
has traversed every state in the Union,
visiting every city and town, it has visited
upon towns and cities, and sometimes almost
in whole populations, so as to leave
with it; and sometimes it does not even
a house being uninhabited which it
has reported to be unoccupied or dead
that has been taken in, or even
it has also carried, & carried
has been recovered from, for a day
or more, while more than one half of those
attacked in China die of it, not more
than two percent died in the latter.

History of the Disease.

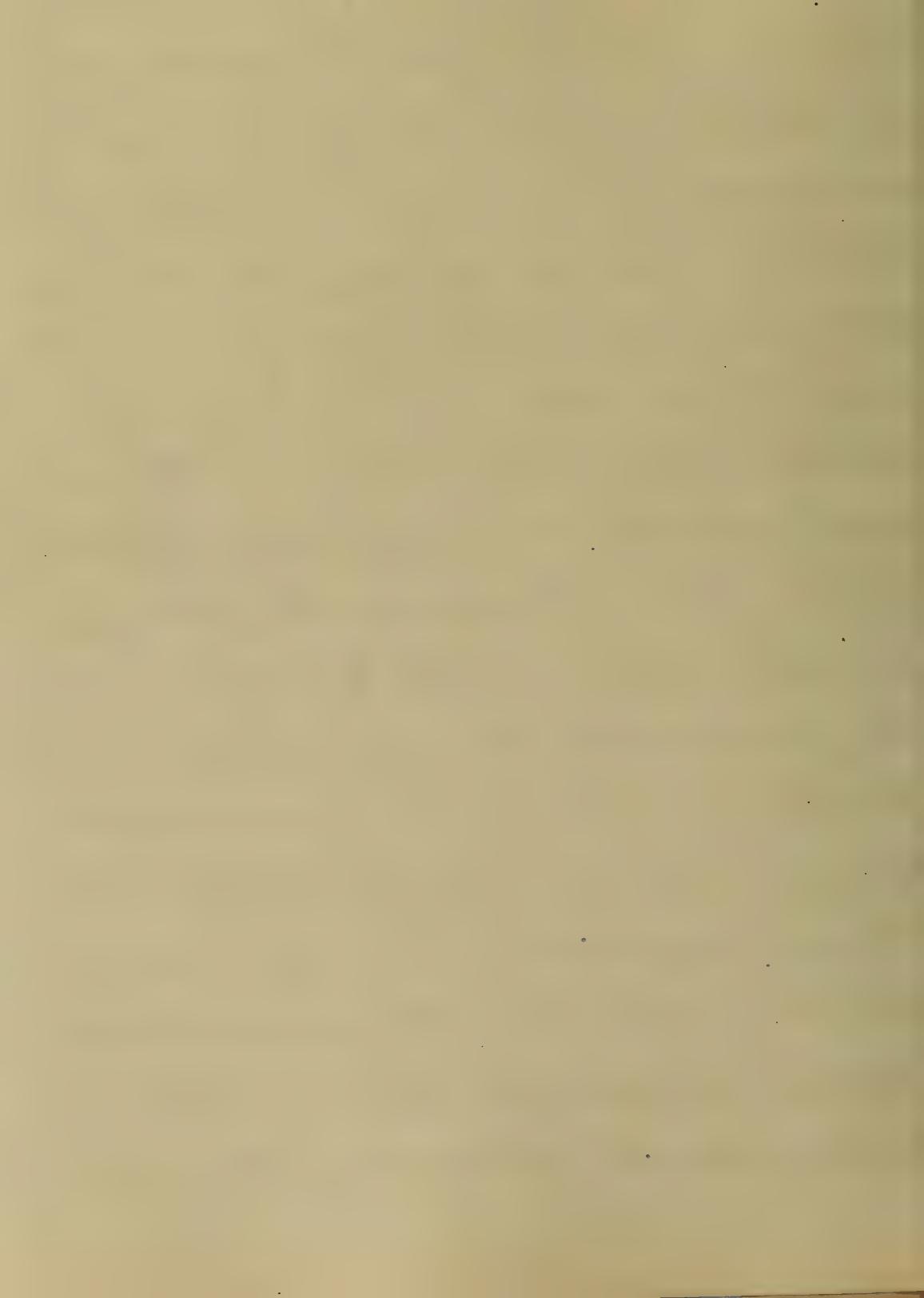
In our epidemic, of which we have any record, medical record we have no record up to 1837. & it seems to have been introduced in the year 1836, some time during the month of April. It is said, however, that it made its first appearance in the year 1835, to some extent. Let me direct it to you, that we have no record since last year, or in 1838, one in the spring - 1838; or in 1839, or in 1840, in Europe, affecting more than two millions of inhabitants, and spreading over so many countries. A description of this disorder can be well understood by the epidemic in our city, in a part of the summer, and beginning of the autumn of the year 1839. In the first days of August, it first appeared on the lower legs,



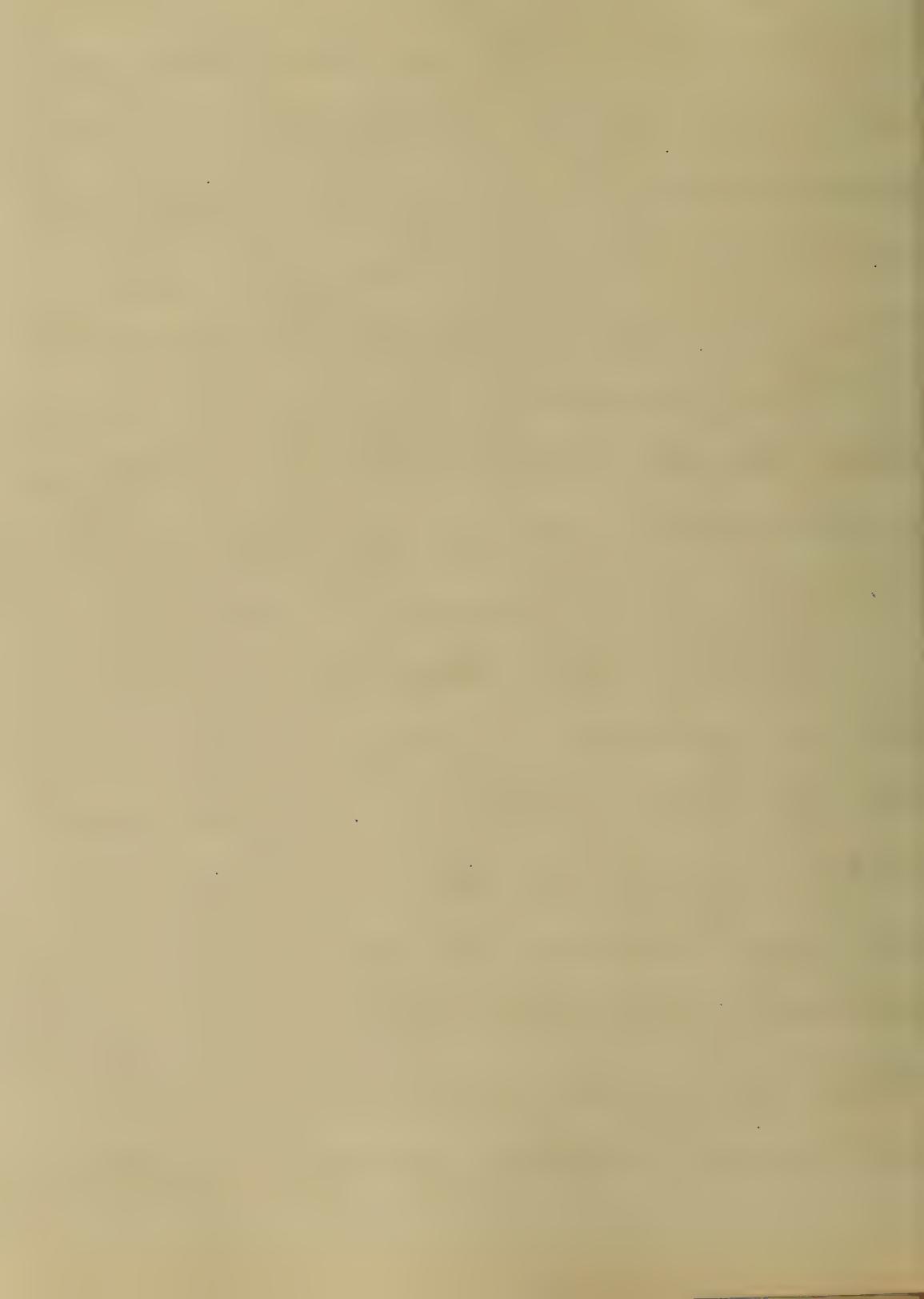
persons to which, and for some weeks after,
the weather was dry, or fair, however. It
commonly came on in cold dry weather,
and what I call a violent fit of chills;
an attack passing off bad and quickly;
and returning again by a considerable interval
on the second; and it only occurred
in England. Some cases were accompanied with
sore throat ushered in the disease in
some; while in others it commenced with
the swelling of the neck; or
the nose, followed by an acrid discharge;
sometimes there was a dusky hue,
as in a case mentioned by a Dr. Bent, in
which he describes an orange colour
on his - sore nose & mouth. accompanied
by disorder, aches & pains. The breast
was affected with acute pains, and a



cough invariably occurs during a severe
attack, and is accompanied by such a
violent convulsive spasm, that it causes
the person to drop to the ground, accompanied with
nausea and vomiting. For several days
the patient is unable to stand, and finds it difficult
to move his limbs, and feels a heavy
aching pain in them, which is either irregular
or regular. The violent pains in the limbs
resemble those of rheumatism. He has
sweat over the whole body, which appears
at some points to be dry. His pulse is
sometimes tense, and quick, but seldom full.
The fever generally subsides in a few hours,
but the cough continues for several weeks
after every other symptom had disappeared.
The most remarkable circumstance respecting
this disease were the small rounded eminences or
eruptions that appeared on the skin, and the
tendency to a profuse sweating.



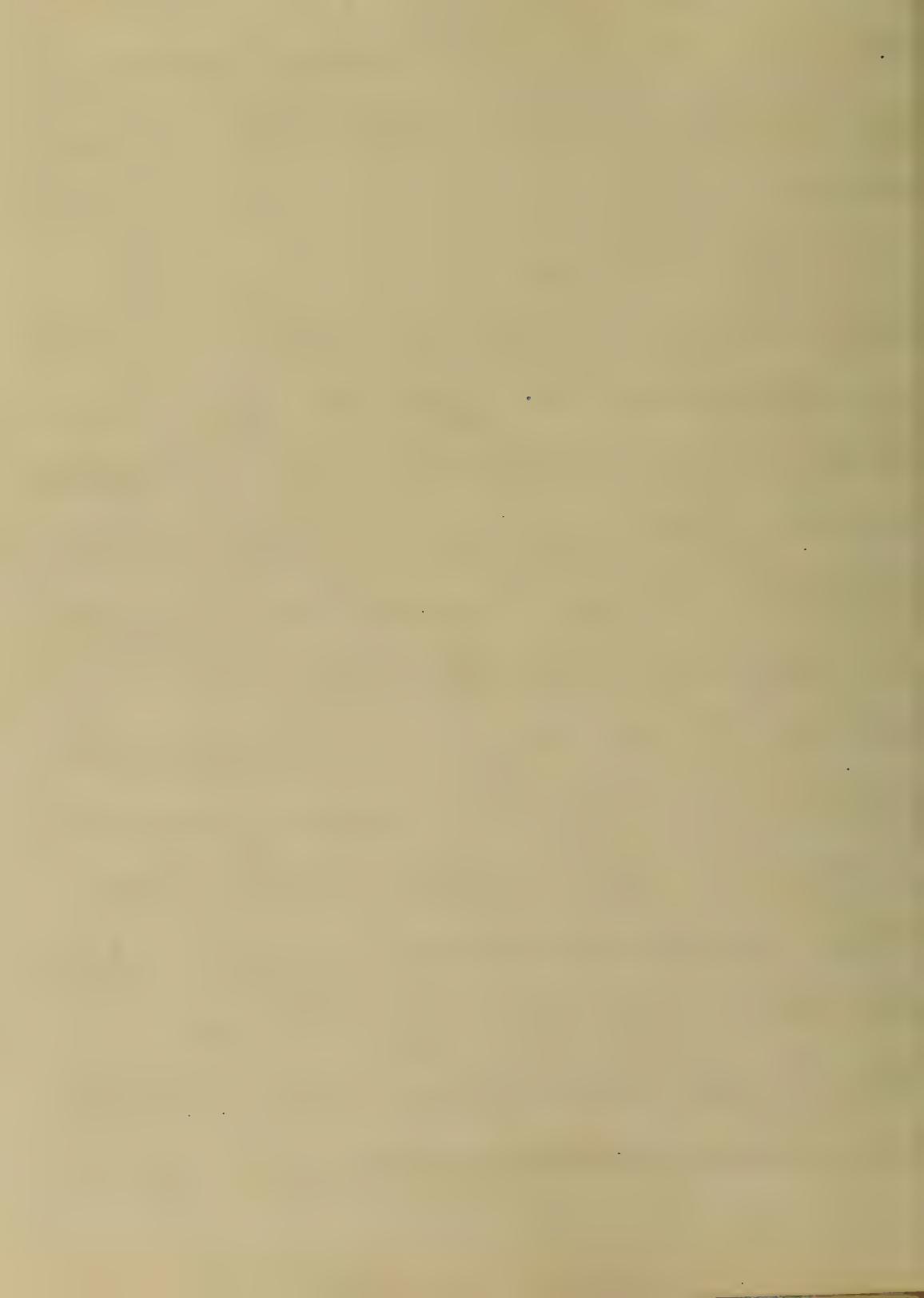
in depths. When the cattle
are grazing on grass within the river,
the middle part of the frame
attaches them without obstruction,
thus it is not considered necessary to open
door. It can account the vigorous constitution
of the cattle and the animal's strength.
Persons were known to be well, second, and even
a third attack of the disease, & terminated
in death in a few, and in others sublimed
in a large number. It could not be
transmissible or infectious, but
the coverings of horses, cattle, sheep,
a horse, dog &c. It was concluded by
advisee account of the disease with
following observations "that it exists
independently of any quantity of rain,
and in all known weather; and that"



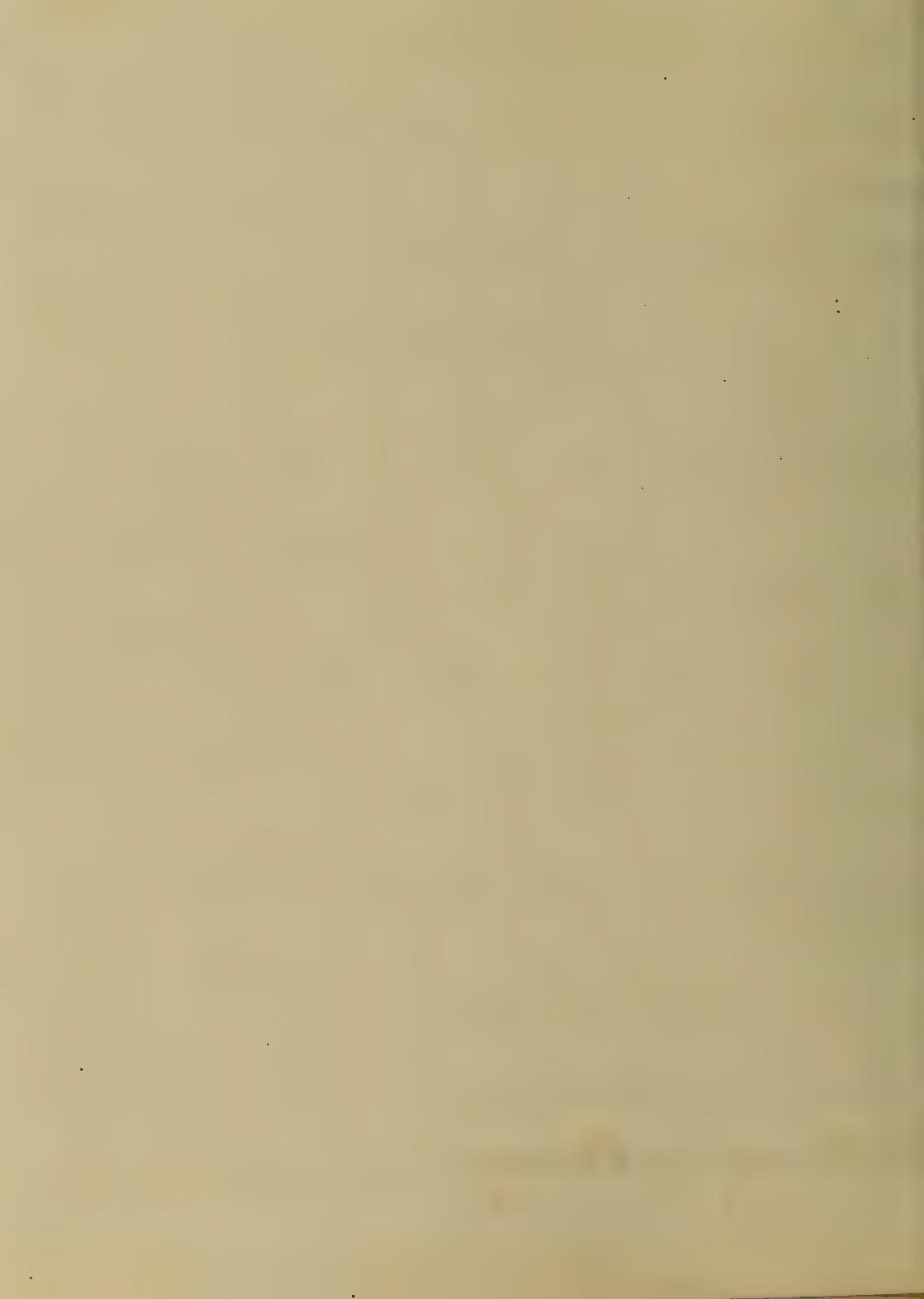
"the known power it has to spread through a country, and affects the greater number of people of every description in the world in a similar manner."

Cause.

As Hippocrates, when speaking of epidemics in general, says, "What we call disease is the same at the several times, the cause however is variable; which is most common to all, and made up of two parts, the one is the air which we breathe. Galen is of the same opinion. Dr. H. C. Warren says, "Disease may be due at the same time to other causes, nor subject to any particular climate, for the air alone surrounds us, and is taken into our bodies. That the principal cause of Epidemics is chiefly to be found in some condition of the air is rendered the more probable by the

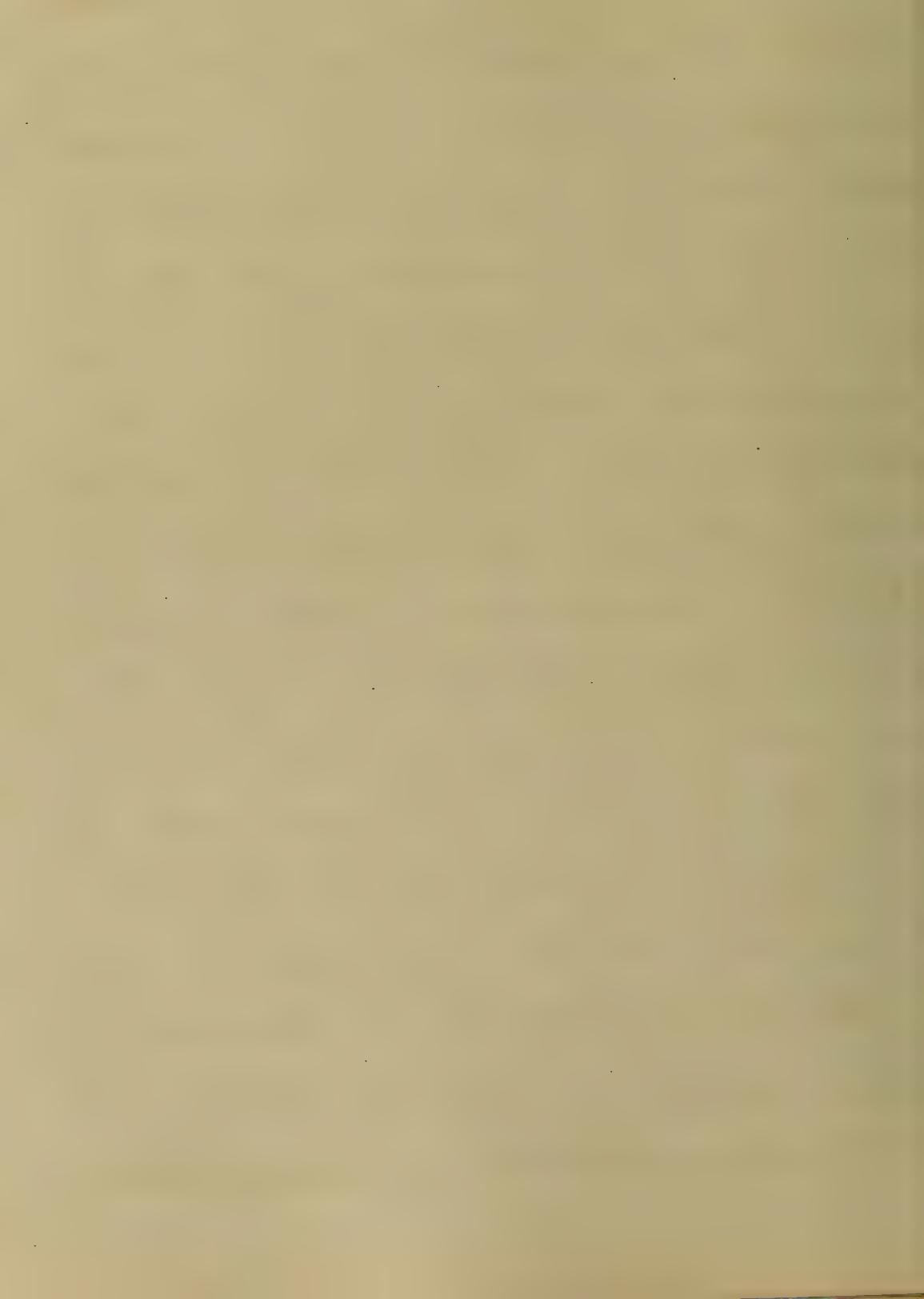


fall, Van Oosterhout, who was in 1647
going to Germany, to get rid of a
feverish distemper which he called,
Mag's "Catar", ran upon a very
thick place of water, "in a narrow
place where the water was deep,
breaking all suddenly, so that it did
incurse a thousand persons. Dr Watson
mentions in his lectures, that a dark cloud
hung over London in the year 1670,
it occurred in a year 1803, & first
in the year 1700, in 1753, in a ship
France in the sea off the coast of Africa,
deemed it dark. Dr. Johnson
writes that the sun was seen to be eclipsed
in France before the battle of Cressy,
which is said to have occurred in the same year
in the ship of Galloway, in Scotland, where

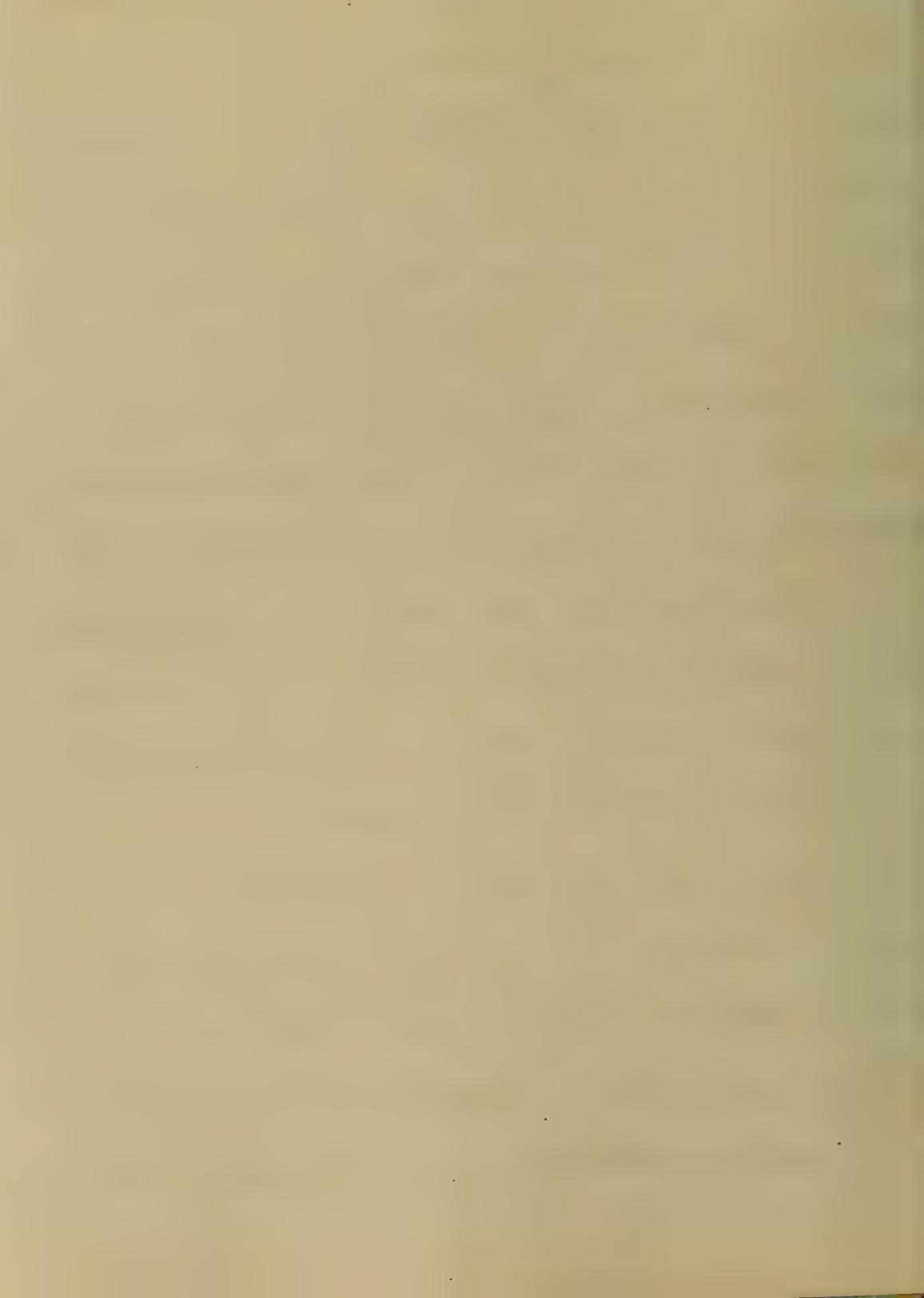


we are told "that contained mucus, and
particul. matter which diffused a strong
odour of sulphur. In the month of October
seen?" Dr. Darwin instances one instance, the
sun vapors and a number of birds were
and "several as many as common were, and
according to him "the material which thus
rendered the air muddy probably caused the
epidemic catarrh, which prevailed in that year.

Cullen makes this species of catarrh proceed
from contact; but natural history in
and says, "that it is a great deal too sudden,
and too violent, to be supposed to be in
in man was" to induce a notion of
disease may not be in consideration,
for there is reason to believe that the
disorders, however various, the commonest
the influenza, are more or less connected with



and the French were
ranging up and down
resides at the port of Toulon, which
is well may be proved by the following facts.
In the month of April, 1770,
the crew of the ship "Goliath" were
sickened very soon after their
arriving in Toulon, and were
attacked with a violent
fever; the rest were affected with this epidemic
at a given time, and so many were rendered
unfit by the disorder, that the whole squadron
was obliged to remain at anchor
in the harbor, from the 20th to the 25th
during this time, and having cruised solely
between Brest and Toulon. A few
days in the same year, Lord Howe sailed for
Toulon, with his fleet, and on



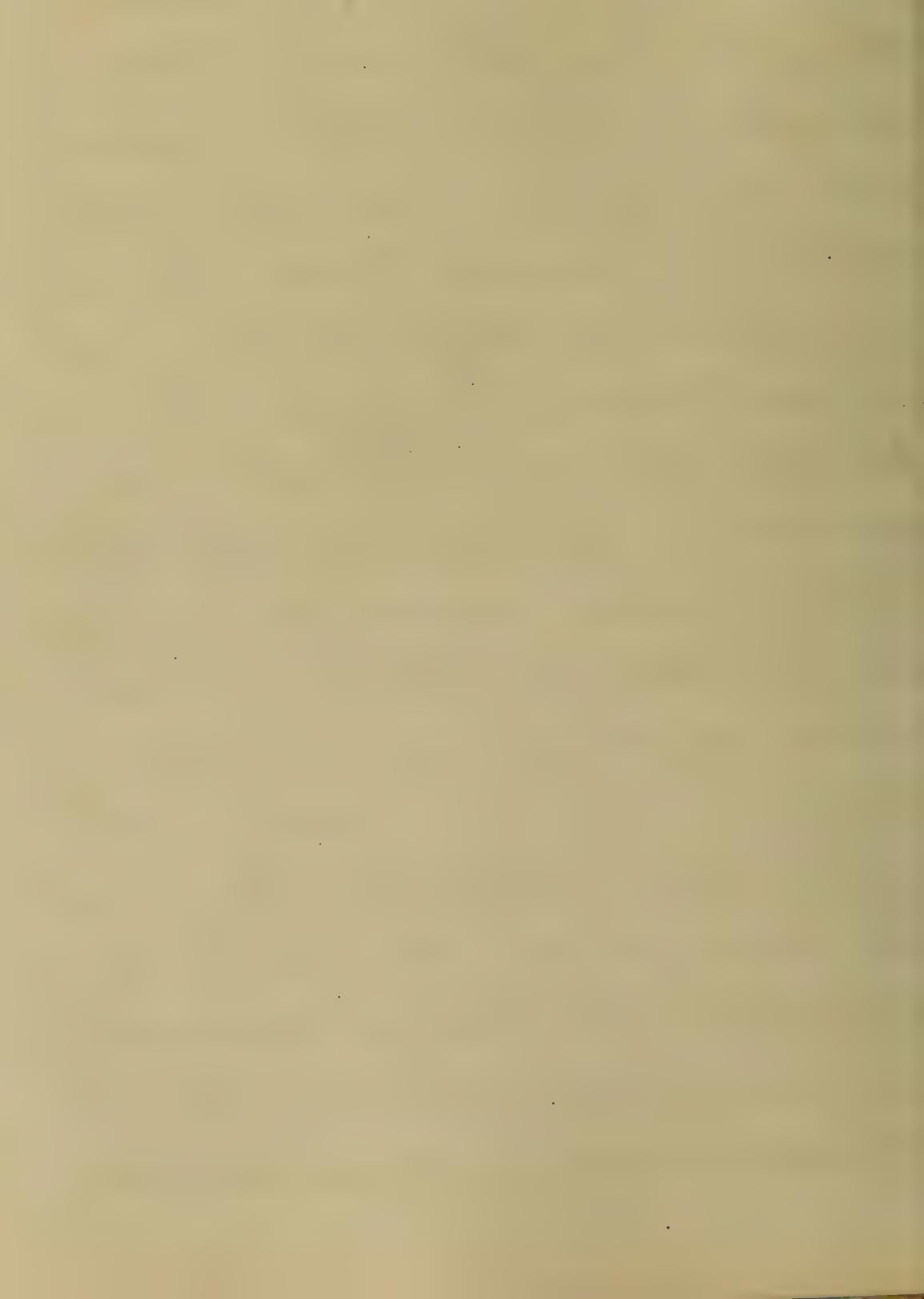
in which man is to live; however,

May (about the 1st) in a violent
windy day, he disease began, and
one two days after the Prince of Mecca,
who had been in the country for some time
with the land, — therefore it could not be
conclusion that causes this disease.

The first attack was accompanied by a change in the electric condition of the air.
Large rooms, clouds in a state of negative electricity
have been observed just before the
commencement of thunder storm, and tumults in
the air have caused a noise.

Sudden thaws are said to have been a cause;
and sudden reductions or elevations of the
temperature are considered as a cause. I coincide

in the elevation of the temperature as a cause.
St. Petersburgh 1702, — coming, time,



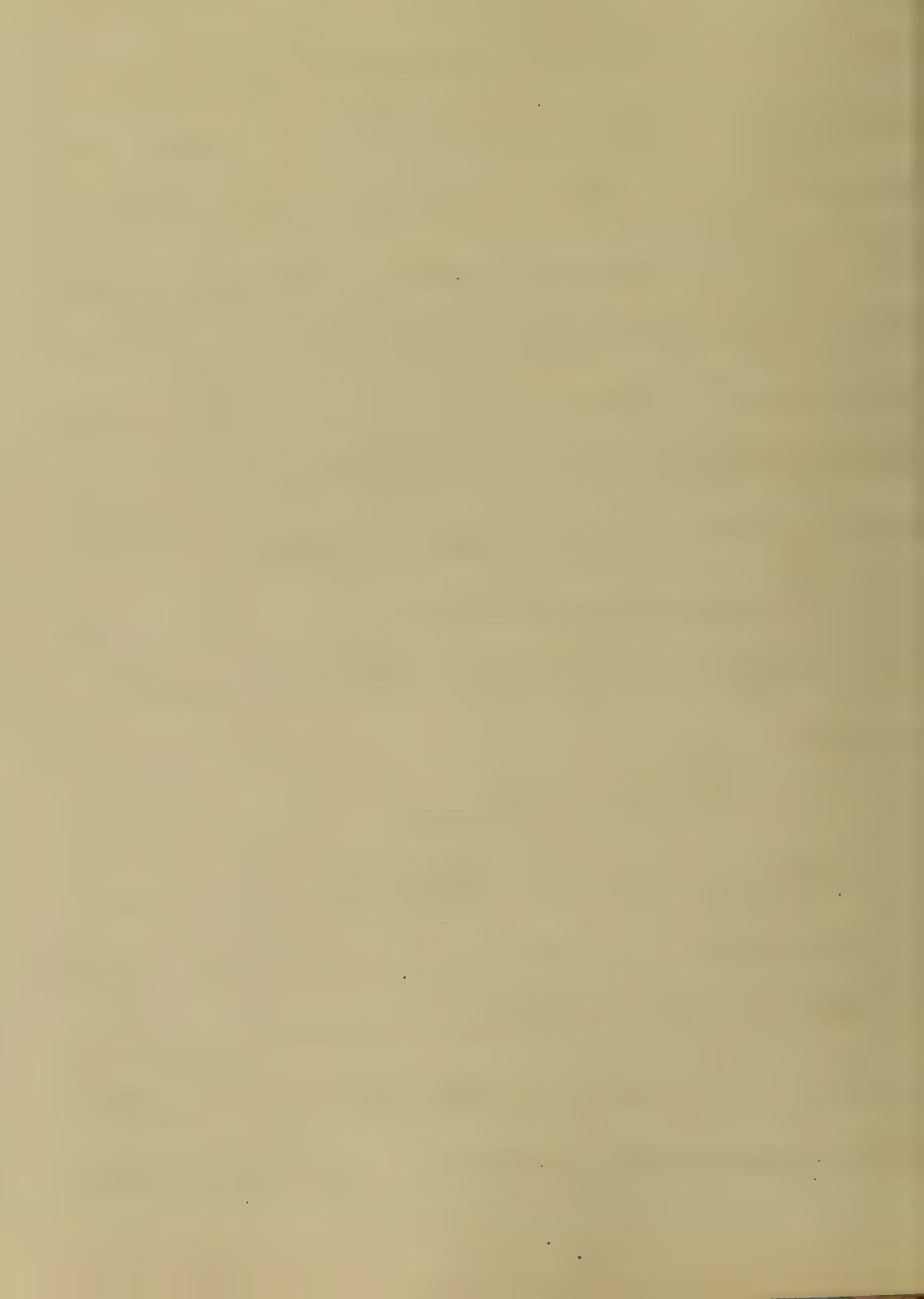
the "Diseases of the Air," and the
atmosphere, from which it originates
with the Influenza." If this is a cause,
even with the disease, probably so;
that, or rice, or fail of the thermometer;—
but this is not so. There is no such
"Excessive pressure in the air"; after the
same Auskultation Boreæ, — pulvros et sereno
coeli, pinguis. — based on... *Aerophagia* &
Hormia loca undinæ valvæ, — Cimicæ
and others to be, at a undue amount of ozone
or oxygen in an aërotropic state, in the air;
Mr. Drionbein called attention to this first;
when the patient in the hospital
prosperous, he had no pain or
of the patient a violent cough, — a
or of asthma with a violent cough, — a
violent cough, — a violent cough,

considered the risk of catarhal patients, by
physicians, and both he and those who
struck at once by the occurrence of an unusual
number of catarhal cases on the day, when
he was propositioned to "a sum
amount". O.O. - & I have
this being & the yesterdays.

The predisposing cause is some morbid tendency, or constitutional disorder. The proximate cause is the inflammation itself.

Ling son.

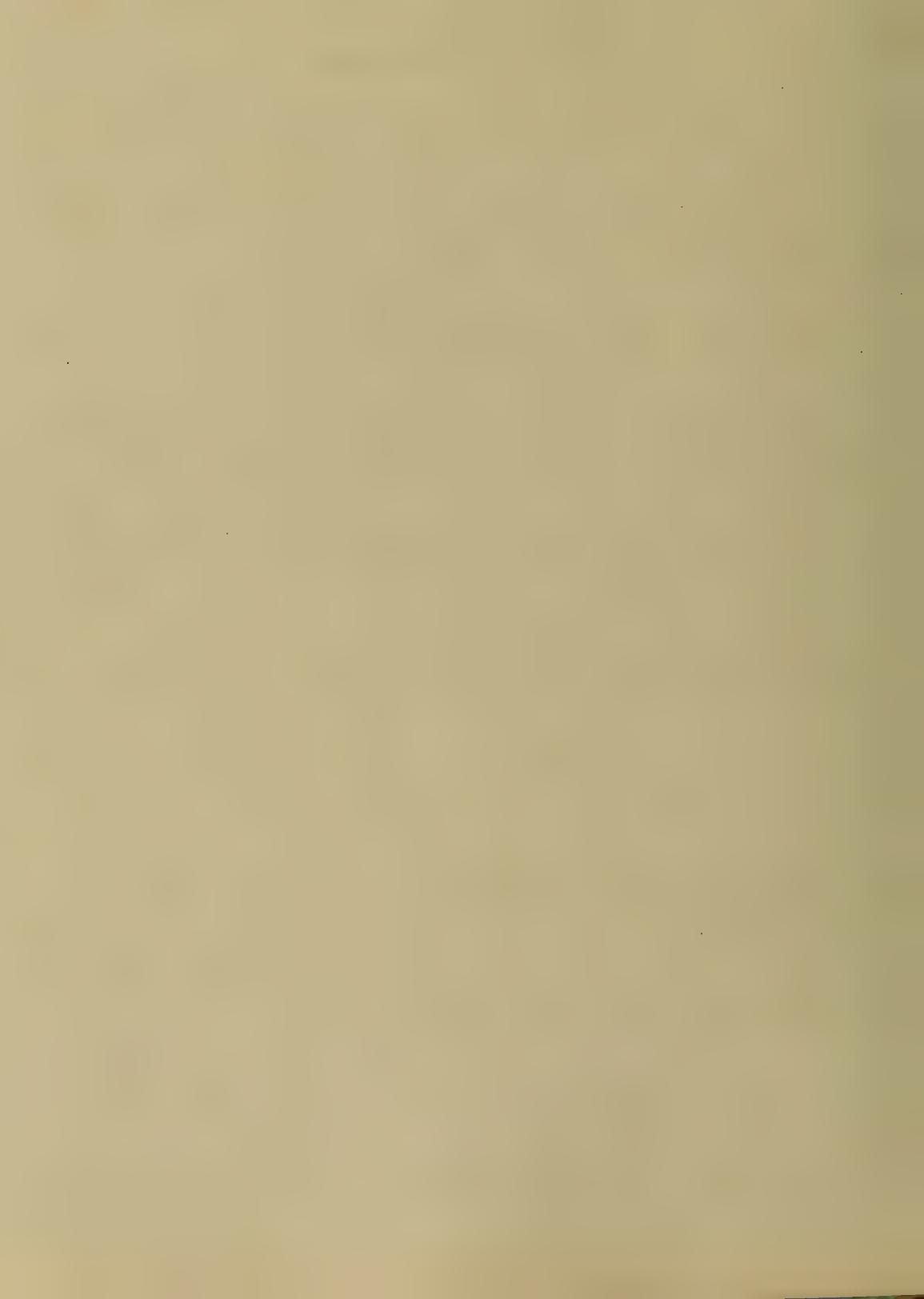
In Shenzhou it is not likely to be experienced
in either a wind or a rain storm, as
it is the ~~mainly~~ ^{mainly} ~~the~~ ^{the} ~~mainly~~ ^{mainly} ~~the~~ ^{the}
country on both sides of the river.



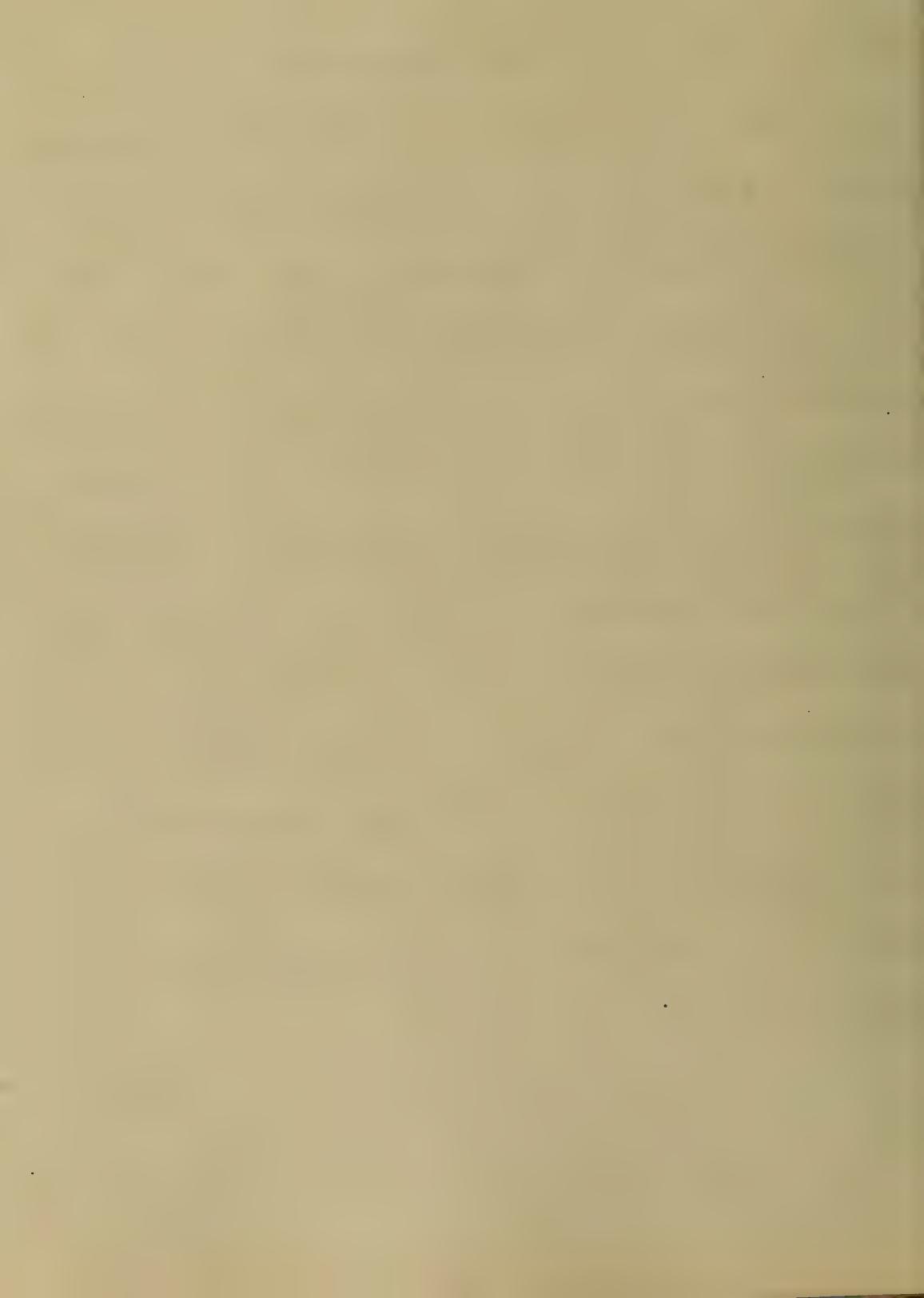
of the debilit, & b' t often with a ;
but the head symptoms are wanting
in the disease; and the ravenous and
dry fits are very like those of the
syphilis. It appears to be a
syphilis distinguished from measles,
or smallpox. Sometimes it prevails under
the skin of the nose, and it becomes
more difficult a diag.

Symptoms.

This disorder has its origin in
the carious tooth or the dental cavity
and may appear in either of them.
It is a most malignant & destruc-
tive quality which attends this disease. It
usually comes on with a feverish condition,
and impure exhalations, and sometimes a
soreness along the nostrils &c.



it is a common disease.
It follows upon a severe attack.
The skin is dry at first and afterward becomes moist. Detumescence is performed with ease.
It subsides away all the time it lasts. It
is a very violent disease, and we have
cough, expectoration, and dyspnoea.
Coughing continues for three or four
days, and we have a fever, which is not
severe, and we have a diarrhoea, anorexia
and diarrhoea. It continues for three or
four days, the cough and debilitate
outwardly. It goes off
out in a week from the commencement of
the disease.



Treatment.

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It is generally favourable except in
the very young, and the very old, in whom
it is liable to complicate itself into
croupous bronchitis. It is also more fatal
to the young.

Treatment.

The treatment is the same as that of common catarrh.
Convalescence. On account of the debility which attends
it, bleeding and active purgation are not
indicated, and tonics.

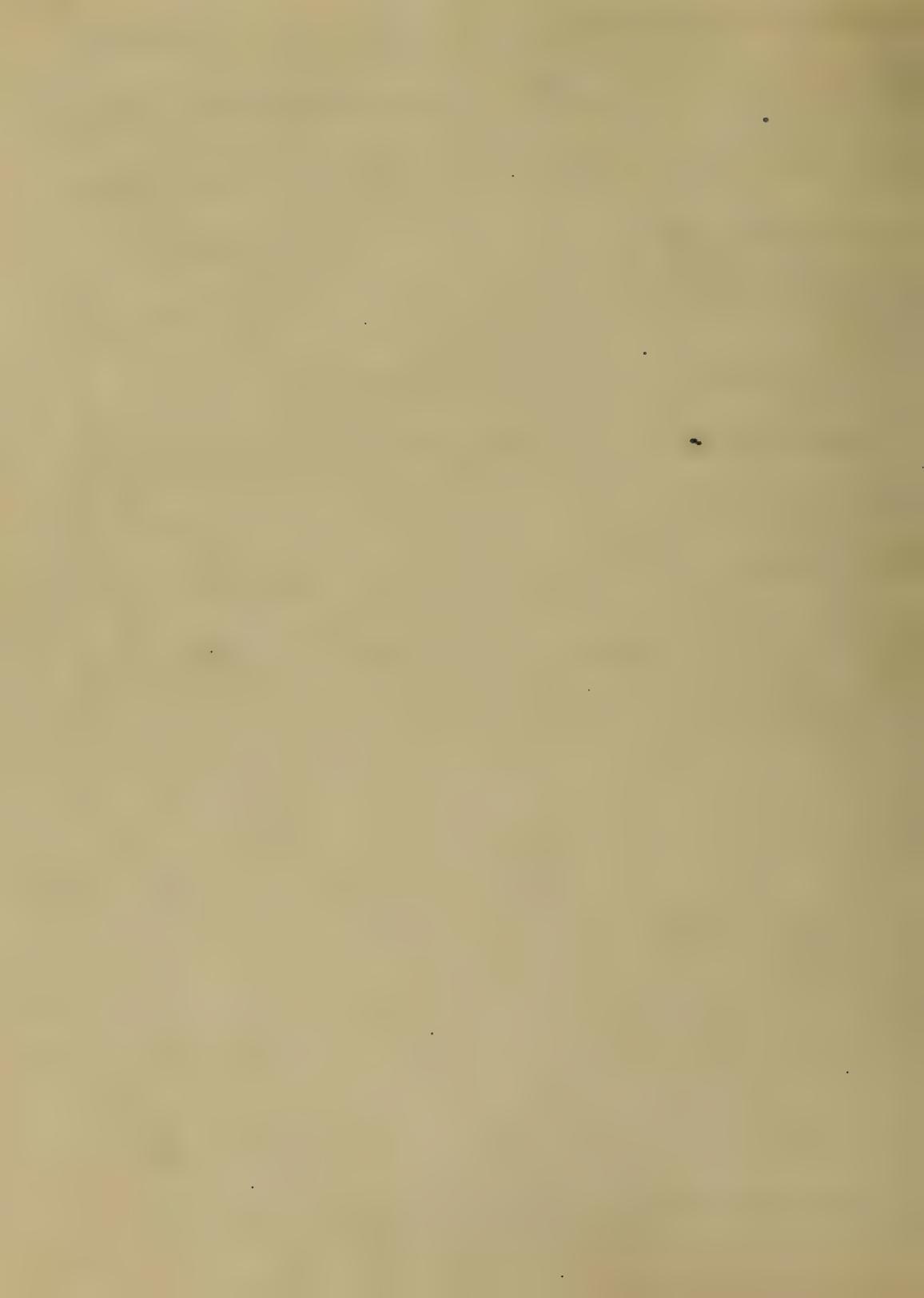
J. Short says, that bleeding and purging
prolonged disease. In 1661. In 1553,
in a course of three weeks, 2000 persons died of it, and
of 5000. 16000. In 1583 converted last
the winter was omitted not more

it's one in a thousand died, and adds
'Experiencia enim hoc con�rro:am, omnes
fūcū sūg'le ad pūtō."
This was written on the 1st
of October, 1851.
The author says, "I have not seen any case
of this disease, but it was
occurred among the following
as of flesh meat and all kind of
putrefaction, when it was
seen, going into the air, and a draught
of a gectoria pista: to be taken
between whilst." These few things, says he,
are good to remove the air from the
liver, and other symptoms usually attending
it." He condemns the use of opiate
oppi' and the use of opium, "as
are first spirituous liquors, &c.,
from very active with the body, &c.,

when and where "the cure" is
 and "Cure" is often the name
 "seen in the wine of the physician."
 Dr. Thomas L'Avie commands the use of Verucas
 or his disease, he gives it him in water which
 is most tender, but not enough in saliva;
 and as the disease is malignant, it is
 to be cured by the wine of the physician,
 which is to be
 Dr. West plan of management, says he, is
 to open the bowels, and to move
 or to bowel by two or three grains of Calomel,
 followed by white wine, or
 of marmalade of orange and lemon
 with a spoonful of sugar, and
 one of the doses to be given; and to
 it to be drunk in a
 laborious, and without water,

water, & apply it to a sore
stomach, blisters, &c. It is
an emetic & diuretic. The common way
to use it is to mix a drachm
of a drachm of common ointment, a drachm
of sw. opopanax resin, and one
an other drachm of spargoric, in almond
oil."}

The second time I will do one,
I'll also write another. Dr.,
in due time, I will do one.



AN

Inaugural Dissertation
ON
Cholera.

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
Carter, Berkeley,

of
Virginia

Session of 1865 and 1866.

Asiatic Cholera, Latin Cholera, etc.
Cholera, Asiatic Cholera, and even
Aphojia, are some of the Synonyms employed
by authors to express the disease of which
I purpose writing. I have chosen Asiatic Cholera,
(for this is the most commonly accepted title for it,)
not thinking to advance any original ideas con-
cerning the nature of the disease, or with a view
of making any suggestions to the profession or
public in regard to the treatment of it. But
simply to show that I have made it a special
subject of study, and have tried to acquaint
myself thoroughly with its different shapes
and forms, in order to be better capable of meeting
its aggressions should it invade this continent
with its desolating effects, and the history of the
monster gives us every reason to think that it will
not overlook us in its present tour. When it once
starts, it generally makes the rounds, and instead of

growing weaker as it advances, it sometimes seems to gather strength on the march. I think it is our duty to buckle on our professional armour, and brace ourselves for the anticipated conflict. Already has this impetuosity of death visited with it striking effects many parts of Europe, and now stands on the confines of America, organizing its forces as it were, for a desperate assault upon us, probably next summer. It can not be oblivious but there will be enticement and provide ourselves with every available means of defence. Let us be actuated by a desire to alleviate the sufferings of our fellow beings, and put aside all spirit of disunion, and disagreement. Prompt and vigorous action in solid phalanx will insure us the victory. This terrible malady was not known in this country until the year 1832, but had been in Europe long before 1817. Though more mild that time around such a terrible shape, in that year it seems to have

begin its march taking a north westerly course. In
1819 we find it in Egypt, in 1820 it had reached
Canton, we find it steadily progressing, spreading
desolation in its track, and in 1823 it made its
appearance in Northern Europe. Then it stopped -
and somewhat, but as was the fearful anticipation
in 1831, it travelled entirely across the continent,
and made its appearance to the terrorstricken
inhabitants of England. Many even then in our
country comforted themselves with the delusive
hope that America would escape, but before many
sunshades set in 1837 with one gigantic stride
it appeared in Quebec, then a few months it was
in New York, and taking first a northerly route
it went up the Hudson then down the Delaware
and on the 5th of July we find it in Baltimore. It then
followed the coast, and in November we hear of it
off Charleston, and in February 1838 it reached Cadiz,

where it found many victims. In the meantime it had
not left Asia, but still prevailed with varying intensity.
Neither had Europe been rid of it for it raged there
particularly in Northern Europe fearfully. Again in
1834 it prevailed in North America and a great
part of Europe. In 1847 we hear of it raging with
human life in Armenia, and in the following year
London, Edinburgh, and other parts of Great Britain
were afflicted with its presence - At that time
we anticipated the coming of the unwelcome guest
to our own shores, and tried to prepare ourselves for
its reception. We were not mistaken and not-
withstanding our efforts to modify its influence
it spread with unusual rapidity and violence,
carrying many of the large cities with it death
and mourning to many thousands. Its pestilential
brezes were wafted far into the interior; and
isolated cases were not unfrequent even in the

rural districts, seeming then to be satisfied with
human life it took its departure, bearing us
until 1865 in well nigh forgetfulness of its terrors,
when again we are aroused from our fancied
security by the news which every Foreign
Bulletin brings of its destruction in Europe.
The old world has again put on the habitments
of mourning, and let us not be deceived by the
false hope that we will not be soon obliged to
do the same thing. The wrath of an offended
God is lowering upon a wicked nation and
is about to mete out retributive justice in the
shape of the hideous minister, Epidemic Cholera.
It is very irregular in its march, in its direction
leaving some towns and cities entirely un-
molested, and remaining variable lengths
of time at those attacked, & sometimes a

checked by winter (but not always as it pursued throughout the entire winter of 31-32 at Moscow.) It seems to prefer to follow the course of navigation, but does not absolutely confine itself to any locality as it is found in large cities, in sparsely settled districts, on mountains, in the midst of deserts, and even in dried ocean. Neither palaces barriers, nor the ingenuity of man have succeeded yet in arresting its progress— Neither age, sex, nor condition are free from its contamination— Both palace and hovel are liable to receive its visits, but it rather seems to prefer the abodes of misery and wretchedness— It does not seem to be satisfied always with one visit to any one locality, but on its return it is generally with symptoms less aggravated— The symptoms as well as the course of Cholera are variable— A general complaint of diarrhoea is observed to herald the advance of the pestilence— It may come on with

promenitory symptoms, such as moderate disturbance of stomach and bowels, nausea, slight cramps, hearings and giddiness, but in other cases it commences with violent vomiting and purging. The first or the ~~wild~~ stage is called by French authors, Cholerine, in which we have a fevered Tongue, anorexia, Thirst, indigestion, hearings and distension about the stomach, and bowels, hiccup, nausea, vomiting and Diarrhoea, A feeling of languor, and weakness, respiration and cramps, and in some instances is attended with febrile symptoms. Occasionally the nervous system is attacked, and instead of nausea, and vomiting, we have the patient suffering with convulsions and spasms. At this stage the proper remedies should be used, and it will be found that they are generally effectual. Case frequently occur from no obvious cause, we hear but rare Cholerine over any other promenitory symptoms, the patient attacked with violent purging and vomiting, with colicky pain in stomach and bowels, cramps of the voluntary muscles

and paroxysmic pain in every portion of the body. The cramps are most frequently in the limbs, rendering them entirely rigid, again drawing largely on the muscles of the abdomen, accompanied by severe pain. The amount of matter ejected from the stomach is often enormous, at first the contents of the stomach, subsequently a whitish fluid very much resembling rice water. Some authors have considered this pathognomonic, but there is considerable diversity of opinion in regard to their constancy - Dr Wilson says that a freedom from tile is a universal circumstance, but Dr Head and other dissenting physicians at this stage there is change for the better, symptom of collapse will supervene, some of which I will enumerate - The pulse becomes feeble, and sometimes scarcely perceptible at the wrists, lips blue, tongue coated with a dark epithelium, breath cold and said by some to lack carbonic acid gas. The body has a pinched and withered appearance, countenance ghastly and cadaverous,

skin covered with covered with cold sweat, and the voice
is entirely suppressed. The voice becomes husky and weak
giving rise to the title of ex-Cholerica. The patient
becomes emaciated, and declines rapidly. I have
enumerated here some of the most prominent
symptoms, but they are by no means constant. In
some cases vomiting and purging are absent. Nausea,
cramps &c are wanting. Even in this rapid disease it is
strange to say, the intellect remains unclouded,
the patient converses rationally to the last
moment, if you can call a man rational who is
perfectly indifferent to his approaching dissolution,
and who frequently while his last sun is setting in
the horizon of eternity, jests and scoffs at the
dim perspective - When most of the above symptoms
are present, I need hardly say that the prog-
nosis is unfavourable, death occurring in from
two to fifteen hours according to the intensity of

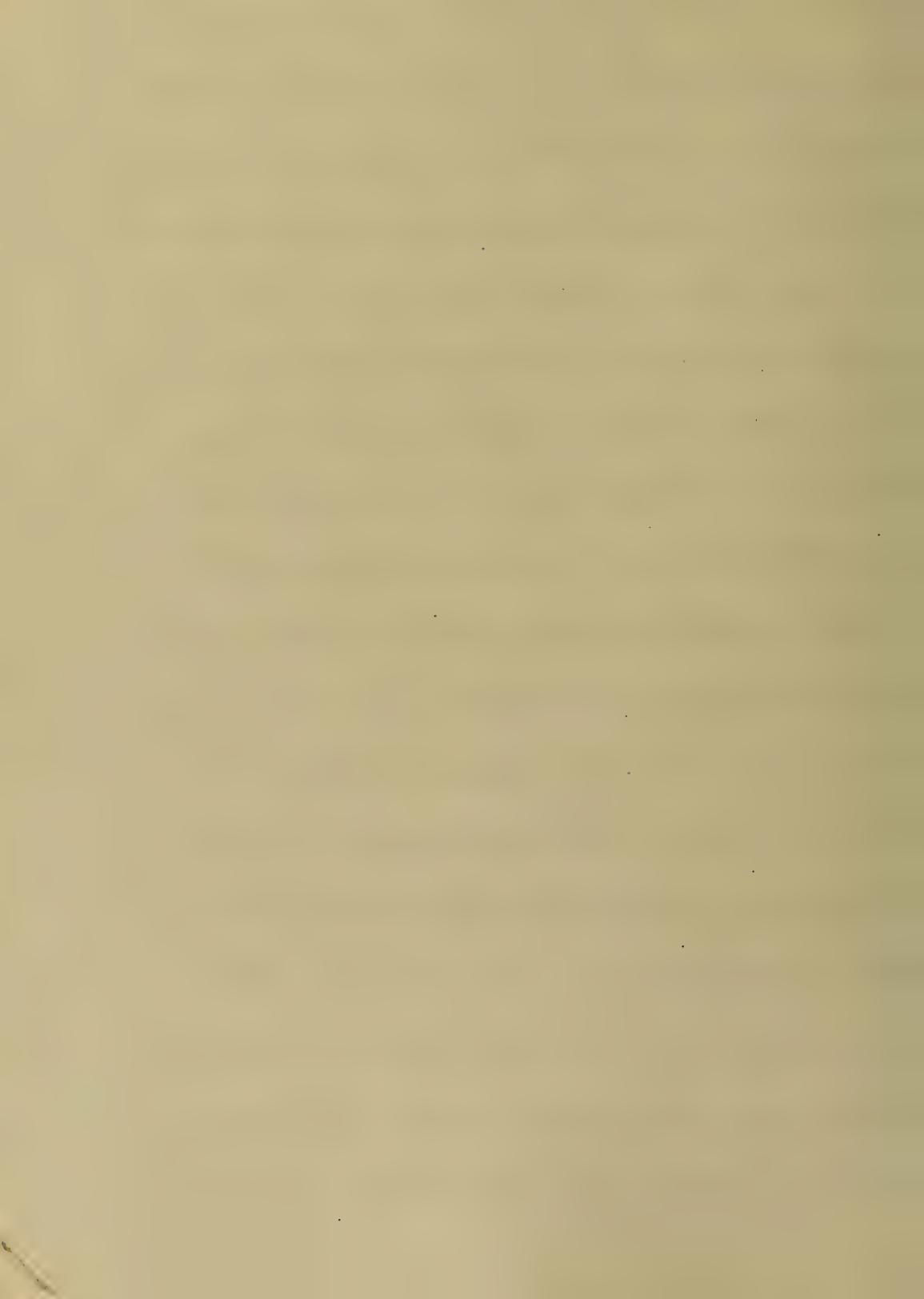
The attack, constitution of the patient, protracted or
otherwise - his stage of the disease may not be
conducive to treatment; but I am confident that the
perfidious and noxious poisons of calomel, at
spurts, and those impotens, & impure, ~~are~~^{to be} of late
The last ray of resolution, and send them ^{to the} torture
to a final account. The disappearance of the
cadaverous countenance, cramps, purging and
vomiting, return of pulse, warmth to the surface,
back to the stars, and the secretion of urine, may be
looked upon as a favourable indication. Post Mortem
have done little to elucidate the nature of
this frightful epidemic. The body after death is
fearfully contorted, and heat seems to be increased,
the blood is thick, the bowels distended, and contain
a flaky white liquor; as far as the viscera are
concerned very little change is found in them, so
regards the exciting cause of this disease, much has

been said by the various writers on the subject—Many years ago, anyone giving utterance to the opinion that it was contagious, was laughed at by the medical profession, but in the last few years, and especially during its late ravages in Europe, that opinion has gained many advocates. The Constantinople Correspondent of the Medical Times and Gazette writes as follows. "If anyone should still entertain any doubt about the contagious nature of Cholera, there have been most finally dispelled of the circumstances attending the last Epidemic here, which I briefly described in a previous letter, and which were almost identical with those observed during the visitation of the same disease at the time of the Crimean war. The French troops who came from Algeria when the disease devastated the country, had scarcely disembarked at Gallipolis, when the Cholera broke out among the people there—Another place the disease

followed the French to Parna where it decimated the inhabitants, sparing however the intermediate centers of population, and more especially Constantinople where the disease had not had communication. At a later period a camp was formed on the heights of Moda, the outlet of which was Yenikeny in the Bosphorus - this had scarcely been done, when the Cholera appeared at Yenikeny, but in no other quarter of the metropolis. It was only after sometime that the disease invaded ~~area~~ the ~~neareabout~~ ~~out~~ to Moda with which the troops housed in the camp had frequent communication. Such observations as these are almost convincing as physical experiments they show the **connection** between cause and effect as clearly as they can be shown in pure science". After reading the above article one is almost convinced of its contagious nature, but now what do I do, and you are about to ask, tell the other side, "If propagated by contagion why had

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the disease at one time march with awful rapidity
and at another halt for years upon the confines of com-
munities often th^t a constant intercourse with the infected.
Why? Why should it suddenly rise upon a certain
district, rage fiercely for over two months, and then
leave it altogether? Why should it attack large
cities, and often let the surrounding and usually
isolated rural villages go free? Then in fine does it
happen that a distinct line is sometimes drawn
between the infected and disinfect^d neighborhoods;
that a low damp spot is desolated, and a neighboring
height is in safety, that even upper and lower stories
of the same house should be in opposite conditions
in this respect, while in these cases there is no
suspension of intercourse? Again he says, "The
suckling infant has failed to receive the disease from
its mother, and attempts of the mother to get it have
been made to imp^t it by inoculation



introducing it different parts in my way in the
system altogether without success.' The same Dr. J. J. C.
de Archives has a long article in favor of the conta-
gionists, and says that there is no instance on
record of its appearing in a country unless it was
imported... It would be absurd for a physician to
profess him advance an opinion after so many
eminent men have differed, but I am inclined to
think that it is certainly contagious to some extent, but
not as much so as Small Pox, and diseases of that nature.
Its nature is still wrapped in obscurity. That it is a
peculiar poison acting directly on the alimentary canal
or indirectly by reflex action through the sympathetic
system causing a rapid exanrosis of the violent elements
of the blood, also producing violent cramps of the violent
muscles and sensitive surfaces at the same time General
depression of the system is the most plausible and
probable theory. It is yet for me to speak of the treatment -

The plans for treatment are as multitudinous as the changes of its nature, but before enumerating some of the various remedies for the cure and palliation of this disease, I will occupy a few lines in speaking of the precautionary measures which should be used against it. When vice, intemperance, filth, improper clothing, bad food, ill-rehearsed diet, fear, dependency, &c. and vice versa, studies are undergone, then we find the prevalence in its most terrible forms. Whether discrepancy of opinion there may be as regards other points, this is one all agree on, and that is, that cleanliness is of primary importance, still as regards person and one's surroundings especially should sinks and wash-tubs of above make of every description be daily supervised, no stagnant water should be allowed in yards and cellars, and the latter should be well ventilated, and painted with Chloride of Lime. Clothing should be changed often, and the body should be kept

with flannel over the skin - all species of poison
should be avoided and sudden changes guarded against,
but above all temperance in diet and exercise
of strength, as well as temperance in labor, both physical
and mental - the influence from fruit and vegetables
especially such as are hardly cooked - Plainly cooked
meat, boiled rice, light bread, and well roasted meatly
potatoes are safe and wholesome articles of diet -
Mallows, Cucumbers, and Cherries and such like are
almost sure to produce the disease when it prevails
epidemically - It has been remarked by persons who
witnessed the disease in Constantinople, that almost every
case could be traced to some indisposition, and all
who observed the proper hygienic rules escaped. A letter
dated Sept 27th from J. P. de la Bruyn Esq. of the U.S.
Legation at Constantinople says, in a little village of
800 inhabitants, there were 22 deaths out of 70 affected,
the victims being the aged and youngest, the latter

being a mis-taking attributed to negligence. The best
of remedies empirically, Cholera is formidable indeed. The
disease is nearly always preceded by diarrhea, and this
is the time to sift it in the last. I will and can afford
you a number of the precedents, and you will in nearly every
instance secure your patient from attack. But at other
times, I concur with violent vomiting and purging; &
this in these cases is in the lower limbs, attended with
considerable flatulence, and a peculiar griping.
The proper course with jawne is to wait it out if it is
acute, as it will almost invariably come into some degree
of resolution. The indication then I think is to allay the
irritation, and stop the flux as soon as possible and not to
purge - keep the patient perfectly quiet, and observe the
most rigid sevicing, as regards diet, a mere all-infectious
clothing, and keep the room well ventilated, at the
same time using disinfectants freely. Opiates continued
will consist of Laud and Camphor which should be used freely

at the same time continue acid water or Chamomile and
 washes in cold water. Local applications - wet
 as fly blisters. Spt Camphor ^{and} Sulphur are frequently
 used with success. If under the injection of Morphia
 jatrophae grain is an invaluable remedy - Hot water
 baths also hot air baths are recommended, and some
 practitioners have contended that the use of the neural
 salts is very efficacious, the idea being that they dilate
 the blood, and restore the functions of the circulation. The
 same thing has been attempted by throwing warm water and
 oil into the veins, but my opinion is that there can be no
 efficacy in such treatment. Opium, Brandy and Cider
 have been considered the great remedies. My humble
 belief is that a combination of Laudanum, Chloroform,
 and Ether, given in time will nearly always at least
 give a palliative - Cannabis Indica has been used
 with limited success, and in Tans, the early stage of
 Cholera has been controlled with Salt Bat & mustard.

combined with Opium. In Constantinople a mixture of
Opium, Camphor and Tartar, has been used with emetic
puccas. But after the disease has fully formed it is doubt-
ful whether any remedies known are of any avail. Many
deaths no doubt are owing to neglect of the primary symptoms,
and it may be from overloading the stomach with water & Gums.
The terrible Thirst which is almost invariably an attendant
of importance should be attended to. The disease in its
incipient stage, before death with his sterility, is ha-
vied upon his victim. I have attempted to give a des-
cription of the History, Symptomatology, Etiology and treatment,
nature &c of Cholera, and I hope I have succeeded in making
myself intelligible, but if I have not, in charity attribute it
to my insufficient data, and limited experience. When I
selected Cholera as the subject of my thesis, I flattered my-
self that I had chosen a subject easily handled but now
I willingly acknowledge my inability to do so and
admit that I have completely lost myself in it. Let me add,

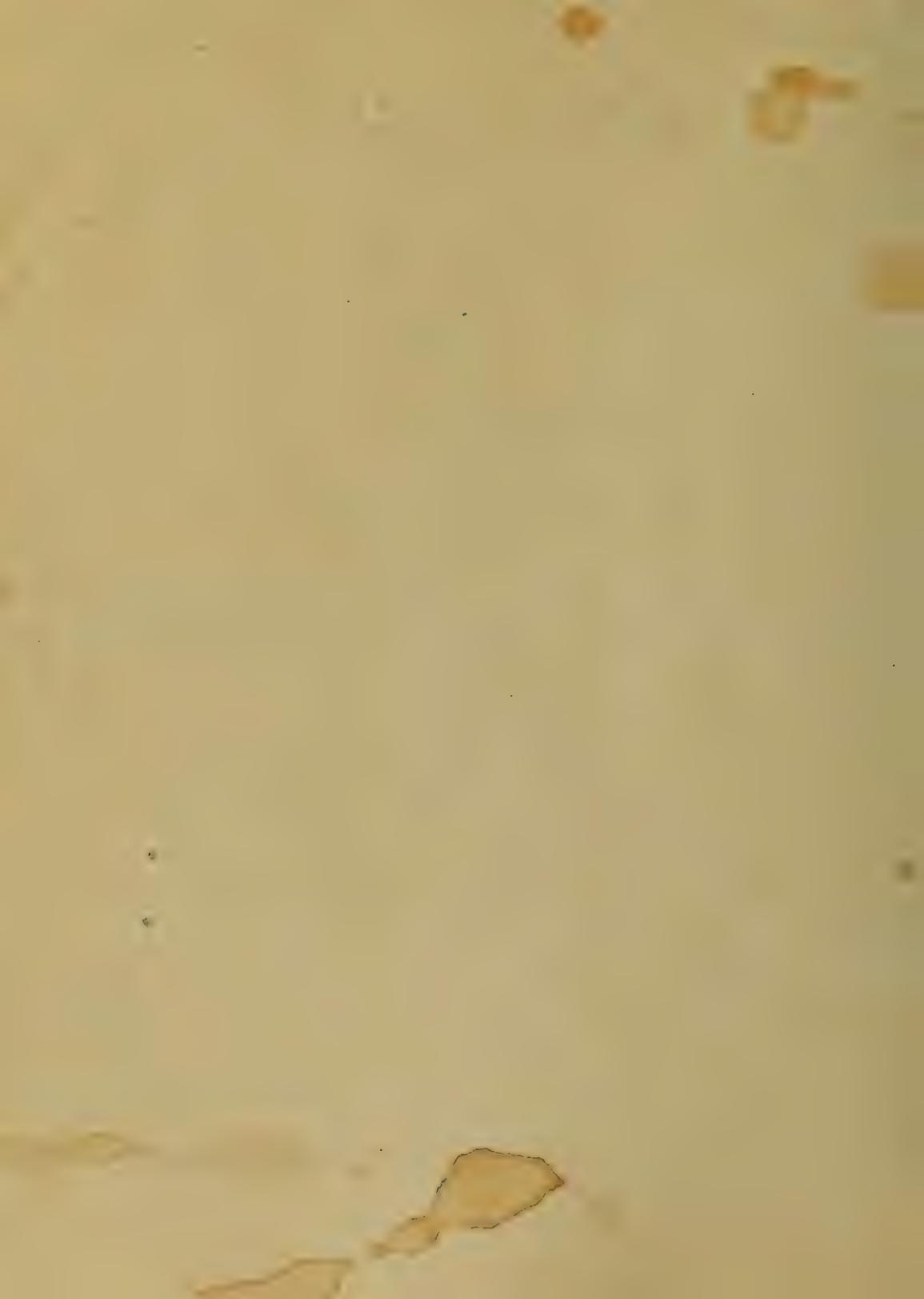
but I do not feel at all chagrined when I reflect that the
most profound and searching of our professors has been
persuaded by its cogency. And now I respectfully submit
this imperfect disquisition to your consideration, only
asking for a liberal criticism of its merits— I remain
your obedient servant.

Cart. S. Berkeley.

AN
Inaugural Dissertation
N
Malaria and its effects
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
William J. Willmore
of
Maryland

Session

1865-66



I do not presume that our library committee
will be able to write will add to the
knowledge already possessed by the faculty
and the profession, nor do I suppose that
it is in expectation of the faculty, but that
the desire to know what knowledge the
student has gained in his studies or
what are his limited observations; all know that
you write will be but theory and that
founded upon the observations of others.

Perhaps there is no one cause
of disease with deleterious effect upon the
human constitution which is more
common and to contend optener than with Malaria,
and what is Malaria? it was a question
which the wise men of old and still remains
unresolved; various conclusions have been

derived at, but none have proved satisfactory.
All we know is that it is produced
in certain species of marshy plants,
in a certain manner when exposed to the air
the sun's heat, air and water necessary
for its production. Further, other elements
also being sufficient to produce it. In all
are required; if it were not so we could
find it where abitrary among them, for
when the deep and are exposed to air, water
and the greatest heat, yet it is a noted
fact that it is not common among them,
unless they have passed a portion of time
on shore, nor again are air, moisture
and earth sufficient to produce it in our
northern countries that diseases produced by
Malaria are unknown, the more so that a

certain degree of heat is necessary.

Italians and Germans have some
similar districts giving rise to the theory
that it is the result of vegetable decomposition,
this was the theory of the older writers, and
in 1788 M'Cord by adding the following
to what he had said before, has supported
it. "The soil in which the water is pro-
duced with vegetable productions has been
made by the observations of others, who have
found it to exist with most malignant
pests upon sandy meadows and among
water-springs, both near and far from where
it is seen. The water and vegetable productions
of man and beast are committed to the
soil and animal life by means of which a
multiplication arises. This may appear
to be first of all in the case of animals,

from the porous earth which has been saturated
with water and is being dried up the heat
the less, the more rapid the drying process.
The most malignant is the blackish variety.

This is not alone in being affected
in this way, but the inferior animals are
most affected, as is known by the obser-
vations of Dr. Gould who states that
in the rainy seasons of the year all the animals
in the more barren portions of India suffer
from a disease called blackish,
which is caused by the action of the
sun on the skin of the animal.
This is caused by
excretion of the animal which
is injurious or not; we do not know
why, or we do know some of its peculiarities
and effects which we have now, which coincide

the water is very shallow, and it is
dry, along the banks of rivers, and on the
parts which are subject to overflows at
flood seasons, and even in more exces-
sive parts where it is very much influenced
by the water of the stream.
When it is after the heat of summer,
and it is the rather the reason the more
it will be shallow, and
it may be immediate and transient,
or it may be extreme and successive
and lasting, until some change in the
character of the soil or climate
will cause a permanent change,
and a more or less permanent
intermediate condition.

can be harbored in the ulcers, although
it may escape during the crisis, or
during periods of severe slumber, since the
ulcerous state, both in body and mind, en-
ables it and similar forms to remain. But
there is one point where it forms an exception
to the rule, it is not known, in which
it is more tame and better than in other
or marshy districts where it is almost
certain that it is a pest.

Although *Braineria* exists in the air,
it is not often seen in the open
air, and even then it is not abundant.
It is however, to be found in open
waste places, and in the silent
and quiet corners of the woods.

the war and other malignant influences,
and it is evident that the same
will occur. The same will be
the case throughout the world
and over every part of the globe.
The same heat, the same
same waves in the atmosphere,
which are as yet mere incandescence,
will result from electric energy or
from nuclear attraction in a manner
which is hard to understand.
This action seems to be more
oblique than direct, and
more of a reflection.

man to sleep upon the ground in the
open air at night in such places is certain
to bring on an attack of fever. Malaria is
nowhere to be found except where

the disease has been
brought in by the people
overrunning the country.

It is now known that the
disease is spread by the
mosquitoes which are found

in swamps and marshy
places where there is a
large amount of stagnant

water. These insects are
found in great numbers
and are breeding in the

swamps during the rainy
season and are found
in great numbers in the

swamps during the dry
season and are found
in great numbers in the

... we do not know why so many trees and shrubs
are attacked by it.

A peculiarity of miaema is its absence
from large trees where it seems to
exist but in bushes, and therefore it is the
most dangerous disease to young

woods. It also seems to be destroyed
gradually by cultivation and draining,
and is now in those places which formerly
contained miaema, but have become
comparatively healthy
and free from malaria and its effects.

Having examined its peculiar properties,

some of its effects upon plants

and animals, I will now proceed to

the following subjects:

a village of medicines, such as

the following, which are

the commonest in the first attack.

They have Intermittent fever or the

blue which perhaps is the mildest form in

which it attacks our race when acting as

a disease caused. This disease is known

as the tertian fever, or the blue fever,

which is composed of three stages

and consists of three stages and manner-

It is composed of three stages and manner-

his teeth chatter and sweat abounds soon,
on his whole body, seems to be drawn up into
as small a space as possible; his skin be-
comes rough and burns like red hot coals
though he were suffering from intense cold, the
sensations become altered and diminished in
magnitude; this is called the cold stage.

After this stage has lasted a certain time
reaction takes place and the patient is alternately cold and hot until at length the
body resumes its accustomed conformation
and size, and the skin its former color, but
it does not stop here, the heat increases,
the skin becomes hot and dry, the face
flushed and the pulse full and frequent,
the temples throbbing with a different kind
of headache, the urine is still small in

and in the evening, after a few hours,
it will become like a boil, it is often very
hot, the suppuration creates out the other
suppuration abates, causing the swelling
to diminish, but it is not properly healed,
and it comes off in patches.
In such a disease as this, if it
comes every day, the disease is named according
to the interval between the paroxysms, the
ones which occur every day are called quoti-
dens, every other day, tertian, and those
which take place every third day are called
quartan, and those which occur less
frequently are common. The earlier symptoms
are of a violent pain in the head, and
of a high fever, and a slight swelling
in the head, and a slight pain in the

connection of the sun and its conduct, the
heat is caused by this conduct. The moon
also has a similar effect, it may
be very sinking the respiratory and
circulatory functions, deranging the whole of the
animal viscera, especially the spleen, which
is sometimes so much enlarged as to be visible
even in thous. The abdominal inquiry,
this enlargement is so common as to have
acquired the name of the Urgo-Cate.

from this we will see more about
the climate. In temperate countries
the climate is mild intermittent and
moderate, whereas in hot countries their
climate is a heat, which
we will consider.

Treatment in the first place attend to

and when the first symptoms appear
it is administered dilute the stimulus, in the second
stage cold fomenting and cold dressings
will be found agreeable, with effluvium dressings,
which will be thick or revealing, stage the only known
remedy is to protect well that the kerion
does not become exposed, but the covering
must be gradually removed, during the
intermission the only reliable remedy is
Cinchona or some of its compounds, the cinchona
of Guiana being the one most used and
most popular among the complexion.

The best treatment
is to remove the
kerion and cover it
with a cloth and
the patient should
not be exposed to
the sun.

in camp, mainly at Cazier's, and will
see what I have to say; I want
you to do the same.

You will no doubt be well acquainted
with the species which is essentially the
same as *Interpositus*, differing only in
the size, the color and the markings.
They are distinguished by their baroxenia and
habits, although in Remington they are
not so distinct generally as in the other
two species. They are found in
the same place as *Interpositus*, but are
more common than the latter, and
are common enough to have given to the
name of *Hibana*. This is

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and you can do little more than
to make a beginning towards it. And
in this nature and art are often incon-
sistent. To take the case of the author
of "The Different". In one case it
was written with the word "rich and
poor", or the contrary adjective will fit
and in others lessened by various other
causes, these different conditions
and different treatments. He does not
know what he wants to say, and
therefore cannot say it.

He has a good deal of material
but it is not well organized, and
he does not know how to use it.

bulse thickened and the contraction violent.
The disease usually begins with a chill, the
face pale and like bark-like contraction from
the nausea and vomiting, heat and pain
in the head or extremities, etc., and it may
last for a few minutes or for hours. When
reaction takes place the patient becomes un-
feeling, hot to skin, flushed, respiration
paus'd, the pulse increases in frequency and
strength, and the surface generally becomes
reddened and expanded. This exanthema
continues usually from six to twelve hours,
when if the disease be of a mild form or
has been subject to proper treatment, the
cession takes place; the surface becomes
cooler and more moist and after the epithelium
decreases the patient begins to recover.

comfortable until the next morning when
after the sleep continues day and the patient
uneasy with no inclination to sleep.

The organs principally affected in
this disease are the liver and stomach, and
as the symptoms of former or the other predom-
inate so the fever is denominated Gastric
or Hepatic, but in general there is a complete
blending of the phenomena attending the
disorder of both organs. The duration of
the disease varies according to its complications,
it may continue for a few days or run on
for weeks, in general it lasts from nine
to fifteen days and when it subsides longer
than this it is apt to run into a fever
presenting typhus and designated as the
typhoid stage. The course in this

Cherry blossoms were in full bloom
in the park. The trees were covered
with pink flowers. The air was filled
with a sweet fragrance. People were
enjoying the beauty of nature. Some
were walking under the trees, others
were sitting on the grass and reading
books. It was a peaceful and
beautiful day.

and the same additional figures and maps as

the one now given to those who
will be interested in the

and the results of the work will be
published in the

and the results of the work will be
published in the

and the results of the work will be
published in the

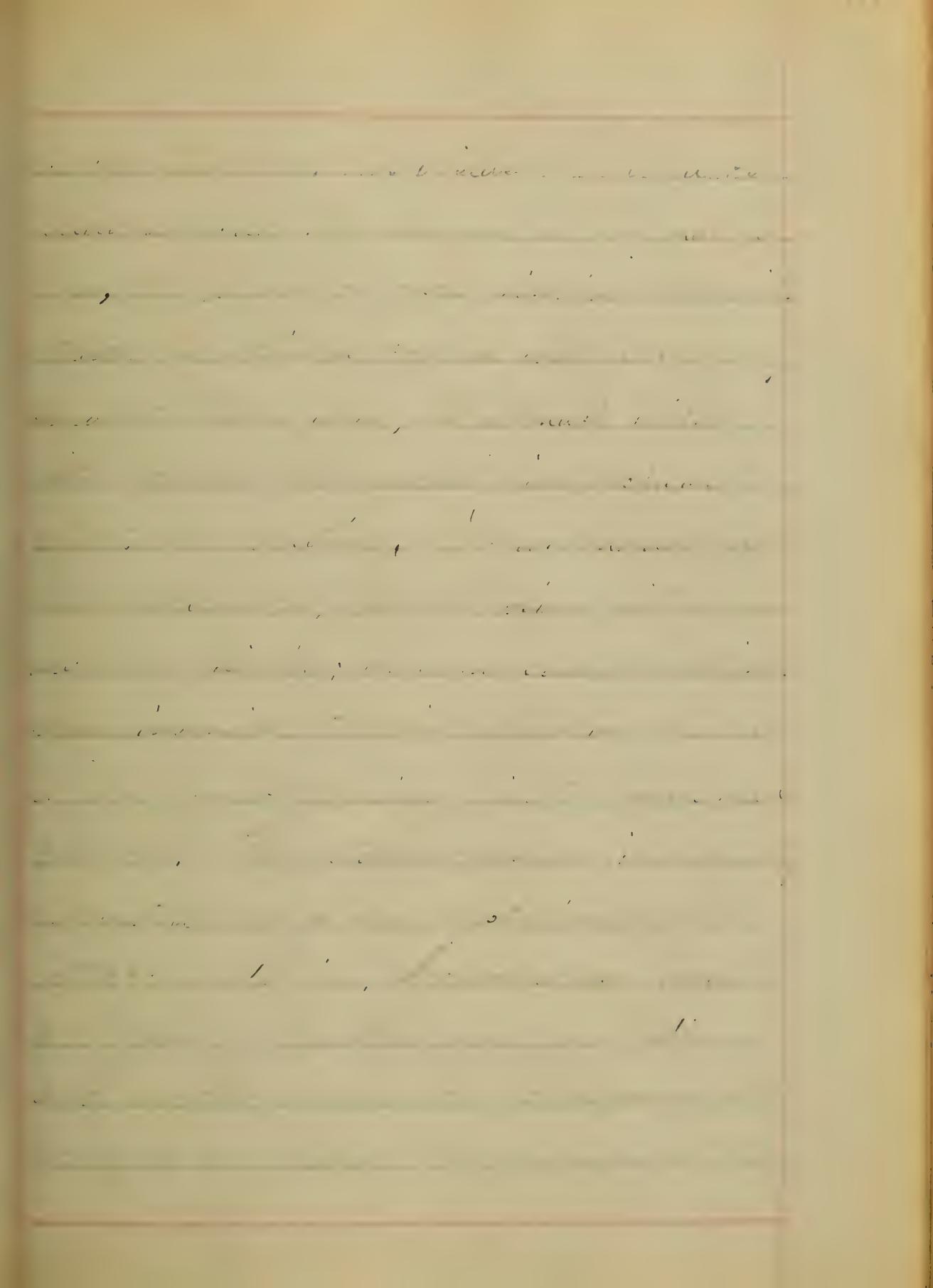
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and the results of the work will be
published in the



Altonaer sind der bestreit

Regierung ist die einzige, die
die Verbindung zwischen dem
deutschen Reich und Preußen
aufrecht zu erhalten.

Die Regierung will das
nicht tun, sondern sie will es nicht

lassen, dass die Regierung die
Verbindung zwischen dem

deutschen Reich und Preußen
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and the hillsides are covered
with dense vegetation, which consists
of evergreen trees and shrubs, and a few
smaller trees, such as the cedar, pine,
and cypress. The soil is very poor,
being composed of sand and pebbles.
In the lower parts of the valley,
where there is more water, the soil is
more fertile, and here we find
the forest of cedars, pines, and
oaks. The soil is also
richer here, and the vegetation
is more luxuriant. The climate
is very warm, and the days
are long and bright. The nights
are cool and pleasant. The
people are friendly and hospitable,
and the country is beautiful.

head will discover the spot, afterwards
they should be evacuated one or twice during
the day; either the removal of the pus in the
rest indication is to remove suppuration, as it
has a tendency to modulate the pain exacer-
bation and makes the remission more complete.
The following draught will be found the
best remedy for this purpose. In those cases
where there is a tendency to inflammation
local bleeding may be used to assist. The
local pain and congestion to the fibrous
tissue and skinning will be found rela-
tive to the patient and will also tend to
shorten the exacerbation. The vomiting will
be relieved by a few cups. leeches or a blis-
ter applied to the epigastrum. In the
advanced stages Dovers powder will

fever, an expectation of, existing in
a pleuro-pneumonia and mild influenza.
When there are no indications of inflammation
of the brain or stomach, a vaccine should be
injected too as soon as a remission takes
place. Vaccine given just before an expected
attack will often prevent the paroxysm.
In all cases of Remittent fever, where there
exists inflammation, Mercury will be found
an admirable remedy and exceedingly
useful when bleeding is contraindicated.
When the head is hot and painful the ab-
sorption of cloths wet with cold water
will be very agreeable to the body of
the patient. Restlessness and wakefulness
may be overcome by 14 grains camphor
or sweet spirits of wine.

During convalescence patients should
be exercised with regard to heat and
exposure to inclemencies. In the treatment
for the first object should be to bring on
reaction. Bottles of hot water, heated brick,
placed near the surface, helichrysum or
hot water and mustard and friction to
the spine will be found efficacious.
Internally opium should be given for its
stimulant effect and to arrest the dis-
charges from the bowels. Should these fail,
aloes may be had to carmine, tin-
monia and alcoholic stimulants. sulphate
of Quinia may be of advantage in this
disease also and may be given during
the paroxysms. These are the remedies useful
in the different forms of remittent fever.

and the practitioner will be governed in
the use of them according to the case.
In addition, I have now stated the
principal effects of Malaria, but there
are several other complaints in which it
acts as a powerful agent which demand
a passing notice as we leave the subject.

Dysentery often prevails in Miasmatic
districts and assumes an intermittent or
perpetual form, sometimes as a separate dis-
ease and again accompanying the Miasma-
tic fevers. When fever occurs, preceded by a
chill for two or three days previous to the
colitis, there can be but little difficulty
in the diagnosis; but where they occur
together or where the dysentery precedes
the fever it is not so easy to recognize

The true state of the case will be rendered by
paroxysms occurring every day or every other
day, and then relaxing, will enable us to
make out a correct diagnosis. During the
paroxysms there is more striking in the
face pain in the head and arterial
excitement than in fever colds, it is im-
portant to make out a correct diagnosis
in this affection in order to treat it properly.
We should first evacuate the bowels thor-
oughly and then administer bark or Quinine
or ^DMesminia is often complicated
with miasma either it prevails in the
form generally in the autumn and winter
and is brought on by cold and wet in
constitutions which have been exposed
to miasma during the summer.

It is commonly called bilious fever, but although the biliousness is sometimes affected yet the bilious fever is not the name as is indicated by the usual perception and auscultating sounds of pneumonia. The chills & fever usually come on a few days before the symptoms of pneumonia; when the complaint is at its height we have in addition to the symptoms, headache, a jaundiced condition of the skin, nausea and vomiting of bilious matter and deep colored urine. The fever occurs generally in daily paroxysms with an almost entire remission. The proper treatment is a combination of the remedies found useful in the two diseases the most important of which are Mercur. & Quinia. Calomel &

operate on the secretions and to check inflammation, and Quinine for its antiperiodic effect.

Neuralgia often assumes such forms as to leave no doubt but that this same poison acts as an exciting cause. The paroxysms are sometimes of short duration and in other cases they are long continued followed by remissions more or less distinct. Most commonly these attacks are nocturnal, but they may and do assume other types. Neuralgia when not at first intermittent will often assume that form, for which the physician should be on the watch as then he may be able to control it by antiperiodic remedies. Again

Do we find Quinia the remedy most to be relied upon, but arsenic has often been used successfully, and should be employ'd when Quinia fails.

There are other complaints which assume an intermittent form indicating the influence of malaria, but I will remain content having related those which are of the most importance.

University of Maryland
Section 1865-6

A Case of
Acute Bronchitis
and Chronic Dysentery,
By William A. Clegg,
of Essex County, Virginia,
and of the Hospital
of the Faculty and Law
of Regent.

Cystentis.

This is inflammation of
large intestine, no
so with blood or mucus.

It is a disease, ~~which~~,
indeed in the abdomen
and rectum, ~~which~~,
it attacks. The disease may
occur in any part of the
abdomen being almost
always consequent upon
inflammation. Such being the
~~case~~ ~~that~~ ~~the~~ ~~case~~ ~~is~~
we quote from, referring
to it "The symptoms and
Treatment of the Disease".
Cystentis may occur in
either of the following

very incomplete, or it may
seize the patient suddenly;
severe intestinal pains
black mucous discharges,
straining at stools, and
while excitement, coming
simultaneously.

In the disease comes on
suddenly, it is invariably
preceded by one or
more of the following symptoms—
fever, diarrhoea, loss of
appetite, and a feeling
of languor and debility.
It's a general thing
in the beginning of the
disease to have a

I consider the condition,
the discharges are more
less feeble and mix-
ed with bloody, or mu-
cous matter. As the disease
progresses the pains in
the head, the in-
flammation in the rectum
increases. The stools
are more painful and
frequent until they
are watery. The con-
dition of the patient
is considered as a symptom
of the disease.

to the disease and were
still further they
continued to find
hardened pieces or scabs
and adulterated bile,
and bubbles of gas
emanating from the
testes. This was es-
pecially the case when
a small portion of
tallow was the article
when there is tendency
to hardness when the
fetus is it seems to be
as a sore like that
complaint is in the
scabbing of the skin

There is almost
always some
dissolution. The pulse
being weak & the
stomach, the skin hot and
dry, the tongue
yellow & thick,
when the disease
continues long, be-
ing otherwise dry, the
disease may become
complicated and ag-
gravated; The patient
becomes fatigued
almost hopeless the
body weak and the
frequent, the tongue

recess with a white
cushion. The stools are
white & green, and the
table is made from
the couch.

The rest of the room
was, one of the most
handsome pieces of furniture
we have ever seen, and
it was after having a war-
like room at last, and after
having been heated by
several hours. This
is the first time I have

and incrustations, which fullo
the lumen and
and insusceptible
to the usual
treatment.
Aspergillus
avornatæ is sometimes
the cause of the disease.
It is then seen with
extreme difficulty
in the sputum
and being present
for a long time
the disease may
be easily overlooked
and during the
first weeks of the

Proceeding from

the same source

in the liver, or

called bilious dys-

-try, in which case

there may be a diur-

ism or a morbid

action of hepatic

secretions.

Diarrhoea is not in a large

majority of cases fatal, con-

stituting a favorable turn

in six or seven days. When

The disease takes such

a turn it generally turns

off in either direction. The two

extreme forms being

and frequent and laboring less severe with
less painful intensity. The
uterus is hard and
continuous pulsation. There
is a purplish hue under
the skin about the uterus, and
pulse is very
full and rapid. The
patient was pregnant
has delivered and the
uterus involution shows
no one of the usual signs
of trouble except a slight
tension difficulty and in
some cases from pressure
is relieved from the tension.

The process we have described
the Cysto-sphincter will soon
much inflamed, and some-
times ulcerated. The infi-
lammation sometimes has
crept itself over the
whole of the intestine.
It is now rare that you
but the inner coat is
inflamed, but some-
times you see that
wall is sometimes
raw, and that
the lining of the gut
is ulcerated, and the
ulcerated mass be then
changed into the cyst.

Mr Smith with the
view that this never
can meet the voice
so here previously dis-
cussed, The action or
lack of action of the
Senate will be the
subject of judgment and
from the discussion had
hitherto, it appears to me
that no one has been
more unfortunate in
the publication of his
views than Mr Smith who
is a malignant or
peculiarly vindictive

is found to be more
frequently, mortified or
decayed, than in the
more common tumors.
The treatment of this as
of other diseases, m-
ust depend upon the state
the system of the
patient affording
the malady, and which
it is in complication
with other disease,
whether it be malignant
or non-malignant
agents, and are often
incurable. There is
now no doubt that

offending creation, etc.
Then the author comes
suddenly by keeping
it in abeyance, to
convey the sense of all
offending smallness which
are likely to accumulate
to constitute the following罪。
In addition to the things
which we already
inferred out of this.
Cathartes are more
beneficial than the great
stages of the disease,
because the use of the un-
washed feathers is reported

the dose of Senna
is followed by some
more active aperient,
it causes it to remain
unabsorbed longer & is
almost ^{excreted} undigested.
S. Calocarpum is generally
used in decoction & given
in the dose of 3 drams
to 6 drams & left
alone, to be followed
in the course of 24 hrs
or two hours by a decoction
of the leaves of mulberry
the former not to exceed 10 drams.

Oil and Camphor
are very beneficially
used in the
cold stage of the Disease
producing a soothing effect
on the bowel. When the
patient is very weak
the oil may be omitted
and replaced by the Camphor
the effect being not
so debilitating. Local
Camphor is however
not so effective, unless the
patient be of a flabby
habit. There is no
inflammation and fibri-
late exudiment, Local blood

acting by the application
of water or the other solu-
tions of Tartaric acid &c
and I am the first to con-
clude that it is the
same with the recto-
rachis which is
afflictive also to
the Colon; Opium is
very valuable in
treating, and is very
useful to strengthen
the heart & liver
providing the latter
is not weak. It is
useful also when the
rectal tube is not

relieve pain and
soothe sleep. A very
good result is frequently
obtained by the
use of the following
and precious balsam, in
the proportion of one
grain of Opium one of
Balsam and one of
Sugary to be given every
one or two hours. It
will be found to agree
with the patient's condition
becomes so changed
in a short time so
that no more is
needed.

while the man
and a woman
of the old age
are the most
likely to be found
alive in the prison.
A half to a grain of opium
and two drams of the
black pepper were
given him in
the last stages of
his disease, which
of course is now
so as not to live.
He is a man
now living in prison in
another State.

tion of the species
is constant.
The condition of the soil
and water is important
in the production
of fine grain, but if
water is too hard,
infestation of insects
leads in the production
of fine grain of bad
in poor masses of water
are also harmful.
Soils must contain
water the first time

medicis. when there is
and there is
over the Epigastric
region & sometimes
at relief sometime,
but often stands the
stomach loose, with
no relief by any
means.

Chronic constipation
is frequently associated
with ulceration, the con-
stipation being the
cause of the ulceration
in one, present
at the time of the
onset of the disease
and the constipation

The climate here,
though this is indeed
as it always was, the
climate of the last
two or even years, is
materially affecting
the health of the
people who are living in
the country. The
climate is very
dry and hot, and
the air is full of dust
which is injurious
to the lungs and
is particularly
dangerous to those
who have weak
lungs. The
dust is very fine
and is easily
inhaled into the
lungs where it
causes irritation
and inflammation.
This is particularly
true in the summer
months when
the heat is
greatest and
the dust
is most
abundant.



the patient take more
dissipate liquid and
not allow the stomach
to become too full.
Mild cathartics
are indicated, I mamma,
and the like. Senna will
be substituted, and the like
and the best. Opium, Ipecac,
and Calomel are irrationalized,
when there is some -
or much of the belly -
swelling in over two hours.
Fever is treated with
very small doses of men-
struum or emetics when
of the former the action

Chile and Laudanum in
small quantities is a good
refugee in the advance
of the disease.

In considering the effects
that light and regular
and moderate walking do
upon me I am anxious.
I have thoughtfully it's
been over various and the
different forms of the
disease, I can be
more tractable than to the
Faculty, Hoping, they may
met their expectation.

Yours truly yours

John C. H. Jr.

AN

Inaugural Dissertation

ON
Asiatic Cholera.

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

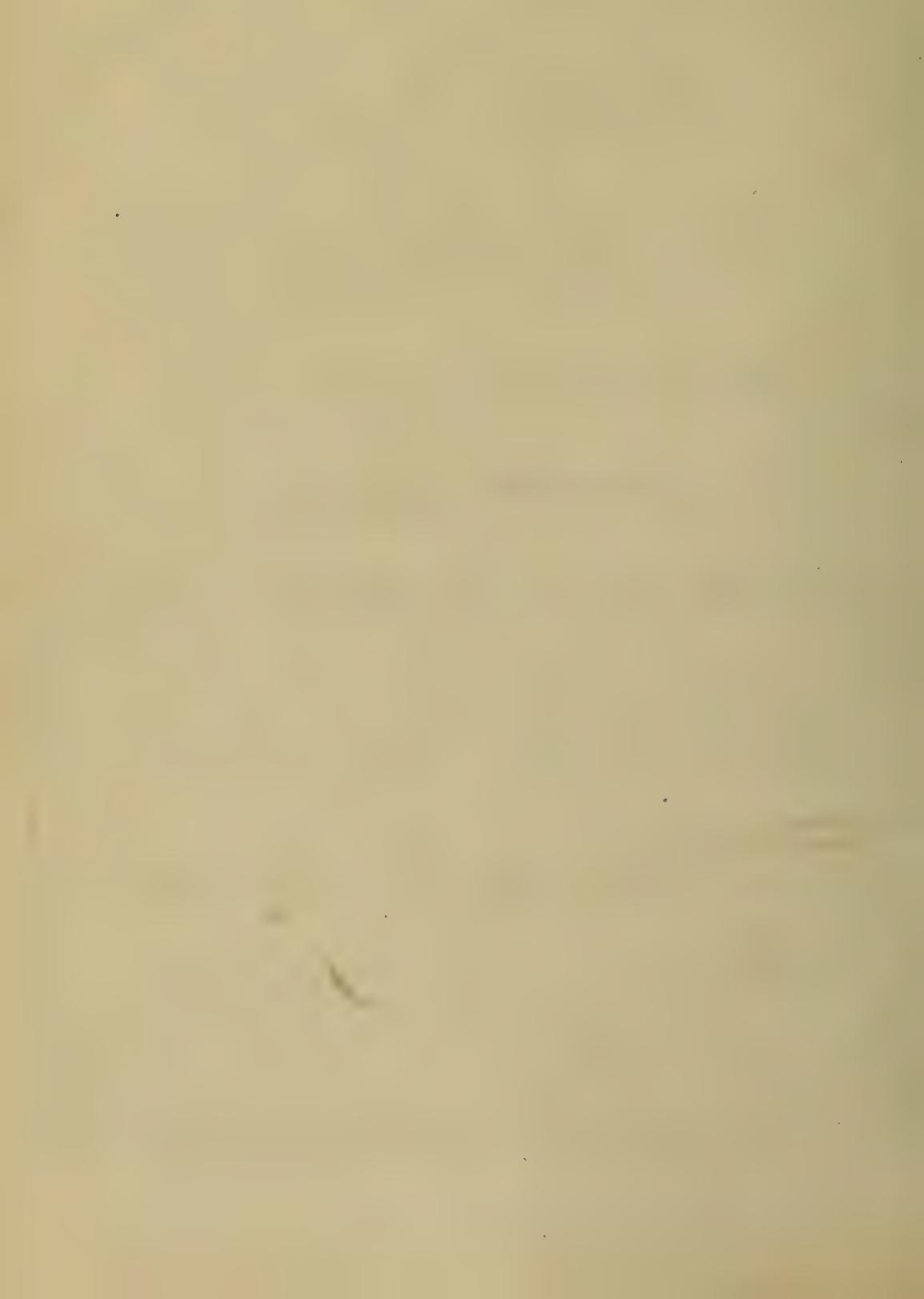
William H. Curry

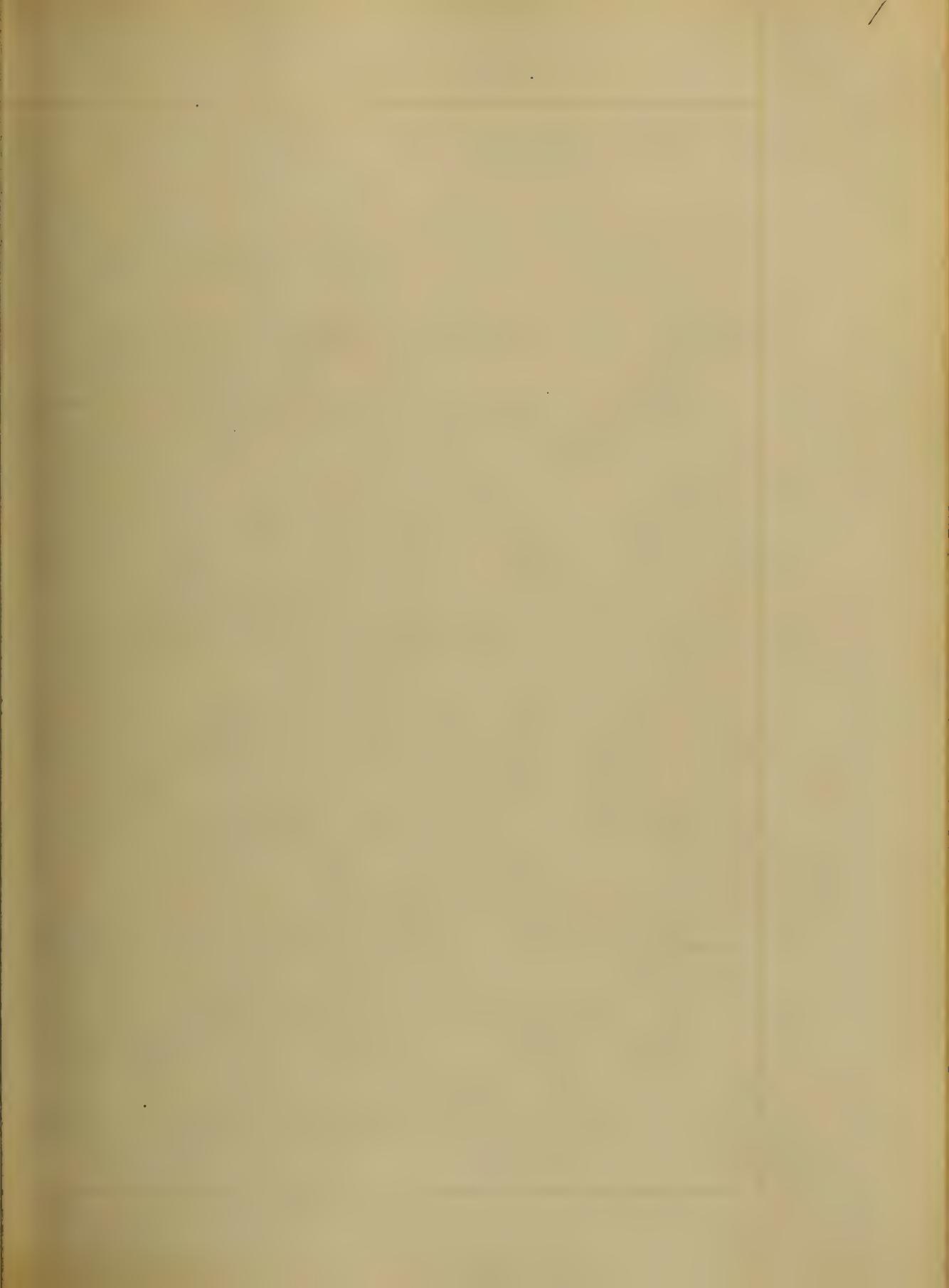
of

Baltimore Co. Maryland

Session Second

1866.





Cholera is by no means a new disease. It has long been endemic in India, but not until it broke out with great violence in Bengal did it begin to attract much attention from the medical profession. From this centre it commenced its deadly march until it had encircled the entire globe.

In its fury westward it successively attacked the cities of Central India, and crossing the mountainous regions found its way in one year to the western coast of this peninsula. In 1819 it had reached the Isle of Bourbon.

At the same time advancing east and south-east it soon established itself in

Siam, Canton and the Philippines Islands.

Subsequently it reached the northern parts of China & Tartary, and after traversing the whole length of Asia it appeared in 1823 in the Russian city Astrakhan. Here it paused and several years elapsed before it commenced a new career of destructive invasion. It did not fairly enter Europe until 1830 when it attacked Moscow, and taking a westerly course it successively visited St. Petersburg, Warsaw, Berlin, Hamburg, reaching Paris & London in 1832, and in the same year overleaping the barrier of the Atlantic appeared in Quebec & Montreal in June.

and thence pursued a rapid course to the valley of the Mississippi. On the 24th. of Jan it brok out in New York; then advanced rapidly up the Hudson & southward to the Delaware and Chesapeake Bay, reaching Albany on the 3^d & 4th July & Phila. and Baltimore a few days later in the same month.

It is unnecessary for me to point out minutely its course as it visited almost every inhabitable portion of the earth. Suffice to say it lingered as an endemic in India, and in 1847 it commenced a new march of desolation, pursuing a singularly corresponding course with its first invasion, both as to the sweep of its

regions visited, and the period of its approach and departure. It reached the shores of this country again at the close of the year 14th, but not until two years after did it assume a very violent form, except in the valley of the Mississippi where it raged in Dec. 1848. In 49 it took out in New York & Philadelphia, and after visiting many parts this side of the mountains, it took a fresh start from N. Orleans, and after spreading along the tributaries of the Mississippi, it crossed the whole breadth of the continent, reaching the Pacific coast in 1850, attacking in the same year San-Francisco & Sacramento.

It appeared again in this country in
1854 since which time we have en-
joyed a period of exemption. But
at this time we are looking for-
ward with fearful apprehensions to an-
other invasion with the approach of
Summer.

From the brief account of this
disease given above, it will be seen
at once, that its march is extremely ir-
regular both as to time and direction.
Sometimes it advances slowly, some-
times with great rapidity; pausing for
a longer or shorter period, giving hope
to the sanguine that they may ultimate-
ly escape its ravages, only to dissipate
their fondest anticipations. By such

and unannounced falling upon them
probably in the still hour of night, or
while engaged in their usual occu-
pations, and leaving their inanimate
forms to tell the story of its destruc-
tive malignity.

Generally its progress is arrested in
winter, tho' not invariably so; for
instance at Moscow it prevailed
the most part of the winters of 30-31;
and in the Tho. Valley in 48-49.

It is not absolutely confined, tho'
preferably following the course of
streams; affecting low and damp pla-
ces, and attacking filthy and crow-
ded portions of populous cities; but
occasionally appears upon lofty moun-
tains.

in the midst of sandy deserts, and among
the inhabitants of sparsely settled dis-
tricts. No barriers seem sufficiently
strong to check its progress; it leaps
over mountainous crevices deserts & oceans,
obeying neither wind or tide. All
classes of persons, male and female,
young and old, the robust and
feeble are exposed to its deadly as-
sault; yet as a general rule it
selects as its victims those who are
already pressed down by the vicissi-
tudes of life, & show some predis-
position to take on a diseased ac-
tion of this sort. This also ex-
ceedingly capricious and erratic
in its course, leaving towns and dis-
tricts

in its time contracted, and seizing upon others, apparently no less favorably circumstanced. The period of its duration is from one to three months; & when it prevails in the same place more than once, it is usually of a milder character.

Course and Symptoms. In places which it selects to manifest its deadly effects there is usually experienced to a greater or less degree some disorders of the stomach and bowels, which precede its approach amounting to slight attacks of dysentery or diarrhoea; but very frequently the premonitory affection assumes a more decided character, and without amounting to cholera, resembles it

very much. The latter symptoms have been termed by French writers cholerine. This is in fact often constituting the first stage of cholera; and even if it does not subside spontaneously, yields kindly to proper treatment; the attack upon exposure of patient to any exciting cause to be aggravated into cholera.

It generally attacks when the epidemic influence has attained its adequate intensity in the lowest orders of the community. These are soon followed by others, and the numbers gradually increase until the disease reaches its acme, when it rapidly subsides and finally disappears, bearing behind it that same tendency to affliction

of the bowels which had warned us of its approach. The attack often occurs after some indisposition in diet or exposure; occasionally comes on with loss of appetite, pain in the back and abdomen, vertigo, ringing in the ears, feeble, impaired vision, copious sweats &c; and in the midst of these or similar symptoms, generally after a longer or shorter duration of cholera, but sometimes without any forewarning whatever, the patient is seized with violent vomiting and purging, attended with severe pain in the abdomen & cramps of the voluntary muscles, especially those of the liver lively. The first evacuating when the attack is sudden, consists of

the ordinary contents of the stomach & bowels: the defecations which follow are thin and watery, whitish color, resembling runt-whey or rice water; and when allowed to stand, separate into a colored liquid, and a white flocculent insoluble matter which subsides. The matter vomited is usually the same as the stool. The cramps generally begin in the extremities, especially the calves of the legs, subsequently extending to the muscles of the abdomen and trunk, which are exceedingly painful and almost incessant, the muscles gathering into hard knots, one contracting as another relaxes & often distorting the fingers and toes in various directions.

The pulse now sinks rapidly; the extremities become cold; the features shrink, the patient is restless & complains of intense thirst; the surface of the body is bathed in sweat; the urine is scanty, and the skin assumes a bluish leaden or violet color. As the disease advances the evacuations become more copious & watery, and the concomitant symptoms increase in severity. The tongue and breath become cool, the hands and feet shrivelled and wrinkled, the conjunctiva dry, the secretion of urine and tears suppressed; respiration short, hurried & oppressed, and every symptom indicative of extreme prostration. One step further and he

passes into the stage of Collapse. The pulse now becomes imperceptible; the movements of the heart are oscillating and feeble; the blood stagnates in the capillaries; the features and whole body are shrunken; the voice is feeble or quite extinct; and the whole body has the appearance of death except the eyes, which sometimes retain an expression of intelligence, and seem as if they were looking out of a corpse. The evacuations sometimes continue till the close and are at last involuntary. The patient sometimes retains his intelligence to the last, or in some cases a period of stupor precedes death, which last may take place in four or five hours.

from the commencement of the attack, though more frequently occurs in one, two or three days.

I have thus briefly alluded to the general course and symptoms of this disease as it tends to a fatal issue, but, though a terrible complaint, is susceptible of a favorable change either spontaneously or under treatment, at any stage, even in that of collapse.

If it is arrested early, the patient sometimes enters into a speedy convalescence without any subsequent embarrassing symptoms; but not unfrequently some slight intestinal disorder continues for a longer or shorter period. But if the collapse has begun before a favorable change occurs, the patient has

great dangers to encounter, and recovery when it does take place is slow and tedious.

One of the most favorable changes in any stage of cholera is the appearance of bile in the evacuations. The secretions gradually return, and if there is no relapse the patient goes on to gradual ^{or} sometimes speedy recovery. Unfortunately, however, a relapse sometimes follows and the patient sinks with all his former symptoms. Much more frequently we may have to deal with one or more of the following sequelae: typhoid, gastric or remittent fevers; eruptions affecting; pneumonia, bronchitis, pleurisy or perhaps some cerebral disease.

The convalescence from these secondary

disorders is often very much protracted. I have
will not permit me to allude to the various
the symptoms of cholera, and I must there-
fore content myself with the brief con-
sideration of general symptoms given
above, from an examination of which
it will be perceived that a fully de-
veloped case of cholera, running through
a regular course, generally exhibits
four stages, viz. The first or form-
ing stage consisting of a simple dia-
rhea or cholericæ. The second is that
in which the symptoms of cholera are
decided, but the system has not yet
sunk into that complete prostration, which
state is termed collapse or the third
stage. The fourth is that of reaction.

All these stages do not by any means occur in all cases. The disease is often arrested in the first, or second or may prove fatal in the third, and sometimes the second or ^{even} third stage comes on apparently without any proeminentia.

Anatomical character. At the death spasmotic movements of the muscles are sometimes observable, and the temperature of the body, not unrequently, rises after all signs of life have ceased. The whole arterial system is emptied of blood with some slight exceptions, while the venous system is gorged with black, viscid imperfectly coagulated blood. Almost all the tissues of the body, with the exception probably of the lungs and of the



exhibit signs of venous congestion.

The peritoneum is observed to be dry as well as the serous membranes generally; and the small intestines have a rose or violet color. The mucous membrane throughout the intestinal tract, is more or less reddened, and the parietes of the bowels are thickened in consequence of this recent congestion.

The whole alimentary canal is found distended with the same fluid of which the evacuations consisted; the different organs exhibit no abnormal characteristics, nor display any striking lesion except the venous engorgement already noticed. The white flocculent deposit in the evacuations

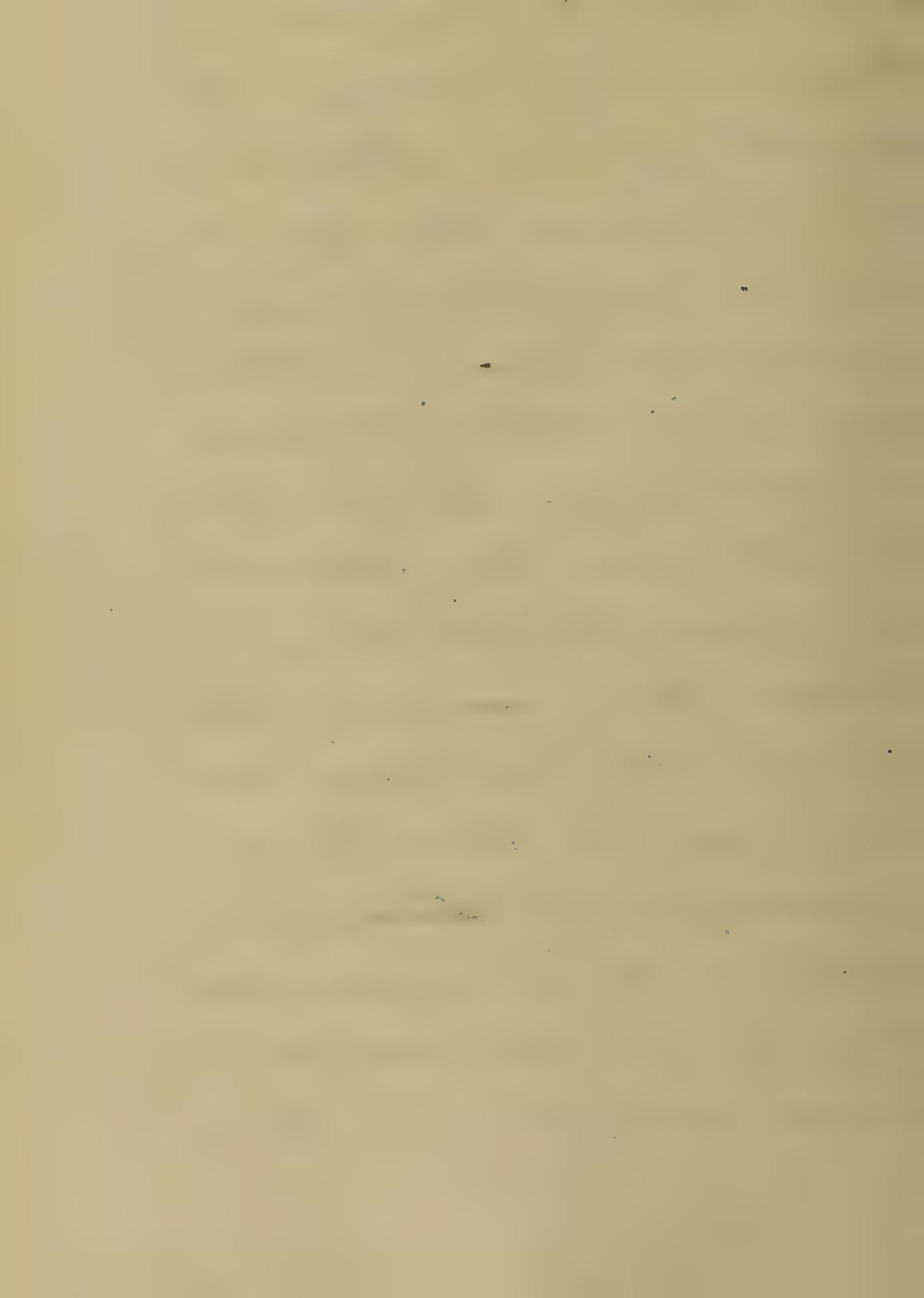
have been ascertained by Dr. Boettcher
of Berlin to consist mainly of the
disintegrated epithelium of the alimentary
mucous membrane.

Causes. There has been considera-
ble speculation upon this point and
the question still continues to excite
a great deal of controversy. At
the present time most medical men
seem agreed that the cause of the
form of Cholera is a peculiar epi-
demic influence, the specific charac-
ter of which, however, is unknown at
yet. — a highly poisonous agent
the existence, increase, and power of
which, and also transmission from
place to place is favored by some

particular state of the atmosphere.

Filth of all kinds encourages the action of this poison. From the best recorded evidence we have upon the subject, the many distinguished physicians held opinions to the contrary. It is certainly to some extent contagious; that is, that human intercourse has some influence in propagating the disease; at the same time remembering that cholera, like other contagious disorders can only be taken by a person predisposed to disease of some sort. The predisposing causes are numerous and varied.

Old age, intemperance in food



or drink, impure air, grief, fear, anxiety, sudden exposure to cold when the body is warm and perspiring, indigestible food, unripe fruits & crude vegetables; an inordinate indulgence of the passions; in fact anything which is calculated to depress or excite the energies of the system alone or below the standard of health, is calculated to light up the disease in persons exposed to its specific influence. The manner in which the poison enters the system thus not yet been satisfactorily solved, some contending that it enters the blood through the skin through the lungs, - which is prob-

ably correct - while others, among them Dr. Snow believe it enters through the alimentary canal. This subtile agent is supposed to act either through the blood primarily or through the nervous system, especially on the organic nerves, the sympathetic, which supply the contractile property to the arteries, intestinal canal, & organs of respiration - producing a kind of tonic contraction thus emptying all the capillary vessels into the great central veins. This view may account for the great venous engorgement, defective aeration of the blood, and as a natural

consequence its black, dark, brac-
ly appearance. This state of the
blood occurs only during the stage
of collapse, and offers a fair
explanation of the deadly or blue
colour of the skin.

Prognosis. In the first stage
or choleric it yields kindly to
treatment. Even when completely
formed if not advanced to state
of collapse it can be arrested
if properly treated, but in the
third stage medicine is of little
use; if however, in collapse, the
pulse begins to rise, the ^{skin} becomes
warm and the secretions return.
there is hope of a favorable termination.

Treatment. Owing to the absence of any definite pathogenesis of the disease, the modes of treatment have been very numerous, and as various as the susceptibility of the combinations of medicines. The whole Materia Medica has been ransacked from beginning to end, and ^{almost} every agent therein either alone or in combination has been tried, in hope of finding something to combat this terrible malady, but as yet no specific seems to have been found. We are glad however to know by experience that some agents do possess some controlling power over cholera, and

are encouraged to believe that so long this disease so mysterious in its nature and formidable in its character, will yield as readily to medical treatment as any other disorder. I shall not attempt to enumerate the many plans of treatment adopted by medical practitioners, nor presume upon your time or patience by any lengthy detail, but will briefly allude to a few, which according to the most reliable statistics, have been most successful.

The great object of all modes of treating this disorder

is, of course, the correction or removal
of obvious disorders of function and
a restoration of the system to its
normal condition: and one which
has borne the test of experience, and
which seems to meet the indications
the most promptly, is the following:
In the first and second stages
the object is to arrest as quickly
as possible the evacuation from
the stomach and bowels, to relieve the
gastro-intestinal irritation, to restore
the function of the liver, and sup-
port the general strength.

Among our best remedies for
these purposes are calomel & opium
in broken doses frequently repeated.

in combination with some good mineral or vegetable astringent when the discharges are very copious. Acetate of lead is probably the best combining agent, as it seems to have a two-fold effect - that of an astringent and also directly sedative to the mucous membrane. The following is a good formulae - R. Opium pulv. gr. j
hydras. chlorid. mit gr. jj. Plumbi acetat gr. xij.
Acacia pulv. Syrup a.a. q.s. Fiant pillular no XII. - one every hour or half hour.

The degree of severity condition of patient &c. will of course control the proportions & dose of the remedies. A general fact should be borne in mind, that in urgent

cases, it is necessary to produce as early as possible, a prompt and decided impression upon the system, which can afterward be maintained by milder measures.

During the administration of the above remedies the patient should have small quantities of carbonic acid water, the effervescent draught, or little cold ice water, or small pieces of ice. Sinaepisings should be applied to the epigastrum and anodyne enema administered to assist the action of opium by the mouth. Action upon the surface of the body should be protracted

by moderate friction with the hand,
a coarse towel, or flesh brush.
When the extremities are cold hot
stimulating fomenta may be
used. In some rare cases
where the pulse is full and strong
connected with convulsive symptoms,
cautious bleeding from the arm
will be serviceable. Diffusible
stimulants, such as camphor
and ammonia will obviate a
tendency to prostration and col-
lapse.

Cramps may sometimes
be relieved by steady and firm
extension of the affected muscles.
Perfect rest upon the part of

the patient, as far as is possible must be strictly enjoined.

In the stage of collapse, two more indications, besides those already mentioned present themselves viz. to check the excessive sweats and supply the loss of water & salts sustained by the blood.

The most effectual means are stimulating applications to the surface of the body, such as Cayenne pepper and brandy, tinc. of Camphor, liniment of ammonia etc. The hot bath rendered stimulating with mustard or capsicum was used by Dr. Bullar with the most happy results.

only restoring capillary circulation
to the skin, but in relaxing the
spasms of the organic muscles.

To repair the loss by the blood,
the patient should drink freely of
carbonic acid water, solution of bi-
carbonate of soda, animal broths, tan-
ley water &c., and enemata of
salt-water and laudanum should
be thrown up the bowels. Saline
baths are also beneficial.

When reac-
tion is established, the various mor-
bid disorders should be treated
upon general principles. Too
great importance cannot be attached
to the strict observance of proper

Hygienic rules.

Another mode of treatment is that adopted by Dr. Stevens, who holds to the doctrine that the salts of the blood are ~~in~~ ^{essential} agents of ^{its} arterialization: that in cholera the blood loses a large proportion of these salts by the copious evacuations; and he proposes to cure the disease by restoring to the blood its lost constituents.

This theory has found many favorites; and the success which has crowned this efforts certainly entitles this system of medication a prominent place in the class of remedies for this dreadful malady.

This plan is simple, and I will give
a synopsis of it.

Patients presenting
the premonitory symptoms - diarrhoea
and vomiting - are removed into a
well ventilated apartment, where an
even temperature is constantly main-
tained. A Seidlitz powder is
immediately administered; if sinking
is felt without purging, three or four
teaspoonfuls of Epsom Salts are added
to the powder. On these agents
acting, plenty of thin Beef tea well
seasoned with salt, are given; if there
is any pain a sinapismo is applied
to the gastric region, and thirst is
relieved with Soda or pure Water ad-

lethum. If cramps, coldness, or sinking of the pulse come on, the patients are considered as cases of cholera in the second degree. The following is then administered every half hour: Soda Chloride H. Sodæ Carb. 3*ss*. Potass Chloratis gr*vii*. dissolved in water.

If there is much irritability of the stomach a sinapism is applied; if much heat or burning pain an additional quantity of Carb. Soda. is added to the mixture. In case in the stage of collapse, a strong solution of the same salts dissolved in hot water (100° Fahr.) is thrown into the bowels and repeated every two or three hours. Frictions in the cold

stage: pure air, and well regulated diet. Sepid Dip bath, cold water poured over head, back & chest.

Other remedies have from time to time been used and with good success: such as the sub-cutaneous injection of Morphia, when it could not be administered by the mouth or rectum; emetics; and a number of cases have been reported, as having been successfully treated with Chloroform.

1866

An Inaugural Dissertation

on

The influence of Alcohol on the physical
and vital properties of the animal tissues
and fluids.

Submitted for examination

by

President and Faculty of Physician

for

the degree of Doctor in medicine M.D.

Charles L. Anderson

Maryland



Influence of Chloride on physical
and vital properties of the animal
tissues and fluids

The most important physical change
which the carbolic alcohol effects in
the animal tissue is that of coagulation,
which change is entirely due to the
difference in the capillary absorption of the
tissues for alcohol and for water, if animal
tissue come in contact with a mass of coagulated fibrin
it placed in alcohol in a fresh state there
seems at all points where alcohol and
water meet a mixture of the two, and, as
the animal texture absorbs much less of an
aqueous mixture than of pure water, a
larger amount of water is, of course,
expelled than of alcohol taken up; and

but it does not increase if the animal
consuming, for one volume of alcohol retained
more than three volumes of water have been
excreted. This corrugating effect of alco-
hol will usually increase by the corrig-
ing influence which it will exert over the
water stored about the tissue may continue
for these results will, of course, be pro-
portioned in their degree to the state of con-
centration of the alcohol; but some physical
change must always take place in the
cells of the stomach whenever alco-
holics are introduced into it. Cells
in the soft tissues at large are never
alcohol-free. It goes into the cur-
rent of circulation, and when animals
are poisoned by alcohol introduced into

the stomach the walls of that organ become so thoroughly imbedded with it throughout their whole thickness that no washing or maceration can remove it.

We also find that when alcohol is applied to living tissue, especially to the vascular surface of the skin or mucous membrane it induces heat, redness and pain. Those symptoms grow in intensity according to the state of concentration of the liquor and the length of time during which it remains in contact with the surface and they may pass on from this condition to one of actual inflammation. Our best knowledge, however, of the influence of alcohol upon the vital actions of the animal

tissues is derived from viscosity of
variations upon the circulation of blood
in the walls of the blood-vessel. If alcohol
is applied, this can in a very dilute
state its first effect is to quicken the move-
ments of blood through the vessels, which are
at the same time rather contracted than
dilated. But this gradually gives place
to the opposite, for after a time the circula-
tion becomes retarded and the vessels di-
lated; if the alcohol had been applied
at first in a less dilute form the first
stage is not observed but a retardation
of the flow of blood is immediately found
and this retardation may increase
as to amount in some parts to a complete stag-
nation; and it stagnated to a de-

is generally, a disorder in which the blood flows with increased rapidity. There are some peculiar effects of alcohol upon the blood besides its influence on the viscosity of the fibrines, for when alcohol is mingled with fresh arterial blood it thickens its veins so as to give it a more or less of a purple cast and when this admixture is made under the microscope it is perceived that the red corpuscles shrink and that a considerable part of their contents becomes mingled with the liquor sanguinis.

Alcoholic intoxication -- The term intoxication is sometimes applied to that series of phenomena which results from the action of all such poisons as first produce stimulation and then narcotism; thus

however, also not is the type and the true
is applied to allanic intoxication or
among the first effects of the ingestion
of alcohol is found in sufficient amount
to produce their influence, we in most
persons, an increase in the force and rapid-
ity of the heart's contraction, producing a
full, frequent and strong pulse, with this
there seems to be a general exaltation of the
organic functions, the appetite and the di-
gestive powers being increased and the se-
cretion augmented, especially those of the
skin and kidneys; but it is obvious, however,
that the nervous system is acted on by the
stimulus, for we observe the manifestation
of an excited action in them such as, talk-
ativeness, rapidity and variety of thoughts

exhilaration of the spirits and suffusion of the eyes. During slight intoxication the prevailing disposition and sentiments of the patients are often made manifest and hence the saying in vino veritas

The ill-tempered become quarrelsome, the weak and silly are boisterous and the bad and hypocrite readily burst into tears and dwell on mournful topics, it sometimes happens that men habitually melancholy become highly intemperate, but this seems rather to be the case when the melancholy used to from external depressing influence than when it is constitutional and hence it is that too many persons in circumstances of distress have recourse to the bottle, for their temporary solace from their

cares. If no more liquor be taken than is sufficient to produce this condition it gradually subsides and is followed by a state of the opposite character, the appetite and the organic function in general being lowered in activity, the skin dry, the secretion diminished, the spirits depressed and the powers of mental exercise for a time impeded.

For this condition sleep and abstinence are the most effectual remedies, if the first dose of alcohol be such as to produce more potent effects or if it be renewed after the first effects have been already manifested the second state is induced, in which not merely the intellectual and sensorial apparatus is disturbed; the voluntary control over the direction of thoughts is completely lost and the excitement has

are the character of delirium, at the same time vertigo, double vision, tinnitus aurium and various other sensory illusions occur, vomiting frequently occurs but this is a favorable symptom. In the third and most profound stage of intoxication, there is extreme drowsiness or entire suspension of cerebral and sensorial powers, a state of unconsciousness upon that last described; the face is sometimes, —, sometimes flushed, the eyes moist and squeezed, the pupil dilated and contracting very imperfectly, the pulse, which was at first excitable, becomes feeble, small and slow. The unfavorable indications in cases of poisoning by large doses of alcohol are pro- foundness of insensibility, insufficiency of respiratory movements, failure of circulation

the pupil, either much dilated or contracted, coldness of the extremities. In fatal cases the appearance usually resembles more or less closely those of asphyxia; the right side of the heart, the pulmonary arteries and the aortic veins being loaded with blood; while the left cavities and the arterial system are completely empty; the liver, spleen and kidneys are loaded with venous blood, and the air passages of the lungs contain more or less of fatty mucous, the stomach but usually exhibits but little departure from its normal condition.

Effect of the excessive use of alcohol.
Delirium tremens. Considering that the state of intoxication is itself, strictly speaking, a paroxysm of insanity in which the

head becomes extremely hot, the face flushed,
the pulse frequent, full and hard, the temper
is violent, the individual sometimes attacking
any one who opposes him and all sense of danger
being lost, he is not deterred from violence by
the fear of personal injury, but rushing madly
upon what may prove his destruction, this
condition is usually subsided in a day or two,
but the habitual drunkard, who has exhausted
his nervous powers by continual over excitement
is liable to another form of disordered action of
his brain which is known by the tremor of its
parts called dilirium tremens. This state
is in many respects the opposite to the preceding,
there is little or no heat of the head or flushing
of the face, the skin is cool and humid and
even chilly, the pulse though frequent is not

and weak and the temper, though very irascible is not violent, he is interrupted by apprehensions of injury or danger. The following is the vivid picture of this condition given by one who himself has experienced it. "For three days I endured more agony than you can describe. Who can tell the horrors of that horrid malady, hideous faces upon the wall and on the floor, foul things creeping along the bed-clothing and glowing eyes fixed into mine. I was at one time surrounded by millions of mountainous spiders, who crawled slowly over every limb whilst the heated drops of perspiration would start to my brow and my limbs would shiver until the bed rattled, strange lights would dance before my eyes and suddenly the very break of day.

would appal me by its sense of fear, all at once, while gazing at a frightful creation of my distempered mind, I seemed struck with sudden blindness, I knew a hand^{'s} was moving in the room but I could not see it, all was so pitchy dark, I lost the sense of feeling too for I endeavored to grasp my arm but consciousness was gone, I put my hand to my side, to my head but I felt nothing and still I knew my limbs and frame were there, and then the sun would change, & was falling swift, so in a moment down some terrible abyss, and so like reality was it that I could almost see the rocky sides of the horrible chasm we're mocking, gazing, fiend like birds were perched; and I could feel the air rushing past me, making my hair stand on end.

force of the unwholesome blast, then the paroxysm ceased for a few moments and I sank back on my pallet drenched with perspiration, utterly exhausted and feeling a death-like certainty of the renewal of my torments."

With this disturbed condition of the brain, a more or less disordered state of the digestive apparatus is commonly associated; the tongue is furred, the stomach unable to bear food without vomiting or a sense of oppression; the bowels are usually constipated or if they be relaxed the stool is dark and offensive and the urine is scanty.

The use of Alcohol — There are three classes of cases in which recourse may be had with temporary advantage to the use of alcoholic drugs. First - in which there is a demand

for some extraordinary exertion of the animal powers, Secondly - in which there is a deficiency of the proper sustenance and in which alcohol serves as a heat producing article of food, and Thirdly, in which there is a want of sufficient vigour in the organism itself to digest and assimilate the elements which it requires for its support.

I know of a gentleman seventy years of age, who has been from a very early period of his life subject to very frequent attacks of gout, the predisposition to which complaint is inherited from his parents, connected with this he has been a constant sufferer from dyspepsia, his mode of life was regular and moderately active and his diet what might be styled a temperate, he had been advised by his medical

friends to take wine; he had occasionally
employed ale, Porter and Brandy and water
but never to excess; in this way he passed about
fifteen years of his life, almost always subject to
a succession of ailments which rendered it
necessary to have recourse to medicines of
various kinds. About four years ago, in con-
sequence of the accession of several alarming
symptoms which were supposed to require an
antiphlogistic treatment, he was advised by
his Medical Attendant to abstain entirely from
distilled liquors, by this the disease was arrested,
and he found his state of health and feeling so
much improved by the change that the abstention
from all kinds of distilled liquors has been strictly
adhered to up to the present period. The author has
been told he has entirely got rid of his symptoms and
is now a perfectly healthy man.

Sent Lemere of the Faculty
Physic of the University of May 1st

& so you are I indebted for nearly
all that I know of the science of medicine,
and ever will be, & now turn to you with
most grateful feelings for your much useful
instructions and your kind permission, I earnestly
beg you to excuse me to practice the science
of medicine. In this my thesis which I
desire to you, I hope you will except
it. This is small or great, as my opportunities
have been limited, but I trust, that
no matter what may be the number of the
theses, that the practice be such as shall
bring no discredit on either you or myself.

1866

AN

Inaugural Dissertation
ON
Epidemic Cholera

SUBMITTED TO THE EXAMINATION
of the

Provost, Regents and Faculty
of

PHYSIC,

of the

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

Doctor of Medicine,

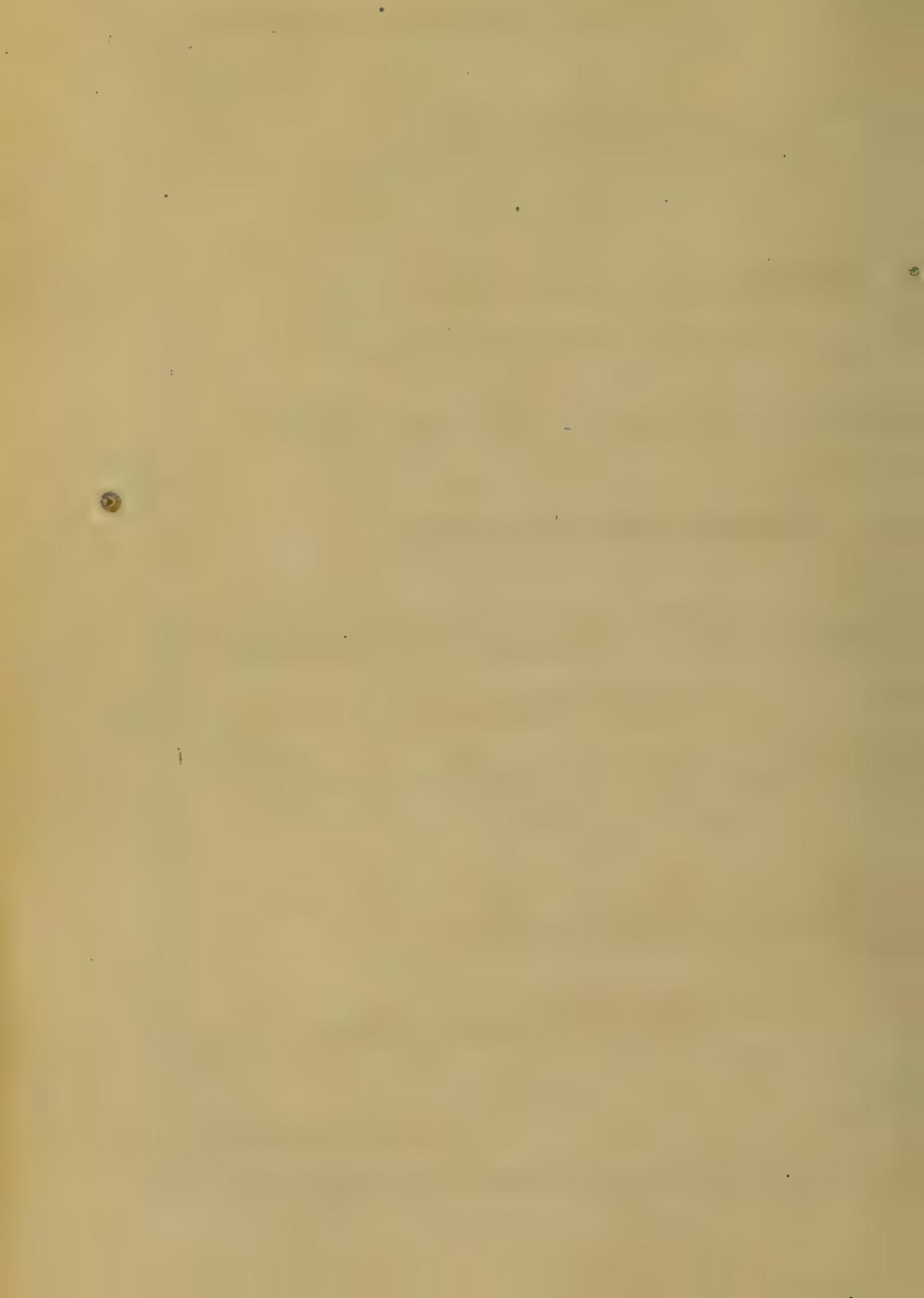
by

Nancy Woodville

of

Baltimore Maryland

Session



Epidemic Cholera

History

Epidemic Cholera is said to have been known in India from the earliest ages; but no accurate accounts have been handed down.

It has prevailed from time to time ever since India has been occupied by the British; but in 1817 it began to occupy the attention of the medical profession.

Most of the Historians of Cholera describe it as first showing itself in Lessore, a town in the Delta of the Ganges about 60 miles N.E of Calcutta, in the middle of August 1817. In September of the same year it reached Calcutta where it raged during the whole of 1818. It is a needless task, to describe minutely the ravages of the cholera in the various towns and districts of Hindostan.

Since 1817 Calcutta has been a regular sufferer from Cholera every season. In 1820 we find the epidemic to have shown itself in China. In July 1821 it appeared at Muscat, and in the same year at Bassorah and Bagdad. In 1822 the disease was raging in Mesopotamia and Syria, having appeared as far west as Tripoli on the shores of the Mediterranean. In 1829 it suddenly broke out, at Orenburg in Russia, with intense violence, and Astrachan, a large and populous town on the mouth of the Volga, became again attacked with much greater severity than in 1823. In September 1830 it was announced as prevailing in Moscow, and in June 1831 in St Petersburg from whence it went to Warsaw, Berlin, Frankfort on the Oder and Magdeburg, from there it spread rapidly upward along the Elbe to Hamburg which it reached in October of the same

year. On the 4th of November 1831 it was seen at Sunderland, a seaport town in England. It showed itself in London in February 1832. In the spring of 1832 it was in Dublin, in April its presence was announced in Paris.

In June 1832 it appeared in Montreal and Quebec - In July in New York, in August Philadelphia this city and Washington. Many of the cities of the South were attacked. It visited Havana in 1833, but no other of the West India islands had a visitation, but Mexico did not escape it.

In 1834 the United States were again visited by the epidemic, the disease recurred at intervals for a year or two but gradually disappeared.

In like manner it occurred at

Marseilles and Toulon in 1835
at Naples in 1836, at Bona in
1837, Marseilles was again attacked
for the third time in the same year,
and it reappeared in the autumn
in Berlin, Prague and Danzig.

The number of persons attacked
in the Lombardo-Venetian states,
in 1836 was estimated at 100,000,
of whom 55,000 died.

In the latter part of 1837
the inhabitants of London
were alarmed by the report of a
genuine case of Asiatic cholera
at Limehouse; the disease, if
it existed, never, certainly, became
epidemic.

Europe, during the past year, has
again been overrun by this terrible
disease. It certainly originated in
India being brought to Mecca by the
Mahomettan pilgrims from India, and
from Mecca to Egypt by others returning

from their religious festivals.

The present Cholera first appeared in Alexandria during the month of June. The habits of the pilgrims, their bad food and exposed condition warranted its fearful ravages among them. The number of deaths from this disease at Constantinople are incredible. It is useless for me to describe its progress, enough for me to say, that all Europe has suffered. At present it has subsided but who can tell where it will next appear. anyhow we must prepare ourselves for a visitation.

Diagnosis

The symptoms of Cholera are characteristic therefore the Diagnosis is very easy.

In most all the epidemic visitations of Cholera certain premonitory symptoms have been observed; some of which, on no other occasion, might have

6

been supposed to exist unheeded; but in consequence of the prevalent alarm, ~~are~~ the source of much anxiety. The alarm indeed is in some cases so great as to constitute a real Choleramania, the patient being for the time in a state of hypochondriacal monomania; at times believing himself to be afflicted with a disease which had no existence except in his imagination and, at others magnifying symptoms into inordinate importance.

The premonitory symptoms, consisting of more or less derangement of the digestive functions, with diarrhoea to a greater or less amount, have been generally termed Cholerine. This appellation may be applied to what may be regarded as the first stage of cholera.

At times great debility is experienced as if the patient had suffered a great loss of blood, vision is impaired

along with giddiness, there is also much thirst with tumefaction of the abdomen and want of appetite, these symptoms may or may not precede the essential phenomena which are vomiting and purging. The evacuations are extremely frequent and, in the very first instance, may not exhibit unusual, but soon they are copious liquid, almost without smell, and resemble in appearance rice water, hence, commonly termed "rice water evacuation". In mild cases or after the subsidence of the severer symptoms, they are sometimes tinged with bile, and a little blood is occasionally discharged. The matter vomited is generally similar to the stools but is sometimes white and glairy, as if consisting of mucus, and has an acid reaction. The evacuations are forcibly ejected, but without much straining.

As these evacuations continue, the patient becomes very indisposed; violent cramps attack the extremities.

Soon the pulse sinks, the extremities and afterwards the whole body become cold. The patient is very restless, and the pain extreme.

The breath becomes cold, now the patient is in a state of cholera asphyxia. Soon the powers of life fail and the patient dies.

In fortunate cases the blueness disappears and the pulse becomes perceptible. Heat returns and general reaction comes on.

Causes

The causes of this disease are mysterious. There are many speculations as to the origin, some assert bad rice to be the primary cause of the disease others describe an animacule infesting the air; but nothing has been discovered. Miasma cannot be the

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"specific cause" as the cholera has appeared in deserts on shipboard and during the depths of a Russian winter.

It is not for me to say whether the Cholera is contagious or not for so many eminent gentlemen of the profession have been puzzled by the eccentricities, if they may be so called, of this terrible disease; sometimes it has favored the advocates of non-contagious, and oftentimes, it has become their direct opponent. It is a certain fact that this epidemic will commit greater ravages where the state of the locality could authorize its appearance; badly ventilated ship holds, ill-clad and ill-fed tenants of almshouses and prisons, the inhabitants of crowded and filthy suburbs, in fact, every and any place or persons, the

state of which or whose habits are not of the cleanest and the best.

Pathological Characters.

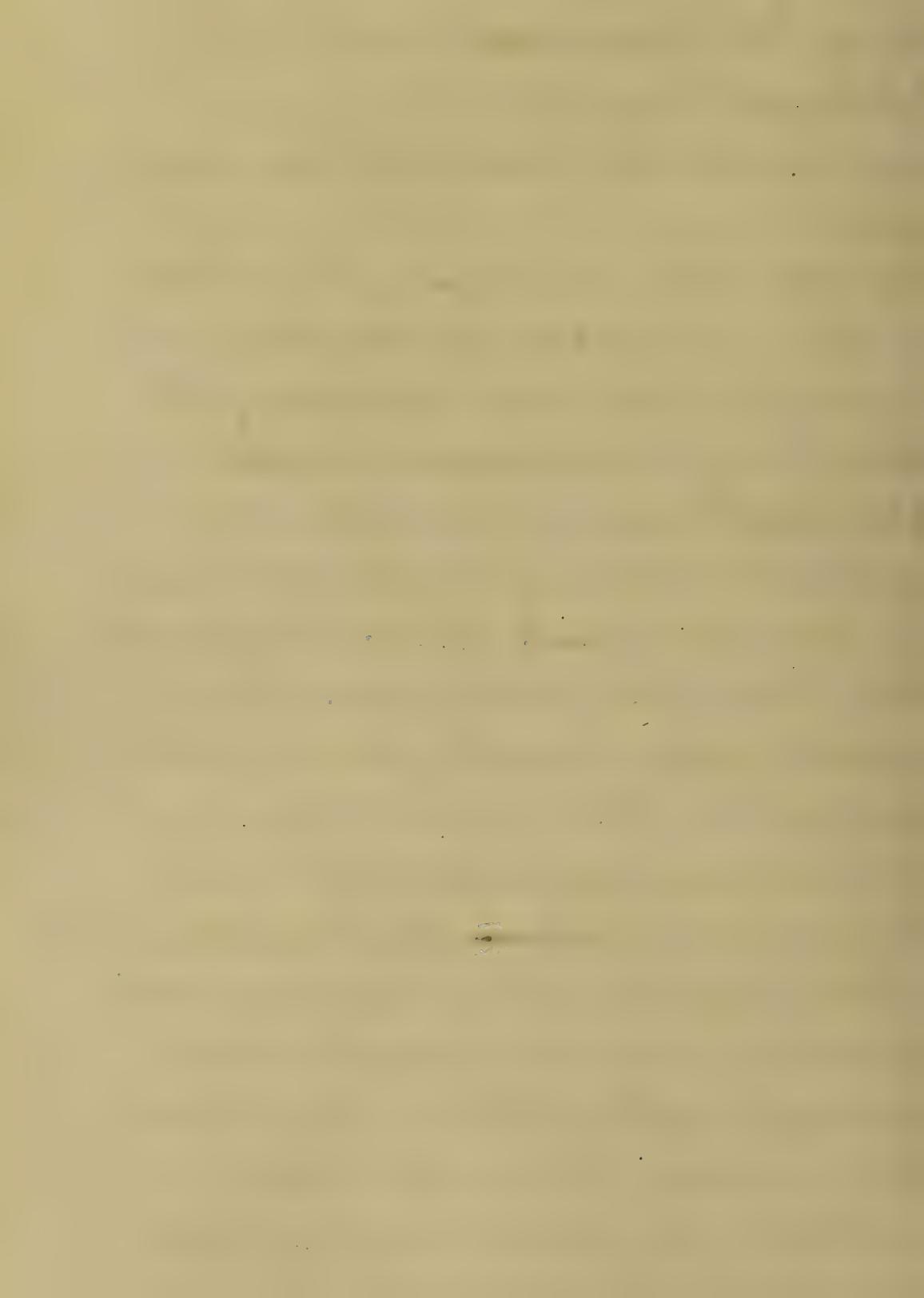
The anatomical characters are insufficient.

" It has been remarked that those who died in a state of collapse, and in which there was coldness of the whole body, some became warmer after death and preserved a manifest degree of heat until the commencement of rigidity "(André)

The blue tint diminishes in intensity after death, and is often limited to the extremities.

" It has been affirmed that the body exhales an ~~an~~ odour sui generis "(Aronat)

The intestines when opened, contain the same rice-water secretion as is discharged in the stools. The stomach and intestines are found deeply injected. Sometimes signs of acute inflammation are met with.



Considerable attention has been paid to the eruption of pimpls met with on the mucous membrane of the intestinal canal.

"This eruption is said to exist in the majority of cases.

The left cavities of the heart are almost entirely empty whilst those of the right side are gorged with dark and viscid blood resembling thick currant jelly. "In the aorta there is more or less blood sometimes very little whilst the pulmonary artery and vena cava are gorged" Most of the arteries are commonly empty whilst the whole venous system contains quantities of thick blood of a syrupy consistency.

Various speculations have been entered into, at w^h the nature of Cholera. The majority have placed it in the organic nervous

12

systems. Some have regarded it to be a diseased condition of the blood, others a miasmatic disease, and others again, have considered it an eruptive disease of the mucous membrane of the intestines.

"Notwithstanding the similarity, between Cholera morbus and epidemic cholera in these climes, it is evident that they are essentially different

Treatment

"The treatment of this disease is doubtful". It is of great importance to have recourse to early treatment. On the appearance of the first symptoms of Cholera having the patient put in bed the skin of the sufferer should be kept warm and moist, by means of ordinary hot drinks as tea, &c., sometimes these means, simple as they are may avert the disease.

Among the best remedies best calculated to relieve the discharges and the irritation of the intestinal mucus membrane are opium and calomel in small and repeated doses, and when the discharges are copious, combined with acetate of lead, with Rhus or the ext of Rhabany.

Opium - like every other remedy, indeed used in cholera has met with mixed approbation and approach.

"large doses of opium are considered injurious as inducing torpor and even coma and favoring congestion of the brain. In small doses however it proves highly useful by checking exhalation into the bowels relieving pain and allaying irritation, and sustaining a general diffusive excitement."

Calomel is also a favorite remedy. It was used a great deal by the

Practitioners in India, whose example is to its employ also.

The intense thirst of cholera must be satisfied by a liberal allowance of cold water. There can be no doubt that ice is the best and most grateful, as it assists in allaying the irritability of the stomach, which is, indeed, a symptom demanding attention from the distress it often occasions. It is also better than water as will not fill the patient up as water would do. Iced soda water is very grateful to the patient. Whatever liquids are administered when the patient complains of heat and thirst they should be all cold. Lime water and milk are sometimes useful in allaying the gastric irritation.

^{It} has been affirmed that a twelfth of a grain ^{of Strychnine} given in Ghee and repeated a

few times, has been repeatedly known
to check a profuse diarrhoea
with rice-water evacuations, and even
when the extremities were blue". (Ryan)

"Dr. Eliotson found creosote very efficacious in Cholera it appeared to allay
the vomiting".

"The Riga physicians assert that
Buchu like almost every similar
remedy - had been given in Cholera
and frequently with favourable results."
"If the efficacy of the guaco" (says
Doctor Dunglison in his work on New Remedies)
'in the Indian Cholera, M. E. de Chamisso
Officier de Santé in the French navy,
and Dr. Chabert, physician to the
military hospital in Mexico, have
published the results of their experience.
When the brig Adonis, on her voyage
from Havana to Mexico some of
her crew were attacked with the
Cholera, which prevailed at the
time in Mexico. Of all the

remedies employed, the guaco was found the most beneficial; its effects, indeed, were so wonderful that it was regarded almost as a specific. Its action is chiefly exerted on the heart and the circulation which it renders more energetic. All to whom it was exhibited in the commencement of the disease, were saved, and even those, in whom the cholera had reached a certain stage, the greater part were saved, as soon as a free and complete reaction was established. Dr Chabert, who first administered the guaco in cholera as well as in yellow fever, observes on its use in the former disease:— In simple cases, a small teacup full of a decoction of guaco was given every half hour, until a general diaphoresis and proper warmth of surface supervened, which was kept up

for some days when the remedy was gradually discontinued. To allay the thirst the decoction was given, diluted with two-thirds or half water. In dangerous cases of Cholera algida, with coldness loss of pulse, &c., a spoonful of the spirituous tincture was mixed with six or eight spoonfuls of water, and every quarter of an hour a spoonful of this mixture was given alternately with a small cup full of the decoction. When the pulse returned, the warmth became restored, and the perspiration re-established; the tincture was omitted and the decoction continued alone at longer intervals. In the majority of cases after the cessation of the cholera symptoms, pain was experienced in the epigastrium with burning thirst, which yielded when the decoction was diluted.

with half or two thirds water. When the decoction could not be retained by the stomach it was given in Clyster. Blood letting, general, and local, was employed along with other external means, but nothing was given internally, except the guaco. To make the decoction;— two drams of the stalks and a half dram of the leaves, were boiled in two pints of water, down to one. The tincture was prepared like other tinctures."

"Dr Francis Girard of Avignon, found the acetate of Morphine so highly useful that he preferred it to all other remedies. Of ninety-nine patients thereby eighty-one were cured. He found, when given early, that it especially checked the vomiting, and moderated the subsequent reaction, after which the other symptoms gradually disappeared.

Given however, the resources of
which had been long postponed,
the effects of the remedy were
less marked; the vomiting and
the other symptoms persisted
longer; the supervening reaction
was much more tardy, and
frequently ended in a state of
collapse, which under the most
trifling imprudence, produced an
unfortunate result. Gerard adminis-
tered the acetate a first in the
dose of one-fourth of a grain every
half hour, until the serious symptoms
were removed, and he omitted it
as soon as the spasms and the
diarrhoea and vomiting had ceased
or as soon as reaction ensued.

If the stomach be loaded with
undigested food during the forming
stage the treatment may very
properly be commenced with a
gentle emetic of Ipecacuanha.

Should constiveness follow the use of the means requisite for checking the disease, it should be corrected by the mildest possible measures; and rhubarb is perhaps the best laxative for the purpose.

In the stage of collapse stimulants in small doses should be employed. Efforts to restrain the evacuations from the stomach and bowels should not be abandoned, and attempts should be made to excite the surface by frictions and rubefacients "Sinajirins" may be applied to the abdomen and extremities, and Cayenne pepper and brandy, oil of turpentine liniment of ammonia &c. over the surface of the body.

To repair as far as possible the loss of water and salts by the blood the patient should be given, soda water with the bicarb. in solution iced brandy and water, barley water &c

To close the cutaneous exhalant orifices astringent solutions may be employed. To relieve the urgent cramps, friction was generally used with the application of tight bandages around the extremities.

In the November number of the Medical Times & Gazette (London) for 1865 a correspondent from Naples writes—
 "Dr Simi is using quinine in large doses (20 grs), and finds it very useful in Cholera. Calomel and senna from the first. Hypodermic injections of a solution of quinac sulph., with no excess of acid, brings about reaction in a very remarkable manner but must be repeated, and brandy and chloroform given to keep it up."

Great attention must be paid to the diet, the food should be of the most digestible kind. When the disease is established

mucilaginous and farinaceous liquids should only be used. During convalescence all indigestible substances ought to be avoided and only very light food should be alone employed.

Prophylactic treatment.

"For the prevention of the disease," writes a Parisian Professor on Cholera. "every means must be adopted to ensure the utmost cleanliness. All dirt must be carefully removed which would be likely to cause noxious emanations, and in all cases the most enlightened hygienic regulations should be enforced. Large meetings, such as markets, should be as much as possible avoided, and troops should not be marched through infected districts. Means should be taken to prevent any but wholesome food being eaten.

Individuals should choose healthy

residences, possessing a pure water supply. They should carefully avoid cold and damp, overwork, and great fatigue of all kinds. The usual diet should be followed, provided that it be nutritious and wholesom. Excess in alcohol and iced drinks should be avoided. Diarrhoea should be checked at its first appearance.

I will conclude with a sketch of the different plans of treatment adopted by different physicians.

Bleeding in all stages has been the remedy chiefly depended upon by some. Others have placed great reliance upon emetics; and even purgatives have found advocates. Calomel in large doses, with or without opium is a favorite remedy.

Some have claimed success for a treatment in which applications of heat over the spinal column

is one of the prominent features
others recommend ice bags along the
spinal column. Some upon opium
and brandy, and stimulants; and
others, on the contrary, upon
cool and ~~demulcent~~ drinks.

Some of infections into the veins
of warm water holding carbonate
of soda in solution. Many things
have yet to be learnt of this disease
and may I now beg leave to
conclude this Thesis.

(H. Woodville)

AN
Inaugural Dissertation
ON
"Vis Medicatrix Naturae"
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

Rev. W. Chanc. D.D.
of

Bristol. A.A. 6. 1. 1. 1.

Session 1866

"De Medicinali Naturæ"

The leading species is "Nature" is more comprehensive and expresses perhaps more fully the meaning of the word "De medicinali Naturæ" than does the common translation "the creative power of nature" and is therefore more acceptable.

Every living animal or plant bears a history of successive epochæ phases of existence. The simple course of vital powers is necessarily followed by alteration of the parts employed and the functions of life instead of remaining indefinitely the same pass through a series of changes which will be best ob-

and phenomena following on in
accident or disease. This change
is in many respects the most striking
characteristic of living organized
bodies.

The exhibition of phenomena pecu-
liar to vital functions depends
upon the regular and normal con-
tinuance of the nutritive process.
When from any cause this process
leaves from its original type it
begets an abnormal condition
called disease, peculiar to
all organized living bodies.

The states of health and disease
thus belong equally to animal
and plant. But it is by

disease, its cause, progress and
effect has been confined almost
wholly to animal diseases. men
of this class men, whose mal-
adies are predominantly infectious
to himself, the student, has re-
ceived by far the greatest share
of attention. And although great
advances in important points of
the history of disease, their physi-
cal pathology and physiology
relative, have resulted
from this attention we are still
in great ignorance of the natural
history and termination of dis-
ease, a few misinformed by art.
So great has been the want,

H

8 conditions in the animal form
of the animal economy that
propagation of the natural cause
of disease has been to a great
extent foiled. Constant in-
terference necessitated by a nat-
ural anxiety has either actually
distorted the natural processes
of disease or by its supposed
influence has given rise to er-
roneous convictions.

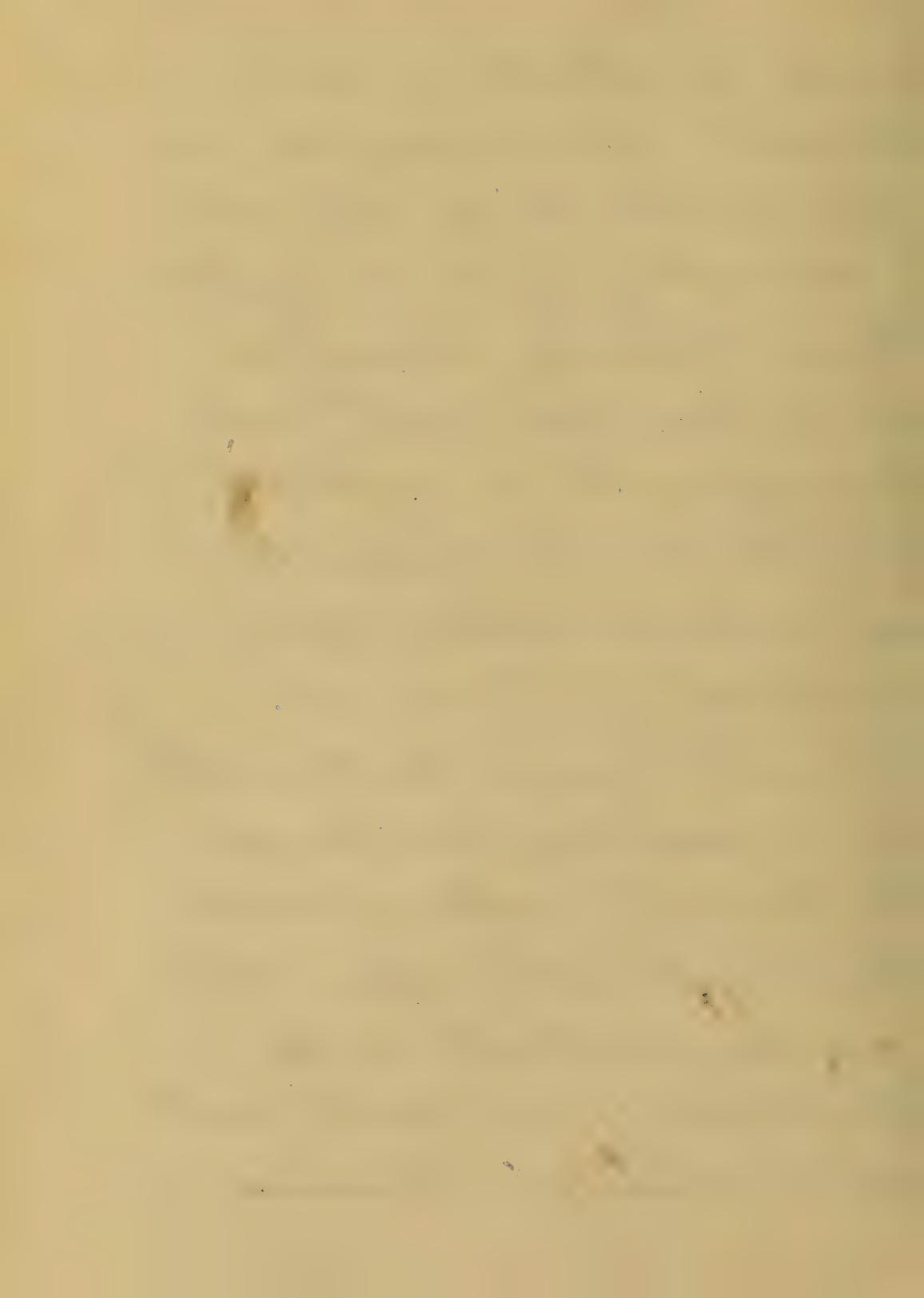
In order to arrive at the probable
relations which disease sustains
to the human body we should
understand the causes and na-
ture of this abnormal state
superinduced upon the animal

normal condition.

The mind naturally turns to a painful question as to the cause of this condition; it reviews the state upon which she has been suspended and seeks to learn how it came to be developed and developed in that particular field and in that form.

It will not surprise any one to take even a superficial view of the living body and especially one who contemplates it in some comparison with the most perfect of human institutions that impairment should occasionally

seen in its structure and
function. In an organism so
complex as the living animal
body consisting of so many parts
extreme delicacy, depending
more or less on each, and
performing such a multitude
of functions was reasonably
to expect some deviation from
the regularity of its course.
And after we consider further that
all this machinery, composed
of the frailest material created,
sustains and acts upon itself
changing every instant in the
composition of its parts and
subject to varying influences



in which we can suddenly see
why it should become dis-
ordered. With an imperfect
knowledge of the real origin of
these it is supposed that
it is caused either directly or
~~but~~ indirectly by external
influences in a great majority
of cases. The mechanical
and some chemical causes
are the only ones whose opera-
tions we can understand and
trace directly to their effect,
all the other operating in an
indirect manner brought about
either from the internal con-
dition of the phenomena present.

What then are the no-
tions of disease are so compli-
cated by animal life the impac-
tions of which are so not
substantial, that they may
properly be considered only pro-
nouncements for the mortal phase.
From a consideration then
of the manner in which disease
is developed it is evident that
it is not a foreign existence
produced independently and
then introduced into the living
body, but that it is a condi-
tion of the same vital con-
ditions that exist in health.
The changes in parts manifesting

stitutional disease do not indicate a different species of malady but a modified condition of constitution. Whether 'be the remote exciting cause it acts in accordance with and through the vital laws. Disease may and does have its own special laws governing its manifestations, but these are only modifications of the normal laws of the system or when different, are closely analogous and if more or less subordinate to them. In Fevers, however, the species may be individual.

fever & sweating, due to a
disturbance in the nervous system,
but it is usually thought the black death
effect as observed is simply
a derangement of the ordinary
functions. What do we see
in the ordinary phenomena
presented by nervous diseases
but variations from the natural
action of the organs affected?

The only difference we can dis-
cover between the external man-
ifestations of these diseases and
health is that in the latter con-
dition the muscular system
is subject to the will in its
normal state while in the

former the directing power is influenced by a positive or mortal force.

Pisease, a condition, which in view of the constitution of man is a natural, is not a normal state and not one towards which the vital powers tend. On the contrary "the vital powers have an inherent tendency to return to their normal condition when disengaged and to remove or repair the cause of the disengagement. Is this tendency to return to the normal condition to we recognise the "healing power of Nature?"

This power is most evident
in cases in which the life
of the cure of disease and the
removal of causes may be
best observed.

When an offending substance
is taken into the stomach, a
natural treatment of this or
any other kind and speedily
the indigestible and irritating
mass is ejected. The mucous
membrane of the organ stimulated
by the irritation undergoes by
secretion to repair the injured
tissue and to give it a fresh
and former healthy surface.
In the intestines in diseases

flow of mucus and increased
peristaltic motion may carry
an indigestible substance
along the canal without perman-
ent injury to the delicate
tissue concerned.

The simple presence of a par-
ticle of dust in the eye causes
a copious supply of tears
whose office it is to wash
out the irritating substance
and enable the already injured
parts to move smoothly upon
each other. Perhaps there is
no stronger evidence of the won-
derful power of the vital
powers than that furnished

by the most beautiful of
curative processes the living
and cicatrizing of a wound
and the restoration of the
part by a slow process
of contraction and assimilation
to nearly its original state.

The gradual advance of vessels
from cell to cell assuming in
each step the character of the
original type indicates an inevi-
table and inexplicable power
in these minute constituents.

Taking into consideration the
operations of the inherent power
of the living tissue it seems
open to an observation like

of what their power controls
to an equal degree or even
more, in view of their isolation
from external influences, which
will form our observation.

But aside from this which
under highly probable the
autocracy of the inherent power
of the living body in the
development of disease there
are other considerations.

The analogies furnished by
the lower animals and even
man before favored with a
medical art will upon
this question.

But not only this notwithstanding

power but also nature's great power of endurance and resistence is best demonstrated by the practice of ^{the many} systems of Surgery.

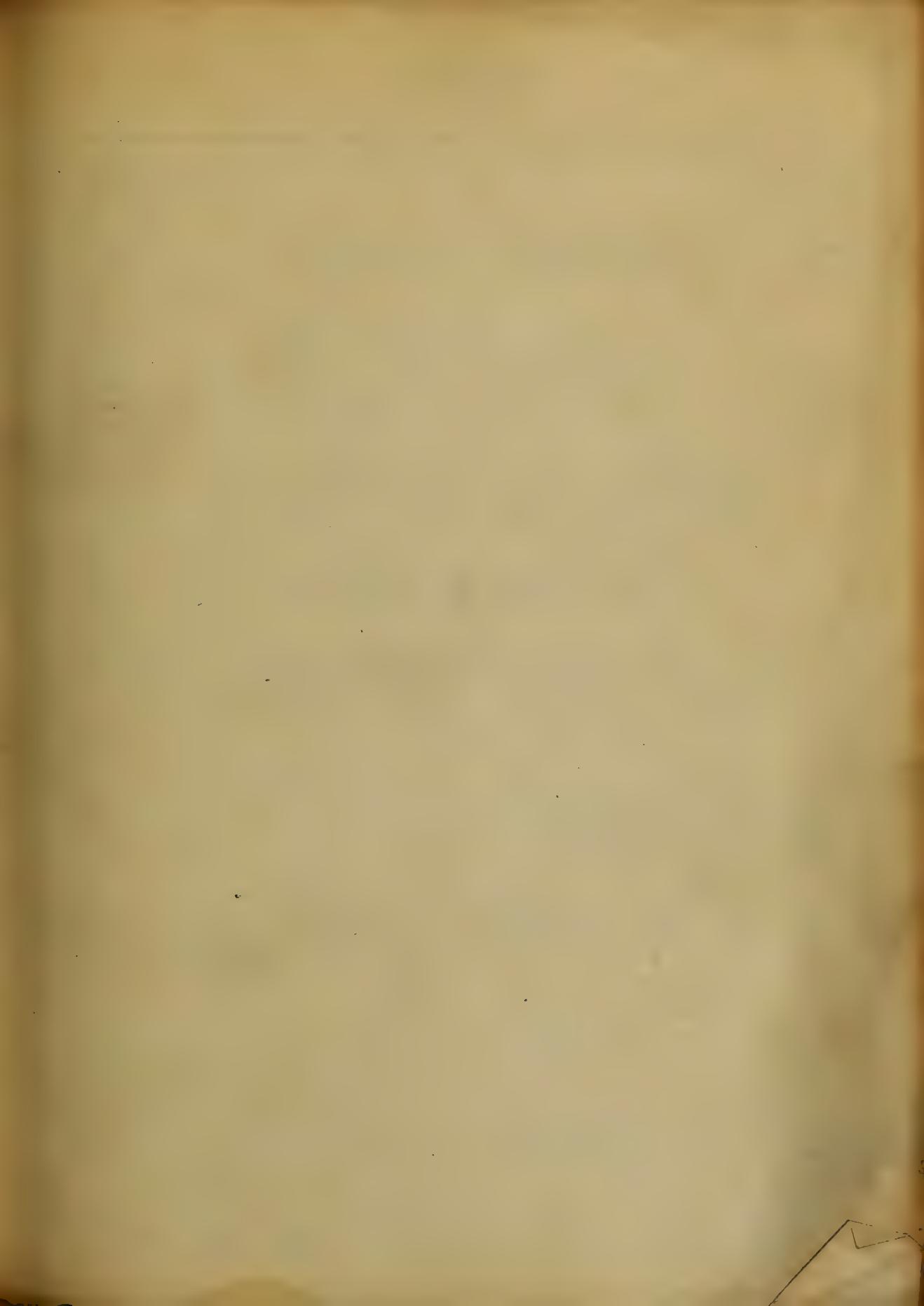
The system of Homopathy, perhaps the most important, inasmuch as it is the most harmless, proves the supremacy of this power. It can be demonstrated that the treatment legitimately derived from it of prescribing infinitesimal, in other words imaginary, doses of drugs, is utterly incapable of modifying the animal organism in any way except through

& medium of the patient's
mind or by means of little
or other medicinal means with
which the treatment may be
combined. Hence we have a
right to assume that all the
results exhibited in the prac-
tice of Homeopathy are the
product of natural operations
alone. The success of this
system is due entirely to the
power resident in the animal
organism.

While nature is the great heal-
ing power she needs the assist-
ance and direction which, at
properly employed can effect.

when we consider the alleviation
of pain which it effects ^{and} in
many cases see the sinking
powers of life rescued by its
interference or health preserved
substituted for unhealthy
ones as we liable to it an im-
portant part in the develop-
ments of human diseases altho'
the number of these is small
in which it exercises a direct
and positive curative power.

We at present will pass to
the lower man is the agent for
controlling the power in the body
of disease and the restoration
of health.



AN.

Inaugural Dissertation

ON
Vermes

SUBMITTED TO THE EXAMINATION
of the

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of

PHYSIC,

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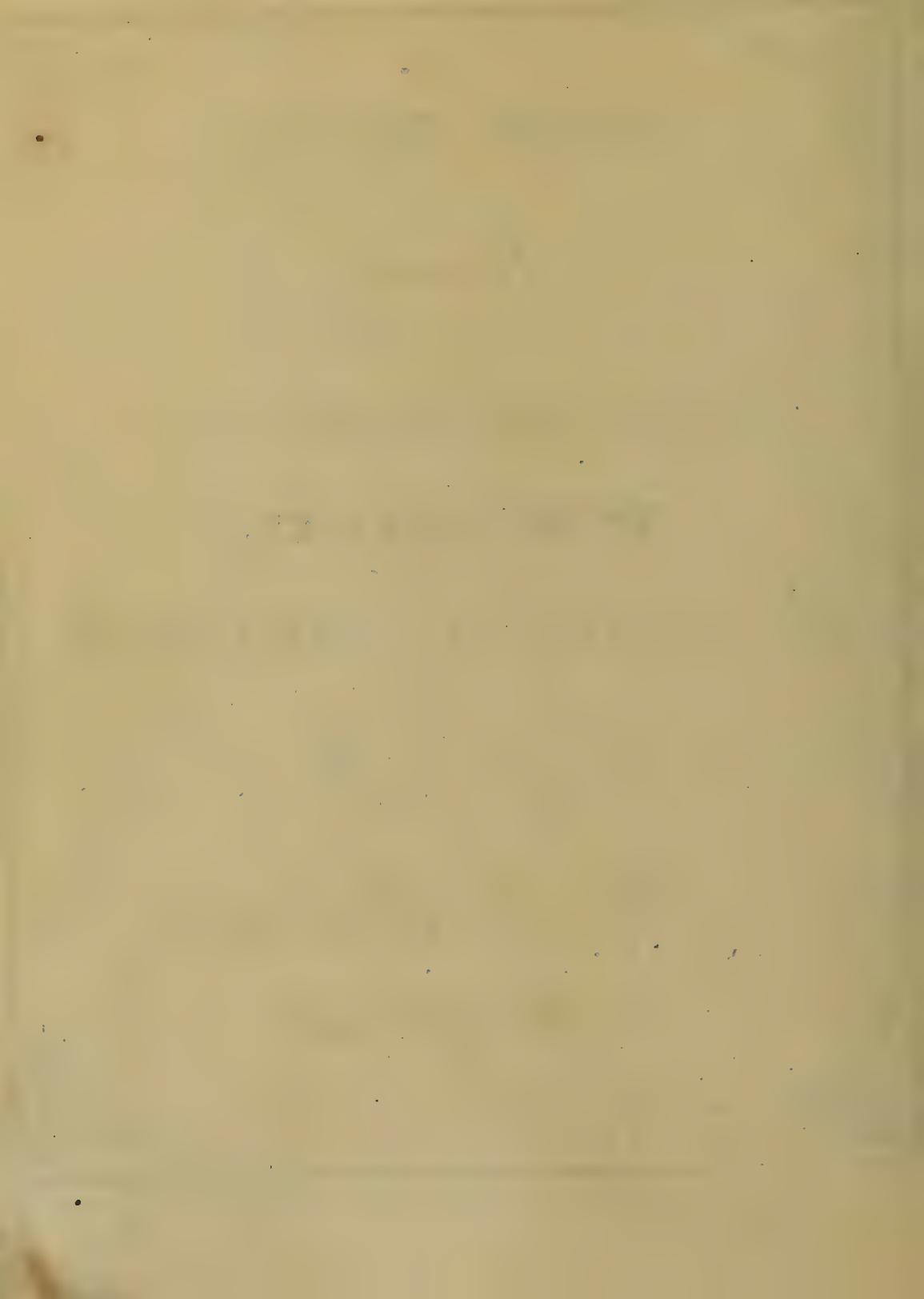
Doctor of Medicine,

by
J. Carroll Monmonier
of

Maryland

Session Fifty-nine

1866



in choosing nemesis as a subject for a thesis
it is not my intention to enter into the
various details and different opinions
respecting the natural history of the
numerous parasitic animals which may
inhabit and subsist on the human body,
but simply to give a brief description of
those most frequently met with, their
places of abode, symptom and treatment,
a knowledge of which is highly important.
There is scarcely an organ or a tissue on
the human frame which may not become
infested with some species of living parasite,
the heart, the liver, the kidneys and even
the delicate structure of the eye is not
free from them in rads, but the intestine
are their chief abodes.

To the various kinds of worms found in
the interior of the body the term Entozoa
has been applied. To this an attention will
be directed.

The first that is generally mentioned by

authors and a very common worm is the *Ascaris lumbricoides* or *lumbricus* from its resemblance to the earth worm. It is ascribed as being from five or six inches to a foot in length, but young ones of only an inch and half or two inches are occasionally met with. It is of a reddish brown color slightly tinged with yellow, has digestive organs and a generative apparatus which is very intricate and occupies considerable space in the female. The mouth is at one extremity and may be distinguished by the little tubercles or valves surrounding it. The male is much smaller and rarer than the female, its genital organs and a greater curvature of the tail serve as marks of distinction. These worms might be mistaken for the common earth worm (which is sometimes made use of by impotents) but if carefully examined the difference is easily perceived.

They are found generally in the small intestines, but they do not confine them-

selves to any particular spot and may ascend into the stomach or pass downwards into the large intestines, in either case they are speedily voided. In the liver, biliary ducts and gall-bladder they have been met with, and cases are reported where they strayed into the oesophagus, larynx and trachea. They may also pass through fistulous openings into the abdominal cavity, the bladder or vagina and thereby cause great distress. The number of these worms which may exist at one time in an individual is so exceedingly variable that the passing of one or two is not proof that they are all, or that there are more remaining, though cases are mentioned where from three to four hundred have been voided within a week.

The next noticed in scientific division is the threadworm *Acaris vermicularis* or ascarides which in internal structure closely resembles the lumbricoides, though much smaller, especially the male which

so minute as to render an examination of it very difficult. The female is about half an inch long, very slender, transparent and its tail extremely attenuated. The male is scarcely one third in length very thin and of a white color. Their head is represented as being constantly in motion. The large intestines are their abode and particularly the rectum where they occur in great quantities and sometimes thousands of them are ejected matted up in the shape of a ball. They may make their way into the vagina and urethra in females and thus produce excessive itching and irritation. These worms as also the lumbricoides occurs generally in childhood, though they are not absolutely confined to any period of life.

There is another species of threadworm, the *Trichocophatus dispar* or long threadworm. Though known before, they were particularly noticed during the last century by the German anatomists who discovered them in the bodies

of them who died of an epidemic fever
then prevailing, the cause of which they
numerously ascribed to these worms.

The female is from an inch and a half
to two inches in length and nearly
straight while the male is much smaller
and usually rolled up in a spiral form;
they are white unless colored by the
food which they happen to contain.

They have been found in the dog, fox,
monkey and other mammiferous animals
and they are so very common on the hu-
man body, that it is said they are
discoverable in almost all individuals
though they do not seem to cause any
uneasiness or inconvenience.

They may sometimes appear in the
small intestines, but they belong proper-
ly to the large bowels and especially
the cæcum.

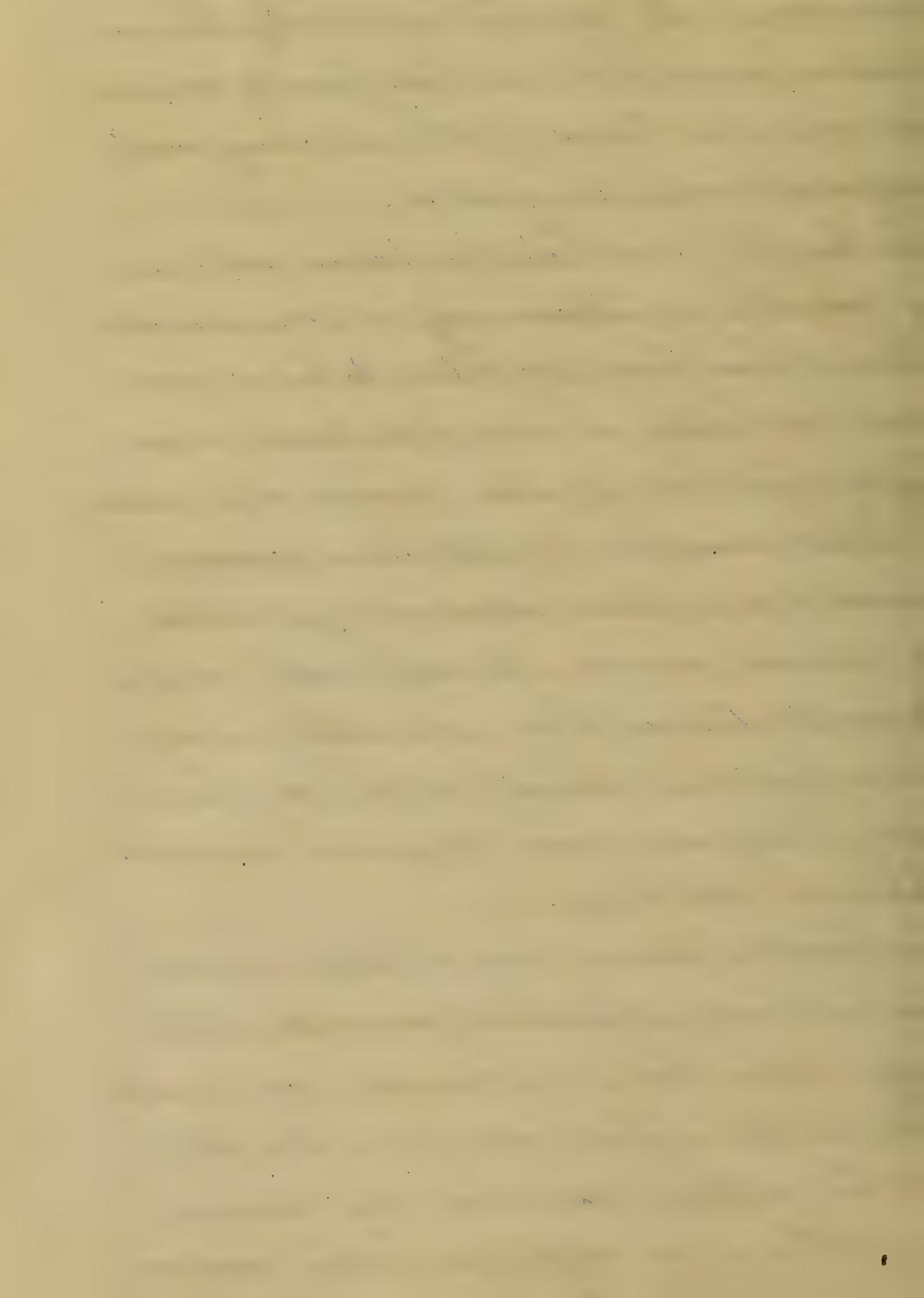
There are two species of tape-worm
the *tania solium* and *tania lata*. They
resemble one another in many respects

yet have marked distinctions. The *tania*
shum or long tape-worm has an elongat-
ed, flat articular body of a whitish color
and becoming gradually attenuated to-
wards its anterior extremity it terminates
in a threadlike neck and a very min-
ute head on which there is a little
circle of hooks and four small apper-
tures or suckers whereby it seems to
adhere to the inner surface of the
intestine. In the neck the articular
pieces are small and faintly marked
but proceeding downwards they become
larger and square, until at length
near the tail, they are longitudinally
oblong. The margins of the joints are
embraced on one another, and it is
said within each of these joints
there is a male and female appar-
atus capable of producing ova, and
that impregnation may take place
either by the contact of two individuals
or by two joints of the same animal.

As the worm advances in age and approaching its caudal extremity the articular pieces become less firmly connected and portions of them may easily separate and be ejected.

The length to which the *Tania solium* is capable of attaining is considerable thus it has been reported to have measured as high as one hundred and fifty feet, but if ever pieces amounting to that number of feet were passed, it must have been separate portions of several worms. As met with at the present time they generally range from fifteen or twenty to thirty feet long. They are more frequent in adults than in children.

The *Tania lata* or broad tape-worm has a body somewhat similar to the long worm, but it is much broader and thinner. It differs also from the latter at the anterior extremity by having very little or no distinct neck and an



oblong-shaped head devoid of the suckers
and hooks peculiar to the *Tania solium*.
The joints are broader than they are long
and near the middle which is the
broadest part they are about half
an inch in width, becoming smaller
as they approach either extremity.
This worm generally measures from
twelve to twenty feet. It prevails in Rus-
sia and Switzerland while in England
Holland, Germany and most other
countries in Europe the *Tania solium*
is the most common.

The prevalence of one of these worms in
countries where the other is scarcely known
has given rise to interesting discussions
as to their origin.

The several kinds of vermes which have
been mentioned are the principal
inhabitants of the intestinal canal.
There are some which may exist in
other parts of the body, thus the
Filaria Medivensis or Guinea worm

occurs in the subcutaneous areolar tissue. It is of a white color, round and elongated, about the thickness of a violin string and of nearly equal diameter from one end to the other except near the posterior extremity, where it is slightly attenuated and curved.

Its length is exceedingly variable, from five or six inches to four or five feet. It is found in the upper and lower extremities, the scrotum the testicles - on the abdominal paroxysms and chest - under the conjunctiva of the eye, though very rarely, and nearly all superficial parts of the body.

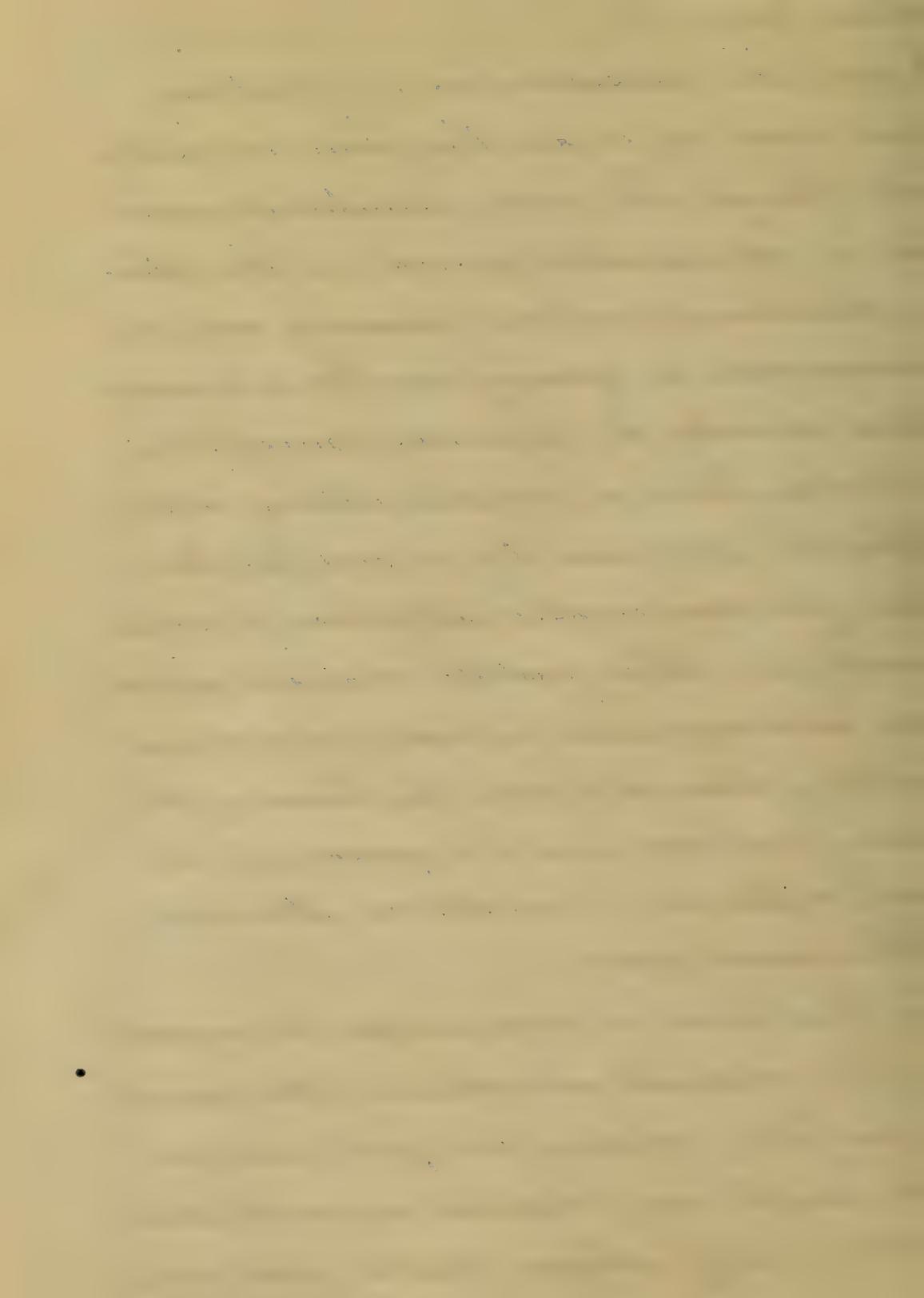
In Arabia, Upper Egypt, Guinea and along the Persian gulf the filaria appears frequently and at Senegal it is said to be endemic. When it occurs in this country it is almost exclusively amongst the negroes.

The symptoms and treatment of this parasite being different from that of

the intestinal worms, may as well be described here.

A peculiar sensation as of something were crawling under the skin is usually felt; though the worm sometimes remains for a considerable period in the cellular membrane without causing any inconvenience or giving rise to any symptoms whereby its presence might be detected. There is excessive itching in the affected part and by a cord-like elevation you may occasionally trace its course. Finally a little pustule makes it appearance accompanied by heat, redness and swelling; when it breaks, the head of the worm protrudes and the passage of its body outwards is sometimes attended with much pain.

The treatment is very simple, it consists in the gradual extraction of the parasite by carefully winding the protruded part from day to day around a small stick or little roll of adhesive plaster, great care



being taken to avoid breaking it, lest inflammation and the formation of sinuous abscesses should ensue. The extraction requires a variable length of time, and in some situations it comes away much easier than other; - thus from the scrotum it has been removed at the first attempt.

When the animal is superficial, some surgeons cut down as near to the middle of it, as possible, and then by pulling on both ends hasten its removal.

There is another species of this worm peculiar to the eye, but its occurrence is so rare, that it is useless to enter into a description of it.

Ichima spiralis, is the name given to a class of minute parasites, scarcely visible to the unaided eye, but sometimes dwelling in immense numbers in the muscles of the living body. They may exist alike in both healthy and diseas-

ed muscle, but causing neither pain or inconvenience, then occur no signs, whereby we might become conscious of their presence. In the foregoing pages, I have endeavored to describe the most common kinds of worms met with in the intestinal canal and other parts of the body. There are numerous other parasites embraced in scientific classifications, and though many of them frequently infest the inferior animals, their appearance in man is so rare, that the study of them is of no practical importance.

Respecting the origin of worms there are numerous and different opinions. In the absence of any positive means of discovering we are at liberty to choose the most plausible. Some advocating their external origin, say that the larvae of insects are taken into the body with the food and that in this situation, they are developed or undergo a metamorphosis as the tadpole

becomes a frog or the maggot a butterfly. This theory seems very reasonable in regard to the intestinal worms but how can it be reconciled to the fact that they have been found in the fetus; and if taken into the stomach how do the Guinea worm and *Trichina spiralis* make their way, the one into the subcutaneous areolar tissue, the other into the muscles. Again on the other hand an example is taken from the common mouse and rat both of which are said to be infested with a species of cyst-worm. Rats and mice are the food of the cat, who is subject to tapeworm; now this tape-worm is supposed to be produced from the larva of the cyst-worm of the mouse in the intestines of the cat and having larger apartments it arrives at a greater stage of development. If this be true in regard to the cat could not an analogous proceeding occur in the human body and

a theory of Dr Nelson's quoted by Watson says
"that the cysticercus cellulosa hatched in
the bodies of measly pigs is matured in
the human body into the tania solium
and if the kind of animal in which
the ultimate metamorphoses takes place
determines the specific form of the re-
sulting tania, that of man may some-
times be derived from cysticerci which
haunt the bodies of sheep and oxen."

If this be admitted as the origin of the
tape-worm that of the other intestinal
parasites can be accounted for in a
similar manner, but how they can gain
entrance into the fetus nothing can
be said. As to the guinea-worm and
Trichina spiralis it has been suggested
that when in a very minute state they
may make their way unperceived into
the cellular tissue and muscles. In
their new abode, the one attains consider-
able size and the other propagates its
kind. Leaving the controverted question

of the origin, I will mention some of the predisposing causes of worms.

A feeble state of health, scrofulous habit, food in excess or in too small quantity, eating raw or under-done meat, debility of the digestive organs, the accumulation of mucus and chyle in the intestines, and badly ventilated apartments have either separately or together been regarded as favoring their appearance. Climate is also noticed as having some influence in their generation, a humid atmosphere seeming to promote their production.

The symptoms that worms are said to produce are numerous and varied, but there is no single one, that can be called pathognomonic, except their appearance in the excrements of the body. I will mention first, those common to all of them, and afterwards some few peculiar to each kind. The most frequent are, colicky pains, with

swelling and hardness of the abdomen, tongue white and loaded, a disagreeable taste in the mouth, foul breath, itching and irritation at the nose and fundamen-t, a very capricious appetite some-times remarkably deficient, at others voracious, the bowels irregular and the stools slimy.

The sleep is disturbed with a grinding of the teeth and frightful dreams, the stomach is in an irritable condition and there is flatulence and some-times vomiting.

Cases are reported where the presence of worms in the intestinal canal was accompanied by a cough which ceased on their expulsion, and it has been explained on the principle of reflex action of the spinal cord, other ner-vous disorders may arise from ^{the} same cause.

Of the symptoms peculiar to the lumbricoides; besides most of those em-

merated above, there may be, nausea, emaciated extremities, slight fever, tumid abdomen, diarrhoea, and occasionally convulsions.

The ascarides give indications of their presence, generally towards evening or after some warming exercise, by dull pains around and itching of the anus, a very irritable state of the body and mind, frequent inclinations to evacuate the bowels, with slimy stools sometimes tinged with blood. They also give rise to indigestion, faintness, griping pains, giddiness, tremblings, and pains in the head and stomach.

When they make their way into the vagina or urethra of females they cause extreme pruritus and oftentimes leucorrhæal discharges.

The symptoms, the tania present are variable in different individuals: in some their existence is not known until portions of the worm are voided,

while in others, they may cause great distress. The most common however are a deranged state of the digestive organs, swelling and pain in the abdomen, a confused and heavy feeling in the head, lassitude, depression of spirits, sour breath, paleness and emaciation. Persons of a nervous temperament complain of a creeping sensation as though something were crawling or moving about in the intestines. There is very often a weakness in the limbs with pains in the back, vertigo and palpitations.

When these symptoms, alone or in connexion with any of those mentioned as appearing with the smaller worms occur in a person otherwise healthy, we may with a fair chance of being correct, predict the presence of a tape-worm.

In the treatment of worms, two indications are to be fulfilled, first to expel

them from the body and afterwards to prevent their reproduction. The latter can generally be accomplished by proper hygienic measures. To effect the former a variety of medicines have been successfully used, the most efficient of which is the oil of turpentine for its application to both the large and small worms. In cases of tape-worm it may be administered in doses from half an ounce to two ounces to an adult and a proportionate smaller amount to children, in all cases to be taken on an empty stomach and followed in the course of a few hours by a dose of castor oil or other mild purgative. When given to expel the round worms the quantity must be considerably diminished, thus from five to twenty drops will be sufficient for a child according to its age from one to six years.

The flowers of the Korso, a small tree growing in Abyssinia and the seeds of

our common pumpkin have of late years gained considerable celebrity in the treatment of the *Tenia*. The former is said to be superior to the oil of turpentine, it having killed a *Tenia solium* in half an hour after its administration, but it has no effect on the round-worms. The dose of the powdered flowers for an adult is half an ounce to be stirred up in half a pint of warm water, and taken in two or three draughts at short intervals.

Of the pumpkin seeds two ounces deprived of their outer covering and made into an emulsion with sugar and water may be given; the same rules to be observed with both as mentioned with the oil of turpentine.

Spigelia, *chenopodium* and the European wormseed *santonici semen* or its active principle *santonicin* are efficient vermifuges and are frequently employed. A combination of *spigelia*, *senna*, and *magnesia*

is very effectual in destroying the round worms in children.

Calomel, among its many other applications, has also been employed as an anthelmintic. It is supposed to act by increasing the flow of bile, which sickens the worms, and then by its purgative property it expels them from the intestines.

The small threadworms which infest the rectum can be more readily reached by local measures, such as enemata of the infusion of quassia, or of common salt or of the tincture of the muriate of iron in proportion of half an ounce to half a pint of water.

There are many other medicines possessing anthelmintic virtues, but those that I have enumerated, will be found sufficient for all practical purposes.

I am conclude conscious of many imperfections, but if application and attention were alone necessary I might

say that I had succeeded in my in-
tention expressed in the beginning

AN
Inaugural Dissertation
ON
Hepatitis
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
*Med. Coll. Carol. L. Henniford A.D.
of Maryland*
Session Ending March 1866

Hepatitis.

The Liver is the largest glandular organ in the body, and has besides the secretion of the bile, other important functions in the process of blood-making - the most interesting to the Physiologist, being the Portal circulation.

It varies in size in different persons and in the same person at different times - in health and in disease - is generally smaller in the female than in the male; and proportionately to the size of the body, is larger in the foetus and young child than in the adult. Normally its weight is from three to four pounds; and occupies the right hypochondriac.

the epigastric and a small part
of the left hypochondriac regions,
being bounded above by the dia phragm
and below by the margin of the ribs -

In inflammation it may be greatly
enlarged, pushing up the dia phragm
even to the third rib, extending into
the left hypochondrium and as
low down as the crest of the ilium;
so that the important organs in the
thoracic and abdominal cavities
may be greatly compressed, with
all the ill effects consequent on
such pressure.

The increased in size may be owing to
distension by pus or hydatids, or
to the growth of tumors &c

The characteristic symptoms of Hepatitis are, pain and tenderness over the region of the liver, sometimes extending to the chest and loins, and varying in degree and nature with the seat and grade of the inflammation.

The pain may be particularly marked in one spot, or diffused over the organ - may be constant or paroxysmal and occasionally is quite wanting. There is frequently pain in the right shoulder, which may extend down the arm as far as the wrist, indicating according to some authorities inflammation of the right lobe, while a corresponding

pain in the left shoulder and arm is said to be indicative of inflammation of the left lobe.

This is liable to be considered rheumatic, but movement of the arm in Hepatitis is not accompanied with pain, while pressure over the liver generally aggravates it. Tension of the recti muscles was considered an important diagnostic sign by Dr Twining.

Greater tension of the right rectus when the right lobe, and of the left rectus, when the left lobe was the seat of the inflammation.

When the upper surface of the liver is acutely inflamed, a deep inspiration causes pain by the pressure of the

diaphragm on the inflamed surface.

The pain is generally increased by pressure applied either over the region of the false ribs or the epigastrium. This however may be confounded with rheumatism of the intercostal muscles, or with pain from pressure of the stomach owing to gastritis. This difficulty may be overcome by placing the patient divested of his clothing, in the upright position so that the ligaments may be put upon the stretch, and at the same time directing him to take a deep inspiration, in order that the liver may be pushed below the margin of the ribs by the

proper of the diaphragm.

In this way it may be easily examined under the thickness of the abdominal walls, from fat, or the existence of tumors, as it is a prove too great an obstacle. Another mode of examination is to place the patient in the horizontal position, flex the thighs upon the pelvis so as perfectly to relax the abdominal muscles; and then by making pressure with the ends of the fingers at first backwards and then by flexing the first joints and pressing upwards and outwards.

In this way the substance of the

7

liver may be directly compressed against the lower ribs, so as to avoid all possibility of confounding tenderness of the liver with that of any of the other viscera.

The position of the patient in bed is of importance, as he generally lies on his right side, or on his back with the body flexed on the right side, as it were to avoid any tension of the affected parts.

Compression of the Stomach &c.

This symptom was very well marked in a patient exhibited during the present course in the Sailors ward of the Infirmary.

In cases of great thickening of

the abdominal walls, the existence of tumors, excites V^{E} , recourse must be had to percussion.

The dulness should not extend farther than the boundaries hitherto given, and may be easily distinguished from the clear sounds elicited from the lungs above, and the stomach and intestines below. In addition to these symptoms there is not unfrequently a short and dry cough, sometimes attended with expectoration, considerable gastric disturbance, and occasionally vomiting. Cyanosis and jaundice frequently occur, the lower and upper portion of the body having

a yellow appearance with furred tongue, bitter taste in the mouth, scanty and yellow urine and not unfrequently attended with a morose and hypochondriacal state of mind.

There is more or less fever in the acute form, which is generally of the sthenic variety, and ushered in by vigorous accelerated pulse and general vascular disturbance.

It sometimes assumes an asthenic or typhoid type, which happens when there is suppuration and abscess. Chronic Hepatitis is generally a sequel of the acute, or it may be a primary affection.

Its attacks are generally very insidious - may run its whole course and terminate in a cure, or in suppuration without any very decidedly marked symptoms.

The symptoms are the same as in the acute forms, but are less acute, and sometimes instead of pain, there is only a feeling of uneasiness, tension, &c.

The causes which produce this affection are various - such as falls, blows, excesses in the use or abuse of alcoholic stimulants, or a too stimulating diet, the irritation of gallstones &c.

However, the most frequent causes

an intense and prolonged heat,
malignous influences, and important
surgical operations.

The duration of this disease is
exceedingly various. It may
last only a few days, or a week;
or having assumed the chronic
form may last an indefinite time.
It terminates generally in resolution,
or it may become indurated—
may suppurate and in rarer
cases may become gangrenous.

In chronic hepatitis the
ultimate tendency is to atrophy
and the pathological changes
found in cases of cirrhosis,
fatty degeneration &c.

The occurrence of suppuration is generally marked by chills or general rigors, with increased frequency of pulse, but a diminution in its force and volume.

There is relaxation of the surface and a feeling of weight and throbbing in the side with a diminution of the previously acute pain.

When suppuration is established copious and exhausting sweats are apt to occur, most generally during sleep, and sometimes complete hectic fever sets in.

This latter variety generally occurs during very hot weather or in

hot climates where the exciting causes operate unceasingly and the constant liability to new accessions of the disease before the subsidence of the original attack.

When an abscess is formed it may be absorbed, or discharge its contents in one of several directions. Either externally through the intercostal spaces, upwards through the diaphragm, or into the stomach, colon, or the peritoneal cavity.

When it tends to discharge its contents externally there is a circumscribed swelling and a

bulging of the intercostal space,
having a flabby and pasty
feel, and sometimes distinct
fluctuation can be felt.

If the adjacent peritoneal invest-
ments become adherent to each
other the pus may find a free
vent either spontaneously, or by
an incision affording great relief
to the patient and may result
in recovery. If it is discharged
through the diaphragm it may
act seriously by compressing the
lung, unless adhesions have formed
between the lung and diaphragm.
in which case it may be dis-
charged into the bronchial tubes

and be expectorated.

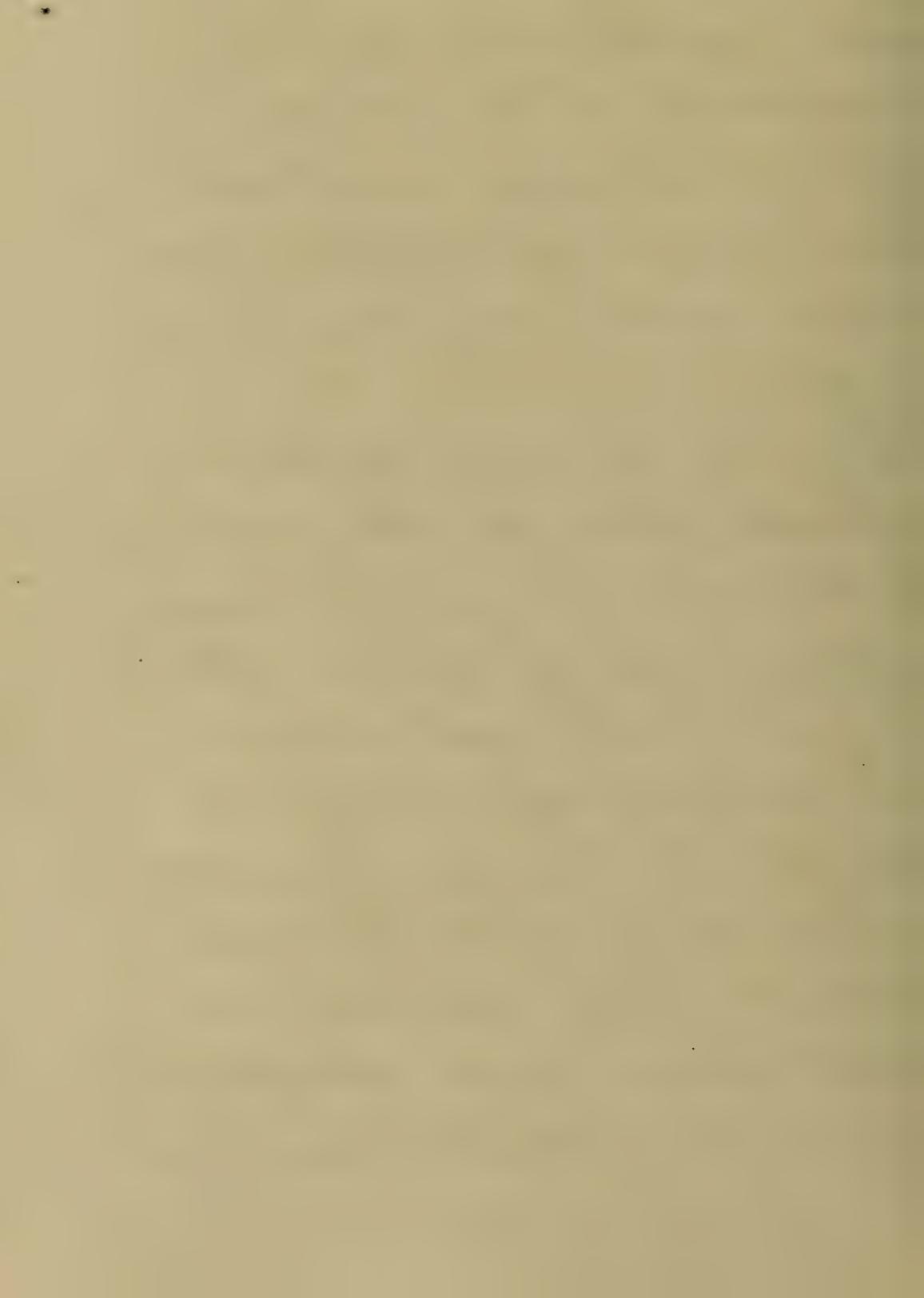
In rare cases it bursts into the pericardium, causing instant death. If the abscess opens into the stomach, it may be vomited, the ejected pus having a bitter taste, and tinge, of bile, or, as sometimes happens, pure bile is vomited.

When the abscess discharges itself into the Colon, its contents are passed by stool. If the adjacent peritoneal investments do not become agglutinated, and the abscess is discharged into the peritoneal cavity, fatal peritonitis is the result.

In some cases the abscess may

become encysted and be a very small source of annoyance, or it may be absorbed and the space filled up with granulations so that nothing may remain but a cicatrix.

Frequently however the patient sinks exhausted before the opening of the abscess, or is unable to endure the drain upon the system after this event. The right lobe is most frequently the seat of the abscess. I have seen a case lately in which nearly the whole upper two thirds of the right lobe was converted into one large abscess; and several cases in which a number of



Smaller ones were scattered throughout its substance; while the other lobes showed no marked lesion except a staining of bile, which resulted probably from the increase of function which they were obliged to perform.

Hepatitis is a fruitful source of other affections, from sympathy or from pressure, of other important organs owing to increase in size &c.
The prognosis should always be guarded. In uncomplicated cases the general tendency is to resolution but when there are organic changes and miasmatic influences ~~are present~~ the cases are always more grave.

and should be thoroughly investigated and understood before a method of treatment is fully instituted.

The Treatment is divided into local and Constitutional.

Local treatment consists of topical bloodletting by cups and leashes; counterirritation, friction to the side by, stimulating ointments &c; when remedies are not well borne internally; and by fomentations. Cataplasms &c. When suppuration is known to have taken place, any tendency to a discharge externally should be encouraged, while tonics and supporting treatment generally

should be administered with simple but farinaceous diet, and a strict attention to hygiene.

The constitutional treatment consists in the administration of Saline and Cholagogue cathartics, attention to diet, and supporting the strength of the patient in every manner possible in all cases.

^{or} The most efficient cholagogue, and the one most used is mercury and its preparations.

It should be used cautiously so as to fulfill its office without producing any violent effect and if ptialism occurs it should be ^{but} ~~but~~ more than a slight action on the

gums, just sufficient to show that the medicine is acting, and should be suspended upon any indication of a violent action, or the occurrence of Inflammation.

Other related Cholagogue Medicines may be advantageously used, such as Podophyllum, Taraxacum, the mineral acids, &c., &c. The latter, the Nitro-muriatic acid is used preferably on account of its possessing both tonic and Cholagogue virtues, and may be used advantageously when Mercurials are contraindicated.

However Nitro-muriatic acid and Mercurials should not be administered at the same time lest a poisonous

Compound be formed, and cause
unpleasant or it may be fatal
complications.

Chronic hepatitis requires a
somewhat modified treatment but
is essentially the same whether a
sequel of the acute or an original
affection. This consists in counter-
irritation over the region of the
liver, a gentle muscular course
and all measures calculated to
improve the general health.

Hepatitis is a rare affection
in cold climates, except in a very
mild form, hence cases which are
obstinate in hot climates derive
signal benefit from a removal

to a colder so that the exciting cause
is removed, and the gentle exercise
with change of scenes, society &^{etc}
divert the mind, and are attended
with the most happy results.

AN

Inaugural Dissertation

ON
Tracheology

SUBMITTED TO THE EXAMINATION
of the

Provost, Regents and Faculty
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Robert H Marshall

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University of Maryland

Session

1866

Inaugural Dissertation

on

Tracheotomy

by

Robert W. Marshall

of the

University of Maryland

Baltimore

Ma

in the earth.
Man, in the early days
of nature, lived in a state of
health, both in body and mind,
in which he seemed to live a
life without culture. There were
neither irregularities nor inclem-
encies of the seasons; in a state
of innocence, and under a mild,
and clement sky, there was nothing
to produce disease. Man was
perpetual: protected by the imme-
diate presence of the Almighty;
and as yet innocent of any
violation of his laws, he was
happily in a innocent, which
the spontaneous beneficence of
nature afforded him. But re-

seen the artifice of new or
moward destinies. He has trans-
gressed the sacred laws of his
Creator, and incurred the penan-
tial annexed, by his own trans-
gressions. His days are now
shortened, and encumbered with
disease; notwithstanding that God,
in the infinitudo of his mercy,
has stored our mountains, fields
and meadows, with means for
removing disease, & commonly met
with in the countries and climates
of which man is an inhabitant.
But still death is inevitably stamp-
ed upon all creatures, into which
the Creator breathed the breath

we often see the health
fail, and all its freshness wither,
and often our best friends close
their eyes in the cold and transparent
caverns of death, and let us exclaim, "Where are the boasted powers
of medicine, the pride and skill,
the vain boast of science"; how
humiliating to the pride of man!
But mark a still more
striking instance, under wise and
skillful direction, mankind has been
allowed to make such rapid progress
in the healing art, since it appears
upon a superficial glance to be in
direct conflict with the primeval curse
condemning man to change, disease

death. But when we reflect,
and we have been instructed by
him, to be mindful one of another;
it seems to present quite a different
viewing of the case than does,
for example, how mindful we should
be of suffering humanity; or even
informed of this story which, when
when he was about to remove the
rib from our first parent; out of
which he formed woman, when
he caused a deep sleep to fall upon
Adam, and took from his side the
out of which he formed woman.
With such an example before us, it
becomes our pleasant duty, whenever
in our power, to alleviate pain and

influence on her curative efforts.
With these examples now adduced before us, we feel grateful that in
process, a means so potent in its
bearing, in the alleviation of so many
diseases as the one of which we are
about to treat; for in the operation
of Tracheotomy we are often enabled,
to avert death, and save our patients
from an untimely grave.

By consent the term Bronchiotomy
has been adopted to designate
a class of operations appertaining to
the air-passages, either a division
performed directly upon the Lungs
or Trachea or involving both Larynx

and Praecea constituting surgeon.
tracheotomy or the sub-thyroid operation.

Owing to the peculiar locality of
these operations the public is inca-
pable to look upon them as something
which could conception and con-
junctised should the case prove fatal
although not from the operations but
from the cause demanding their
performance the poor surgeon is
doomed to disgrace. It is attributable
to these facts that the operations -
tracheotomy &c are often delayed till
the powers of life prove inadequate
to the repair of which account of
the delay and then the operations as
a dernier resort is decided upon and

which does not often health second
and by this kind of practice the
various operations constituting.

Bronchotomy have been placed by
the Profession in bad repute.

and, I believe, Bronchotomy which
is much oftener resorted to than
any other appertaining to the air
passages.

We employ the various
operations constituting Bronchotomy
in the relief of many diseases to
which mankind is subject some
of which are truly malignant in
their nature for instance we resort
to this mode of relief in pseudo-mem-
branous croup a disease which has

noticed the existence of many an interesting child. The peculiarities of which consist in the organization of a mucous membrane endangering the health by lessening the width of the air-passages. It enters us in this place to consider the surgical Anatomy of the parts involved in Tracheotomy. The first tissue with which we have to contend is the skin covering the throat beneath which is found the superficial fascia, formed in Anatomy also the superficial fascia of the neck. The next come in contact with two pairs of muscles recognised by the names Sterno-Hyoideus and Sterno-Thyroides. We then find the isthmus of the

and gland which is usually found covering the three or four upper rings of the Trachea but occasionally as far down as the fifth, and beneath the thyroid gland or rather in contact with it we find the Thyroid plexus of veins, some of which are not very diminutive. Determined with care we sometimes find the middle cervical artery and finally we come down upon the fascia covering the trachea which is found in the middle region of the neck. Having thus as briefly as possible given a description of the parts involved we come next to speak more directly of the manner in which the operation is usually performed. Having

provided ourselves with a scalpel, hemostat, pair of forceps and some cotton-wool for mopping the tumour, some dressings after the operation; also a pair of fine-pointed scissors, and curved forceps armed with a small piece of sponge or canula if necessary for the patient to wear after the operation. A second canula is if for the rest is the main or larger tube is provided with a smaller one which can be removed and cleansed so any thing offering obstruction to an entrance of air without removing the main canula which is retained in position by means of two pieces of tape which are attached to the canula and made fast by being tied around

Having made all necessary
arrangements we proceed to place the
patient in a recumbent position, his
head placed in a such a posture that
his sufferings shall not in the slightest
degree be augmented by the same.
The front of his neck should be freed
of all covering in order that the sur-
geon shall have free access to the parts
the division of the skin has been a
matter giving rise to some difference
of opinion among surgeons as to the
best manner of performing it. Some in
describing the operation will tell us to
grasp the Larynx with the left hand and
make tense the skin and then make
a longitudinal incision, etc etc

in mode of division of the skin & so
because we may go beyond the skin in
depth and probably wound some vessel
which may give us considerable trouble
by hemorrhage which may be avoided
if we proceed in the manner directed
by other surgeons, namely to clasp the
skin with a pair of forceps separating
it from the fascia & make a small
incision with the scalpel passing
transversely through the skin.
Opening thus made as an entrance
for the director, which we need
between the skin and the superficial
fascia in the direction in which
we wish to make the incision, we then
divide the skin with a bistoury, laying

groove of the directory. Having incised
through the skin we lay bare the super-
ficial fascia. It is now considered the
most important point to be observed
throughout the operation, not to cause
hemorrhage. In order to do this, we
proceed to divide the fascia with a
pair of forceps, tearing apart or sepa-
rating the fibres with the handle of the
scalpel, by which means we lacerate the
minute blood vessels, and ^{thus} avoid hemor-
rhage. We next divide the Sterno Thy-
roid muscles, rarely with the hand
and partly with the handle of the
scalpel. The isthmus of the Thyroid
gland may be divided with the scalpel,
but hemorrhage occurs we must then

do not cut it in any way we think best,
a ligature is the last resort. If after
the isthmus of the Thyroid gland is
divided we find it impossible to pro-
ceed without wounding the artery.
it is best to ligate and then divide
treating the plexus of veins in a sim-
ilar manner, with this done we have
completed the operation except the divi-
sion of the fascia covering the trachea
which we may divide in the same way
in which we severed the superficial
fascia of the neck. Before we proceed
to open the trachea we observe whether
or not the hemorrhage has entirely
ceased, if not, we will find it best
to precipitately with the sponge and

an unmentionable degree of difficulty.
It now seems to me a small
part of the division of the Trachea as
recommended by surgeons. Some will
tell us at this point of the operation
to require our patient to swallow
and while the Trachea is thus manip-
ulated to thrust the ~~scapha~~^{scaphula} or blade
into the Trachea. As it regards this,
it is necessary to notice it briefly.
In almost all cases requiring the
operation it is a last resort and
often life is too nearly exhausted to
be obedient to our instructions. Often
we are operating upon a patient who
is young to be obedient to our command
therefore we must discard that mode

of opening the trachea, and proceed
in another way which we will do by
seizing the trachea with the tenaculum
and trusting it to an assistant, we
instruct him to make fast the trachea
while we firmly fix it between our
thumb and finger we make an open-
ing sufficiently large to accom-
plish the end desired.

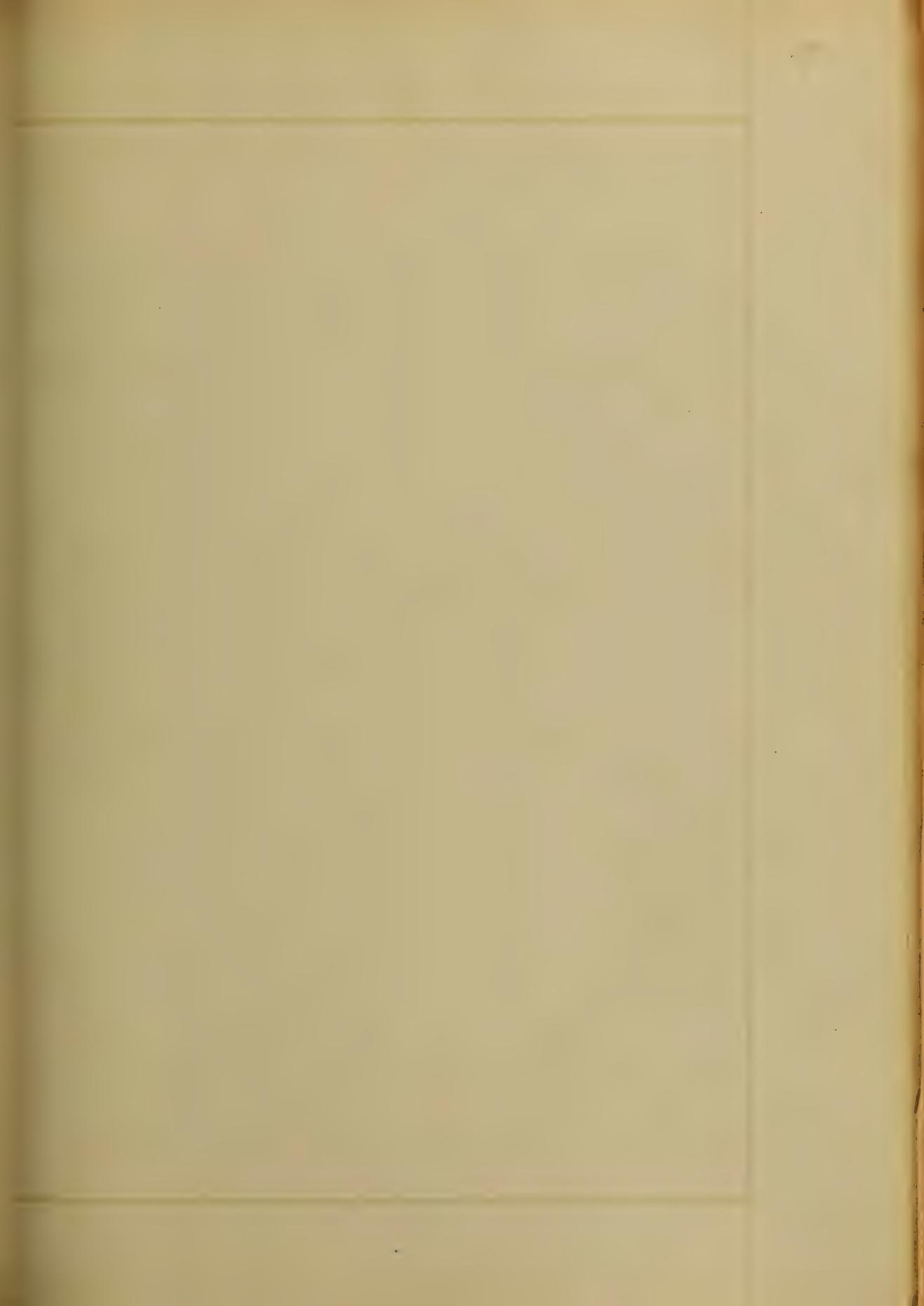
Having described the operation
of Tracheotomy let us now speak of
it as a means of relief in respect
to the most important diseases with
which we as physicians have to contend
it is not my intention to speak of all
the diseases requiring its practice
Tracheotomy for they are by far too

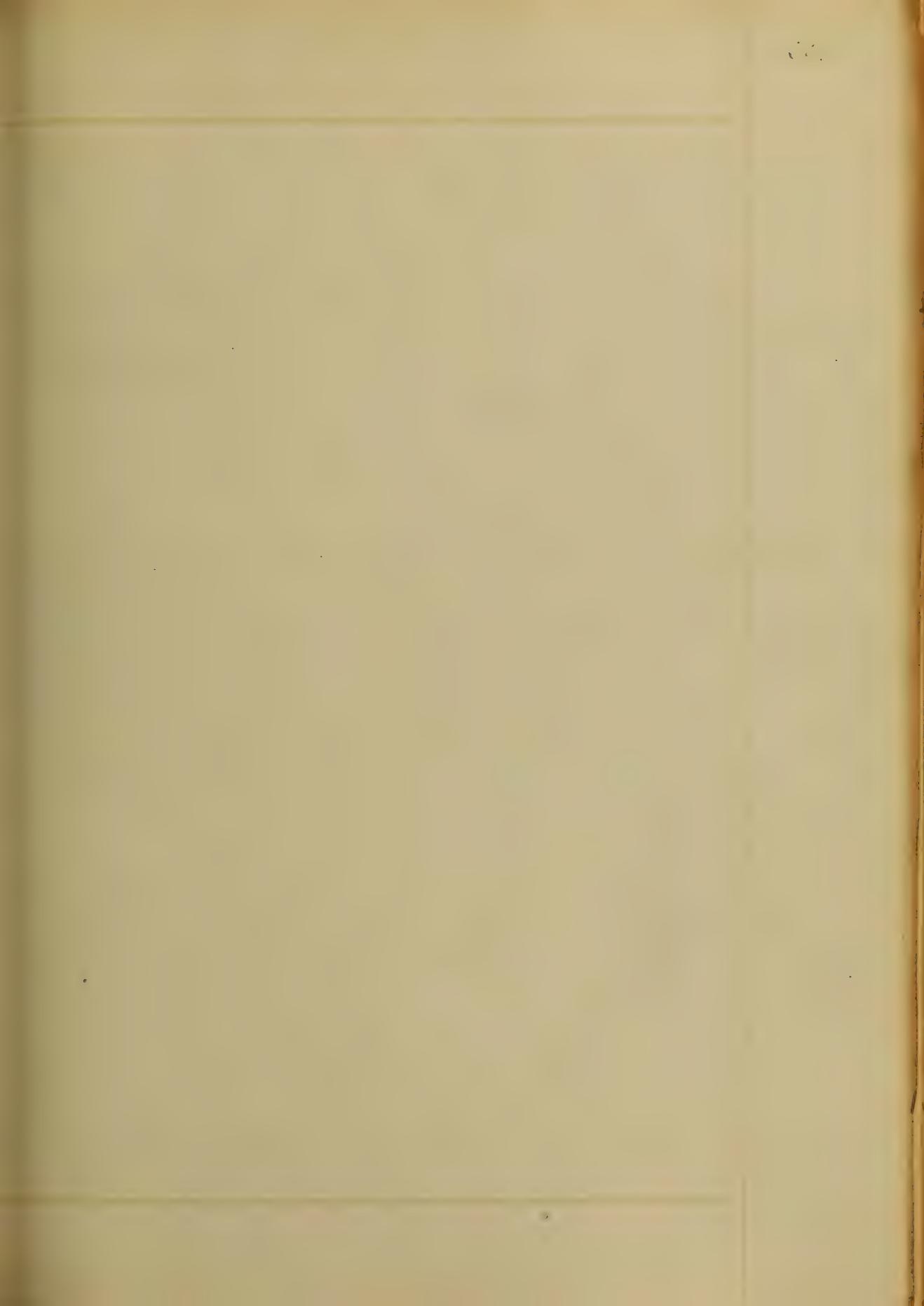
numerous. suffice it to say we confine
ourselves to those diseases which
act either directly or
indirectly to produce an obstruction
to the passage of air into the lungs.
In order to understand and fully appreciate
the object of Tracheotomy in
disease it is necessary that we should
first enquire into the effects produced
by whatever cause obstructs respi-
ration. One of the first effects upon
respiration is the immediate obstruc-
tion of the passage of air into the
lungs which is followed by congestion of
the respiratory apparatus, hence the
blood that should be sent from the
right ventricle is unable to a

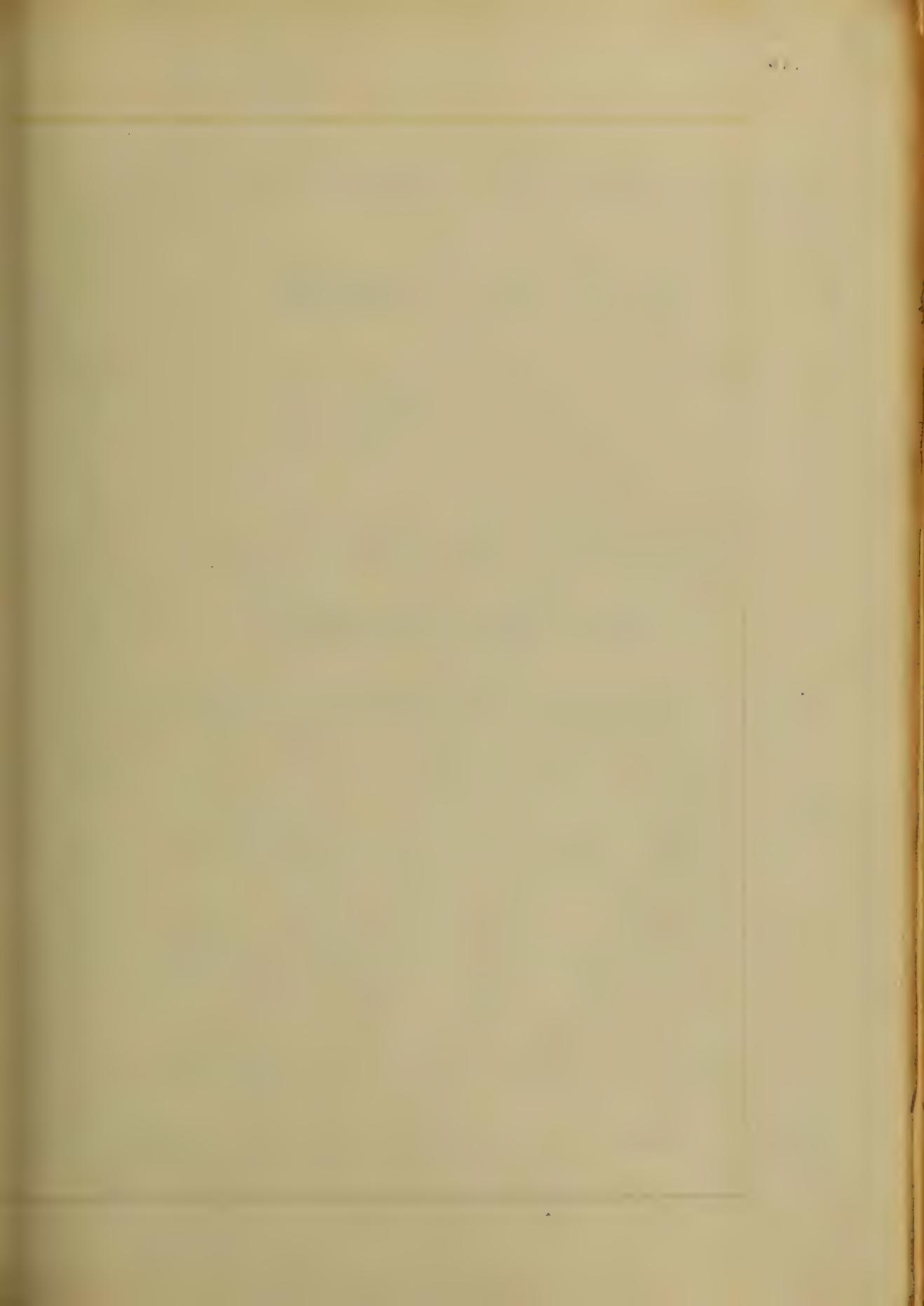
certain extent and out a small quantity finds its way through the veins to be transmitted to the left or systemic heart hence we find after death the right auricle and ventricle filled with oxidized blood much congested, while the left auricle and ventricle are for the most part entirely empty of blood.

This stagnation in the heart prevents the circulation and motion of the same and death inevitably follows.

Caused by a deficiency of oxygen so requisite to carry on the various phenomena of the nervous system which in reality is life itself.







AN
Inaugural Dissertation
ON
Cholera.

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,

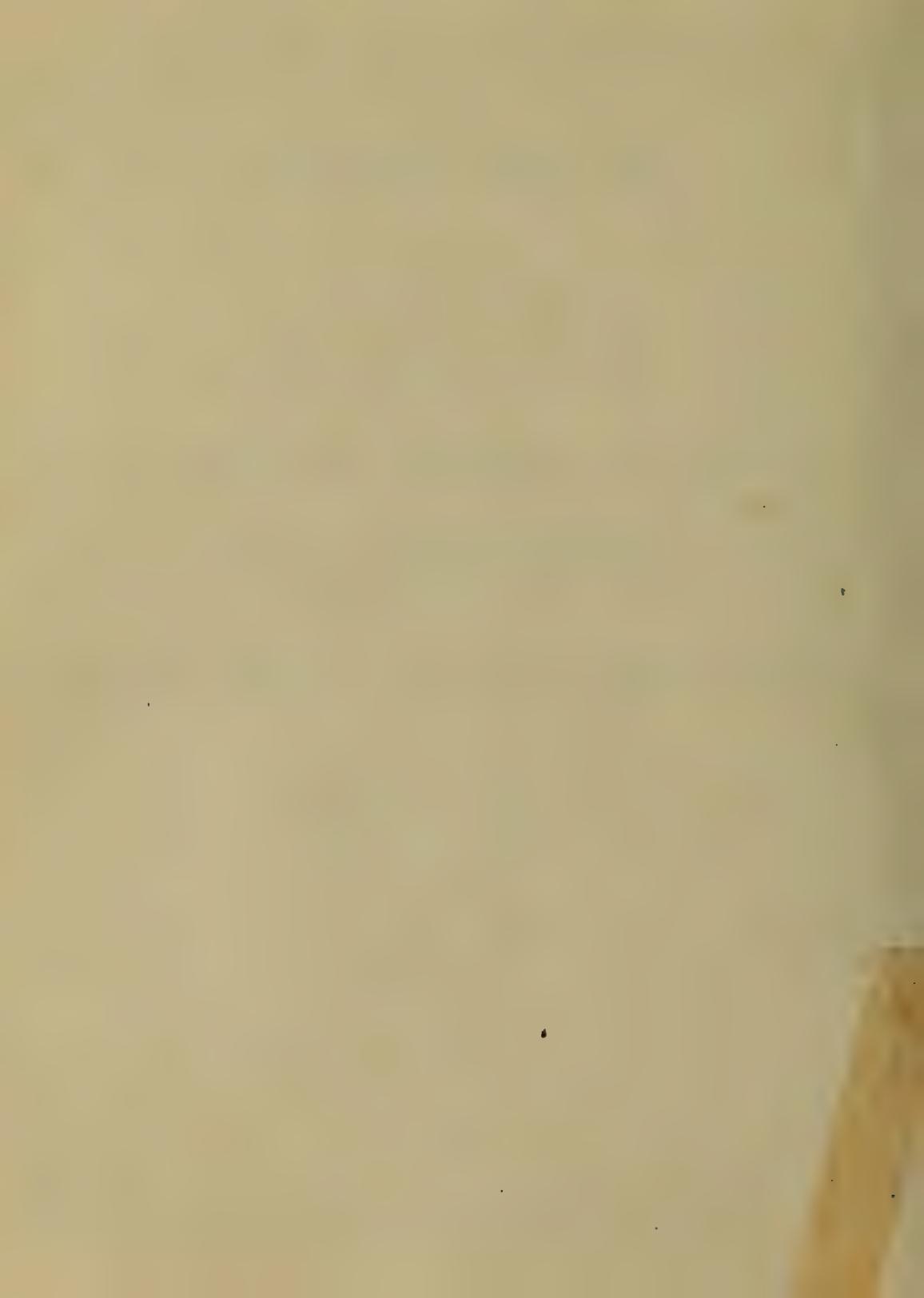
by
Charles F. Wilson.
of

Maryland.

Session

1865

1866



Cholera.

Having the honor of being a student
in this most learned and highly respected
Institution, it becomes my duty to present
most respectfully to Your honored Body, a
Thesis on some disease that shall constitute
in Your judgment, a sufficient cause of
my attention to Your admirable instruc-
tions, and excellent admonitions, during
the past and present Sessions.

As a Thesis, I desire to present the following,
brief account of a disease, which, has
for some been the Study and anxious & treb-
ble Care of all parts of the civilized world.
The disease is that of Asiatic or Epidemic
Cholera which has long been the dread
and terror of all Nations, and which it is
more than likely will soon make its

appearance in our midst. A brief history of
this scourge I deem necessary at this time, as
it appears from all accounts
of Medical Men of that day that it is
certain first made its appearance in
India in the year 1817 in Josoore, a town
situated northeast of Calcutta, and not
many miles therefore. From this its birth
place, it rapidly spreads throughout
the whole of India, turning to take the banks
of the river Ganges as its guide whereby
most of the important towns of that coun-
try were more or less depopulated by its
ravages. Taking India then as its birth-
place, its ravages we find rapidly spread-
ing to other and more distant regions.

In 1820, China was visited and its Capital

It presented a most fair incentive for
the work which was soon to open. I did, however,
and do, it within its compass, & better from the
view of march was again resumed when we
left it, passing its way through the mountain
barrier Russia & Turkey. From the
shores of the Persian Gulf it rapidly ascended
to the banks of the river Euphrates, finally
expediting onward through Turkey, Syria
regardless of mountains and deserts, and when
not held from appeared on the shore of the
Caspian sea, where it turned, as if to gather
its full strength, reassuming its march for
Europe. Finding a convenient water course
in the river Volga it descended that stream
into the interior of Russia, attacked Moscow
its ancient Capital, in the year 1830 and

Viennaburg in 1831. From this it soon spread by its spread into Poland, and attacked the Army of that Country in the Field after the battle of Cracow.

Outbreak of the same year it appeared in Austria, attacking its Capital Vienna in April, 1831, and from thence through the various German States. Crossing the North Sea into England, it appeared in the town of Sunderland in the north of that Kingdom, but did not rouse general attention, or excite alarm until the latter part of the year, when it spread through the various towns in the north of that Country, and in 1832 reached London where its ravage was manifest throughout that densely populated City.

From Canada it follows down and
downward passing the river St. Lawrence, thence
westward into the Great City of Montreal, effected
by a quick sail from its rapid and un-
regularity. The first road of ~~other~~^{the} occupation
begun Montreal in 1832, having crossed the
barrier of the Great Atlantic, which it seems
afforded no barrier against its approach.
Coming before reaching the shores of Lake
Ontario and finding the main ice cover
officiarily, and reached our shores in the
vicinity of New York but did not receive
any very serious damage upon the
expedition. From the continental city
it passed rapidly southward crossing
the shores of the Susquehanna and Susquehanna
bays opening in the cities of Philadelphia

and Baltimore and about the same time
in Philadelphia. As far as the epidemic seemed
to have found a favourable opportunity to
work it vengeance upon all human kind
it was in this city that the greatest fatality
was known on this continent though it had
not of long duration. Our extreme Southern
Labour & slaves were soon after visited.
New Orleans was the seat of the plague of
Cholera and from that City it extended
westward up the Valley of the Mississippi.
With extreme violence, indeed the Geography
of that section of Country presents a most
favourable locality for its merciles to do
so. Validating itself in the vicinity of
the malady in Cuba from three or four cities
where it spread terror in the Capital of the

Caint Montezumas. He said it was
obliged to exert no influence in im-
peding its progress; its march is really
unward.

Symptoms.

The prominent symptoms of
cholera are, repeated discharge from the
stomach and bowels of a vitiated fluid,
various in appearance. In violent cases these
discharges, are accompanied with spasmodic
convulsions in the bowels and limbs,揪 and
contraction of the countenance, coldness of
the skin, metatarses, and rapid exhaustion of
the energies of the system. The term
cholera, by which the disease is denominated
is a complete misnomer, so far from
consisting in a morbid discharge of bile,

as its name implies, in almost every case of
Coccid. The excretion of this element is at
first deficient; then violent attacks of
Coccid there is a total absence of bile in
the evacuations, which are at first thin and
watery, subsequently becoming of the wash-
ings of fresh meat; frequently they are
white and of a mucous appearance
like rice-water, or thin starch, at others dark
colored like soot from their character
have also received the name of rice-water
stools, and are peculiarly characteristic
of the disease. These rice-water stools are
said to result from the stripping of epitheli-
um from the mucous membrane of the
intestines, which is easy of perception
under the influence of the microscope.

Pains of a severe character are felt in the back, and bowels, attended with excruciating cramps and vomiting. When the violent convulsions are seized with an intensity which if quenched would again violently recurring with a return of cramps, soon these the patient rapidly sinks; extreme coldness of the body is felt and the skin is of a darkish color, pulse frequent, very small and feeble, and insensible to no touch. The lips are of a purplish hue being stained with matter resembling lead, in consequence of the thickened breath owing to the cold. With violence and bitterness of the body there is often a great vomiting away the vomit is runny drye in the mouth with a bright

spending alone. The mind during this time, is generally clear, the patient becomes talkative, intimately and expresses total indifference as to his fate.

comes from chlorine. The cause by the operation of which, the common and apprehensible cause of disease give rise to cholera is comparatively unknown. Yet it is a morbid microscropic influence, which produces its unaccountable effects so thought-by many, it will be the nostrum nostris, with its birth, growth, and rapid progress. Though the peculiar morbid principle we as yet know, cannot be called a disease. Various opinions, &c. by the most eminent & ablest of the Professors have been advanced, but it seems none as yet

so variable at its earliest evolution, it is
now, in a degree, for the under
writer, to call this his burden, and in the
view of the disease, that he could be
general or civil, commercial, property
homicide, &c. if so given to him by
an infliction. It is evident, notwithstanding
the preceding and accompanying chapter,
that Brodia in a country or city state have
been deviations from the usual state of the
weather and season, unwanted vicissitudes,
with changes in the electrical state of the
atmosphere. Perhaps these would be inde-
quate to the production of disease, but for the
unusual predisposing cause of unfavour-
able localities. The criminal way of this dis-
ease, is, Agency by kindred or change

situations, on the banks of rivers or near wells
and ponds of water; impregnated with decomposed
vegetable remains and putrefaction of all kinds.
One thinks the production of this mainly is
due to aerial appearances, such as the advent
of Comets and the peculiar electrical state of
the atmosphere. But that such phenomena
should exert an influence on this disease
is not to my mind at all admissible. For
bodies such as above described, occupying
an altitude also not very great, it is
can have any ^{material} effect on a disease
which seems ^{entirely} confined to the
decompos'd of vegetable or animal origin
is, I think, totally out of reason. There may
be a peculiar state of the atmosphere,
which is acted on by electrical bodies capable

of producing such change as may be
coupled with certain veins of air produce
this peculiar degeneracy of early maters,
and thereby be more exposed to different
regions. I doubtly the distribution
of this disease, is due to aerial influence, else
how could it be accounted for as trav-
eling vast mountains, deserts and seas.
A wise old instance, takes some account
perfectly free from the malady, she re-
mains on smoothly on her course, all on
hand in perfect health, when suddenly
without warning they are overwhelmed by a
fierce malignant noxa, which perhaps
sweeps off a majority of her race; one
now this it thine, is easily accounted for
The wise old one course falls in with a

uncommon cloud of wind impregnated with this
Chlorine gas, which being inhaled by
those on board soon manifests itself in
all its most malignant forms. This state
of things was strikingly made man-
ifest not many months since. A ship
called from Havre, a French port for
New York, with a crew of a hundred or
more passengers on board at the time of
leaving it is mentioned no case of chlorine
was known to be in that port; but when
nearly to the end of her voyage so off on pac-
ific she was attacked and on reaching the
port of New York 18 of the number were
reported as having perished from the
disease. So the only sensible way in which
this can be explained is if we accept her with

upsets of the movements of the disease in the sea,
that the vessel in its passage was met by a
violent storm of this species in the
wind and air, which perhaps found a ready
locality in the ship, undeviated in the
entire duration of the wind, owing thereto
it readily finding shelter which occurred near
the time of the incipient attack of the infection.
In the very plausible case of this malignant
disease on vessels at sea, may be attributed to the
bad water, and sometimes decaying vegetable
matter which may be found on boards of all
vessels having a long voyage. On arriving
at New York this vessel was put in
Quarantine strict vigilance made
no food or proper treatment wanted to
and disinfectant were applied about 11th

well as soon to have the effect of a very inde-
pendent government on behalf of the slaves. The
idea of a similar & available system of some
of alcoholic drinks - food consisting of veg-
etable matter not of a size or density to be fit
for dogs to introduce bairam. This appeared in
one of our papers not long since, an article
which went to show, that ere long we may be
startled by the sudden appearance of num-
bers of our slaves in cities, & towns, & that
on making inquiries concerning them we may
discover these granaries are now filled and
overburdened, & from time to time to their almost capae-
city with wheat, which is now in a decaying
condition. This grain is will be specimens
for higher prices, in the course of time they
go on, and with it must necessarily

arising first and going on, which often easily becomes inflammation in the surrounding atmosphere, when of course this will be treated by the surgeon, and then also above a matter of course it will become known by his writing down. Sir Bid Academy. The appearance of the body of the dead Society member, which was emaciated, thin, abounding with emaciation. The surface scabby, the whole shrunk, and the skin of the face and hands wrinkled & shrunk. There is no uncommon tendancy in the body to emaciation so is there of marked, yet, in the abdominal cavity. It has been said by those fully acquainted with the recondite stages of this disease,

Varofr after death subject to the
display curious muscular actions, the
limbs are rigid, & often bent double up
and bodies have been known to assume a
different position from that in which they
were placed when put in the coffin.

Next another & no greater effort is made
at death, for on applying the hand the
body is found to be emaciated in all
parts. The skin condition is noticed, con-
sisting of a thin appearance of the body, & the
skin on examination is found to present
a thick farry appearance.

Diagnosis. This Disease can only be con-
founded with Cholera Morbus, which it
very much resembles. We are able to distin-
guish it from that however, by the

No exciting cause of bite, whereas in the east
raided disease there is always present an
increased quantity of Vigilant.
A mere paroxysm or momentary bite, but
so violent, that this simile is in use. The
is often great and continuing until prostration
in the person is affecting, but the vicious habit, the
unremitting concomitant, the universal animosity
of the people & the domestic mental
aggressiveness are generally if not always manifesting.
Prologue of the Disease while in the state
of Circumlocution is properly stated it can generally
be arrested; only often when conspiracy formed
if, & in the stage of violence. With the following
or violent assault, did violent injury
of the suspended circulation, Dunkirk and
increasing feathers and confusion.

which you will see, the author is already
in the favor of death and medicine, give
my illness a physician.

Med. 6. There has been some of different
order and manner of creating this disease, that
he chose one particular plan of treatment would
be to the consider others of more or equal value,
and in this dilemma as a means of the
whole, whereby we can abstract from the vari-
ous painful remedies, a sufficient number
of valuable medical age to which shall
form in this malady, a quick convalescent
and more of one. Now, so much is known
to be in a country and those in aboriginal
from the consideration, the Circumstances
absolute intend should be immi-
nently injured; the science, by any

and must be done to cure the patient's mind. He must as far as possible be free of irritating causes, and his spirits built up, and your physician will, in all probability, in our power. In the Convalescence of the following stage, of full restoration in bed, congested objects should be directed as soon as possible, the evacuations from the stomach and bowels, and the irritation of the Gastro-intestinal mucous membrane and to restore the secretion, particularly that of the liver, so as to equalize the circulation, cause some disturbance, and when necessary, impede the patient's strength. The evacuations must first be directed to, for they generally antecede the induction of the above named diseases.

The remedies said to be best to meet this case
are Alvine discharge, and Chin. and
Calomel in small and frequently repeated
doses, combined, with the discharge and
opiates, with decoction of Soot, Ca. in Ceid
or Ning. These are best given in the form of
tinct. Chin. and Cauda or opiate of
Ca. & ginseng. Ning. Cal. and the
patient complain of great thirst, powdered rice
may be given, which will be found grateful
and refreshing. If the patient is weak,
subcutaneous injections of Morphine &
Kuan Zi may be used. This often brings
the patient a vast deal of relief and
should never be neglected. Lime water
and milk, may be given to relieve gastric
irritation, and when circumstances permit

The common spirit of Camphor will be
found valuable. Six drops of camphor
may be applied to the Otic aurum,
Ointments given by the mouth should be
wiped by an emollient of French white
vinaigrette of the following sort: out of
the circulation and more constrictive, dry hair
well moistened by means of warm bath or
bath-tube, soaks recommended. Hot red
linen, stimulated with mustard, Cayenne
pepper, or common salt, may be used when
the excretaries are cold. Friction of the
face by the hand or with fennel or flesh
brush, affords relief in cramps; and pro-
trusion may be overcome by stimulants, or the
surface liniment of Camphor, common
spirit of Camphor, and other local preparations.

Yeast, Bran, &c. & Hot Wine drunk with cold
water, and flavoured with mint, or other
herbs, may be used, but caution must
be observed. Dr. Wm. C. Young, of Cambridge,
and Dr. Lincolney of Opium, is an invariable
remedy. The following treatment of
Cocca, said to be invincible by an
English writer, is as follows. Tie down the
Cocca, and distract it from commerce, place
the patient up to the knee in water not too
deep to the touch; throw in dice, & wash hand
fulls of coarse salt, cause the legs to be rub-
bed with this, by his hands, with both
hands; open the ears; pour in brine first;
and allow the blood to flow in the warm
water for 12 or 20 minutes, according to the
severity of the patient, & to the stage of the

disease. During the time that the body of
the same remains warm, either the disease
will get over in it by taking some
warm water. The natural circulation
of the body will return, and the patient will
commence asking for nourishment."

The following prescription from the
London Lancet, recommended by the
Medical Association of Washington for the
inhalation of Chlorine may prove be
useful.

R. Acid Cupricum

Vinegarum Camphoratum

Aqua Purae — ℥vj

iii. Take two drachms of the mixture directly and
repeat after every three hours and
uniting and every three afterwards.

I now take leave of my subject
hoping it may meet with Your
approbation I have the honor
to sign myself very truly

Thomas B. Willson.

Clinical Report.

Six Cases.

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

Fred. A Schley

of

Hagerstown. Wash. Co Maryland.

Session

1866

Clinical Report.
Six Cases.

- 1st. Strangulated Hernia
 - 2nd. Double Amputation. Arm & Leg.
 - 3rd. Syphilis. Hunterian Chancres,
 - 4th. Chancreoids,
 - 5th. Syphilitic Fever.
 - 6th. Phlegmonoid Enysipelas.
-

Case I. Strangulated Hernia.

John Lats letter, Miner, Art 35. Resides in Maryland. Admitted August 22nd
Sick 1 day.

The patient states, that he has had a lump in his groin, since Nov, 1864, which was pronounced to be a hernia by his physician, but that he never experienced any inconvenience from it. He was engaged in a copper mine at the time of the injury, and on the evening of the 21st August, whilst lifting a stone, which was heavier than he anticipated, into a bucket, which was to carry it out of the mine, felt to see his expression, "something give way and a burning sensation." He was then

drawn out of the mine, walked to the house which was about sixty yards and took some whiskey. After which he vomited and had frequent passages from his bowels. During the vomiting the gut came down very much into the scrotum. Physician came at 10 o'clock the next day and used tassis, without chloroform, for two hours, with no success. He came to the Infirmary about six o'clock in the evening, was examined by Dr Beckenbaugh and the hernia pronounced, inducible. Ice was applied in a bladder to stimulate the involuntary contraction of the Darts muscle and an enema ordered which moved his bowels but probably from only the portion below

the constriction. Gave Chloroform at
11 o'clock and attempted tois again
without success. Dr Butler was then sent
for and as the symptoms were not ur-
gent, no vomiting, singultus or pain and
tenderness over abdomen, he determined
to delay the operation until the morning.
Ice was accordingly applied all night
The whole appearance of the scrotum,
very much congested and discolored.
August 23rd Next morning there was pain
tympanic distention and singultus, so
the operation was determined upon and
commenced, the coverings were recognised,
divided and the constriction arrived
at. The severing of the constriction could
be heard plainly by those present, the

intestines were about to be returned when a rupture of the serous coat, about one inch long, transversely across the gut and gaping about half an inch, was discovered. Then in attempting to get the remaining portion of the gut back two other rents were made. The question now arose, whether it was better to return the intestines in this apparently disorganized state, to the cavity of the abdomen or to form an artificial anus. It was determined to reduce it if possible, which with some trouble and dexterity on the part of Dr Butler, was accomplished with no other injury, and the patient removed to bed. Fr opii gtl xx was ordered at

once and Opium grj every hour, to keep his bowels quiet. From the amount of injury to the bowels and their unfavorable appearance when returned, death was predicted for him, in all probability from peritonitis.

August 24th Patient rested well, is quiet and suffering no pain this morning. Pulse regular, some slight tympanitic distension and tenderness, over the abdomen, but not sufficient to make peritonitis certain.

Evening. Still better, expresses himself "just as well as before the operation" and he is quite hungry. Let him have some tea and soaked crackers. Continued opium.

August 25th His general condition is better, he has a good appetite. An enema

was ordered and in three hours, there was a good passage, with some streaks of blood, which made us suspect that there was also a rupture of the mucous coat, but of course there could be no certainty on this point. Tympanic distension and tenderness, have disappeared. The sticks were taken out of the external wound, and adhesive strips ordered. Wound looks well, healthy pus flowed from it and granulations are springing up.

August 26th Still improving. Some slight swelling of the testicle which made us suspect that the gut was again down, but upon placing the fingers on the external abdominal ring, and di-

recting the patient to cough, it was found to be all right.

August 27th The bandage was reapplied and the patient is having healthy operations every day. No pain or tenderness over the abdomen.

August 28th Still better and pronounced out of danger from peritonitis. The wound edges are approaching each other and healing beautifully.

August 29th Doing very well, having healthy operations daily, and as there was no indication for its continuance the opium was stopped. Patient eats anything he fancies.

August 30th Still improving. External wound almost healed. The bandage

was applied tightly and he was allowed to sit up. He improved rapidly up to 4th Sept. when the wound being healed, a truss was procured, applied and the patient was discharged apparently relieved.

Since writing the above, the patient has been seen, about two months after the operation. He is enjoying perfect health and still working in the mine.

Case II Double Amputation, Arm and Leg

George George, P.R.R. Hand, Act 31. Admitted Sept 16th. The patient was injured and operated on, the same day was going out to work on the road, attempted to get on the train, as it was moving from the depot, on the left side of the car, when his hand slipping, he fell underneath the car, was run over and crushed. The accident happened about 6 o'clock. He was brought to the Infirmary about 8½ o'clock, Dr Butler examined his injuries which presented the following appearance. The left leg was as far as external appearance went, unjured, the integument being almost entire, with the exception of one or two small openings about the

size of a three cent piece, but upon closer examination, it was found that the muscles were palpified, and the tibia comminuted, from about the middle third to the tubercle. The integument, on the outer side of the left arm, was stripped off to the insertion of the Deltoid muscle, on the inner side not quite so high. The muscles were palpified from the middle of the forearm to a short distance above the elbow joint, fracture and comminution of the radius and ulna in the middle third and fracture through the elbow joint. In addition he had the right and ninth ribs fractured on the left side, and the right foot very much contused, with two toes broken. The patient

must have lost very much blood in the two hours which elapsed between the accident and the operation. Dr Butler, as the man had rallied considerably, determined to amputate, as the only means of saving his life. so after giving him some brandy he was taken to the table, chloroform administered and the operation for the arm was commenced. The flap was almost made by the nature of the injury, so that it was only necessary to dissect back the muscle, saw off the bone, and ligate the arteries, which was accordingly done, using as much celerity as possible. Now the patient's pulse sank so much, that it was deemed dangerous to continue the chloroform for fear of reducing it to such an extent

that he might die on the table. Accordingly stimulants were resorted to freely and amputation of the leg had to go on without the further administration of the anaesthetics. The circular operation was performed upon the thigh. Both operations were done as quickly as possible and had scarcely been finished when the patient vomited profusely, which was considered a good symptom. He was then taken to bed and stimulants were resorted to freely to revive him, a sudafism to the abdomen and warm blankets wrapped about him. He seemed much depressed by the operation.

Evening. Patient evidently recovering from the shock, but complaining of the broken ribs more than the other injuries. Pulse

was increasing in force and frequency,
but still stimulants were administered
during the night. The contused foot was
now, particularly examined and the in-
tegument was found to be cut in two
places, the incisions each being about
two inches in length, one across the dorsal,
the other at the lateral portion of the
foot. Adhesive strips were ordered and
applied, with cold water dressings.

Sept 17th. Patient expresses himself
better but the contused foot and ribs hurt
considerably. Pulse very much increased in
frequency being 132. The fear now was that
the broken ribs had injured the pleura,
and the chest was examined for friction
sound, but none was discovered. Still

to lessen the heart's action and lighten
the duty of the lungs. Tr. Hyoscyami gtt xxx
every 4 hours was ordered, and all
stimulants stopped. Gave him some milk
and beef tea. Stumps were dressed and looked
very well. Evening. Complaining of considerable
pain from the ribs, foot and scrofulous
which had blistered the abdomen very much.
His pulse was very much increased in fre-
quency being 160. Tr. Hyoscyami gtt XL every
2 hours, watching the pulse carefully was
now ordered. As there was considerable
tympanitic distension Ol. Serebrath Zij
in 0j of muleague water, was ordered
as an enema, which acting as desired gave
great relief.

Sept 18th. Patient better, pulse 100+

reduced sixty beats during the night but his foot gave him more trouble than any other part. It looked very much bruised and darkened, sloughing was predicted. So Hyoscyamus was changed to gtt XXX every 4th hour again.

Sept 19th. Doing very well with the re-epithia of the foot, which still looks very much discolored, and becoming more so upon every examination. Some tymphants for which an enema was given affording great relief.

Sept 21st Stumps dressed, and a light poultice ordered to right foot to bring away the slough. As he is not complaining of the pleura, and the pulse is now regular the Dr Hyoscyami was stopped.

Sept 22nd The slough was removed from
the foot, and in addition two toes, which
were completely dead, and the foot was
dressed with Acid Nit gtt & to Aquae Zj
and cloth spread with Cerato, Cetace.

Sept 23rd The stumps look as if they
would heal, the arm more so than the
leg. Some of the ligatures were removed
and it was then dressed with cerate
cloth and dry dressings. An enema was
given from time to time and Zj Fr
Cinchonae ter die.

Sept 26th Doing well for last few
days but getting very weak. All the
ligatures were removed from the arm.
Wine Zj ter die and such diet as he
might fancy was ordered. Did well.

getting slowly better up to.

Oct 18th Patient complaining that his leg is very much swollen and painful, that he perspires very freely at night and is very weak. An abscess has formed at the end of the stump, which is discharging freely and looks swollen and inflamed. Whiskey and water equal parts oil with $\frac{3}{4}$ Tr. ^{opii} being applied on clothes kept wet, the patient recovered from this slight attack and improved gradually up to Nov 6th when he was discharged almost well.

Case III. Syphilis. Hunlerian Chancre.

March Roberts, (negro) Sailor Aet 18.

Admitted Sept 7th sick two months.

The patient came to the Infirmary from a Merchant ship which was then lying in the harbor. He says that when he first observed the sore on his penis, it looked like a small pimple, felt hard and swollen and continued to increase in size to the present time when it seemed to be at a stand still. His venereal desire was so great that he was constantly having coition with women until it was so painful that it was impossible, so that he could not tell at what coitus he had contracted the disease, or how long since its first

appearance. The sore was situated on
the prepuce immediately in front of
the frenum, about one inch square,
hard at the base, and with raised edges.
The prepuce was also oedematous, but
very hard in the neighborhood of the sore.
He had had small bubos in the groin
but they were never painful, and showed
no disposition to suppurate. Now, the
patient has two glands enlarged in the
right groin, and one in the left, but
they give him no pain. The case was ex-
amined and the diagnosis was, Hunter-
ian chancre, the reasons for such a
conclusion were, that the chancre first
appeared in the form of a pimple with
a hard base and raised edges, whereas

chancre would have made its beginning
as an excavation. Then the absence of sup-
purating sores or rather the presence
of indolent ones, almost made the
diagnosis certain. He was on board ship
at the time of the commencement of the dis-
ease, so that he had no treatment at all,
until he came to the Infirmary. The following
treatment was ordered. The chancre was
touched with Argenti Nit and a salve
Bichlor Hydr 8vj to aqu 3j. In addition 8oz
Blue waf. per die. Here the practice of some
differ, they holding that the use of mer-
cury before secondary symptoms make their
appearance, is of no consequence as it does
not prevent or even modify secondary sym-
ptoms, and holding such to be so, they

think it is only weakening the patient
and putting him in a less favourable
condition to bear the secondary symptoms
when they do come, as they certainly will
after time elapses. Of course this is a
question which has been open to discussion
for years, and requires close observation,
and practical experience, to arrive at a
satisfactory conclusion. In this case the
mercury was to be carried to the extent
of moderate phalism, in order to prevent
or modify the occurrence of secondary
symptoms.

Sept 8th Patient says he is better and
the sores have a more healthy look. Same
treatment was continued.

Sept 11th Case still doing well, oedema

much less. Sore looks better, healthy granulations are springing up and edges evidently contracting.

Sept 14th Sore look much better and is contracting very much, being now only half as large, as it was at the commencement of the treatment. Edema is fast disappearing, and he is complaining of his gums and mouth being very sore. This is the outward evidence, that the mercury is acting, his whole system evidently being under the influence of the agent. The Blue Mass was stopped, and the patient put upon the use of the Iodide Potassium gr. v per die. When we next see the patient, in all probability, his gums will be more sore for the Iodine in the Iod. Pot

will attack the mercury in the system, and form Iodide of mercury, and make the phlegm more apparent for a few days.

Sept 15th Still getting better, sores now almost healed but the gums still pretty sore.

Sept 18th Sore entirely healed and by the use of the Chlorate potassium as a wash, the gums are doing well.

Sept 23rd A thorough examination was made for secondary symptoms, but none could be discovered and as the patient was very anxious to leave and nothing to prevent except the sore gums, he was accordingly discharged. The length of time at which the secondary symptoms will appear, varies from two weeks to four months but there can be no certainty.

Case III Chancroids

Elias Ratledge (negro) Sailor Aet 38
Admitted Sept 7th sick one month.
Patient states that he first noticed
the sores, about two days after a suspi-
cious congress, and that the sores looked
as if the skin was rubbed off, but there
was no hardness about them at any time.
He now has five chancroids proper,
which by contractility of surface, have
spread somewhat to adjoining parts.
He has not now, nor never had, any
swelling in the groin, and this is rather
singular, as suppurating bubos generally
attend upon chancroids. The case was
carefully examined, and notwithstanding
the absence of the suppurating bubos

was diagnosed chancroids, and treatment ordered, the sores were directed to be touched with Argt Kit, and then keep lint upon them, act with Labor-ruque's solution of Chl. Soda, Also Ferri et Potassa Tart grs x les die as a tonic.

Sept 8th Sores look much better, have a more healthy appearance, and the patient expresses himself much improved.

Sept 11th There is an indolent look about the sores, as if they had no tendency to heal, and healthy granulations are not springing up as they should do, so the sores were again touched with Argt Kit, and the same treatment continued.

Sept 12th Sores look decidedly better, bleed a little when the lint was taken

off and have a red and healthy appearance
but still it was deemed advisable to
reouch them every other day with the
Art Kit. There seems to be some discharge
from the urethra, which might be one
of three things, either gonorrhoea, chance
in the urethra, or irritation from the
contact of the discharge from the chancroid,
with the anterior portion of the urethra.
As the patient was not very cleanly, and
upon close examination no chancroid
could be discovered in the urethra, and
the discharge almost too thin for Gon-
orrhoea, it was accredited to the contact
of the discharge, with the anterior portion
of the urethra.

Sept 14th Sours look well and are healing

up fast, but the discharge still con-
tinues for which True Sulph or wto
Aquaæ ℥i as an injection to die, was ordered.

Sept 16th Still improving, excretions
almost entirely disappeared, and the
discharge also doing well. As yet there
is no sign of a bubo, which is very
extraordinary as they generally show
themselves soon after the appearance
of the chancre, suppurate and take
longer to heal than any other sort.

Sept 18th There is a marked difference
in the sores to day, they are almost healed
indeed, some of them are covered by
a crust and the rest are improving.
The discharge has not as yet ceased
so the injection was continued but

there being no necessity for the further use of the Argt Kit, it was discontinued.

Sept 24th All the chancreoids but two have healed, and they are fast improving, the discharge almost stopped and the patient anxious to leave.

Sept 24th. Patient was thoroughly examined and as the sores have entirely healed and the discharge dried up, his case was pronounced cured and he was discharged. As to secondary symptoms, I believe that no one doubts, indeed it has been proved conclusively by practical observation, that they will never follow a pure chancreoid.

Case V Typhoid Fever

John Barnes, Sailor, Resides in New Brunswick. Admitted Augt 28th sick 19 days.

When the patient was admitted, his companions could give no account of him except that he had been a sailor on board of a Merchantman, then lying in the harbor, that he had been sick for nineteen days, and they believed that the only remedy he had taken was some Castor oil, given him by the Captain. He had to be carried into the house was in a semi comatoso condition and in a few minutes had a profuse epistaxis which lasted with intermissions for some hours. The symptoms were, subsultus tenuis, floccitation, tongue dry, with

sordes upon it and his teeth, pulse 108
abdomen tympanitic, some few rose spots,
Olivaceal gurgling and tenderness, paralysis
of the bladder, but as yet no diarrhoea,
the patient was also delirious and from
these symptoms the case was diagnosed
Typhoid fever, and a mixture of Feabirth
and Burn Acacia was ordered as also
Brandy 38 with beef tea every hour.
It was so arranged that he got either
beef tea or brandy every half hour.

April 29th Patient passed a sleepless
night and was delirious, as he indeed
is this morning. His pulse may be slightly
improved in volume. He had one thin
whimsical discharge from his bowels this
morning, which will be treated if it again

recurs. Same treatment was continued with the addition of Fr. Cinchonae ℥ss every 4th hour, with the brandy beat up with an egg. Evening No improvement, at least decided. He has been sweating profusely, respiration is very hurried, pulse 120 and very feeble.

April 30th There is no improvement in his condition, he is still delirious. Passed a restless night with great trouble on the part of the attendants to keep him covered. The diarrhoea returned during the night he having had three passages, but it was stopped by the use of Tannic acid & opium. He is very weak and prostrated and evidently becoming more so. Evening Not so well, in fact getting worse fast.

His pulse was 120, he was more comatose,
and there was great difficulty to arouse
him, to make him take his medicines, also
trouble in deglutition. The tr. Co. which was
was given every two instead of ever
four hours.

May 1st 10 A.M. R. A.D. about 5^o P.M.
The patient fainted very much, his pulse
about 140 and respiration 45 per min.
Intestines very cold, and deglutition ex-
tremely difficult. A large blister was
applied to the abdomen, and brandy
was given ad libitum, under which he
improved very much.

May 2^d 10 o'clock, A.M., still this
morning, more comatose, pulse 120 tofe-
tus greatly improved, so that now he

swallow without much difficulty.

He breathes more easily and is more calm.

Evening About the same as in the morning, but has answered questions quite intelligently with a distinct voice. He slept soundly last night, and did not cough or feel uncomfortable at all. His urine has still to be drawn three or four times during the day.

Morning A little more comfortable.

Has improved in volume, is quite vocal and answers questions very intelligently. Not so much subsultus tenditum as before and deglutition almost entirely recovered.

May 3rd Rested well during the night and even to be better this morning. His tongue is more moist. pulse 108, weaker

... movement well and swallow without
any difficulty. - No indication for its use this aft, Keelith
is dead.

May 2nd Rested well during the night and
feverish all day, temperature 102. Tongue clearing and he passed urine
well with the assistance of the catheter.
W. restless toward evening.

May 3rd Rested well during the night and
feverish all day, temperature 102. Pulse 100
even fell to 92 in the evening. Sa-
tiated with emetics.

May 6th Rested well during the night and
still feverish. Temperature 102. Pulse 100
and falling to 92 in the evening.
May 10th Tongue blisters at the tips and

11th, pulse 90 and general condition better.
Aug. 12th Patient is up now
is eating up nicely and is moist. Skin
is smooth and patient is
more comfortable.

Today, the Bark and Brandy were
ordered every four hours.

Aug. 11th Still continues to improve, has
a good appetite, ate some broiled beef
and toast with apparent relief. An enema
was ordered to move his bowels which have
not been open for seven days, which acting
gave great relief. Was able to sit up
a while today.

Aug. 12th Patient sat up today for some
time, is eating nourishing diet and gaining
strength daily. Is taking bark and
one Fr Conchoxae Co, as a tonic given twice.

11th Continues to improve rapidly
and is very good, and he is gaining
strength very fast.

11th 15th Patient is doing so well, that
he is taken a drive to day for the first
time. He infact is recovering so fast that
he does not require medical aid now at
all.

He continued to improve rapidly up
to the 17th when he was taken away
by some of his family. It has just been
14 days since the attack.

Case I
John Hudson, Sailor, born May 1st
1812. Admitted April 20th.

The left leg of the patient, was very much
swollen and inflamed, from the foot
up to the upper third of the thigh.
The ulcerament has a red or purplish
hue which is deeper in some places
than in others. is very tense and upon
pressure does not disappear as the blush
of simple erysipelas does. There is also
a slight blush on the gluteal regions.
No fluctuation could be discovered after
the most careful examination. He states
that when the attack first came on
he did not have any decided chill, but
sometimes felt chilly and had a flush of heat.

it pained him very much. The pain was

reduced by the use of the E.

the following treatment ordered. The whole
body was enveloped in a large flaxseed poultice
and internally W. Geni Chlo gtt xx, and
Linimentum Co Zg ter die.

April 21st. Prof. Chastenau took some of
the case history. The patient is a man of
medium size rather pale but not thin or
wasted, pulse was 88 full regular. No
hemorrhage does not appear to have extended
up and if any longer, the color not so
intensely red as yesterday. Slight fluctuation
was thought to be present but the form
of furuncle not so swollen as to suggest

in - , the same treatment was continued,
the wash with Fr Iodine was omitted
in this case, so that the result might
be compared with others done in the house,
but it with St. As; and no convulsions
occurred, and a Sulphite Powder was
ordered to open them.

After 12th The general state of the patient
seems to be improving, but the encephalitis
still seems rather to be extending. His pulse
is 82. He can now sit up without
aid, and is taking more & more. He
can have some appetite, & has had
wine. The poultices are still continued to the
leg and the gluteal region, and with
desirables of St. As, the Lect. physician
was induced to solicit a passage from

bowels, and the catheter was to be introduced if necessary. Micturition, if any, so slight that no enema was made,

April 28th The condition of the patient much the same as yesterday but the operation on the Gluteal region is still on the mind, the Glyceral of starch is being applied and the patient expenses it a very costly and pleasant application. He has passed one or two small amounts today. Same treatment was continued.

April 29th The patient's condition is evidently improving being much better today. So it has been since his admission. His stool is now very well formed & there is no longer any difficulty from constipation. There has not as yet

in any decided fluctuation, so the
assumption is that the inflammation will
subside by resolution. There is now or has
been illness about the patient at times for
which I think the Dr. do the same
as before. Spts elludens 3w & a t fort gr
in of this every 4 hours, was also given.
After 5th the inflammation is entirely
subsiding and the natural color is again
returning to some portions of the limb. The
swelling and tenderness are disappearing
appetite returning. pulse 88 and his gen
eral appearance indicates a decided
improvement.

After 6th the swelling is still
so palpable so much better, that instead
of a diffused purplish red it is now

Dr. J. H. Goldfarb

discontinued and it was decided
1st May to stop the opiate. The
lax was also stopped, there being
no further evidence for its use.
June 21st Condition improved and
removed. Appetite good, pulse 66. Tongue
pink with thin, dry, yellowish
coating, being only a
slight vesicular erythema on the tip.
April 30th Setting all faint. The con-
tinuous inflammation has left him.
He is walking about the ward and will
in doubt receive a full treatment.
May 1st Patient is the same. He
will be off the bed in a day or two.
He is complaining of an eruption on his hands.

body which resembles leather. For
this he was ordered Petroleum oil as
an external application. This ~~was~~
done. Patient is no longer bent up
as before but the skin is very
heated with the Petroleum oil, and I may
as well state the peculiar effect which
it had upon the patient the next day
after its application, the skin was for
the raw and just as red as a piece
of meat. The pain was intense and the
patient really in a great deal of suf-
fering from its application. Of course
it was immediately stopped and
no more lotions or Almond emulsion
were applied. I presume that
the unusual action of the oil was

owing to the unusually intricate
structure of the skin, often so severe
as attack of impetigo.

AN
Inaugural Dissertation
ON
Frigidus - cold
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. W. Lancaster
of

Maryland

Session Fifty-eighth 1865-66

Frigid-Cold.

Medical History. Cold has been mentioned as a most valuable remedial agent, by our earliest authors, and its use as such, has, age after age, been alternately lauded in the highest terms, and as severely condemned. Both physicians and quacks used cold very extensively as a therapeutic agent, and its injudicious use by the latter, gave rise, I think, in a great measure, to its frequent loss of popularity. In the brief history which I have endeavored to sketch below, it will be seen that although its value as a remedial agent diminished very frequently, and remained so for such long intervals, it finally became

very popular, and was freely made use of. The refreshing influence of cold drinks, is spoken of by Solomon (Prov. xxv. 13). and its use among the Egyptians in their religious rites, is spoken, in the books of Moses; showing that it was a very early and established custom. It was also used extensively by the Greeks, and the various diseases for which it was employed and modes of administration were carefully described by many of their authors: and indeed Hippocrates seems to have had nearly as great knowledge of its effects for good when used judiciously, and for evil when used without sufficient thought and care, as some of the ablest therapists of

the present age; for he advised the employment of cold in actual or threatened hemorrhage, and considered the cold effusion a most admirably remedy, in gouty and rheumatic inflammations of the joints, as it subsides the inflammation and blunts the pain. He also dwelt upon the importance of cold drinks in fevers and directed how they are to be prepared. Paul of Aegina, and subsequently Rhazes condemned the use of cold drinks in large quantities after meals. Celsus who was an advocate of the medical employment of cold, mentioned in his writings a certain Petros, who covered his fever patients with very

many clothes, to excite heat and thirst,
and gave cold water to drink until
it produced sweat; a process very
similar to our present mode of packing
~~Silurus~~ (page 151). This shows how very care-
ful the younger men in the profes-
sion should be in discarding the opin-
ions of their preceptors, and in adopt-
ing new ones, for the former are
generally those of many, having
had considerable experience, while
the latter have to be confirmed by
trial; for the precepts of Hippo-
nates, the father of medicine, and
of Petrus, Celsus and other ancient uni-
versities, which we value very highly,
were almost entirely disregarded.

from the seventeenth to the eighteenth century, during which period the poor patients suffering intensely from thirst and fever, were confined in warm rooms, and were not allowed one breath of cold air, and as for cold water, they were not permitted to think of such a thing, but were compelled to endure their sufferings for the want of it, until what patience they could, while warm draughts were freely administered to them.

Cold was very much used by the Arabians in fevers, constipation and other disorders of the bowels, and cold effusions, was a favorite

remedy among oriental physicians,
and travellers report that it is still
employed by them. (Steller 25 Page 182.)

At the beginning of the eighteenth
century cold bathing was introduced
into England as a remedy by Floyer and
Barand, who were well acquainted
with the deaphrodisiac power of cold
water. (Steller 25 Page 183.) In 1738 S. Hahn and
in 1745 J. S. Hahn, father and son,
wrote on the powers and properties
of cold water, which caused quite a
revival of that treatment throughout
Germany. Steller mentions
one case in particular, which shows
the beneficial results of Hahn's treat-
ment. It was that of a lady

affected in almost all of her joints with
gout, which had resisted every mode
of treatment; but was at last treated
in the following manner. Cold affu-
sions and lotions to the bear head
and body; wrapping in sheets soaked
in cold water, ~~and~~ which were kept
constantly wet for the space of two
nights and two days. She elevated
and recovered. About the eighteenth
century the remedial employment
of cold water in the cure of fever
was again brought into notice by
R. Jackson & Currie. They had both
made use of it before. Jackson was
led to value it very highly, from
learning that a number of pa-

lunts on board a hospital ship
delirious from fever had thrown
themselves into the sea, and
that all who were saved were ^{dry} to
their enemies. Currie was lead
to its use by the perusal of a paper
published in 1786 by Dr Wright,
stating that he had successfully
employed cold affusions of cold
sea water while he was ill with
fever on ship board, some years
before. The greatest and about the
last advocate of the employment
of cold water as a remedial agent,
was Count Prusdantz, the keeper of a
wretched roadside inn at Grae-
fenberg, in Austrian Silesia. ^{2nd July 1816.}

He was a very shrewd and energetic man, and knowing that the people of his time like many of the present age, were very fond of humbuggery, quacking &c, made good use of his powers in that line, and established for a long time his own reputation, and that of the medicine.

Surgical History. Cold water was very little employed by the ancients as an external agent in surgery of fection; but they had some knowledge of its value, for Celsius used it in hemorrhage, and employed a sponge squeezed out of cold water as a dressing to slight wounds.

During the fourteenth century how-
ever it was used considerably. It
was employed very extensively dur-
ing the sixteenth century subsequent
to the war of Francis I with Italy
for injuries and wounds. Marle
in 1601 speaks of its use in the follow-
ing words. I consider that keep-
ing wounds clean, is one of the
chief means of promoting their cure.
now it is certain that water clean-
es and purifies them thoroughly.
It had a great reputation during
the time of Percy and Lombard,
who made use of it so successfully
that they caused the practice of it
to be nearly everywhere accepted.

Their advantages were pre-eminent in
the treatment of lacerated wounds
involving fibrous structures (Stillord¹⁷).
This is also spoken of very highly by
Larrey, who says that cold sea -
water was used very successfully
to dress wounds during the march
of the French across the desert,
lying between Syria and Egypt.
It was also used very extensively
after the battle of Baylon, in Spain,
and out of five-hundred pa-
tients treated thus, not more
than seven or eight were attacked
with gangrene, and only two
with tetanus (Stillord II Page 167). In
1834 Josse Amico, employed, with

great success, continuous irrigation
in various inflammatory affections,
and injuries. Malgane, Molatow,
and many other distinguished
surgeons used cold water externally,
chiefly in continued lacerated wounds
of the head and extremities. I have
also seen it used very successfully, du-
ring the summer of 1855 in the Balt-
Infermary, by our distinguished
Professor C. Johnston.

Action. The primary action of cold
on the human body, when it is at
the medium temperature of 98° , is
to lower the pulse, give a sensation
of cold or tingling to the extremities,
and to impart a general glow to

the whole body; which is followed by a feeling of drowsiness, giving rise to the most refreshing slumbers. During health the temperature of the human body is equal, but kept so by the food and mutual interchange of calorics with surrounding bodies; but when these surrounding bodies especially the cold air during Winter, abstract so much heat from the body as to become uncomfortable, we are obliged to resort to warm clothing, as furs, feathers, silk, wool, and even any kind of clothing that is a poor conductor of heat, or that will hold the air in its meshes, and

thus prevent the radiation of heat from the body. Draughts of cold air act very powerfully to chill the body, and affect chiefly the skin and mucous membrane and respiratory organs. The temperature of the animal body is lowered chiefly by the aqueous vapor which is exhaled from the lungs and skin, and therefore in summer warm and moist air, which prevents this aqueous vapor passing off freely, greatly increases the suffering from heat, while cold damp air, lowers the temperature so much as to make it unpleasantly cold. Dry air should not

be inspired directly after having
breathed that which is filled
with moisture, for the former
abstracts heat from the lungs,
by absorbing the aqueous, ^{so much} more rapidly than the latter, and
especially when cold irritates the
relaxed mucous membrane, checks
its secretion and causes it to in-
flamm. If however the body is
subjected to a more internal de-
gree of cold, the extremities first
become numb, then they have a
dull aching pain and finally
become perfectly insensible.
It is wonderful, how long men
and animals can sometimes re-

man in this state, without it proving fatal. There is a case related by Samuel Cooper, of a French peasant named Bouillet, who was lost in a snow storm on the Black Mountains, between France and Spain, where he remained for four days in a state of lethargy, but awoke on the morning of the fifth ^(Surgery Page 35). She should have been buried in the snow for eighty two days, without food and recovered. (Metcalf or Calvert ^{Page 150}). Generally however such long subjection to cold, if not at the time fatal, gives rise to low fevers followed soon by

death. Yet from the many cases of complete recovery which have been recorded, we should be unanimous to make every effort to save all cases, even the most ~~extreme~~^{dangerous} ones. They should be kept in an apartment, the air of which is of an uniform temperature, somewhat below the freezing point, and and gradually heated. The part chilled is not the only one which is affected, for it seems to have a sympathetic bearing on the corresponding parts. This is not caused by the blood flowing from the affected part and thus cooling that in the

one which has not received the cold
ing application; for it does not
have any influence on the rest of the
body. The internal mucous surfa-
ces may perhaps be affected in
the same way, as cold acts very
frequently, in arresting humor-
soph from these surfaces. The
blood and nervous force dimin-
ished in the skin, and mucous
membrane, must be concen-
trated in the great trunks and
pancrema of the organs. Cold
applied to the interior of the stomach
for example, has the same effect,
showing also the sympathy between
the outer an inner surfaces, by

causing the skin to become color pale
and shrunken, when the impression
upon the stomach is strong and
the tendency to reaction is surround-
ed. (Wood's Materia Medica vol 21 page 16).

Cold water will extract much more
calories from the human body
than hard cold air, for according
to Metcalf (on Caloric vol 2 page 178)
The human body is more chilled
in five minutes when immersed
in water at 32° , than when sur-
rounded with a dry and still
atmosphere at 40° or 50° below 0° ;
for as many hours. Cold water
when taken internally in large
quantities, especially when the

system is very much heated, will frequently cause the most violent cramps, a feeling of constriction about the scrofulous cordis, and sometimes the agony is intense, even to producing delirium. The face grows very red, and the eyes glaze. The pulse becomes very hard, and then the patient gradually becomes lethargic and comatose, breathes hard, grows pale and clammy to the touch, while a profuse perspiration breaks out all over him. If he recovers from these symptoms there is great danger of congestion of the brain. The effects of severe cold were beautifully

described by Capt. Parry, when speak-
ing of the condition of some of the
crew on their return to the ship after
long exposure to cold, during his
expedition to the North pole. He
said, "When I sent forth them into my
cabin, they looked wild, spoke thick
and indistinctly, and it was im-
possible to draw from them a
rational answer to any of our
questions. After being on board
for a short time, the mental
faculties appeared gradually
to return with the returning cir-
culation, and it was not till then
that a looker on could easily per-
suade himself that they had

not been drinking too freely" and
moreover he said "I have more
than once seen our men in a
state so exactly resembling that of
the most stupid intoxication,
that I should certainly have charged
them with that offence, had I not
known that no possible means
were offered them in Melville Is-
land, to procure anything stron-
ger than snow water". Very in-
tense cold produces, as I have
mentioned before a torpor of
the nervous system and an
insensate desire to sleep, which
if indulged in is speedily followed
by death. This stupor should

be combated with all the resolu-
tion of man, while he should
exercise continually both body
and mind. If my intended cold
is continued until the tempe-
rature of the blood falls more
than 5° or 6° below its natural
standard, death speedily
follows. (Gillen-Pages 354). The sudden
application of cold, when the
body is highly excited, is not es-
sentially likely to produce disease,
provided the application be
general, is proved by the effects
of the Russian vapor baths, for
the bathers after having been sub-
jected to a temperature of from

133° to 144° of Fahrenheit, and tho
Fennish baths 158°-167° Fahrenheit,
receive a powerful effusion of cold
water upon their naked bodies,
from a shower bath, which is said
to be remarkably grateful. A sud-
den change of temperature from
cold to heat however cannot be
made so safely, for the body
or limb being in a state of sus-
pended animation. Heat if
applied, will excite the action
of the vessels continuous with
the obstructed capillaries, inflam-
mation results at the living
extremities, and congelation be-
comes converted into irrecoverable

mortification. (Dungleson on Human
Health Page 47). Age has a great influ-
ence on the action of cold, for it af-
fects much more readily the in-
fant of a few months and those
who have reached their three score
years, than any age between said
numbers. This is shown by the
number of deaths which occur
among the aged and very young
uninjured swine United. Cold
more air abstracts vital heat
from the body, thus impeding
the circulation, unless the pa-
tient is taking considerable ex-
ercise or makes use of stimulants.
It is in this way that getting the

the feet wet, having to remain
in wet clothes, and travelling du-
ring damp nights, prove so
dangerous. Cold baths are very
invigorating for when taken
in moderation, ^{the} augment the
process of ^{on which regulation} respiration, depends,
as proved by the pleasant glow
of warmth that pervades the
system shortly after leaving
the bath. The consequence of
which is that a given amount of
caloric passes through the body
in a given time, and all the
functions of life are proportionally
invigorated; for the same reason
they are more active during winter

than Summer and more so
in temperate than in hot climates.
Remedial Operation. From
what I have stated with regard
to the properties of cold, it may
readily be seen that its action
differs greatly according to the
mode of its application, and
is influenced very much by other
circumstances. Being a Stim-
ulant, tonic, refrigerant, sed-
ative, and astringent. Cold is
a stimulant, when applied for a very
short period, on account of the
reaction which takes place in the
body directly after. It is asso-
ciated by acting mechanically to

cause a contraction of the capillary
laries, (Still's vol 2 page 170), thus empty-
ing the inflamed part of its fluid
contents. Its sedative power is
owing to the continued force with
which it acts over the whole body lessens-
ing the heat and pain by dimin-
ishing the pressure of the blood
in the inflamed part, and in
the same way subduing the ner-
vous excitability. It acts as a
tonic by lowering the tempera-
ture, diminishing the excre-
ment of the body, thus giving
firmness to the tissue and strength
to its functional organs. It
cannot be used however as a

tonic when the system is very weak
and debilitated, for there will
not be a sufficient reaction
after its use.

Remedial Employment. Con-
tinued Fever. Cold baths or affusions
have been used very successfully in
the first stages of continued fever,
which, practiced according to Amer-
ican Besputus, was in vogue a-
mong the aborigines of this country,
for when attacked with fever
they would bathe in the coldest
water they could procure, and
immediately running as far as
possible, they would use violent
exposure before a hot ^{fire}, then going to

sleep they would awake without
fever. Stillwood Page 175.

In Syphilitic Fever, especially
during delirium, or great heat of
the head, a cold application, as a
bladder filled with powdered ice,
is exceedingly pleasant, and ^medic-
inal. Cold lotion applied to the rest
of the body do not act so well, and
are often positively injurious. Cold
affusions however are useful in
the early stages of Syphilis fever
and are frequently combined with
cold to the head. Cold applied
to the head, and ice allowed gradually
to melt in the mouth are
indispensable remedies through-

out the disease. Eruptive Fevers
Cold water, has been used, fre-
quently in the treatment of these
fevs, and has been highly recom-
mended by many eminent Physe-
cans, but is not used by the major-
ity of the leading men of the pro-
fession. Cool air and cold dress.
however are very necessary in all
eruptive fevs, when there is no pul-
monary disorder connected with
them. In Scarletina, cold air,
spurging, and the douche, cold
applications to the head and even
to the neck opposite the affected
toreil is considered by many of
our most able authors, the best

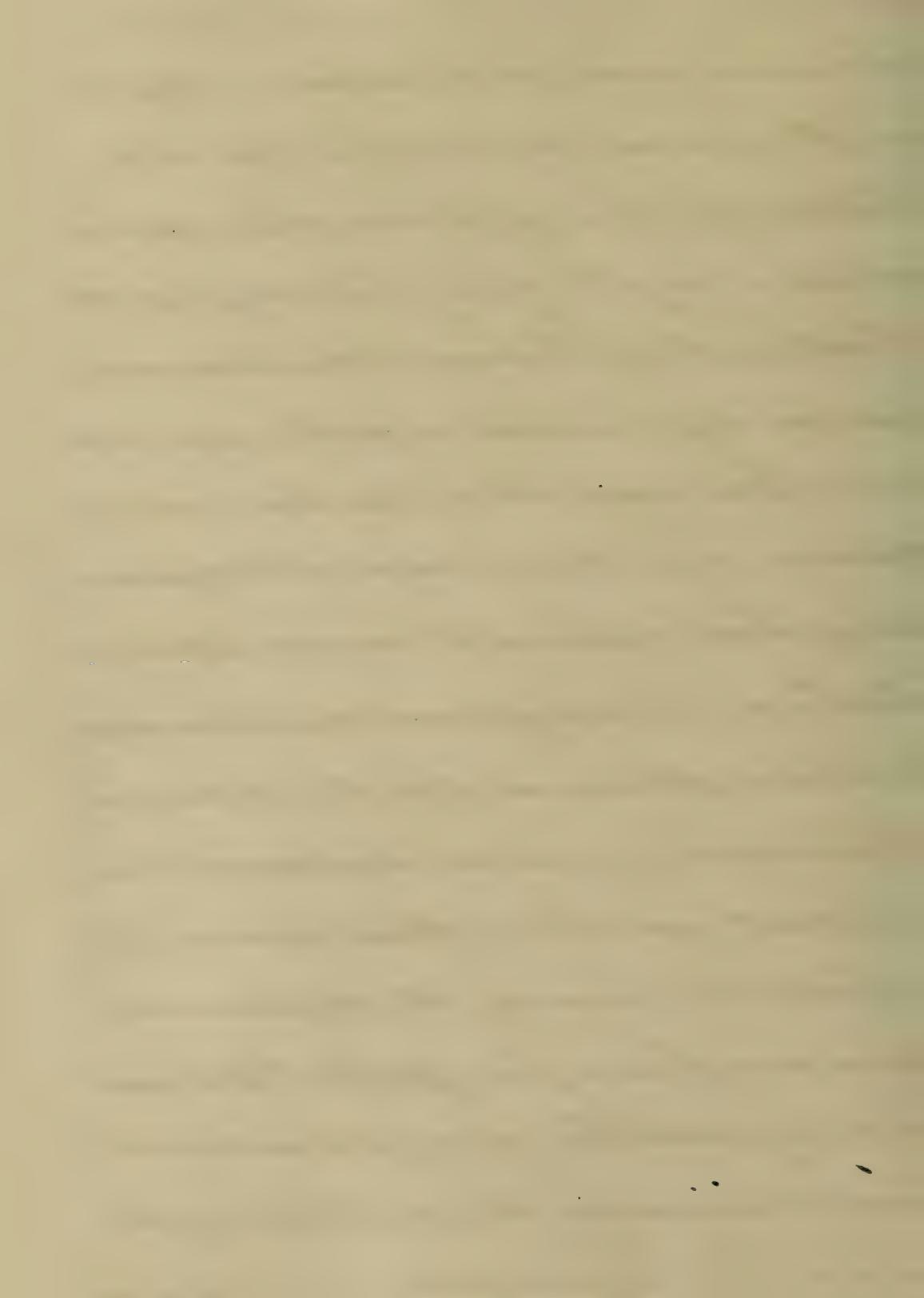
mode we have of treating that disease. Cold affusions in In-temperent fever have also been used successfully, to moderate the paroxysms of fever, and according to Stilli is more important in the treatment of the algic form of malignant pernicious fever, and in that case must be applied during the cold stage." He adds moreover, "that of all the remedies, which can be resorted to for securing reaction in this dangerous malady, none are so efficient as cold affusion. When the hot stage is in its height, cold water may be given.

abundantly, being both exceedingly agreeable and beneficial to the patient.

Congestion & Inflammation. In gouty inflammation ice may be given with the very best effects. The patient, being allowed to suck as much of it as he desires. It will also often stop the vomiting in this disease. In all headaches accompanying fever, and those produced by the combined action of heat and excitement, cold applications are very pleasant and effectual remedies. The application must be uninterrupted, or it will be injurious instead of acting

as desired. Cold drinks and cold
enemata are of the greatest service
in extreme inflammation of the
stomach or bowels (Stille). In
inflammation of the brain, poultice
ice, or ice water, should always
be resorted to. There are two indi-
cations, for its employment,
the one a state of delirium; the
other of oppression caused by effusion
on the brain. In the latter case
the water must be of a low tem-
perature, (about 36° F.) and allow
to fall from a height of two or more
feet, being renewed every three or
four hours. Still's 2nd Day 1833. The
inflammation arising from, burns,

bruises, wounds & eczemas may be
influenced very much for the
better by the application of cold,
according to the feelings of the
patient. It may also be employ-
ed in inflammation of the conjunc-
tiva. Ice water has also been used
as an injection in acute dysen-
teries, but owing to our inability
to keep it applied continually
to the inflamed part, it cannot
be recommended as a useful re-
medial agent in that disease. It
is however one of the best reme-
dies we have for piles. Cold water
is a very soothing application to
sores caused by the friction of the



clothes in walking, and to the
bite of insects; and allays the ir-
ritation of nettles and the poun-
dak.

Rheumatic Gout. For this dis-
ease, when used locally it acts
better to allay the inflammation
and soothe the pain, than any
other remedy we possess. It has
been used successfully in orchitis
meningitis and peritonitis.

Puerperal Peritonitis. To allay
the violent thirst, and quiet
the distressing nausea, in
puerperal peritonitis, ice may be
allowed to melt in the mouth,
and bladder filled with poun-

dead ice may be applied to the stomach. In purpural convulsions with evident signs of cerebral congestion, ice to the head and nape of the neck, and the cold douche upon the head, should not be neglected." The latter, he adds "constitutes one of the most powerful means of assuaging and ultimately arresting this dangerous accident of the purpural state." (Slater's Page 189).

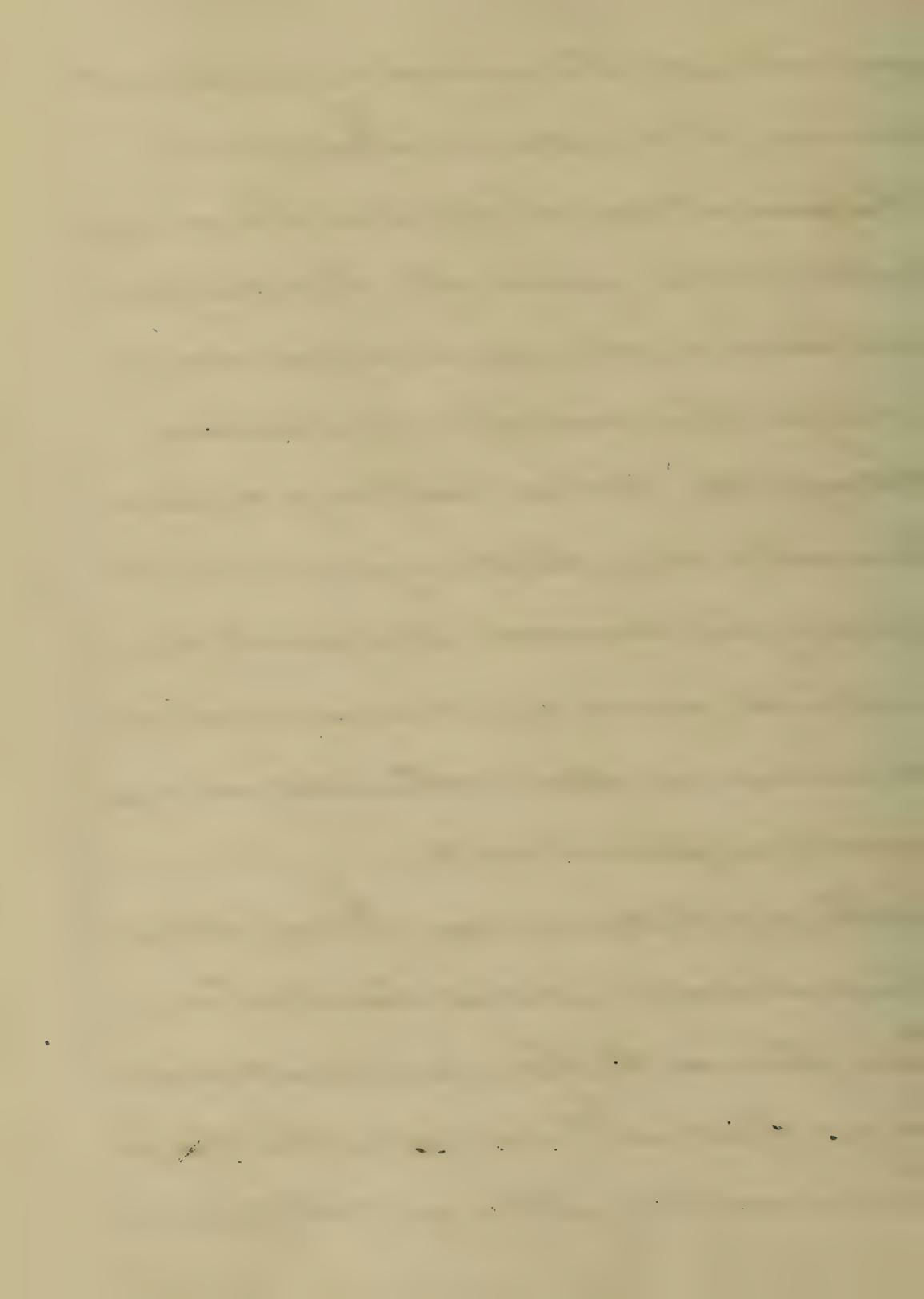
Hemorrhage. Cold is an efficient remedy in haemoptysis and haematemesis. It can be administered in the form of weak lemonade, mixed with powdered

sipped continually, while bags containing ice should be moved slowly over the chest in haemoptysis, and applied to the pit of the stomach in haematemesis. (Stillard Aug 1851). Cold is very effual in arresting hemorrhage after parturition. Cold compresses should be applied to the vulva, upper part of the thighs, hypogastric region, and cold water or ice introduced into the vagina or rectum. When from uterine irritation the placenta fails to be discharged cold water may be thrown into the umbilical arteries, injected into the uterus, or even a lump of ice about the size of a pigeon's

egg should be introduced into the uterus, (Stiller's Day 115) In menorrhagia it can be applied beneficially to the vulva, while the hip bath and cold douche should be used daily between the menstrual periods.

Scarfula. Cold bathing especially sea-bathing is a most powerful remedial agent in scarfula, and combined with good exercise and diet, should always receive a fair trial.

Chlorosis & Anæmia. In both of these diseases, cold baths have been found to have a most salutary effect. It invigorates the system increasing the appetite, and



and strongly, and gives renewed energy to the excretory organs.

Chorea. For many years cold water and the shower bath have been used in chorea with very marked benefit.

Frequently cold affusions to the head assist very much. It should not be used for weak and excited children, for it often alarms them, nor is it advisable to employ it during the winter.

Hysteria, Cold baths combined with pleasant exercise, tonics and nutritious food, in fact often entirely cure this disease by strengthening the nerves, and giving tone to the whole system.

It is also the most efficacious remedy for myxomatoma: a disease closely allied to hystericism.

Insanity. The cold douche has been found to exert the most decidedly beneficial influence over the paroxysms of furious delirium, or insanity. M. Brunne de Boermont employed it very successfully in the following manner. The patient were placed in covered baths at from 82° to 86° F. for eight or fifteen hours, while a current of cool air was made to flow continually over his head. The temperature of the affusion was from 40° to 60° at first, but at its conclusion 54° to 58° F. (Still, vol II, pag. 187).

In poisoning by narcotics, cold affusion is the most important remedy which we possess. The affusion should be applied very frequently to the head, but not so often to the rest of the body, lest it should lower the temperature too much.

Tetanus. Cold affusions have been highly recommended in the acute form of this disease, and Dr. B. J. Carpenter states that he cured fifteen out of sixteen cases of tetanus, by means of ice contained in bladders and kept steadily applied to the spine. Still Vol. 2^o page 152
Constipation. Cold has been used

constantly as a remedy in this disease
from the earliest recorded period of
the science. Hippocrates speaks of
having cured a stout healthy woman
who had taken some emmenagogue
medicine, was seized with a violent
pain in the abdomen, which grew
much distended: she vomited
blood, became to all appearances
lifeless. About thirty vessels of water
were dashed over her, which pro-
duced free alvine evacuations,
and the patient recovered. (Still.)
An instance is reported by Baudy in
Still's "Med. 190" where a patient who
had suffered for twenty days from
obstinate constipation, and who

had taken repeatedly doses of purgative medicine without relief, and who also had a tumor as large as a mans head in the hypogastric region, was made to walk bare foot upon wet flagstones, while compressed wet with acid water were applied to the abdomen. Evacuation took place of liquid and solid faeces, and the tumor disappeared. Many other instances of constipation and of obstinate cases of constipation upon which other remedial agents had no effect, being cured by cold in its various forms of application, have been recorded. Constipation connected with along specimen in-

vitability or disorder of the stomach, may be cured by bathing, friction, stimulating compresses to the abdomen, cold enemata, copious draughts of cold water together with a simple diet of which milk and brown bread form a conspicuous part, when all the drugs of the Materia Medica would fail to effect a cure. (Stell's *stage 111*). Habitual vomiting after eating, with constipation and progressive emaciation, have been cured by the hydrocephalic method, after the failure of the best devised medical treatment. (Stell.).

Ostilitis. Until a comparatively

date, Phthisical patients were
nearly always sent to warm cli-
mates, as it was thought that they
and there only, they had the best
chance of recovery: but it is now
proved by actual experiment
that cold climates, such as Min-
nesota, Duluth and others, which
have a dry atmosphere, and
even temperature, are generally
far preferable.

Surgery.—Contusions, injuries and
bruises, cold water is the best applica-
tion of which we can make use. The
first application should be imme-
diately, but afterwards cold water,
followed by friction to the skin

and other wet compresses should be applied to the frayed part. Hot compresses should also be applied to the joints after the reduction of dislocation, to prevent redness, effusion and consequent stiffness. I like to apply cold affusions soon after a blow or an injury, especially in sprains, and often injuries near joints to prevent inflammation. The application of water dressings to wounds, has been almost universal, and I used almost daily in the Baltimore Infirmary, with the greatest success. I remember one case in particular, where it was employed and with the most marked

success. It was that of a forty-year-old
patient by Dr. John Webster of New-
ton, and I used a lot of calomel, some
acupressure, and dressed the
stump with compresses wet with
cold water. The needles were
removed in three days, and the
stump healed in fifteen days.
I do not pretend to say that this
success was owing to the cold
water dressing, for it does chiefly
to the skillful manner in which
the amputation was performed,
but I do think that the cold
water assisted very much. The
water should not be used too fre-
quently, nor after all inflamma-

himself off the part; for in such case it is often of value enough, and even the act of bleeding may be injuriously affected. Dr. P. C. Smith mentioned a case in his lecture, during the winter of 1863, in which the injurious effect of water upon animal tissue was very well demonstrated. The plantation of a gentleman in Mississippi was overflowed, and his cattle standing on the more elevated portions of land, where the water had not got their knees, were obliged to remain there on week after week, on the carabobs. All the flesh on that portion of their legs which was

in the water strangled off, and
the flesh of one, underwent al-
most instantaneous decom-
position when killed.

Local Inflammation. For local
carbuncles, ulcers and abscesses,
cold water is a most excellent rem-
edy; and according to Stetle, tuber-
ous may be most summarily ar-
rested, by holding the fore-finger
for several hours in ice-water.
Ulcer and thrombosis conditioned
sores which spread by gangrene
or in consequence of the decomposition
of the part. If affected, nothing
will cause so great a change for
the better in a short time as water

applied at temperatures of ice
to the sensibility & touch-sensitivity of
the palm and of the part of
feet.

Strangulated Hernia. Cold
water, or ice, by absorption,
extract heat from the body and
thus produce cold, and when
applied to hernial lumens as well
as much in their reduction.
There are two forms of strangulated
hernia, each requiring a differ-
ent degree of cold. One strangu-
lated by distension, is relieved by
the trituration of a low degree of cold;
while the other, which is produced
by inflammation, should be treated

with a dressing of more moderate temperature, continued for a longer time, as the leucorrhoea becomes less mobile and therefore does not contract so readily. There are cases however, in which although inflammatory symptoms have subsided, the frequent and prolonged application of ice gives great relief. ^{Stillwater 1890}
Anoxylosis. Stiffening of the joints following inflammation, caused either by some external injury or constitutional derangement, may be treated by cold affusions more successfully than by any other means. The part should be well rubbed after each application.

Cold air Anesthetic. This has been used as an anæsthetic agent by a great number of surgeons, and has been highly recommended by them in many minor and superficial operations. It has been used, in the form of ice, for some neuralgic pains; headache, and toothache. It has been used chiefly, though as a surgical anæsthetic. Dr Arnott, who advocated its employment most strongly, confined its application chiefly to superficial parts: but was of the opinion that the sensibility of the body could be destroyed to a depth sufficient for most operations, by

substituting in his frigorigeric mixture, in
the proportion of two ounces of com-
mon salt. Dr. Arnott claims for it
the advantage, of healing more rapidly
than under ordinary circumstances,
and that it tends to prevent cerebral
inflammation, while it restrains
hemorrhage, and disposes the humor
to heal by the first intention.

This frigorigeric mixture is described by
Wood (vol 2 page 3814) as being composed
of two parts of ice and one of breast salt.
For ordinary purposes four ounces
of ice or a piece about as large as an
orange, will be sufficient. It should
be thoroughly communicated by stir-
ring with a spoon, or pounding, rather

in a bag of coarse or coarse cloth; and
then placed on a sheet of paper and
mixed quickly and intimately with
the salt, by means of a paper folded
or by stretching the bag on a gull's pun-
cha needle. The mixture thus prepared
is to be introduced into a net gaunc
which is may be composed of skep-
pedide for the purpose from the mouth
of a jar; and as soon as the droppings
from the brain begin to appear it
is ready for use. Then, without closing
it is made to be applied like
part horizontally placed, and
if not large enough to cover the
the surface which is to be affected
well, the operator should pour the

misfortune will be an opportunity
otherwise so as to afford the whole com-
plex or the right use of what has
been communicated in the volume.
The summary of its advantages
is according to Wood, as nearly as
can be now claimed by itself,
namely, "Safety, absence of imminent
want of subsequent inflammation,
or suppuration, the healing by
first intention, and the non-oc-
currence of inflammation in the most
hurting parts."

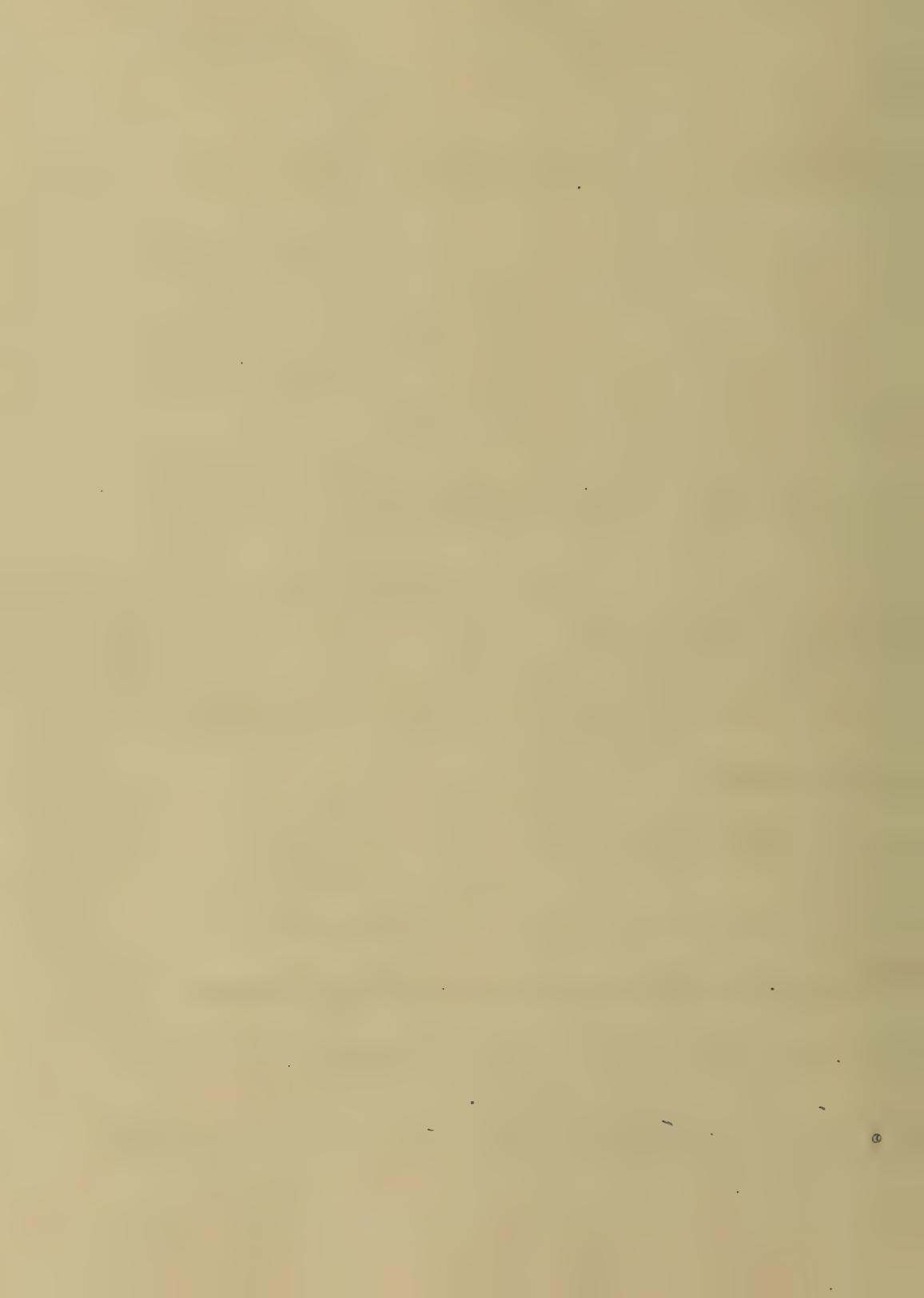
Contraindications. In the pre-
eisippage I have spoken of the
evil effects of drinking cold water
when the body is highly heated.

by any great fever or especially
fever. It is also dangerous and
pulmonary affection and in
the cold stage of fevers. In general do
not bathe the body of a patient along who
is common to all bathers before
cold water should not be used.

Bathing in cold spring water in
the summer, or in any water below
50° F. is attended with risk, es-
pecially to old persons and to
infants. In chronic disease, at
tended with wasting discharges,
or in which a sudden shock would
be dangerous, one must be trial
ed by cold bathing" (Bill). Wash-
ings should not be employed after

all signs of inflammation have left
the part.

Administration. Bathes are
considered as a medicinal agent in
many different ways; the most
important of which are Cold Baths,
Ablution, Shower Baths, Irrigation
the Douche, Colic, Epitaxis and
Packing in the rectum & recto-
Cold Baths are generally used of a
temperature varying from 33° to $62^{\circ} F.$
while between 60° and 70° is considered
cool. Natural baths may be used
of a much lower temperature than
those prepared at home. (Stille). The
skin should be moderately warm and
the mind cheerful. Henceways full



a bath taken after a moderate degree of exercise is more pleasant to the bather and the reaction more complete. It is in this way that he accounts for the baths which are taken at noon in the summer being more grateful.

Bathing in the morning is next preferred. The bather should immerse his whole body at once, and on leaving the bath should rub himself briskly with a towel, until a blushing glow is produced on the surface. The bip-bath which was frequently used in affection of the abdominal organs com-

at all of the temperature of 40° F. and
only employed for a few moments at a
time when we desire its tonic effect,
while its derivative influence is ob-
tained by a temperature of from
 50° to 55° .

Ablution. In ablution the
body should be washed well, by
means of a coarse loofah or any
substance causing friction, and
kept up from five to ten minutes.
The direct impression of the cold
fluid is prolonged by its evapora-
tion.

Showr Bath. The shower bath
is not so powerful as the douche,
but is very useful in a slight

stimulating effect is required.

Irrigation. is the laying of a constant stream of cold water over an affected part and the adjacent surface. It is kept up by a vessel with a small tube running from it, or by a flexible siphon, both of which should be regulated by a stopcock, so as to cause the stream to be very gradual and continuous.

The Douche. Cold water thus applied in the form of a douche, has a more powerful effect than that of any other form of application. It stimulates and fortifies the skin. It should not however be

inch in diameter, nor fall from
greater height than, from five to
fifteen feet. When first made,
the basin must be small and
the fall of a slight height. After
the balls, the body should be rubed
with a coarse towel, and a slight
aperient may be taken.

Affusions. When the patient
receives a cold affusion, his body
should be cleaned thoroughly
by means of soap and water, so
that the water may come more
immediately in contact with the
body, and then cold water is
poured upon the head, shoulders
and other parts of the body. It

must be applied suddenly, and
with force so as to give a slight
shock to the nervous system,
and to lower the temperature
of the body rapidly.

Packing in the Bed that is commen-
ced by Stillwell Page 202. This
is a useful and efficient the
process unployed. A large com-
forter is wrung out of cold water
and spread on a blanket pro-
miscly spread on the bed. Upon
this the patient is laid, and
enveloped by them. A feather bed
is then laid over all. To pack or fill
poreous it is at first uncomfortable,
cold, but soon becomes warm & pleasant.

The heat gradually becomes hot, the face flushed, general perspiration breaks out, which can be prolonged by small draughts of cold water. After complete action over the rapping may be removed and the patient washed with cold water or immersed in a cold bath. This method should be used in selected cases, but in those of an acute form the rapping should be re-applied repeat edly until the pulse is permanently lowered. The cold application consists of the local application of cold water by means of compresses, sponges, and so generally, made with a continuous application of cold being frequently required. The compresses should be kept wet continually.

AN
Inaugural Dissertation
ON
Injuries of the Head
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

Hugh J. Evans
of

Baltimore

Session

180 - 6

To
Professor Nathan S. Smith.
The
Sir Astley Cooper of America.
The distinguished zoologist.

Symposia of the Royal
Society of Antropologists.

Symposia
of the Royal
Society of Antropologists
and the lower orders of men, have
likely to advance my own ideas of
the subject. But this is not for a semi-practical
knowledge; but for a knowledge
of the exact science of
Antropology. I
will do my best
to get it done
as far as possible.

Conjugation is sometimes of one way.
Secondly, however, there are

1. Simple; Simple past is
not used; Simple, either verb alone or
Punctuated fraction; Compound tense

2. Double; Double past is

3. Threefold.

1. Simple past is used; simple past is

used in all cases, and the past is

the mode of past life, though
it is often omitted.

the eye. If

it is still painful.

the common Encephalitis is
most likely when it occurs in

the Brain.

and the diagnosis is made
within the cranium. Treatment: The
eye should be dressed clean and
dry with a soft cloth and
kept as short as possible and the
eye by means of adhesive strips and all
expenses and care to keep down inflammation.
Sutures should never be used. It is
best to remove them

as soon as possible and the eye
should be dressed clean and

dry.

Simple fractions without depression.

Complex fractions without depression.

Simple fractions without depression.

Complex fractions

Simple fractions without depression.

Complex fractions without depression.

Inches of Precipitation

see there C.

1. *Thlaspi arvense* L. - 1000 ft.
2. *Thlaspi glaucum* L. - 1000 ft.
3. *Thlaspi glaucum* L. - 1000 ft.
4. *Thlaspi glaucum* L. - 1000 ft.
5. *Thlaspi glaucum* L. - 1000 ft.
6. *Thlaspi glaucum* L. - 1000 ft.
7. *Thlaspi glaucum* L. - 1000 ft.
8. *Thlaspi glaucum* L. - 1000 ft.
9. *Thlaspi glaucum* L. - 1000 ft.
10. *Thlaspi glaucum* L. - 1000 ft.
11. *Thlaspi glaucum* L. - 1000 ft.
12. *Thlaspi glaucum* L. - 1000 ft.
13. *Thlaspi glaucum* L. - 1000 ft.
14. *Thlaspi glaucum* L. - 1000 ft.
15. *Thlaspi glaucum* L. - 1000 ft.
16. *Thlaspi glaucum* L. - 1000 ft.
17. *Thlaspi glaucum* L. - 1000 ft.
18. *Thlaspi glaucum* L. - 1000 ft.
19. *Thlaspi glaucum* L. - 1000 ft.
20. *Thlaspi glaucum* L. - 1000 ft.

C

for your money.

G

and someone else in joining a sweet woman
and being the same has a sweet man

and others I think who are interested in the
and they are all good

R

the

marked symptoms, & it is well known
that some of the membranes are
so thin in the dura mater, that a

very small tear will often
allow the spinal fluid to escape,
so being always moist & etc. It is
remarkable fact, but one of which the
works of surgery furnish many cases, that
there is no such incurred, & no disease, than
is of force or compression and the cause
which a portion of the membranes be-

The following cases are
most remarkable, & the following of
them are the most remarkable.

solubility, but it would be best to make
a solution of standard weights can be made by
the degree of dilution. From this we
may have either positive or negative evidence
of a reaction. The next point
which depends upon the solu-

bility, - that is, of symptoms of con-
tact with the foreign substance, -
is not so clear because of the impossibility

of definitely measuring a con-
centration, and because we find it more
convenient to make a dilution before
we can detect the presence of
any particular substance. We can
then make a dilution of the foreign
substance, and the number of times
it is diluted, would give us
the concentration.

in which I should be enabled
to make a more effective
use of the available time, I
have of compression are manifest; originally
only is to release stress, and our actions
here must be governed by the urgency of the
symptoms. If the case does not appear
dangerous we may content ourselves with

the simple measures of traction and
rest still continue, we should at once con-
sider it whether the fibrosed portion is com-
mon of the main instrument used for the
traction, and if so, whether
a course should be best to be pursued
is difficult to decide. I will

disorder.

Pruritus of the rectum.

is found, usually caused by some pointed instrument, such as a sabre, bayonet, &c.

It is often accompanied by a slight discharge from the rectum, but no abscess or swelling of the rectal wall, but only slight tenderness.

The rectum, like the colon, has two layers of muscle, an outer longitudinal, and an inner circular, which are continuous with each other at the recto-sigmoid junction. The thickness of the internal, tensive necessarily varies. The sigmoid muscle is much thicker than the rectal, and the rectal muscle, when it is rendered, is very unfavorable, owing to the fact that, if some of the fibers of the internal muscle, are torn necessity, drawn upon, and so long as the rectal muscle

the moment it is discovered, it must be removed. Hence, the necessity for prompt removal. The mode of operation here is the same as will be described in the preceding condylar incision, free so as not to endanger the joint, and then the bone may be freed by means of the elevator and forceps. In which, it will be necessary to go upon no violent or sudden movements.

In closing the wound, the use of the adhesive part of the healing process, is the best known method, and in my opinion as effective as better than a pound of cure. An appropriate sized piece of tissue paper.

But, I would like to add, the Kneebone: These differ very little from simple fractures, excepting that there is a great deal more

Sur Alley Cooper, Principal author
of this well known monograph, by his
advice I will, and it will be done, to give
you, when inflammation is once formed,
the right to the physician to do what he
will operation; but this is not the case;
as it is now, when you will do, just how
you die, whether you speak him or not, and
you will suffer him according to its final pro-
gress by indicating that the physician
and the surgeon "do as they please."

"The right of the physician
its membranes has been excised by depression
the body, and then it may be well
extirpating the testis." — Dr. Cooper.

S. Jeng Fong fully concurs with Dr. Cooper
in his opinion concerning the removal of the testis.

I think you will see I will
not consider any other cause except that of the

loss of the brain; and when there are such an

amount of hemorrhage, the skull must be broken.

The small external wound be the great disse-
cating and deforming one will immediately
show? Fracture of the skull with depressed
bone, whether simple or compound, even if
it does not reach the brain, will be

the cause of death, unless it is so slight as to
allow the brain to escape.

Pressure or irritation of the brain?"
(Result) - & marking the point im-
pacted from its substance - position
which the head and hand found

When the first impression was made
in the bone.

It is evident that the brain was

native and central to the village.

1. The first point

that I think you will find most difficult to believe is that the
footing on the right is not the
fully original bedding although
the species of tree has been forced into
it by the weight.

It may be considered that the
kind of soil, as it is an alluvial
soil, is very thin and consequently has no
ability to bear a load such as

the tree has upon it. But the
soil is not thin, it is very thick.

I am sorry to say that I have
no proof of my assertion in regard to open
ings in the previous case considered.

The second point which needs very little
explanation is the

precautionary measures to guard against
inflammation, which would be most dan-
gerous in the present case.

First of all I have to consider
the condition of the spinal canal.
It is to be enquired whether it is enlarged or not.

Whether or not diagnosis can be carried
out by a spinal tap is of great importance.
I am anxious to do so, as it will be
most difficult to make out a diagnosis
upon the history - particularly after so long a time.
But if it contained perhaps blood, about
twelve cubic centimeters, and was also
slightly turbid the result would be
an important addition to the history.
If the internal table pressure is raised
within the canal, we will be compelled
to make a hasty spinal tap, as a man
is lost, like a flower, in a瞬息 (moment).

the sandstone is in contact
with the Hamerton Shale, some rock of the
group of diainite which I believe
was probably dolomitic, may be seen
just below the Hamerton. At the
sight of the name, you will say "I know
it well enough," but the Hamerton is
nothing like the Hamerton of England
to the time of the Romans. It is
composed of the Limestone & the
soft sandstone. This soft sand-
stone, with the Hamerton,
has been widely used for building
purposes, & it is easily broken
and has given a valley with its
under the divers waters or in the
silence of the basin itself. In
most cases it is composed of
brownish and greyish; often and occa-

the over - a point in
the progress of civilization -
and why may he not be allowed
to live the life which will be given
to every man and woman living or dead
and to all the stuff of the world to come.
The world is not yet dead, and it is not
likely to be, though it may be
quiet from the effects of
"Government Policy." When we get down to
the real root of the trouble, we find
nothing having fallen on that part of the
population in which the world's main
activity is centered. We need to go on
and to move on, and to do our

"work without an attempt to be made for his
punishment" Here again let me say that
in a humble opinion, the surgeon is here
to do his duty, and to do his best.

E. americanus J. C. Smith

I recollect it was various authors who have written
upon the subject, and I am inclined to think
that it is the author's right to do so, but I am
not classed, and I am forced to think it is
an invasion of my rights. I am
not writing this to you at present, but I
will do so latter, and give you the
log of the day, so you will understand
what I mean. I am not writing now
because I am ill, but I am not ill, but
another reason, is, I might distract
you from the valuable time you have
of reading, and you are likely to feel
annoyed at me for doing so.
I have a good
guage and I am: I have a good
well arranged and well known case
knowledge of the brain. The following
will, I hope, fully follow the inquiry, &

and the second is one of rest
or for a time suspended; the second is
one of reaction, in which there is, to a man-
y, but not to me, a desire to

return to the field, and the
third, a period of exhaustion of the body,
which is easily recognisable

by a rapid pulse, and consisting of
the last important of the series of con-
sequences, which result from concussion.

Suffice it for me to say that
the first stage in this stage, and in
a great many instances the greater
part of the time, is completely un-
conscious. Far, that it is impossible

to make them, even when best managed,
return to consciousness for the time.
It is important to tell

patient is in pain, and
with great difficulty
and voice, no respiration,
either, the patient is like one in
slum, does not seem to affect the
respirability, but the patient is not
long, going to the auto respiration
naturally goes, these symptoms are gen-
erally combined, hysterical are com-
bined, where the loss of consciousness is
impossible, and that it is almost impossible
to say as isolated, The consciousness is
faded, and a hysteric, the extremities, with
the respiration is impossible, and
shortened, however, very slight
in, the mind, however, the mind is
near, weak, and hysteric, and very often
intermittent and scarcely discernible in the extreme.
The cause is the same, with the hysterical.

authors about the appearance of the stupor.
I have the majority agree that there
is light a doubtful between
the Stomach and the stomachous
vulgarly called the "stomach".
In this case, the disease is
obviously, if you please, an intestinal
disease; it is frequently experienced;
it is necessary to be very
carefully avoided because it is induced
as easily produced by the smallest commissi-
on by some little pain or move-
ment. Of this stage the moment
and severe, the urinary organs are also
affected; the vesicular portion of the Blas-
ter becomes paralyzed, the sphincter can-
not fails back and, as a consequence, we
have retention of the Urine with继
and dilation of the vesicle, and con-
sequently, the bladder is

mentioning the name of the author, and also
referring to names of the odder accidents and
curious features in it. I have dropped those
and given you those of the sec-
ond class made liable for fatal.

Rightly or wrongly, I do not know,
the name of the author of any of
the above. He is not known, and his
name is lost. His mind seems to be com-
pletely, and irreversibly, dead. He will
be minded yet, however, it often remains
as such as of his past misdeeds, his
ungratefulness, his pride & other.

Presently he will fall into the hands of the
authorities. The patient now appears as if in
a kind of sleep from which however it is
possible to arouse him by speaking on a
loud, while in a slow & measured voice
and in a monotone and the same as in

81

when turned forward, like a shield, according to
the direction of the wind, so that the sun
is never exposed to it. The patient is
restored, which fact is shown by his recovery
of sensation to pain, if pinched or pricked
and also by occasional fits of restlessness,
the patient becoming, at times, very
excitable and liable to fits of rage.
In short, therefore, the disease
is the result of the patient's having
been unable to sleep and disturbed
both by the patient's own mind
, the patient's not being able to sleep
for a month, beats, in the morning, so as to injure
the patient's health, and the patient
cannot get up in the morning, and the patient
cannot go to bed again, and the patient
is forced to lie in the parlor.

the disease having got the hand, all the signals
and signs are lost, except those which
are given by the symptoms themselves.

I have often asked you whether it
is you. These, as you know, become subject
to cogitation, and are easily re-
called by me, when I am in your company.

The first signal of the disease
will be a slight increase of the pulse,
especially in the morning, after a night's sleep,
Reticular and telurium. The pulse is
then slow, but when not increased, it will
diminution of secretion. These symptoms
will easily be known, & therefore, it is
of great importance to observe them. This
is especially so, because a man may be
in the commencement of the disease, & yet
not perceive it. The disease comes at full
sudden & may however be greatly mitigated

In different cases - but of late the more
dangerous apparently; also we are not
sure of the exact cause of death.

The following are the principal
methods of treatment for the
diseases of men.

1. Medical treatment.

1. Drugs

and their effects are often
so uncertain, that it is difficult to
arrive, & then how, to a correct
estimate of their value.

The administration of stimulants; while on
the other hand, others advise us to use purely
physiologic means; such as sectional bleed-
ing and purgation. I am of the opinion
that the best method is to

apply the principles of

the art of Medicine.

the body, and the brain, the
latter, however, the brain will also
feel the effect of the medicine,
and hence it is ~~desirable~~ to
stimulate the vital forces as far back
as possible in their effects, so as to
stimulate the brain as little as possible.
The patient should begin to sweat once an
sufficient amount of covering, with the next
falling off easily. It should be
fairly warm, and restore the circula-
~~tion~~ ^{to the head}. If the
sweat has been a sufficient one
has restored, we may venture to em-
ploy Ammonia as a stimulant, as the
chloroform, however, is not
entirely removed, still great care must

may be uttered in the use of stimulants,
or fear of exciting inflammation.

P. D. W. & J. H. -

The most employ-

able method of cure is to make the stage of reaction. For this purpose the patient should be left alone without any disturbance. He should be removed to a dark room, away from his room or in bed and a pillow should be elevated - the head should be folded, so that the mouth may open freely; the hands should be placed close to the body, and it would be well to have the fingers bound together. This will induce a deep sleep.

After a quiet sleep, the patient may be gently aroused by the removal of the pillow.

Very often the first attack.

To the Committee:

Dear Sirs:

The Committee of the New England Anti-Slavery Society, in their annual meeting held at Boston, on the 1st of May, 1838, voted to present to the Convention of the State of Massachusetts, to be held at Worcester, on the 1st of June, a resolution, to be introduced by Mr. Wm. L. Chaplin, of Boston, "That we, the delegates from all over the State of Massachusetts, do hereby declare, that we are deeply sensible of the great importance of the Anti-Slavery cause, and that we are desirous to do every thing in our power to promote its success."

We trust you will concur in our judgment.

Sensible friends have been made by frequent meetings in our public rooms and in the churches,

for the abolition of slavery, which will continue to grow by degrees, until we shall have

1877

of a ~~few~~ ^{few} days ago, I have been
with Commissioner, when, at his desire, I sat, &
was allowed to talk.

First he said, "I thought this may be more com-
mon than you suppose, & when
one other would have been
so easily satisfied off," —
and it was from said, a member
of his board, that my trial will be
the subject of discussion.

He said, "that he had been
here to communicate some good news;
or rather, some news of his own
recommendation, & in the course
of his growing opinion of the
merit of your cause, or the
merit of your conduct."

Traumatic Inflammation.

The ^{old} ~~new~~ ^{old}
theory of disease, that a man

there made was experienced for four to five days after the day of the birth, so, he should have no trouble in action at those visiting performances.

Accompanied by his brother, the patient accompanied the son from his bed, and did not return until in October, 1855, when he had a fit of pulse; vertigo, nausea, and some

giddiness. There is no history of any attack of "the ague," or of any "rigors" more or less severe followed by a change of temperature. He had

the earliest known symptom of the disease, the pulse constricted, the tongue turned white, the mouth dry, and the skin, though not hot, perspirable, frequent watching and loss of power over the eyes, which, it is said, if there had been a physician under the roof, would have

at the time, nothing certain can be said, but
as, if further researches are not laborious,
nothing will be lost. Treatment
Nothing new can be advanced here in
regard to what I have said before
you will notice, nevertheless, that it is
not difficult to obtain the benefit of
the moderate use of purgatives; cold in-
fusions, &c., will do the same effect
and are to be desired.

I shall now attempt to make a sketch
of the principles of diagnosis & treatment
so far as my experience has enabled me
to acquire, & as far as I have been able
to find some accurate knowledge upon
mine. I will not attempt to give a
longer than a brief outline of the subject.

First. After the other symptoms,

In this patient, notwithstanding the presence
of hemiplegia, first there were
no signs of increased intracranial pressure,
has rendered all other means of allevia-
tion, except those of a surgical character, ineffectual.
The diagnosis of cerebral hemorrhage was
made at once. It then became evident that he
could not be waited for long. When op-
erated upon there was a large clot
between the cranium and dura mater.

After the removal of the clot,
the subject had no injury, no mark
for his disease, was soon entirely recovered
by operation. And I think the cause of
present view are the very few that
injury the spine.

AN

Inaugural Dissertation

ON

Digestion

SUBMITTED TO THE EXAMINATION

of the

Provost, Regents and Faculty
of

PHYSIC,

of the

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

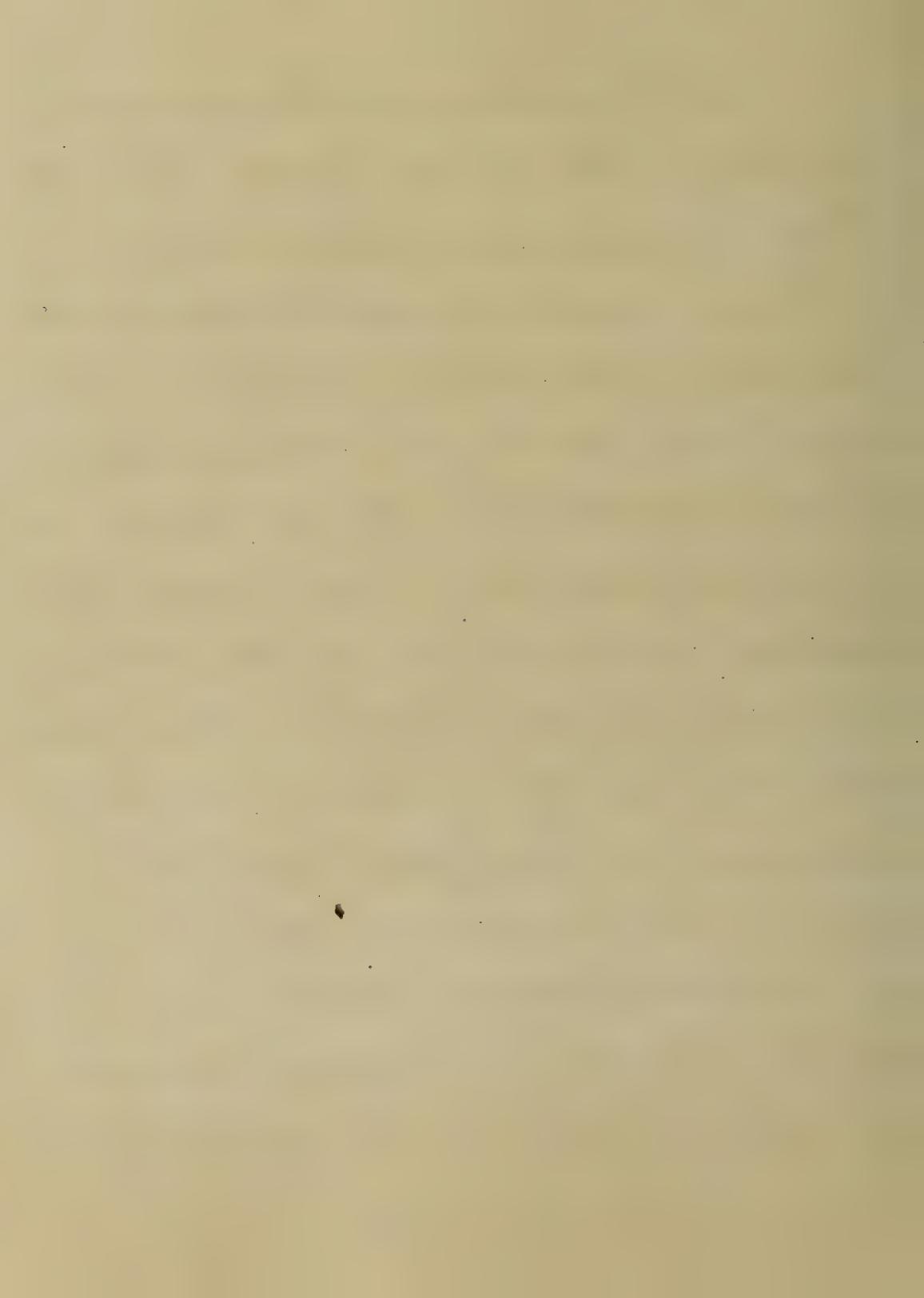
Doctor of Medicine,

Albert Vickers.
by
of

Maryland.

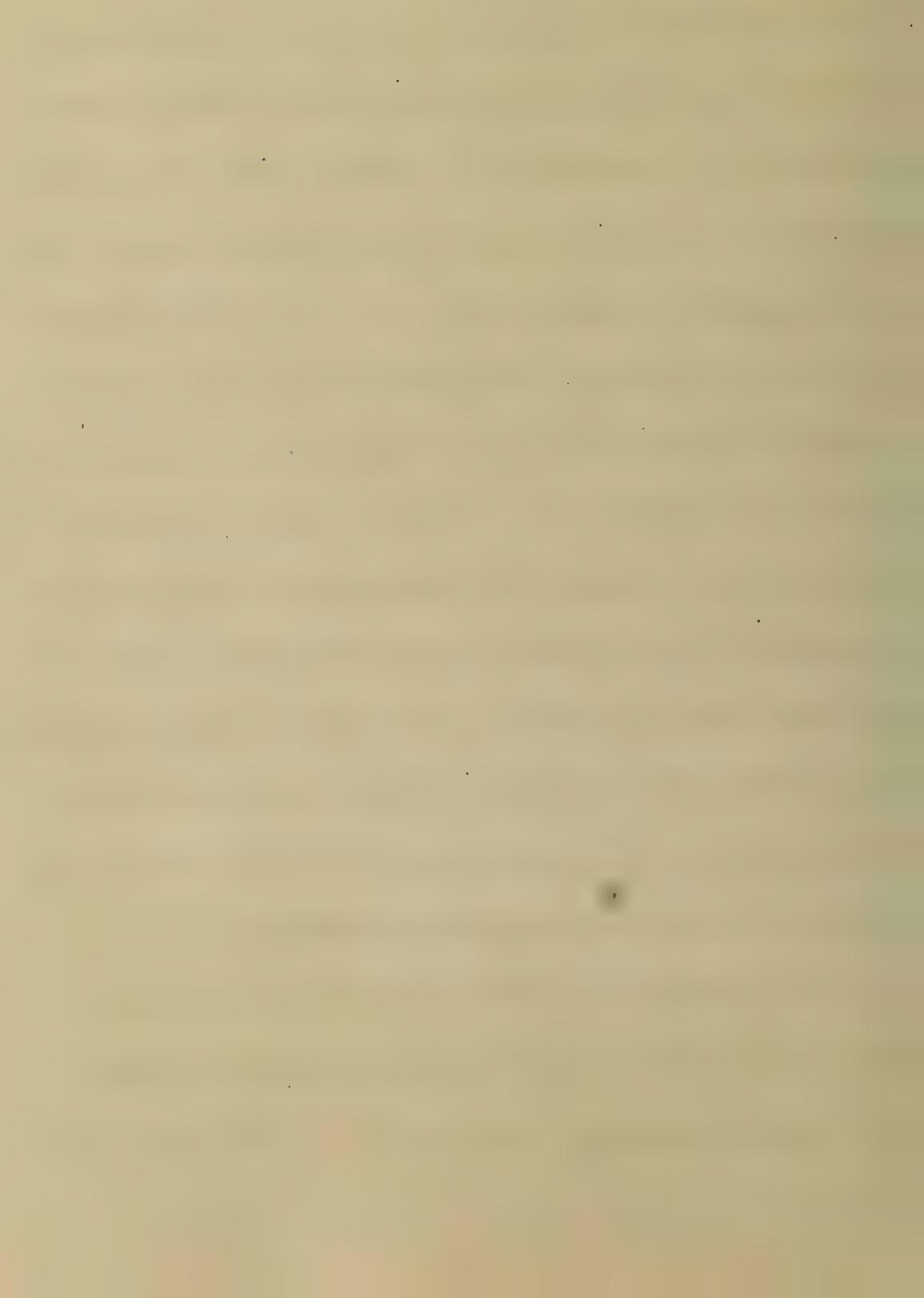
Session Fifty-eighth. 1866.

Digestion is that process by which the food taken into the body is prepared and put into a form in which it can be absorbed into the circulation - it has for its object and final result the production of arterial blood. Of all the processes of Nutrition, this is the most important - as the tissues of the body depend upon the blood for their nourishment, and the quality of the blood depending in great part upon the perfect performance of this function, its great importance is at once evident. It is also necessary, for the maintenance of health that the individual



should be supplied with nourishing food - food containing all the elements of nutrition, - that the waste which is constantly going on, may be promptly repaired. The food of man being composed of various substances having different chemical properties, it is necessary for its reduction that it should come into contact with various secretions, each of which exerts a peculiar action upon a particular class of substances contained in the food; - so that the digestive function is a complicated one.

Digestion of the food is accomplished during its passage through the alimentary canal. This canal



consists of the mouth and fauces, the pharynx, œsophagus, the stomach, the small intestine, under the names of duodenum, jejunum and ileum, and lastly the large intestine which finally terminates at the anus. The whole extent of this canal is lined with mucous membrane, presenting different characters in different portions.

In the mouth and œsophagus it is smooth and is covered with tessellated epithelium; - in the stomach and small intestine it is glandular and covered with columnar epithelium; - in the latter situation it is thrown into transverse folds or rugæ, the "valvulae conniventes"; in the large intestine it is smooth. The

mouth, the first portion of the alimentary canal, is a cavity formed by the hard palate above, the cheeks on each side and by the lips; the tongue and teeth are contained in this cavity; the latter are the principal agents in effecting the mastication of the food; the muscles of the cheeks and tongue are essential to the performance of this process, as they serve to bring every portion of the food into contact with the teeth. Mastication is the comminution, or subdivision of the food into small particles, and while this is taking place, another process is going on within the mouth, viz., Insalivation; This is the intermingling

of the saliva with the food, thereby rendering it into a pulpy mass.-

The saliva, the first of the secretions of the alimentary canal, is a slightly viscid fluid having an alkaline reaction, and is made up of the secretions of several glands,- 1st that of the parotid, 2^d that of the sub-maxillary, 3rd that of the sublingual, and lastly that of the mucous follicles of the mouth. It is composed of a large proportion of water, a small amount of organic matter, and some earthy salts. The function of the saliva has been the subject of numerous experiments.- It was found by Leuchs that it had the power of converting

Starch into sugar when mixed with it and exposed to a heat of about 100°F . This was then supposed to be its function, but as the food does not remain in the mouth long enough to be acted upon by the saliva in this way, and the presence of the gastric juice in the stomach prevents the transformation, this could not be its office; moreover, in another portion of the alimentary canal, provision is made for the digestion of starchy substances.

The function of the saliva is now considered, merely to render moist the food in the mouth, and thus facilitate deglutition.

It is secreted at all times, but under

the stimulus of food, it is poured out in much larger quantities. The food after having undergone these processes in the mouth, is forced backwards by the tongue into the pharynx; this portion of the canal is provided with constrictor muscles, which seize the bolus of food, after which, it is no longer under control of the will, but is forced downwards by the contractions of these muscles into the oesophagus. This is a tube extending from the pharynx to the stomach, provided with a muscular coat having two layers, the outer one having longitudinal fibres, and the inner, circular

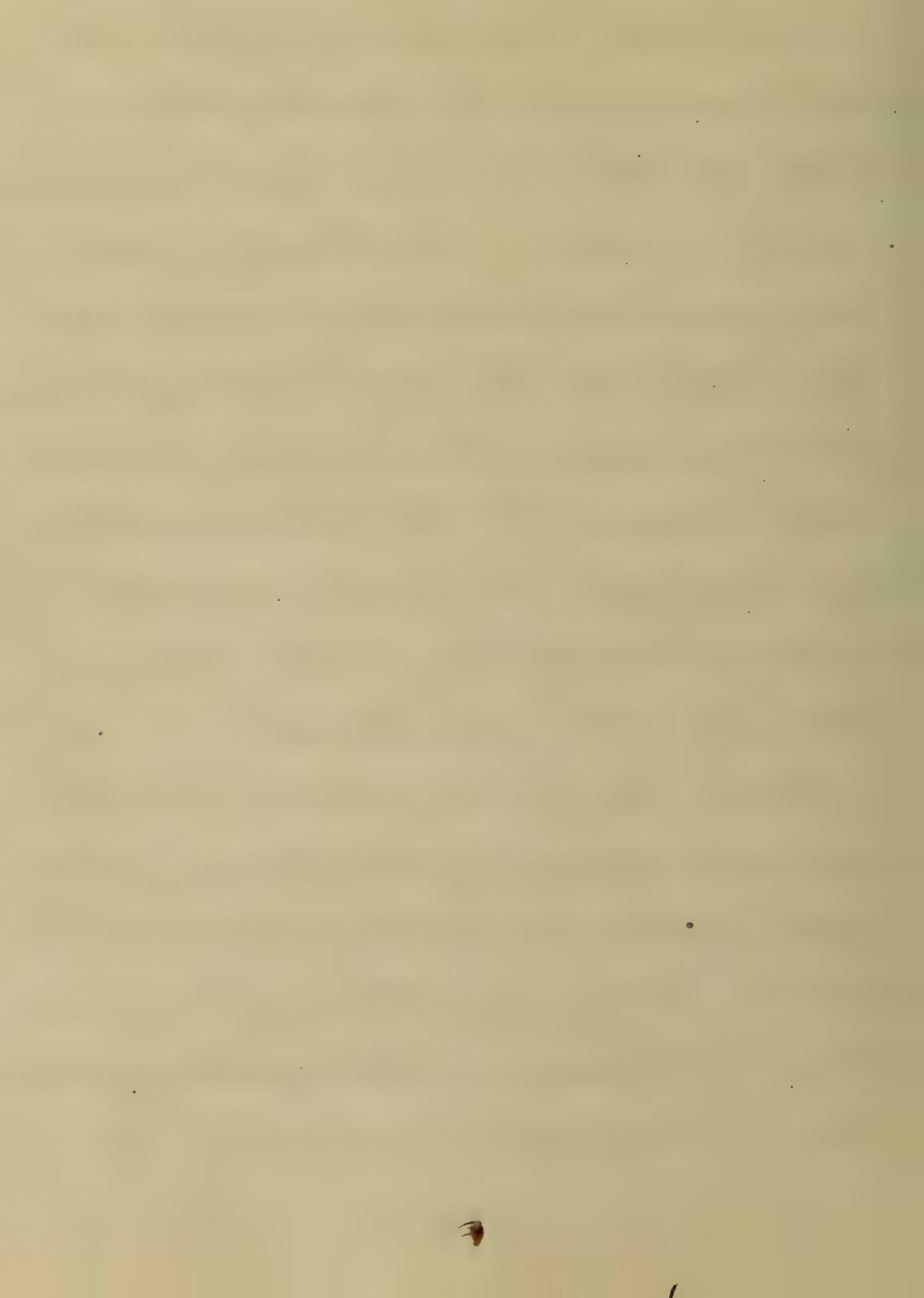
ones. The passage of the food through this part - as has been said - is entirely involuntary and is effected by the successive contractions of the muscular fibres from above downwards.

The stomach is a somewhat flask shaped expansion of the alimentary canal having two openings - the cardiac orifice the termination of the oesophagus, and the pyloric orifice leading into the small intestine; - it is provided with a muscular coat having two layers, like the oesophagus, and receives an investment of peritoneum. The mucous membrane of the stomach differs from that already gone over.

it is thick and when the stomach is not distended, lies in folds; it is connected with, or separated from, the muscular coat by loose areolar tissue, and is thicker at the pyloric end than at the cardiac; throughout its whole extent it is largely provided with glandular bodies known as gastric tubules; these differ in different parts of the stomach; near the pyloric end, they are straight, about $\frac{1}{400}$ of an inch in diameter, and are lined with glandular epithelium; at the cardiac end, these tubules are larger, and lined with columnar epithelium; they open upon the surface of the mucous

membrane, and terminate in blind extremities at the areolar tissue between the mucous and muscular coats. This areolar tissue, gives support to bloodvessels, nerves &c., from tho vessels are sent capillaries which inosculate, and form a network around all the tubules, thereby supplying the whole of the internal surface of the stomach abundantly with blood.

When the food reaches the stomach, the stimulant impression it exerts, causes a fluid to be poured out in large quantities; this secretion is known as the gastric juice; it is a clear fluid, acid in its



reaction and is composed of water in large proportion, an organic matter known as pepsine; lactic acid, and a small proportion of earthy salts: the acid exists in a free state, and is one of the most important constituents of the gastric juice, as its presence is necessary to the solvent properties of the secretion; what is the precise action of the organic matter is not definitely known; it is precipitated by alcohol, and by heat, after which the gastric juice loses its solvent powers; this, together with the fact that it is always present in the secretion, shows that it also, is one of the most im-

-portant of its constituents. The gastric juice exerts its digestive action only upon albuminoid substances; other proximate principles of the food, as starch & oil not being affected by it except as they would be if exposed to a like amount of heat and moisture in any other situation.

This action has been found to take place outside the body, if albumen and gastric juice be mixed together & exposed to a heat of about 100° F.

The change which takes place in the albuminoid substances of the food is a catalytic transformation, by which the food is liquefied, and in this form it is ready for absorption.- This

product of stomach digestion is called albuminose. This part of the process is greatly assisted by the contractions of the muscular fibres of the stomach, giving to it a peristaltic movement by which the contents are moved from one part to another, so that every particle can readily come into contact with the digestive fluid.

These contractions, not only facilitate digestion in the stomach but also serve to force the remainder of the food through the pyloric orifice into the small intestine.

The action of the gastric juice and stomach digestion was first studied satisfactorily by Dr. Beaumont. His well known experiments upon the person of Alexis St. Martin, who had a permanent gastric fistula, the

result of a gunshot wound, were contained for several years; he was able at pleasure to withdraw the contents of the stomach, and thus to examine them.

The albuminoid portion of the food having been digested in the stomach, the remaining portions pass into the small intestine. This part of the canal is about 25 or 30 feet in length, arranged in numerous convolutions. The first part is called the duodenum - next is the jejunum and lastly the ileum; it is composed of a serous coat, a muscular coat, and mucous membrane; these coats are connected to each other by areolar tissue.

The mucous membrane is somewhat thinner than that of the stomach and is thrown into transverse folds which are small in the

upper portion of the duodenum but become much larger in the other portions of the small intestine. These folds are called the valvulae conniventes; in the jejunum these are most prominent. The mucous membrane is provided with innumerable tubules, opening upon its surface, and terminating in blind extremities; these are known as Lieberkühn's follicles; they are found throughout the whole extent of the small intestine. In addition to these follicles, are the glands of Brunner; these are peculiar to the duodenum and are more numerous near its upper extremity. They consist of clusters of vesicles, opening into a single excretory duct. There are also found in the intestinal canal other glandular bodies, the solitary glands, and Peyer's patches. The

former are simple closed follicles, and are found in all parts of the intestine. The latter are several - from 20 to 60 - of these solitary glands found together. They are found in the ileum. The epithelium of the small intestine is of the columnar variety. There are minute projections from the mucous membrane called villi. They are about $\frac{1}{2}$ of an inch in length; each one of these villi has a blood vessel which divides into a capillary network. The centre of each villus contains a lacteal, but the way in which these vessels are arranged is not definitely known. The function of these villi is to absorb the digested matter. The glands of the small intestine secrete a viscid fluid which is called the intestinal juice; it is alkaline in its reaction.



Numerous experiments have shewn that it converts starch into sugar, or glucose, and that rapidly. In this state it is absorbed. That this part of the digestive process takes place in the small intestine, and that the intestinal juice is the active agent in accomplishing it, there can be no doubt.

There remains yet for consideration, the digestion of another class of substances - viz. the fatty. This is effected by the pancreatic fluid. The pancreas is a gland situated behind the stomach, composed of lobes and lobules united by areolar tissue; from each of the lobules arises a radicle of its excretory duct, which opens into the duodenum about its middle, the ductus communis choledochus having a common

orifice with it.) The secretion of the pancreas is a clear, viscid fluid, and somewhat resembles in appearance the saliva; it is composed of a large proportion of water, an organic matter, known as pancreatic, to which the secretion owes its peculiar properties, and a small quantity of earthy salts.

The oleaginous matters of the food when they come into contact with this fluid are reduced to a very fine emulsion and in this condition, absorbed. This is the only action exerted by the pancreatic secretion upon the oily matters, no chemical change taking place. There is another action of this fluid however, which is to convert starch into sugar, but this is secondary.

The contents of the intestinal ^{canal}, are forced

downward by the contractions of the muscular fibres of the intestine, giving a motion called vermicular or peristaltic.

There is another fluid poured into the intestinal canal, & that is the bile, the secretion of the liver. This, although taking no direct part in the digestive process is of great importance, since experiments upon the lower animals have shown, that if the supply of bile be cut off from the intestine by ligating the duct, and establishing an external fistula, the animal dies of inanition in from 4 to 5 weeks. The digestive fluids act upon the bile within the intestine, producing certain transformations after which it is reabsorbed into the circulation; what these changes are

which take place, is not at present clear.

The last part of the digestive process takes place in the large intestine. This is divided into the ascending, transverse, and descending colon and lastly the rectum, terminating externally at the anus.

The mucous membrane is not provided with villi as in the small intestine. The follicles of Lieberkühn and solitary glands are found in it, however.

At the ileo cecal orifice there is a valve formed by two folds of mucous membrane, one above and the other below; the free margins of these folds meet, and prevent the contents of the cæcum from passing backwards into the ileum. The

contents of the large intestine are called

feces; they consist of undigested and excrementitious matters, and are remarkable for their peculiar odor. They are finally expelled through the anus, partly by the involuntary contractions of the circular muscular fibres of the rectum, and partly by the action of the abdominal muscles, which are under control of the will; to prevent the involuntary discharge of the feces, two sphincter muscles are provided at the anus. This last act is called defecation.

1866

AN

Inaugural Dissertation

ON

Inflammationis

SUBMITTED TO THE EXAMINATION

of the

Provost, Regents and Faculty
of

PHYSIC,

of the

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

Doctor of Medicine,

J. Ward Scott Jr.

of
Ufcarni

Session

18

Inflammation
and Disease

The meaning of this
and how it has been understood, probably
most fully, is disclosed, by the numerous
learned Physicians and
Surgeons, who have written and
lectured upon the subject.
Inflammation is beyond a doubt
the most to be feared of diseased
conditions, as it constitutes the
greatest source of danger, both
to the person, & must necessarily
occupy the closest attention
both of the Student and
Physician.

Notably as good if not better

◎

affections which have got deeper down
are,

1st Inflammation condition of the joint
characterized by Heat Pain - heat
ness and swelling.

2^d Inflammation the second stage is the
production of a suppurating excretion of
matter discharge by the blood affec-
rates some noxious matter from
itself.

The effects are very terrible - &
it is in certain instances on
means of cure

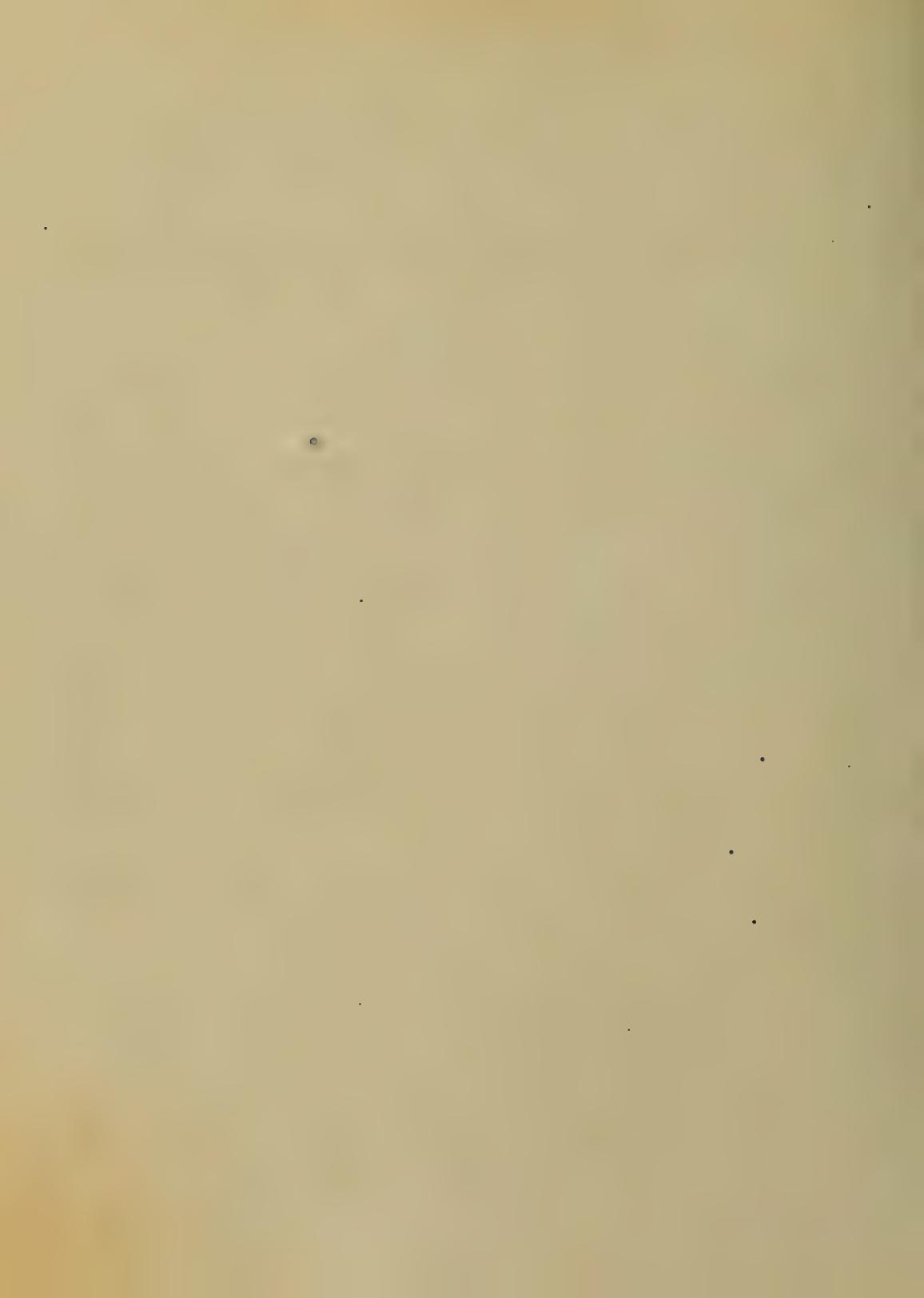
Operation, which is the most
frequent method of Rupture
consists in sectioning the joint, with
a sharp knife, and then
removing the articular cartilage.

are still visible after
this result has given up its
action.

The symptoms outside if not
truly cease -

Effusion is another means
of absorption - followed by the
loss of a vesicle like a
blister, which ends in a blood-
stain to the tender granulations, un-
til covered by cuticle - Authors
have separated it into three
parts - "Vesicle and Ulcer -
Thrust".

This absorption is very
well understood, and
now I am taught to understand



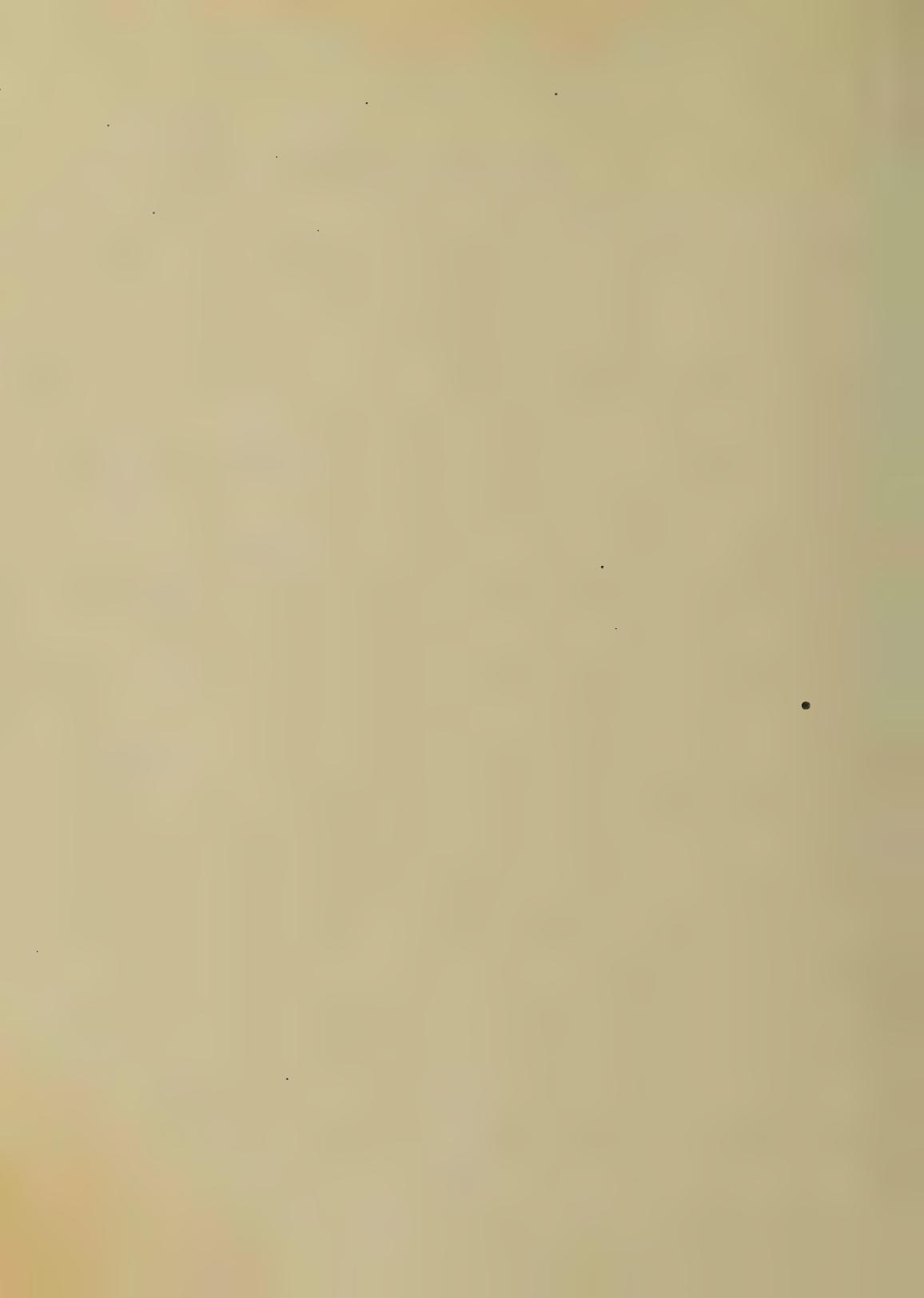
gives called "Feces".

Another effect of typhus miasma is ulceration - this is owing to a deficiency of the part - not excess of it, therefore it knows no repulsion - but it is due to absence of fibres, produced by inflammation and suppuration and more minute the inflammation - the more rapid is the ulceration.

The most liable to ulceration are those who have led an idle life and have indulged in too much in the confinement, and the parts may give it down effects.

Whether we make the plant more
or less dangerous (in this
viewing, some of us believe it
is a more dangerous weed,
compared with others
of the same family, such as those
which are not so dangerous, from
their essential)

Herbaceous may signify the
herb; and therefore the
name of a part the surface
of the volume
that does not develop to a solid
body, though it is said
the exterior of the plant
does not grow - little bodies
filled with a fibrous matter



to the right of the nose - The first gives at a most brittle stroke and the voice does not return to its natural position on the removal of pressure -

The larynx does not vibrate in all cases with the first but may remain quiescent and the paternal excess - but usually before death the patient is hurried into it by Hemorrhage -

Inflammation, pain and does not exist without all its phenomena. At times only two are to be found. In the voice nothing is changed characteristic is not like the usual upon -



The condition of the body is often
affected where in those
functions & oxid - excretion is so
overdone & overdone & hence there
fore the action of many substances
in the body becomes - ~~dangerous~~ dangerous
flatulencies are generated and
a life long misery the result

Heat - one of the
phenomena of Inflammation
is produced by a rapid filling
of the tissues - where one sup-
plies with a sensible quantity
of blood - But never is the heat
so violent as one that is the
result of inflammation - the
natural heat is very much

the propagation of the frictional
heat beyond a short distance
increase of heat does exist -

This can be easily observed,
when the concrete is burnt,
that the greater the heat - the
more the heat resists - so that
more initiating substance
finds its way into a fast-
producing inflammation -
block is sent faster, and in
greater quantities - in order
to burn off the initiating cause
Heat must be permanent as
well, the combustion material
will not receive all the energy
from

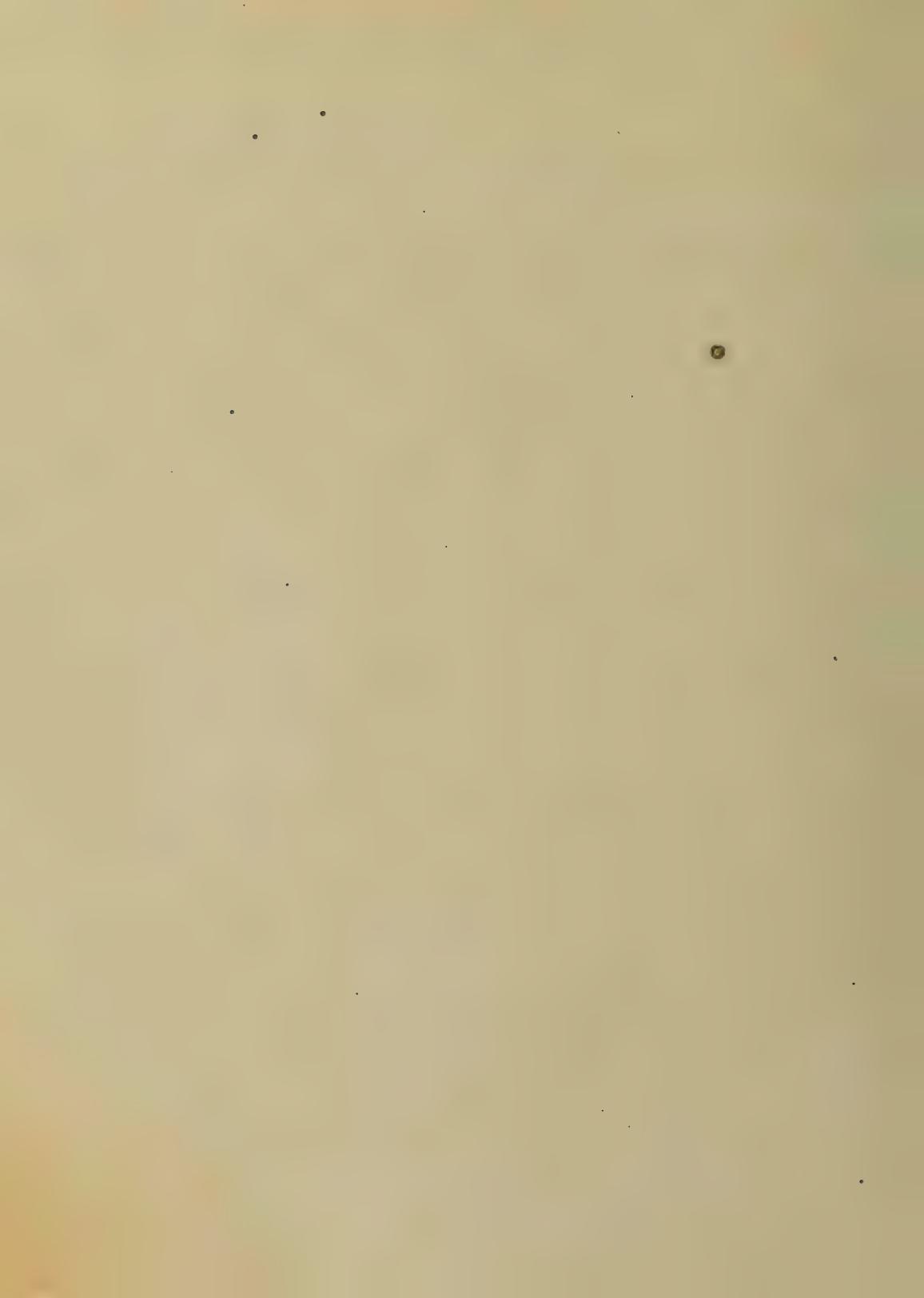
This acute exacerbation is
exceptional, almost if not com-
pletely upon the arrival of the
monocilia. It may occur in
any position, does however
at the lymphatics - it without
doubt as I said before - inflam-
mation cannot exist -

This is not always *uniform* it
varies in intensity - Being in
some instances so slight as to
be almost imperceptible, and others
possessing the most intense degree
of heat may be the very few
little signs of past sojourn - but
if we examine closely, some
swelling or redness will be



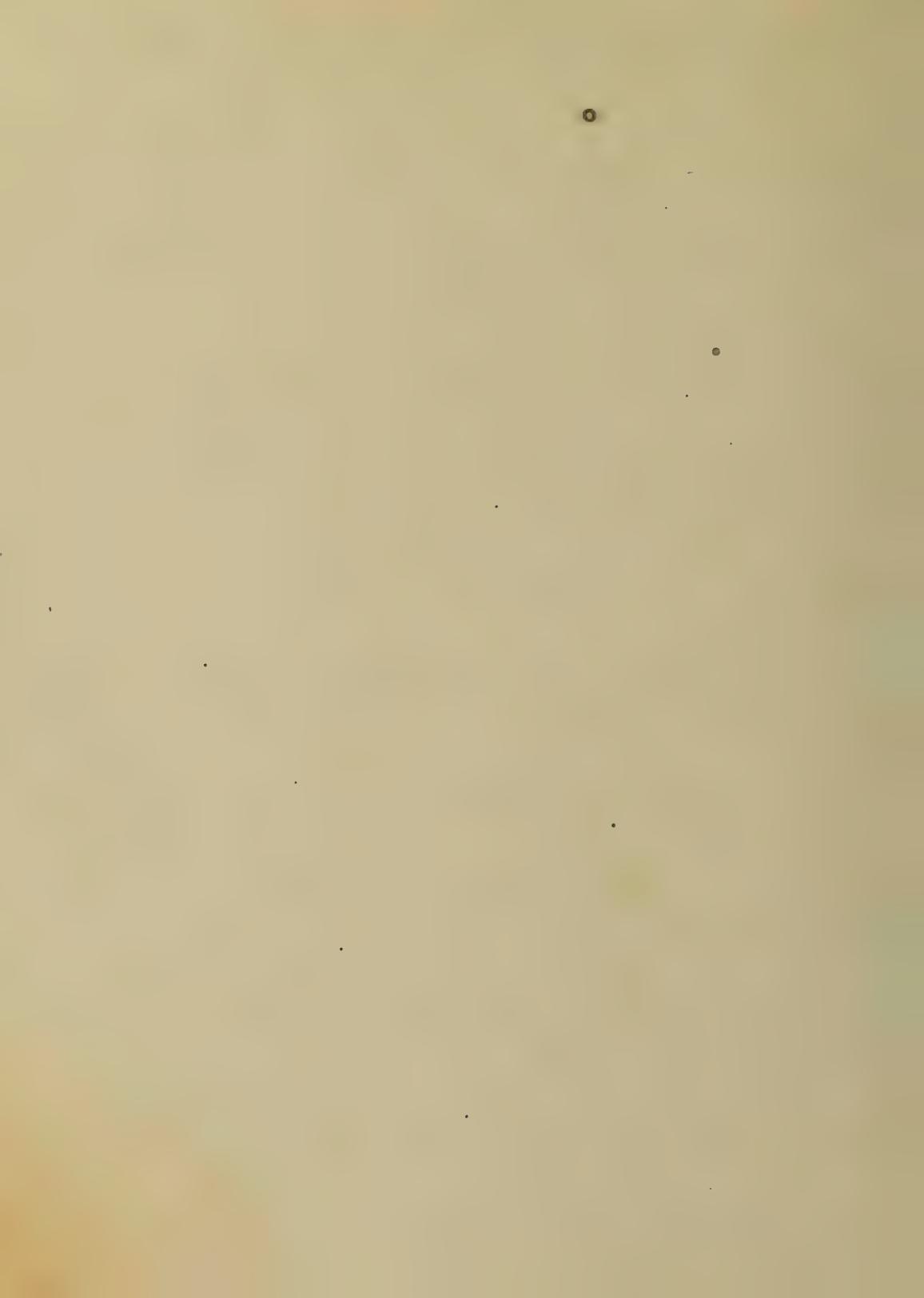
discovered in though or mind & body
Pain may be dull
or sharp or sharp & severe
unrelenting, driving the patient
sheer out with the intensity
of his agony -

The patient, much other trouble
possibly except from some physical
affection shuns things giving
rise to most melancholy
feelings. In some cases the inti-
-mation of disease is so slight
that one is not for the im-
-personal probability of the patient
the patient need be fully
conscious of its existence - But
just as soon as he does - is



applied - either of the hand
or change of posture - it
has immediate indication
that pain is there - It ap-
pears worse by compression
and duly cool & unexpeditely
minimize the almost-ve-
nousness being the most-han-
ful.

Process is principally occasioned
by the capillaries holding more
red globules than usual - the ves-
sels become distended - The de-
gree of address varies, in differ-
ent persons of the family. It may
be either a light scarlet or an
purpled - even on trivial trou-



It is gradually clearing up & the
acute, gradually diminishing
until it is wholly past in the
following morning.

Again - It may be of especial
use throughout - If possible an
evil - fears may be entertained
of one's infidelity - it is about to
change its character - from that
of infidelity - to love

Swellings is caused
"by an increased quantity of
fluid in the body" These expan-
sions will be evident, when
swelling - There are many
causes. The bone is with pain
the bone is swelling, and

Yet. Influence neither, nor not
by is it - & hence of it come & in-
-directly - we may have ^{to} stop
Person's & don't its ^{to} bring you-
-wine - The dwelling must be
gratified - consequences slightly
every day, until thoroughly es-
-tablished -

The other symptom is
more one - to present - the dis-
-order of *Bifidum molarium*
be established

Dressing is protective of but
good deal injury - mixing
aloe with its application
in the fracture - where bone
is missed - dressing is ^{very} good



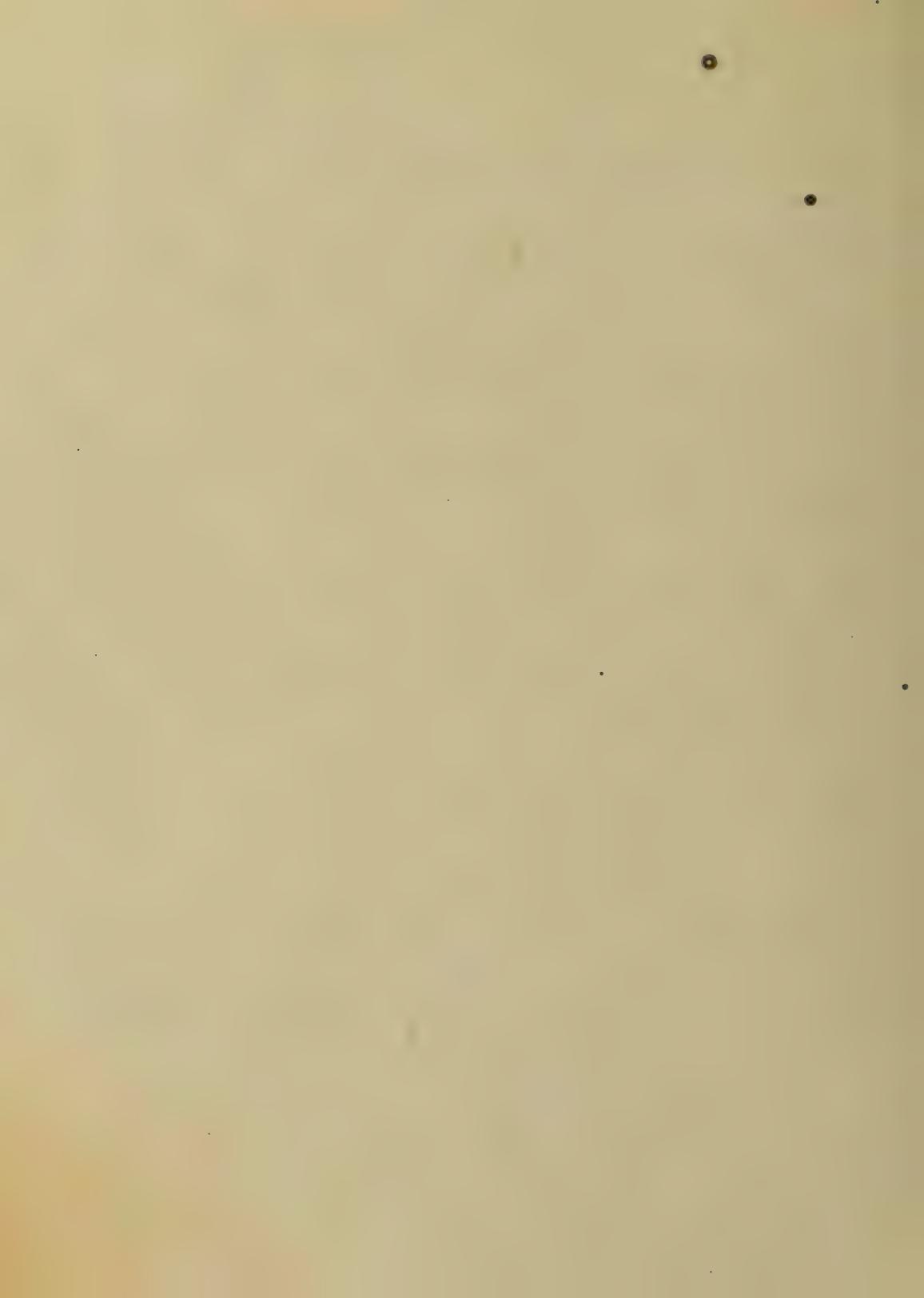
Hospital - but these were soon
want occurs - in their life
such - very soon - results, many
follow - loss of sight much
other injury, less distressing
may be the consequence.

But in Fracture - there the
bone is broken highly - and
sharp - great uniformly would
exist, as to its destruction - did
not nature supply other means
of remedying herself -

Cortex -

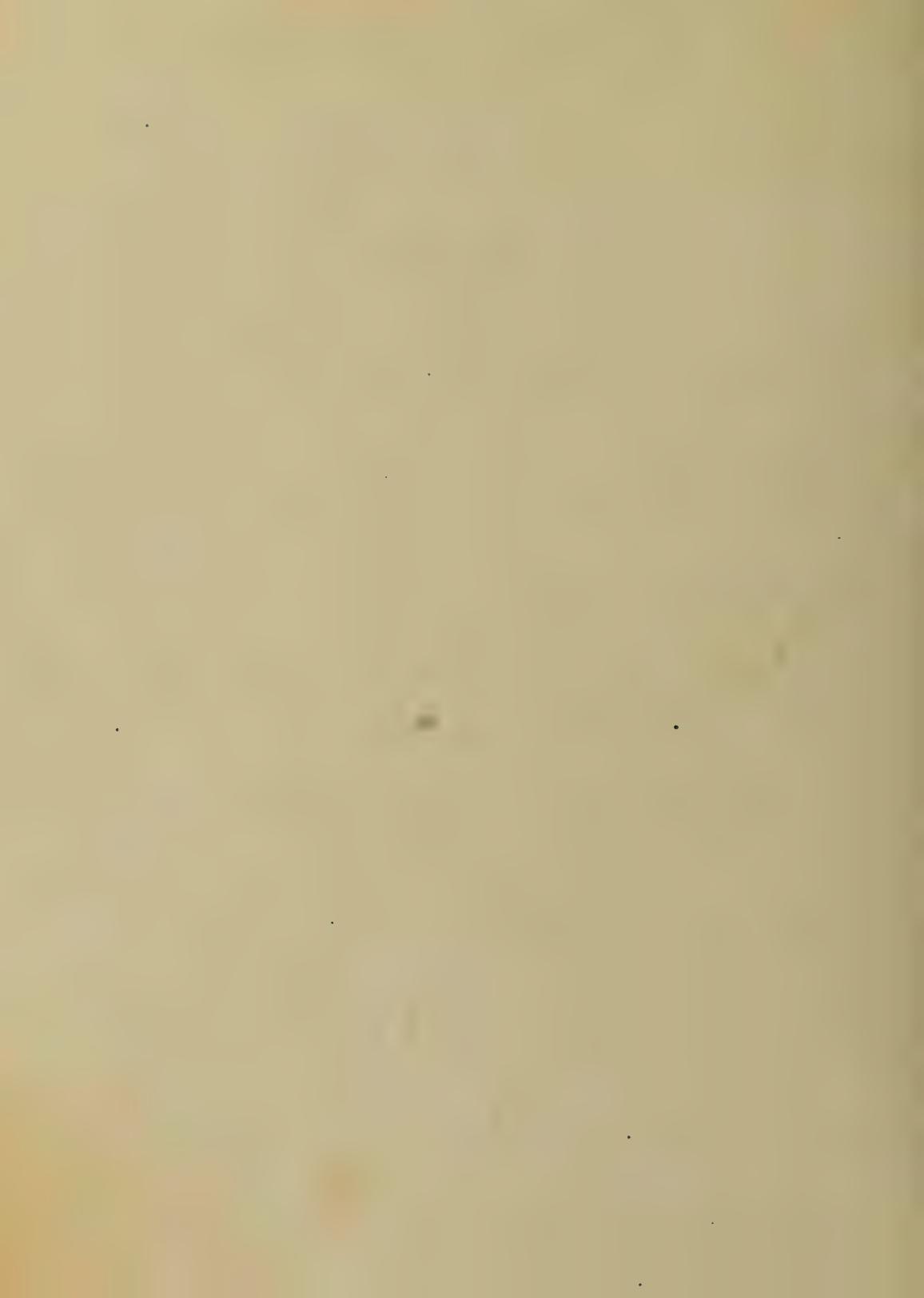
Membrane of bone membrane
exists in tightly packed
masses - like a

Animal Bracing



Local Bleeding
Inflammation
Injury
Purpura
Erysites
Dermatitis

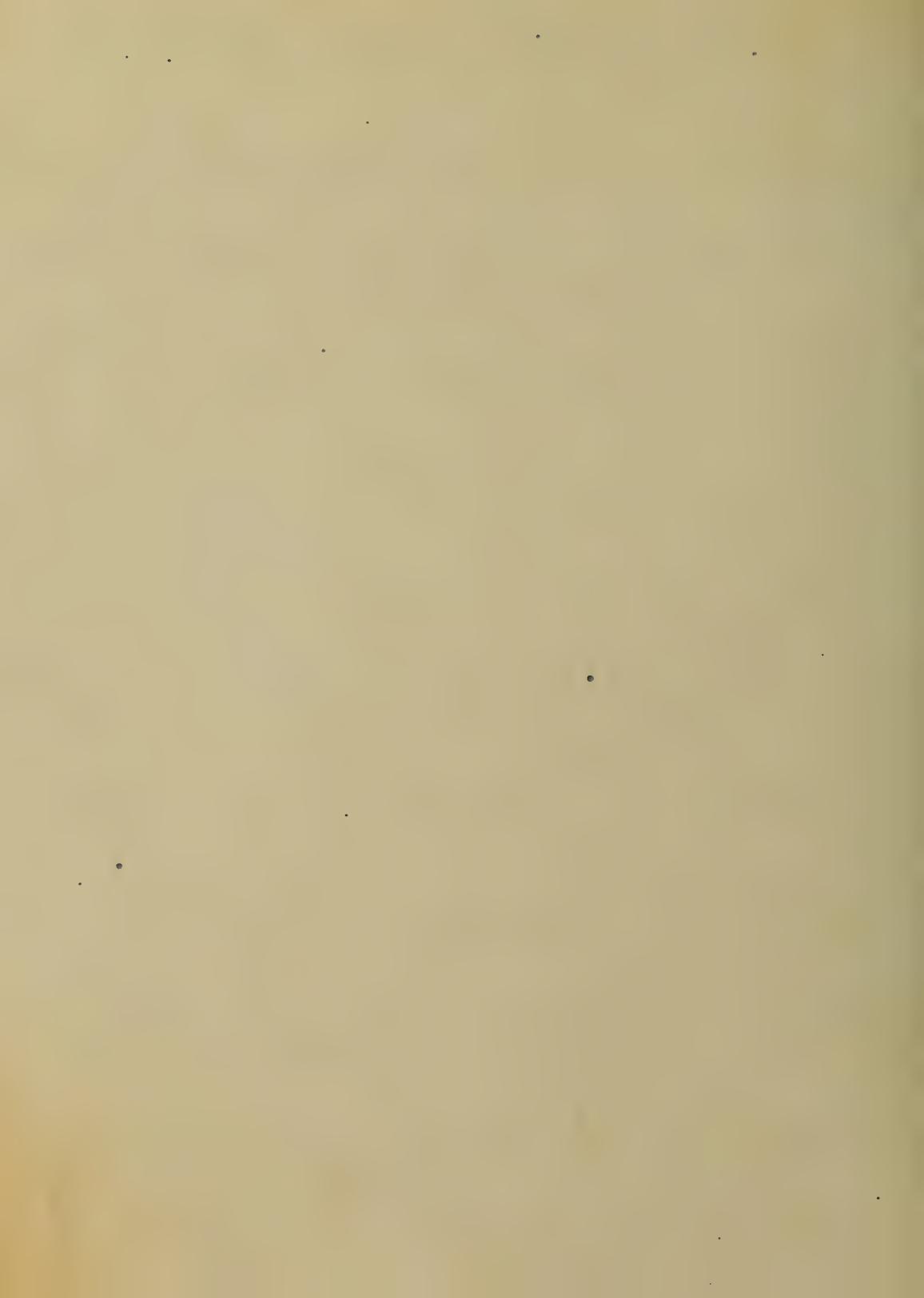
And also such principles
in the body more favorable
of Stimulants
Now, the main idea we must
grasp is - that our first
attention must be directed to
the removal of the irritants of
disease - that are responsible
of the more important and
dangerous parts - We must un-
derstand him, -



By representation made still more
true -

There is to be given me
such a man - that an
evil effect on the infant - the
first effect must be to the removal

This is formal and
useful - will be of sympathetic and
decisive influence - Penn
is also important - after bleeding
by cutting the nervous system
and by preventing resolution
and pain - it requires that
is absolutely command -
But unless we very repre-
-table - Complete rest is ad-
-vised - A good supply



of fresh rice is necessary
All eating suffi-
-cient with mental and phys-
-ical must be removed -

Practicing foul smelling
is disapproval of being
Learned gentlemen of the
profession - Let rice be ea-
-led - it cannot be digest-
-ed with -

Share of Rishmanitri
Be some rice may super-
-tugal upon it & it will be
-taste & flavor be removed
- immediately -

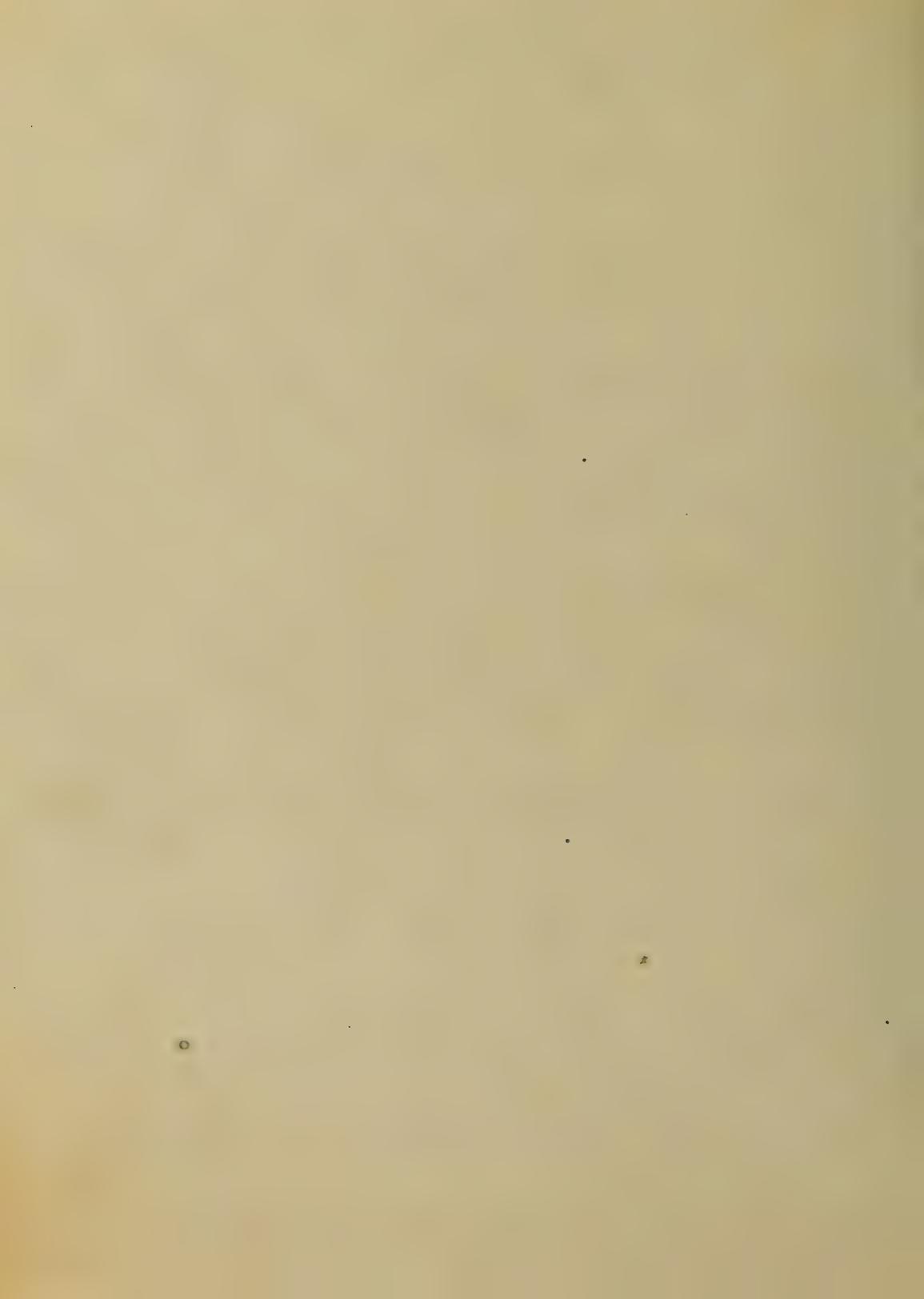
There I called - When ex-
-treme Rishmanitri was

I shan't wait patiently like
that - the safety of my pa-
tient should rule me.

I would not follow the dogmas
of either party - but trust my
own judgment - & practice
as I do - that Nature would
be assisted - will I finish
my mission -

If however the patient is bla-
cked in a low condition
and inflammation not very
high - local bleeding is prefer-
able - the former is especially
in old age -

Cupping - In many instances
cupping is preferable to



absorbing - we are compelled
to obtain more thermal.

In fact Geches are only
used - when we find it
impossible to reach the effe-
ctual part with Coops - Ducktail
great effect in - the reason is
the great variability in temper-
ature resulting from their
life; - but ~~this~~ is easily re-
moved - by the application
of Nit-Silver - or Gun-Tin-
Brass -

Properties - cause the in-
crease in flow of minerals from
the bowls - since promote
absorption - This class of

Crotonine, should not be allowed
to be used - it would
be extremely dangerous -

In Fracture for instance - when
the patient is extremely debil-
itated - by long and con-
tinued suppuration - or when

there are any reasons - for
suspending the bowels are per-
forated - In one case we
must stimulate - and in
the other we must keep the
bowels quiet by the use of
Opium - unless the rectum
is affected -

Potol - has indeed useful -

It is wonderful - What re-



Relative influence, others over
Inflammation - When Re-pa-
-tient is leaving from sides ^{to side}
head, almost splitting with pain.
Delirium at its height - Cold
is more of a relief - It should
be used sometimes - as it is
a most powerful agent -
We should continue to use
Balsf - so long as it is accep-
-table nowe present to our
patient - But when the con-
-plaints of it being oppressive
the use of it - must either be
discontinued -

In entitling this - for your per-
-usal - I am fully concious,

Curious of its many effects -
I have not noticed either any
lengthy description of Kiplanum-
hin or of its treatment -
Work after work has been written
upon it - and still the subject
is open - If you would my
first attempt worthy of your
notice - I shall be extremely
happy - that it has met - if
it does - your approval

