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UNIVERSITY OF MARYLAND

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UNIVERSITY OF MARYLAND

THESES

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No.

Inaugural Dissertation

on

Pneumonia

Submitted to the Faculties, Regents & Faculty
of physic
of the University of Maryland
for
the degree of Doctor of Medicine

by

J. P. Thomas

of

Maryland

1865.

M. D. S.

IMB
18932



Being required, by the University of Maryland, and other medical schools, of candidates for graduation, a Thesis upon some medical subject, I with much diffidence, assume the task, - thus imposed.

And, I purpose, to consider the subject of Pneumonia, its symptoms, physical, and general, Course of disease, Prognosis, and Treatment.

Pneumonia, or inflammation of the substance of the lungs, is disclosed to us by the method of auscultation.

All the symptoms that give us the most-sure information respecting the nature of the disease, its increase and aggravation on the one hand, or its abatement and diminution on the other; spring out of the actual changes wrought in the pulmonary -

pulmonary substance itself; and are disclosed to us by no other method, than that of auscultation. Technically speaking, Pneumonia may be either double, or single; or inflammation may occupy the part of one lung, or the whole of it: in other words, it may be partial, or general; but it does not affect all parts, or both sides, indifferently, or capriciously.

In the first place, it is said to be, (Why, I know not,) greatly more common on the right-side of the body, than on the left.

Of one hundred, and fifty one cases of Pneumonia, collected by Andral, ninety were of the right lung alone; thirty eight of the left alone; seventeen of both sides at once; and in six the situation was uncertain.

And, in fifty nine other cases, collected from other authors, so fully described as to

to leave no doubt about the nature and situation of the disease. Among these, the inflammation existed in the right lung alone in thirty one patients; in the left alone in twenty; and on both sides at once in eight. Hence, taking together, we find two hundred and ten cases of Pneumonia; and there were = one hundred and twenty one, in which the right side was solely the seat of the disease; fifty eight, in which the left; twenty five, in which, the pneumonia was double; and six in which, the seat was uncertain. So that at this rate, Pneumonia is more than twice as common, on the right side, as on the left; and does not occur on both sides together so often as, once in eight times. Again, with regard to the part of the lung which

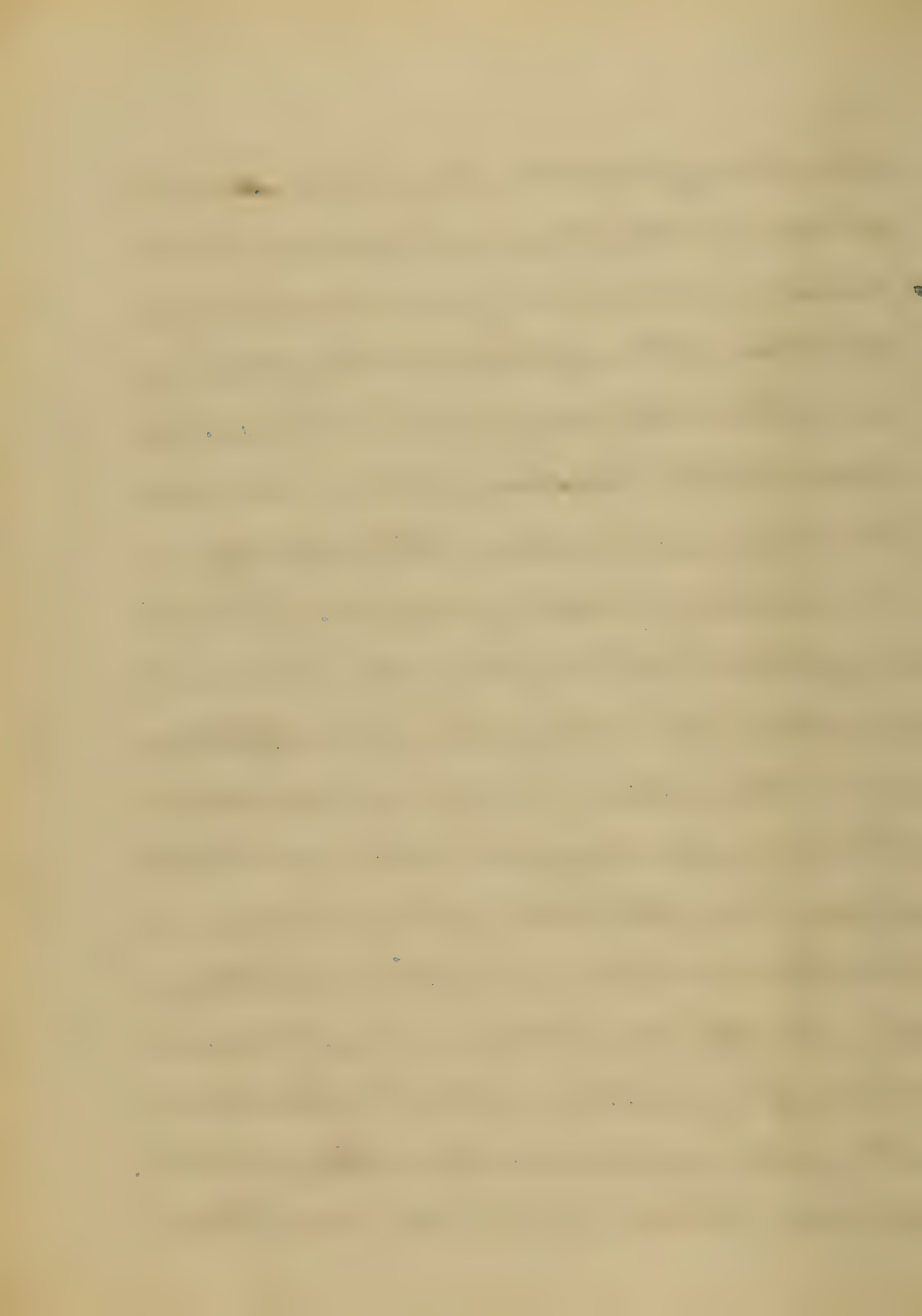
which is most obnoxious to inflammation, there are remarkable differences. It is known, says Dr. Watson, that active idiopathic inflammation is more often found in the lower lobes of the lungs, than the upper. Laennec seems to have insisted much on this subject, and though Dr. Watson agrees with him in the main, he thinks it somewhat exaggerated; - but the general impression, which statistics have left upon his mind is in favour of the correctness of Laennec's statement that Pneumonia generally commences in the lower lobes, and spreads upwards frequently to the Superior lobes. Andral's statistical representation in respect to this question may be adduced also.

Of eighty eight cases of Pneumonia he found -

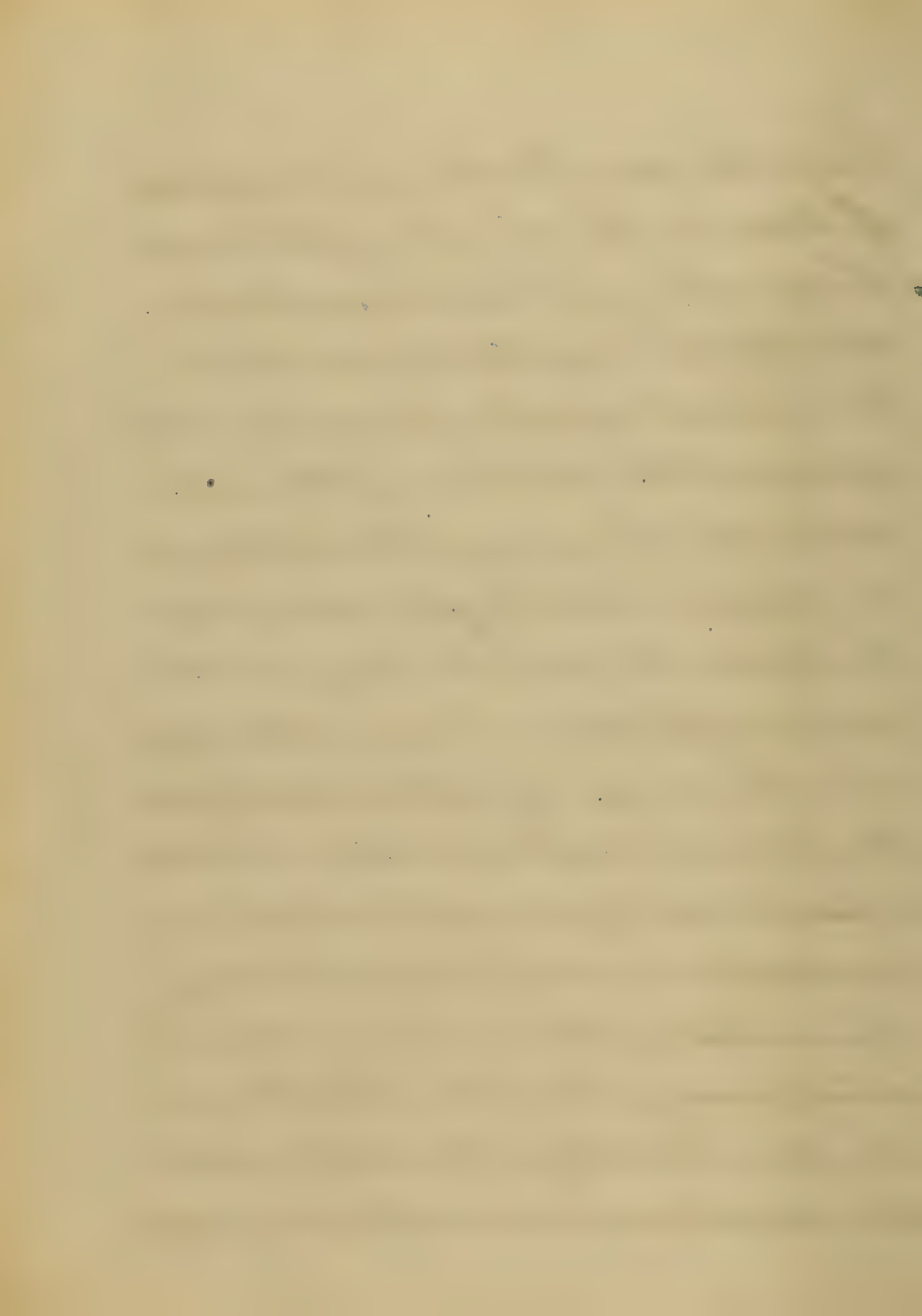
that inflammation affected the inferior lobe forty seven times, the superior lobe thirty, and the whole lung at once eleven. In the language of Astruc "Inflammation of the bronchi constantly accompanies inflammation of the parenchyma" he says. There may be bronchitis without Pneumonia: but -- Pneumonia without a corresponding extent of -- Bronchitis is perhaps never seen. A great many cases of Pneumonia are attended also with a degree of inflammation of the investing membrane of the lung: there is some Pleurisy. So frequently indeed, is this the case, that certain writers. Andral, among others, -- call the disease by the compound name of -- *Pneuro-pneumonia*.

However, Pneumonia may and does sometimes occur without any concurrent Pleurisy. The changes which the lungs undergo when

inflammation affects their texture are ascertained by means of the physical signs; without which, we should be ignorant, not being able to see the important changes going on within the cavity of the Thorax; but Auscultation has come to our aid, and removed in a measure the obscurity — in which, it was engendered. If the ear be applied to the surface of the chest, with or without the intervention of the Stethoscope, and the portion of lung subjacent to that surface happen to be in the first stage of inflammation, that of engorgement, what do we hear, a peculiar crackling sound: the smallest, and finest possible kind of crepitation, which resembles — the noise produced, by rubbing a lock of hair between the finger and thumb,



close to the ear. It is the crepitant rhonchus
of Laennec; the minute crepitation son.
the crackling of Pneumonia of Malden.
"And what an important sound it is!" =
It is a direct symptom, having immediate
reference to the structure of the part.
And in the language of Dr. Latham if
we consider what the part is, and what
the disease; the part, the lung, and the
disease inflammation; we cannot too highly
value this single symptom, which gives
the first, and surest intimation that such
a disease has begun, as tends to the dis-
organization, and the inevitable loss of
life, unless quickly arrested by its counter
acting remedy. When the inflammation is
in its earliest stage, the minute crepita-
tion, which announces commencing engorge



engorgement of the part, is heard mingling
with the ordinary vesicular breathing; obscur-
ing the natural sound, though it does not
entirely cover it. But as the inflammation
advances, the crepitation becomes more and
more pronounced, until it entirely su-
persedes the natural sound. So long as
the vesicular breathing overcomes the
crepitation, we may conclude that
the inflammation is slight. But, if the
crepitation should in its turn, become
predominant, if it should ultimately
mask the murmur of respiration entirely,
that infallibly denotes the advance of
Pneumonia, and teaches us that it tends
to pass from the first into the second
degree. But, we are told that the crepi-
tation does not long remain in any part.

As the case proceeds, the sound is less, and less heard, and at length is not heard at all in that spot; and it may be succeeded by one of two very different things. It may be by the natural respiratory murmur again. When this is so, it denotes resolution. But the crepitation may cease, and either no sound be heard at all in its stead, or another morbid sound, bronchial respiration, which denotes that the disease is growing more severe, and serious: that the lung is becoming or has become hepatized. In this stage, red hepatization, or second, we hear bronchial respiration, and bronchophony, or bronchial voice. We are told by authors, that these morbid sounds are most plainly marked, where the number and size -

of the bronchial tubes involved in the
hepatisation are the greater. They are
most distinct therefore, when inflamma-
tion occupies the upper part of the lung,
or the central parts, which are called
the roots of the lungs: and it extends
thence to the surface. But, when the
inflammation occupies the lower lobes
alone, or is merely superficial or par-
tial, they may not be heard at all.
Or if the hepatisation should be so-
general and complete, as to prevent
the chest, on the affected side from
expanding, in that case there will
be no bronchial respiration heard, for
the air in the large bronchi must be-
stagnant. Bronchophony, however may
remain. When there is bronchial respiration,

there is usually also dulness on per-
cussion. If a portion of crepitant, and
permeable lung even a thin portion -
should intervene between the inflamed
parts, and walls of the chest, there -
will still be resonance on percussion,
though it will not be exactly the -
natural resonance. If the hepatised -
part come close up to the ribs, the
sound elicited by mediate percussion -
will be flat, or dead. There will generally
be heard in the sound lung, if the whole
of the other be engaged in the inflammation,
or in those parts of the inflamed lung,
that are healthy, puerile respiration,
and this is said by Dr. Watson, to be a strong
confirming symptom that a part of the
breathing apparatus is spoiled, and that

The remaining part is endeavouring to com-
pendate for its deficiency. The period in
pneumonia when no sound but bronchial
breathing is audible, during respiration
is a period of anxious, and painful interest.
We cannot tell whether the lung will
revert gradually to its healthy state; or
whether it is passing into the third-
stage, that of purulent infiltration; or
gray hepatization. But should the lung
revert gradually to health. What do we
perceive, I where for a time was heard
nothing but bronchial respiration. Slight
crepitation is again distinguishable at
the end of each act of inspiration, as
it increases the bronchial breathing
and bronchial voice become less distinct,
until they disappear altogether. There-

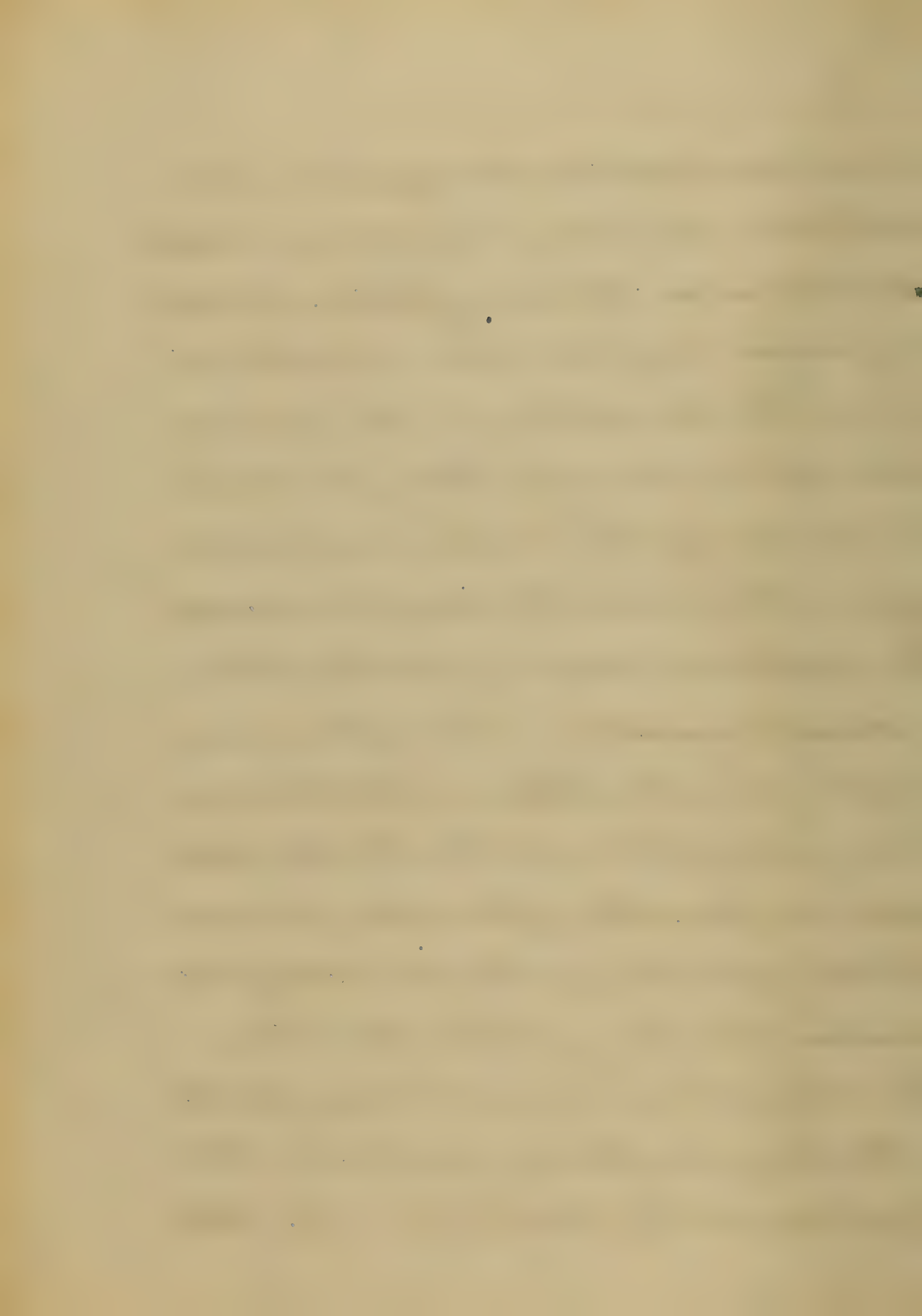
The vesicular murmur begins again to mingle with the crepitation, and finally supersedes it, and it is again restored to its healthy functions. pneumonia having been traced by auscultation through its stage of engorgement, into that of hepatization, the question is naturally asked by authors, whether, it can be traced further by that means. Dr. Watson, is of opinion, that it cannot with any degree of certainty, be ascertained by the ear, whether, the lung remains in a state of hepatization, or whether it has passed into the third stage. Having considered, though very imperfectly, the physical signs, destructive and reparatory, which take place in pneumonia. I pass to the consideration of the general signs of that disease.

Which are pain more, or less severe, on one side of the chest; dyspnoea; Cough; a peculiar expectoration; and fever. The pain is said by authors, to exist only in those cases, - in which pneumonia is accompanied by some degree of pleuritis. But, such appear to be the most numerous cases.

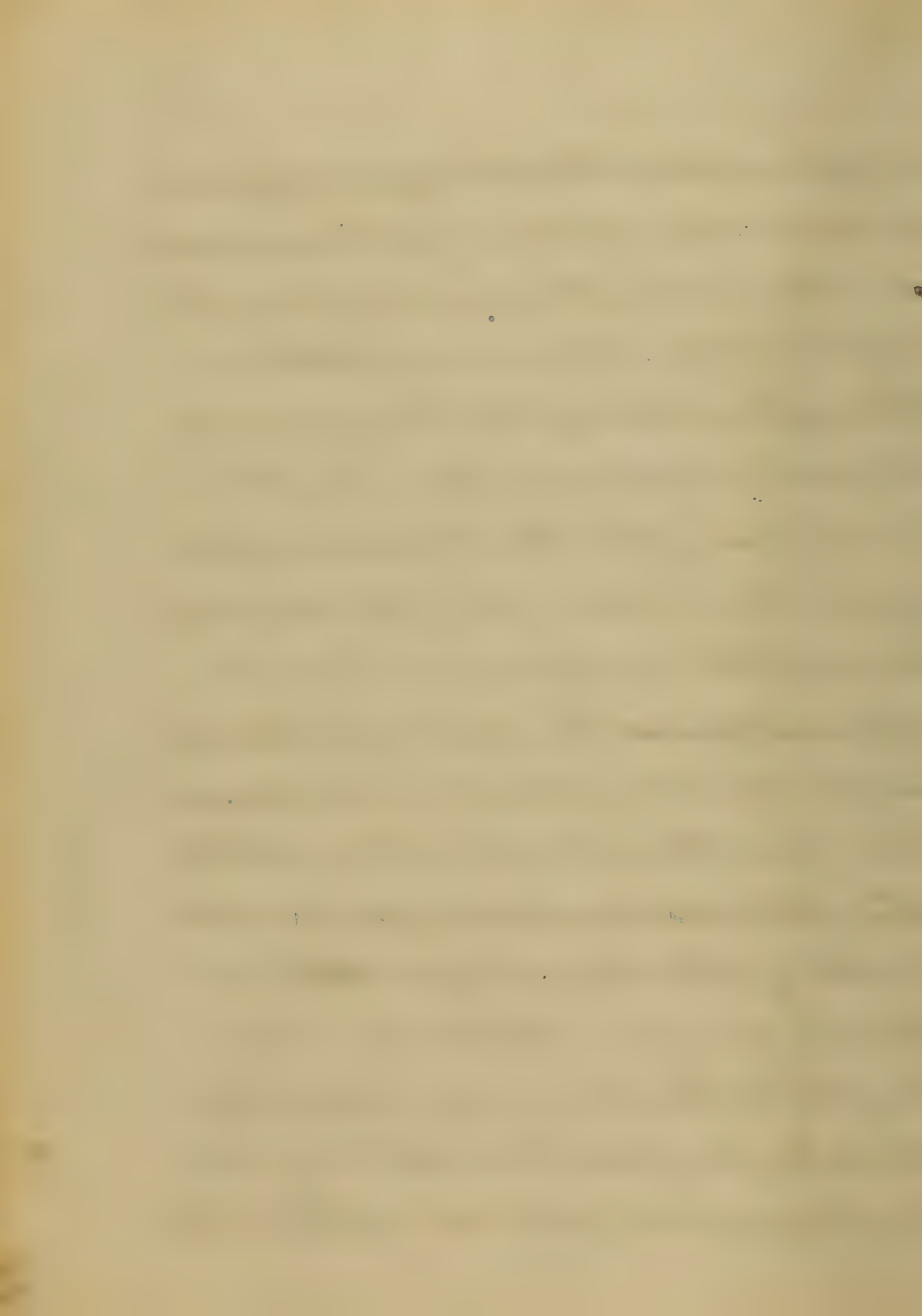
It is most commonly felt on a level with, or a little below, one, or other of the breasts; but, it may exist in almost any part, of the "Thoracic parieties. It is aggravated by cough; by a full inspiration; by sudden changes of posture, by pressure.

But, in pneumonia uncomplicated with pleuritis, or any other disease, there is a dull pain, or sensation of trouble, or tightness, or weight or heat on the affected side. It is, or was a

a common doctrine, that dyspnoea relates to the posture assumed by the patient; that the decubitus is on the side affected. The breathing is more impeded, when the patient lies on the sound, than on the diseased side, but, it is an admitted fact, that patients, having this disease, almost all lie upon their backs; the decubitus is dorsal. The dyspnoea is said by authors to bear a direct proportion to the extent, and degree of inflammation. But, there are many exceptions to this. On some persons, we find the inflammation of a small portion of one lung attended with great constraint, or hurry of the respiration. In others, where a much larger portion of the lung is intensely inflamed, the dyspnoea is but slight, from these facts,



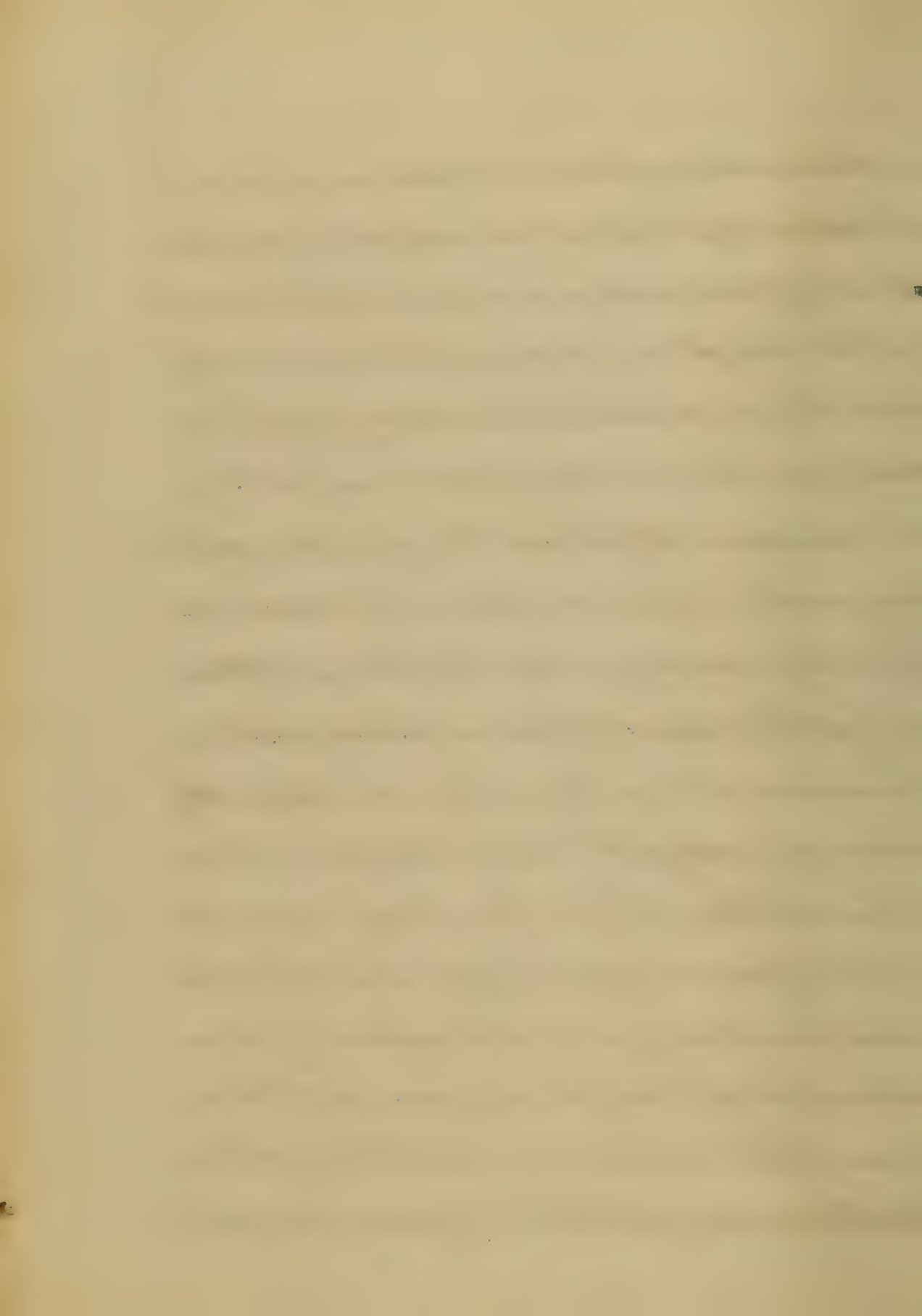
it appears clear, that, the degree of dyspnoea is not a certain evidence of the seriousness, or, rather of the extent and degree of the inflammation. Pneumonia seated in the superior lobe of the lung gives rise to greater dyspnoea, than would be produced, were the disease seated in the lower lobe. The dyspnoea, varies much, both in degree and kind, in different cases. In some cases, it is so slight, that, the patients are not conscious of it. In others, it is so extreme, that the patient seems so occupied with breathing, that, he is regardless of all that is going on about him, he is unable to lie down; can scarcely speak; his face becomes lividly red or pale, and is expressive of the utmost



utmost anxiety; his nostrils are expanded,
his shoulders elevated, and all the muscles
which are auxiliary to the diaphragm
and intercostals, in full, and evident
action. In short, breathing is laborious this
is the sort of dyspnoea which Dr. Watson
speaks of as being characteristic of obstructive
bronchitis. When this accompanies inflam-
mation of the lungs, we may conclude says
Dr. Watson, that bronchitis is superadded to
that disease. The respiratory movements are
sometimes simply frequent, short, or shallow,
as if the air could not penetrate beyond the
primary divisions of the bronchi. The dyspnoea
of pure pneumonia, is said by Dr.
William Gairdner to be a mere accelera-
tion of the respiration; without any of the
staining inspiration observed in combination

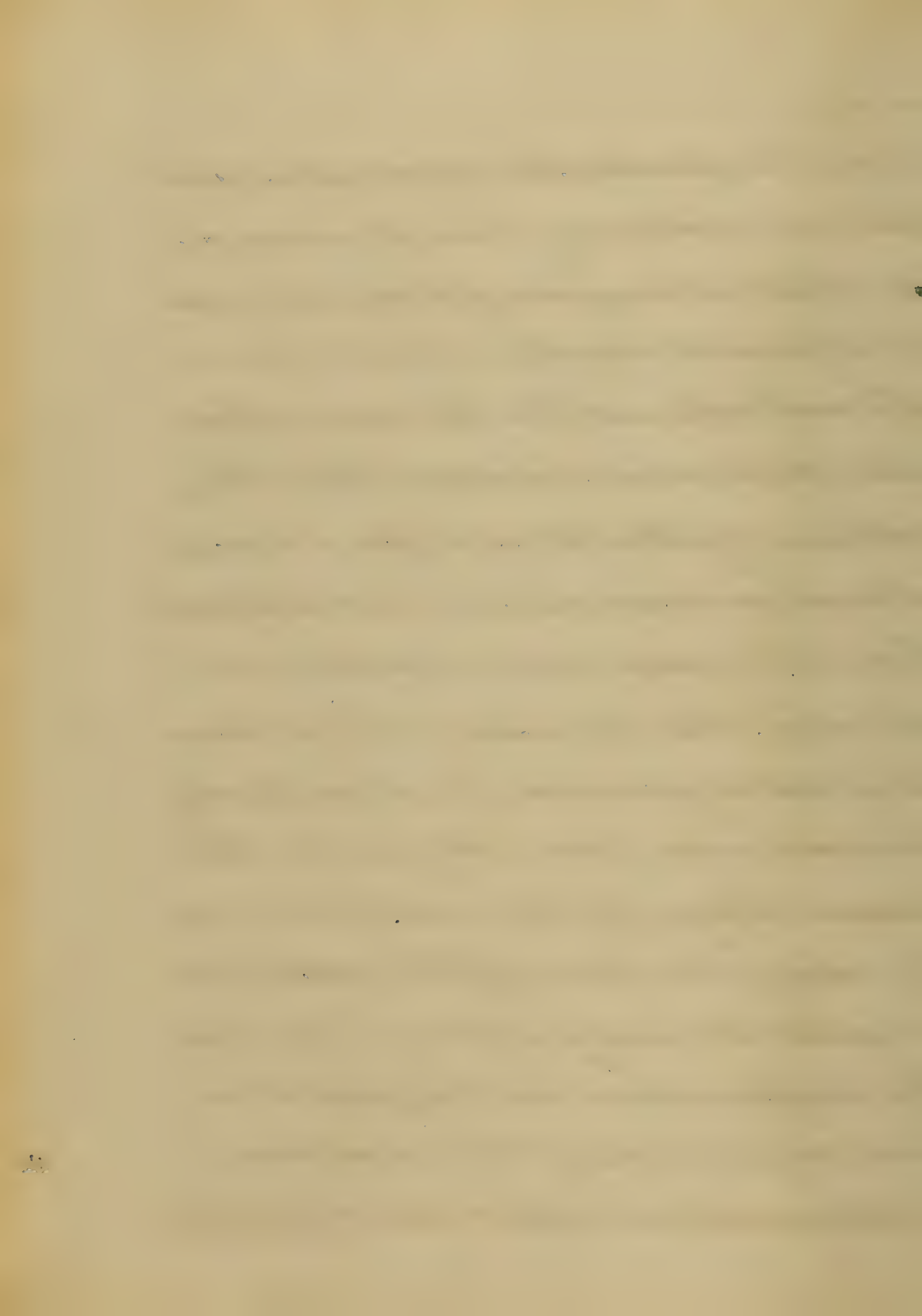
in cases where the two diseases are combined.

Dr. Watson says, that he has repeatedly seen patients affected with great extent of pneumonia in both lungs, in whom extreme lividity, and the respirations, numbering fifty, or sixty in the minute, showed infallibly, the amount, to which the functions of the lung was interfered; and who nevertheless lay quietly in bed, breathing without any of the violent effort, or the disposition to assume the erect posture, so constantly accompanying the more dangerous forms of bronchitis. In the language of Dr. Watson if this freedom from dyspnoea, and laborious breathing, be not uniformly characteristic of true pneumonia it is because that disease comparatively seldom exists, uncomplicated by some degree



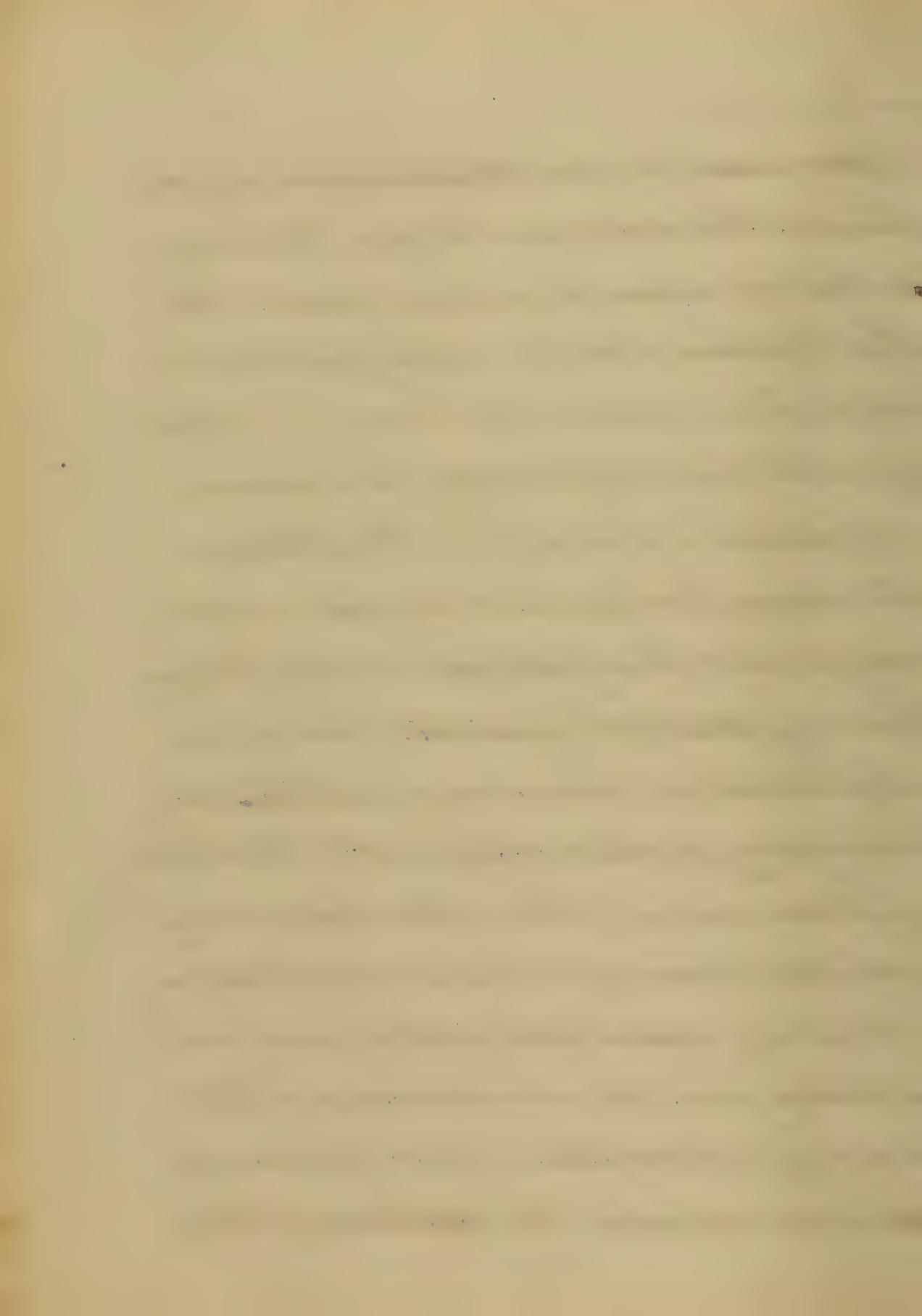
of bronchial affection. Another common symptom which frequently occurs in the course of an attack of pneumonia is delirium, and it is a very ugly symptom. It tells us that the due arterialization of the blood is largely interfered with by the pulmonary affection. It denotes, in one sense, the quantity of mischief which is going on within the thorax: and it is a direct evidence that the pectoral mischief is leaving an impression through the circulation of venous blood, upon the brain. The cough in pneumonia, is dry in the beginning, but in a short time, it is accompanied by the expectoration of rust colored sputa, which, is so characteristic of pneumonia. But we cannot say where this expectoration is wanting there is no pneumonia, but we may say,

where this characteristic expectoration exists,
there we most surely have pneumonia.
This sputa is composed of blood and mucus
amalgamated together, which assumes
of a rust color, and of a tenacious char-
acter, so tenacious, indeed, that they
adhere together so, as to form a mass,
of such a viscid nature, as not to separate
from the vessel when inverted, and -
shaken. This character of the sputa
is of vast importance to us in tracing
pneumonia from its first, to its
second stage. If this mass flows readi-
ly along the sides of the vessel when
inverted, we may so long hope that
the inflammation has not passed its
first degree: but, if the mass become
so tenacious and viscid, as not to flow



from the vessel, when inverted, or even
 shaken therefrom, we may conclude,
 with some degree of certainty that the
 inflammation has reached its second-
 degree. And, this is confirmed by the
 physical symptoms of the second-
 stage. The chest returns a duller-
 sound, when struck, the vesicular
 breathing is abolished, and its place
 occupied by bronchial respiration.
 The disease is said to be at its acme;
 and the expectoration, stands still,
 as it were, for a while. But, the
 inflammation recedes towards health,
 the sputa becomes less tenacious,
 and viscid, less red, or yellow, and
 resembles the expectoration of
 Catarrh. But, if the disease continues to

to grow worse, the characteristic sputa may con-
tinue to the end; or, in this case there may
be less expectoration, or, even more. Not,
that, I mean, that the mucus fails to be se-
creted, but, on account of its extreme tenaci-
ty, or the patient's debility, it becomes --
impossible to cohere it. It collects in
the bronchi, trachea, and larynx, in suc-
cession: and thus fills up the air passages,
and suffocates the patient. There is an
expectoration, described by authors, as
belonging particularly to the third stage
of pneumonia. It is of the consistence of
gum-water, and of a brownish red color; this
is said by Andral to be like liquorice water
or plum juice. The mere occurrence of this
kind of expectoration, is said by him to
have announced the existence of the



third stage of pneumonia, which have been confirmed by the subsequent examination of the bodies of persons, who died of this disease.

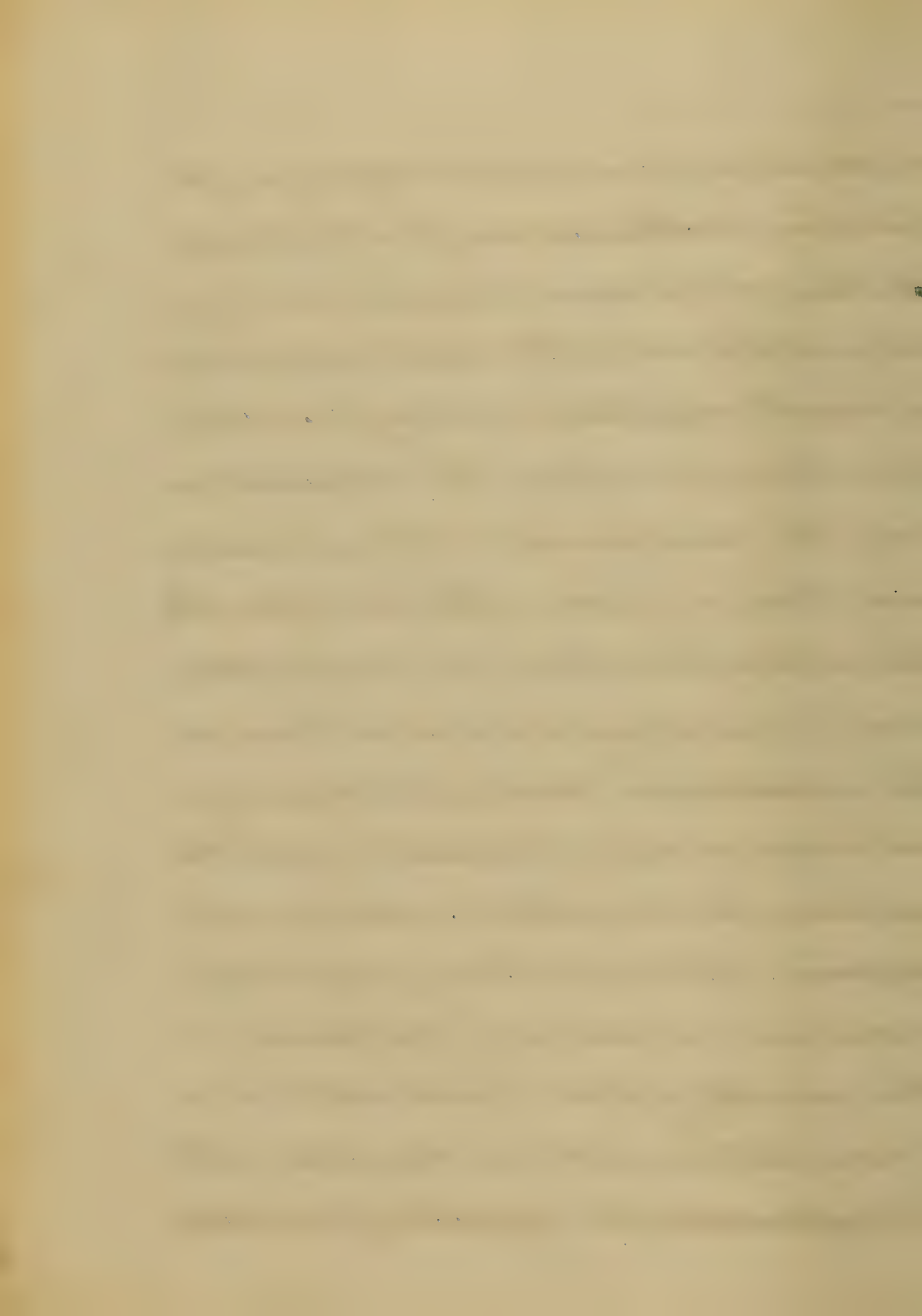
Dr Watson says in some cases, perfect Pus is excreted in the third stage of this disease.

Fever, the last of the general symptoms of pneumonia is recognized by the following symptoms, a quick pulse, premature heat of the surface of the body, with a sense of chilliness at the commencement. After describing variations,

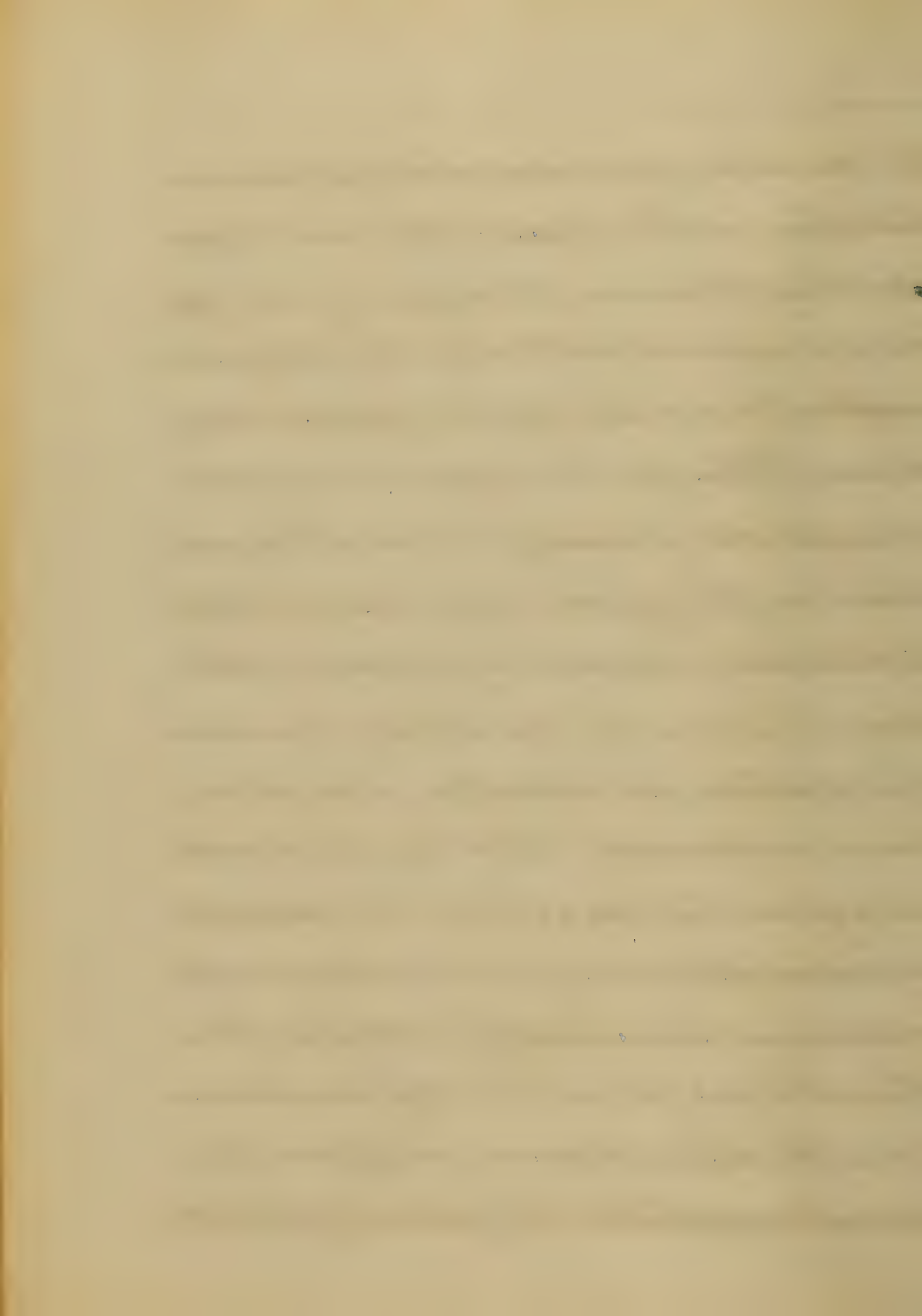
the symptoms, physical and general of pneumonia, I shall consider them together in as much they exist together and serve to confirm or correct the indications drawn from each other. In the

beginning of the first stage of pneumonia, we find pain in the side, which may,

or may not have been preceded by rigors, the
breathing constrained, cough without expecto-
ration. At the same time, we hear by ap-
plying the ear to the chest, a small degree
of minute crepitation, not sufficient, how-
ever, to mask entirely the vesicular breath-
ing. The chest sounds well on percussion;
and there is fever. After the disease ^{is} ~~exists~~
for a short time, two, or three days more com-
monly, new symptoms present themselves.
The expectoration, which in the beginning
was absent, or merely catarrhal, begins to
assume its characteristic color and con-
sistence. It is at first only moderately
viscid, and its color is in proportion to
the quantity of blood it contains. The minu-
te crepitation continues to increase until
it supercedes the respiratory murmur,

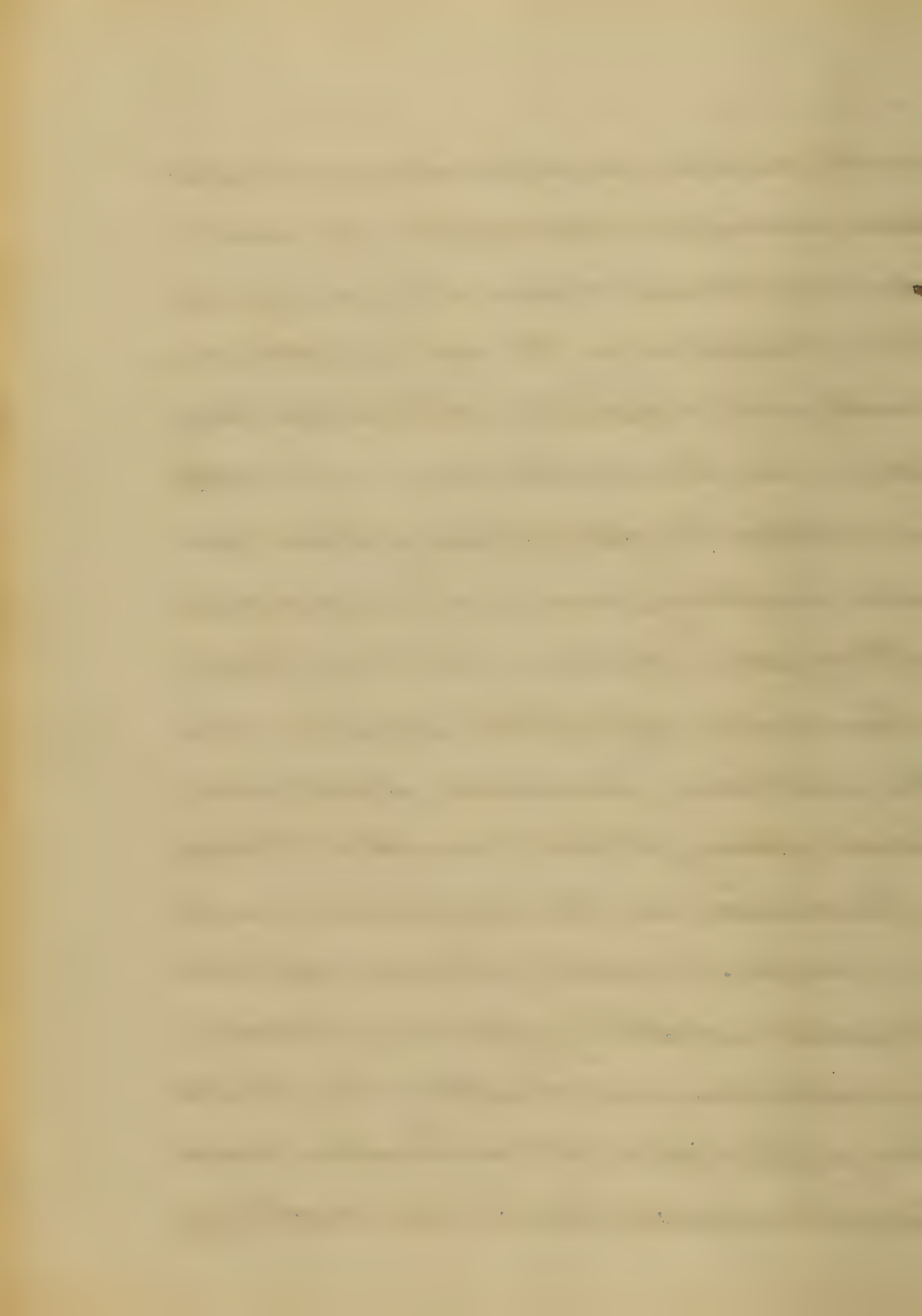


The sound on percussion becomes less, and less clear on the diseased side, and the pain less sharp than in the beginning. The dyspnoea augments, as the short, and frequent inspirations made by the patient, clearly show. If the pain be acute, as in cases complicated with pleurisy, the patient is unable to lie on the affected side, because, the pain is naturally increased by pressure, neither can he lie on the sound side, because, in that position, his respiration becomes so much embarrassed, that, he lies almost always, on his back. Here the disease often remains stationary for a while, and then recedes, and terminates by resolution. When this is the case, we find the dyspnoea diminished, the dulness of sound disappears, the minute crepitation is gradually dispelled,

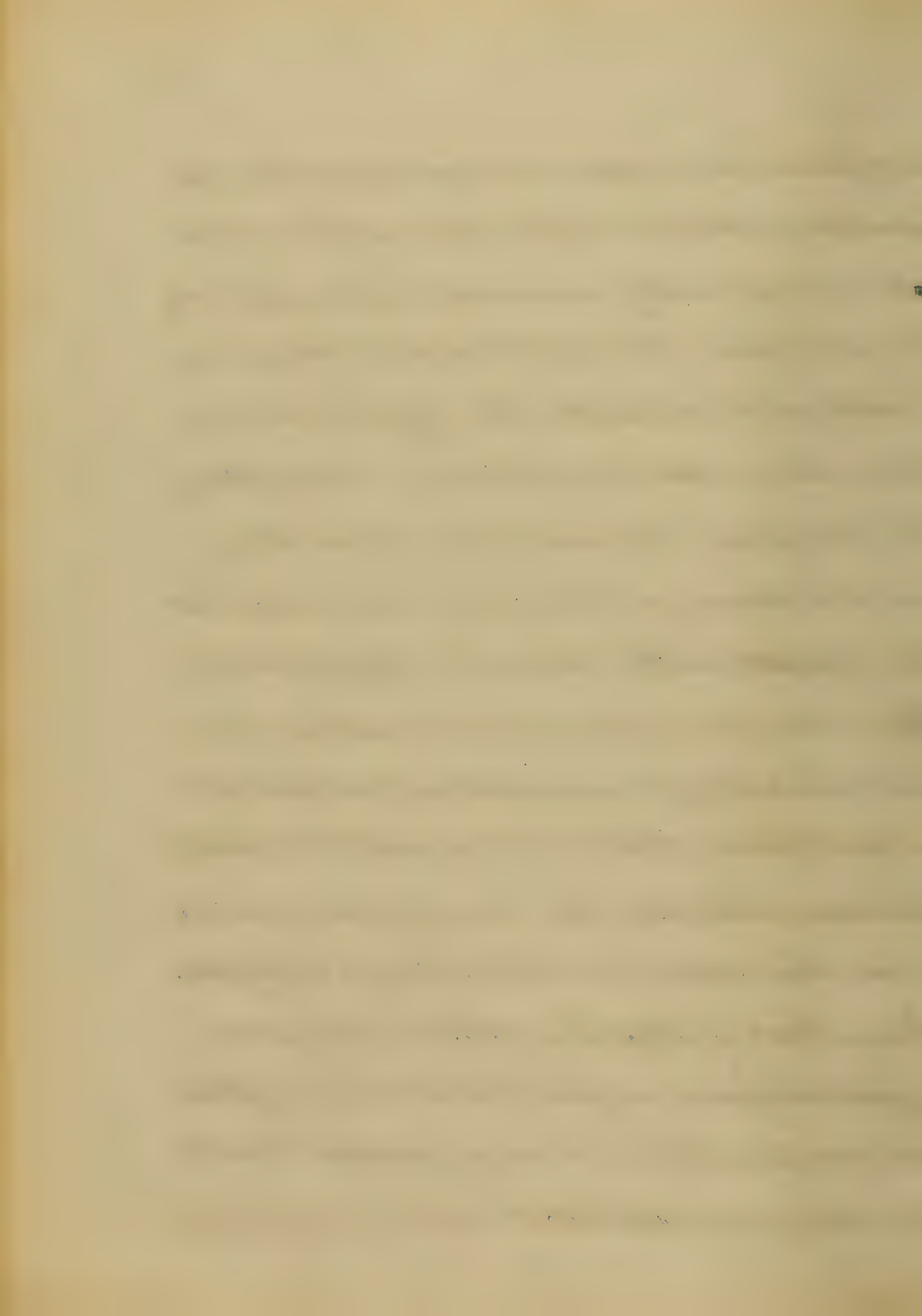


by the natural respiratory murmur, the sputa
become those of simple bronchitis, the fever
subsides, and it finally terminates in health.
But, at other times, instead of retrograding towards
health, we find the pneumonia becomes
more extreme, and may even terminate
fatally without passing beyond this, its
primary stage. But, medical authors
tell us that this is unusual. If, in
the first stage of pneumonia does not
terminate in resolution, and its sympt-
oms, continue to grow worse, it generally
gives place to the second stage, which
we know to exist, by its characteristic
symptoms. The breathing becomes more
constrained, & short, accelerated than during
the first stage, the voice becomes less free,
the patient speaks in a hurried, and panting

parting manner. The sputa become so viscid, that
it can no longer be detached from the vessel, —
when inverted, and shaken, the sound given
out, by percussion on the side affected, is
decidedly dull. Crepitation still exists, though
less fine in its character, than in the outset,
and, without the admixture of pure vesic-
ular breathing; and it some times ceases
entirely, and no sound at all is heard,
or bronchial respiration is perceived in
the part, where percussion is dull, and
bronchophony is also present, at this stage
of the disease, and the decubitus continues
to be dorsal. This state of disease, either ter-
minates in death, by apnoea, or recedes
by resolution into health, when the latter
change takes place; the dulness on percus-
sion diminishes; the bronchial breathing —



disappears; a coarse kind of crepitation is heard; at first alone, afterwards mixed with the natural respiratory murmur, which is finally heard alone; the Sputa become again of a catarrhal character; the dyspnoea, and fever diminish, and finally ends entirely. The physical sounds of the third stage are the same, as those of the second; until the effused matter begins to liquify, and then, there is mucous rhonchus, but, even with the aid of auscultation, we are told by Dr. Watson, that it is impossible to determine whether the lung of our patient, is in the second, or third stage of inflammation. But, if together, with the physical signs, we find, a face exceedingly pale, and, corpse like, we may suppose that the third stage is established, and we may hence



confident of it, if the prune juice expectoration,
or puriform expectoration occur. Before -
I conclude, what I have to say, of the course
of pneumonia. I must briefly consider some
of its complications, to two of which, I have
already incidentally referred, *i. e.* to its com-
plications with bronchitis, and pleurisy.

It remains therefore for me to speak of its complication
with typhus fever, which is not only of frequent
occurrence, but also, the most dangerous of its com-
plications; and even more so than pneumo-
nia itself. It is when pneumonia is attended
by low adynamic fever, and the inflammation
is rather of a congestive, than of an inflamma-
tory character, that this complication is said
to exist, and the patient has what is generally
denominated typhoid pneumonia. In the
mode of attack, and the general symptoms -

by which, it is ordinarily attended, there is no uniformity. It is usually ushered in by a chill, which is often of great severity and long continuance - the heat of the whole surface being to the touch much below the standard of health. The cold stage, says Dr. Condie is not unfrequently so intense as to destroy the patient, before the slightest reaction occurs. Sometimes the disease is so violent in its attack, that the patient suddenly becomes cold, and pulseless, lethargic, and often insensible without previous complaint. During the cold stage, the respiration is short, and oppressed, and a pain on one, or other side of the chest is generally complained of; pain of the head is present in most cases, and not unfrequently severe pains are felt in the back, and limbs, and other parts of the body.

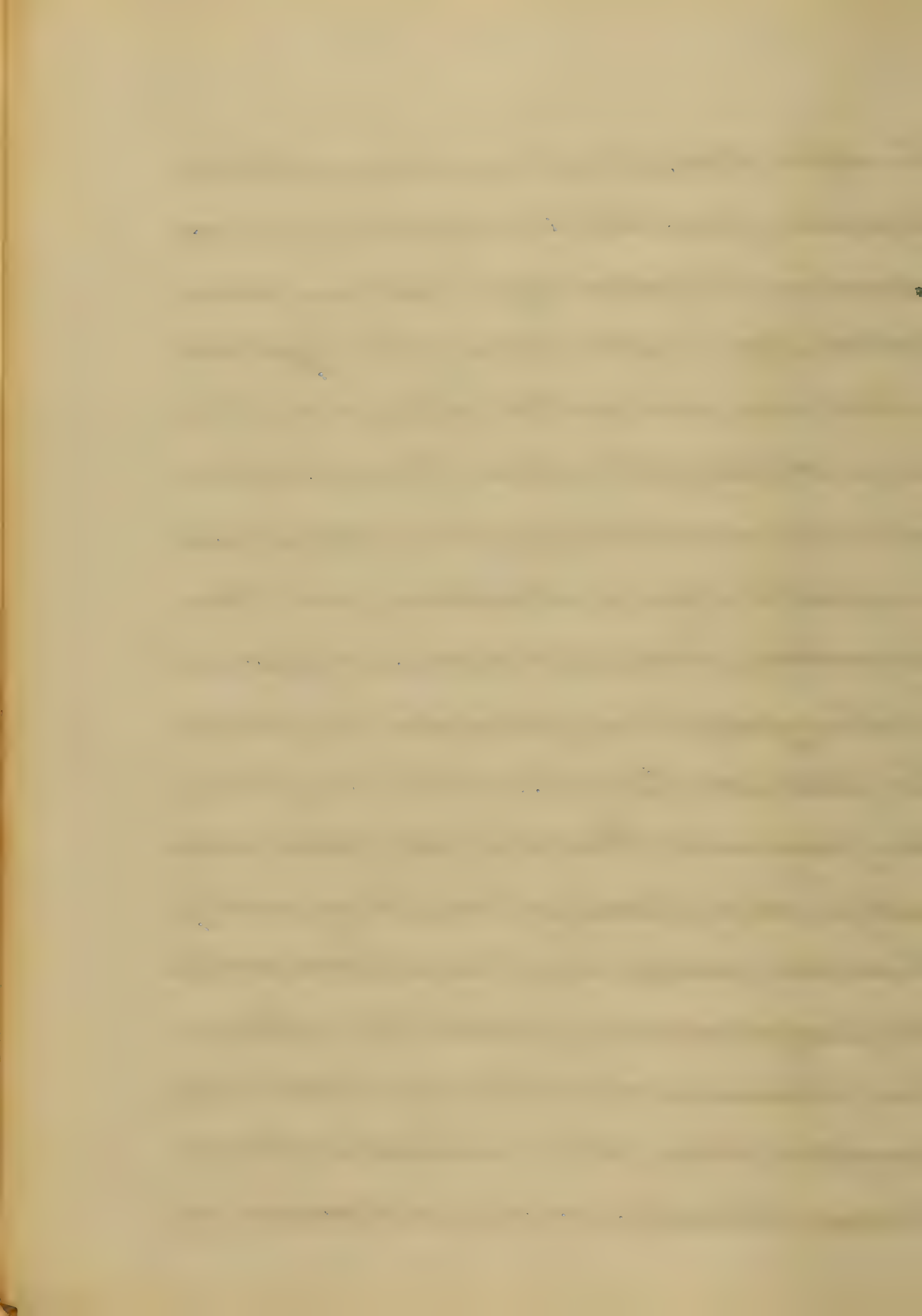
The muscular strength is greatly prostrated, and there is a sense of general uneasiness, and great restlessness. After a period longer, or shorter in different cases, but, usually protracted, reaction ensues, and the heat of the surface is restored. The heat is unequally diffused over the surface, some parts being decidedly hot, while others are comparatively cool. Occasionally, the skin becomes hot, dry, and harsh, while at other times, it is relaxed, cool, and clammy. The pulse, when reaction ensues, becomes somewhat fuller, and more quick and frequent, but, in a very few, does it acquire any degree of tension, except, in young and vigorous subjects. It most commonly is soft, and yields to the slightest pressure. During the febrile stage, the pain, oppression of the chest, and difficulty of respiration are increased.

and generally, a cough comes on within the first
twenty-four hours, by which, the pain in the
thorax is greatly aggravated. When the cough
is attended with expectoration, the pain in the
side is considerably relieved, and the oppression
of respiration diminished. When the cough
continues dry, or the expectoration is slight,—
all the more serious symptoms become aggra-
vated. The matter expectorated, is a thick, tena-
cious mucus, often tinged with blood, but
at other times of an ash, or dark brown color.
The respiration is not only appeased, but,
hurried, and irregular. The patient's spirits
are greatly depressed, he often utters deep,
and heavy sighs, and complains, and com-
plains of a sense of weight, or of constriction
at the p^{re}cordia, he is often affected with
nausea, and occasionally with vomiting.

The tongue in the first period of the disease is often clean, but red, particularly at its edges;— in other cases, and perhaps most commonly, it is thickly coated with a yellowish mucus,— which, in the progress of the disease, changes to a dark brown, it becoming at the same time, dry, hard, and rough, often chapped. When, this crust separates, however, the tongue presents not unfrequently a bright red— colour, which occasionally pervades the fauces also. Where, there is much pain of the head, there also, the patient exhibits from the commencement, more, or less delirium, and great restlessness. As the disease advances, the teeth, and, the whole interior of the— mouth, become coated with a dark brown or black sordes, the breathing becomes shorter, and more oppressed, the strength more

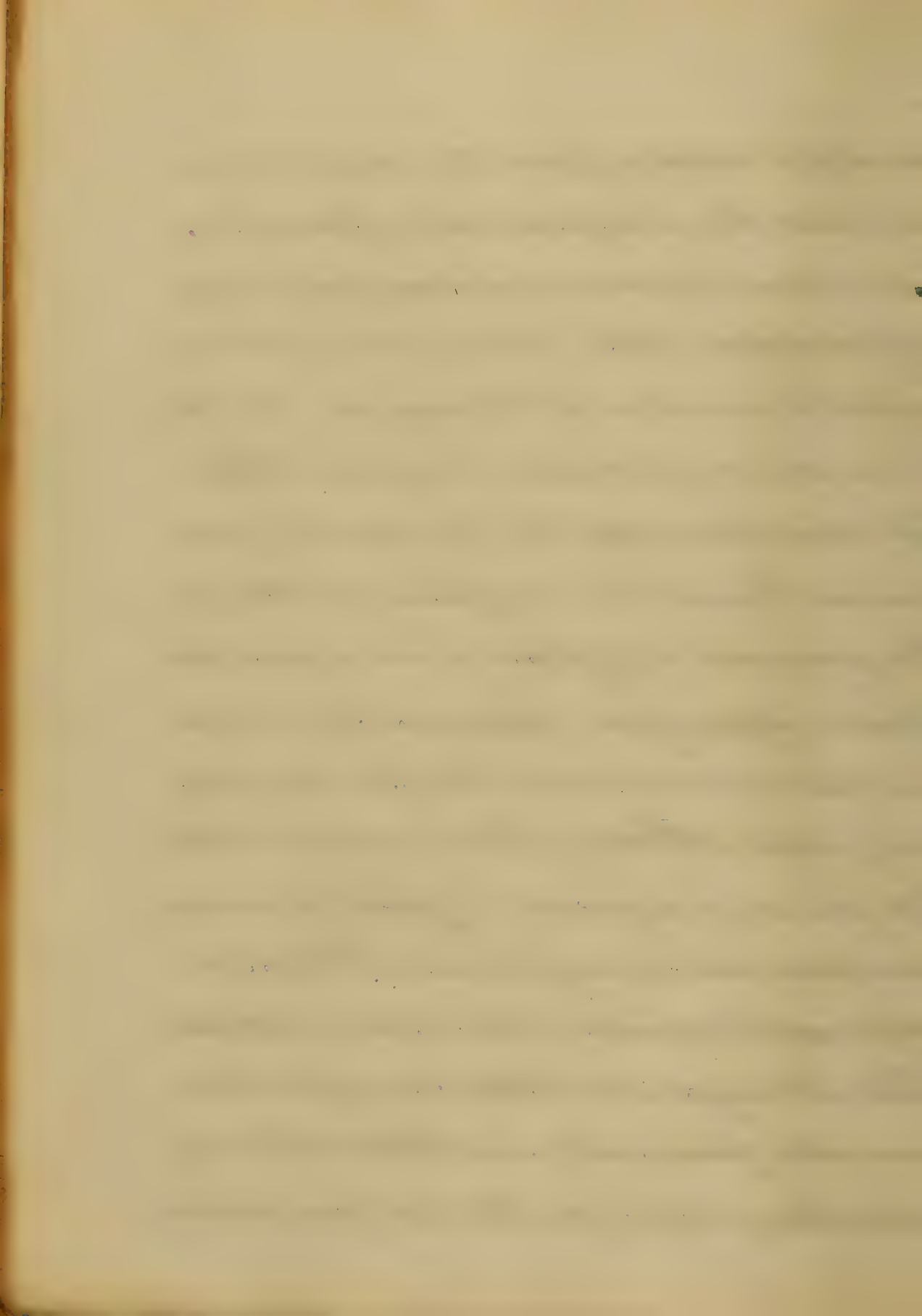
prostrated, the pulse smaller, and weaker, the patient sinks into a state of low muttering delirium, or of coma, more, or less, complete; and the fatal termination takes place, as in the ordinary cases of typhoid fever. Having considered the description of typhoid pneumonia, as is most frequently presented to the medical observer. I revert first to the consideration of the prognosis, of pneumonia, uncomplicated with other diseases, and then to that of typhoid pneumonia. On speaking of the prognosis of this disease, I can only therefore follow in the footsteps of those, who have written on the disease, and say, that the first stage is less dangerous than the second, and the second, than the third. Dr. Haller says, it sometimes depend upon the extent of

the inflammation, that, pneumonia in the first stage, and of great extent, is as severe, as pneumonia, in the second degree, but, more circumscribed. Again inflammation of the upper lobes is also more perilous, than inflammation to the same extent of the lower. The information, we derive independently of auscultation, as a prognostic sign, is ascertained from the respiration. Laboured, shallow, and frequent breathing, are all unfavourable symptoms. The pulse assists us but little, in forming the prognosis. But if a feeble pulse go along with great difficulty of breathing, and if it do not develop itself under venesection, the prognosis is unfavourable. The super-
tion of delirium is also a very discouraging symptom. Where, the characteristic sputa become, become so viscid, and tenacious as

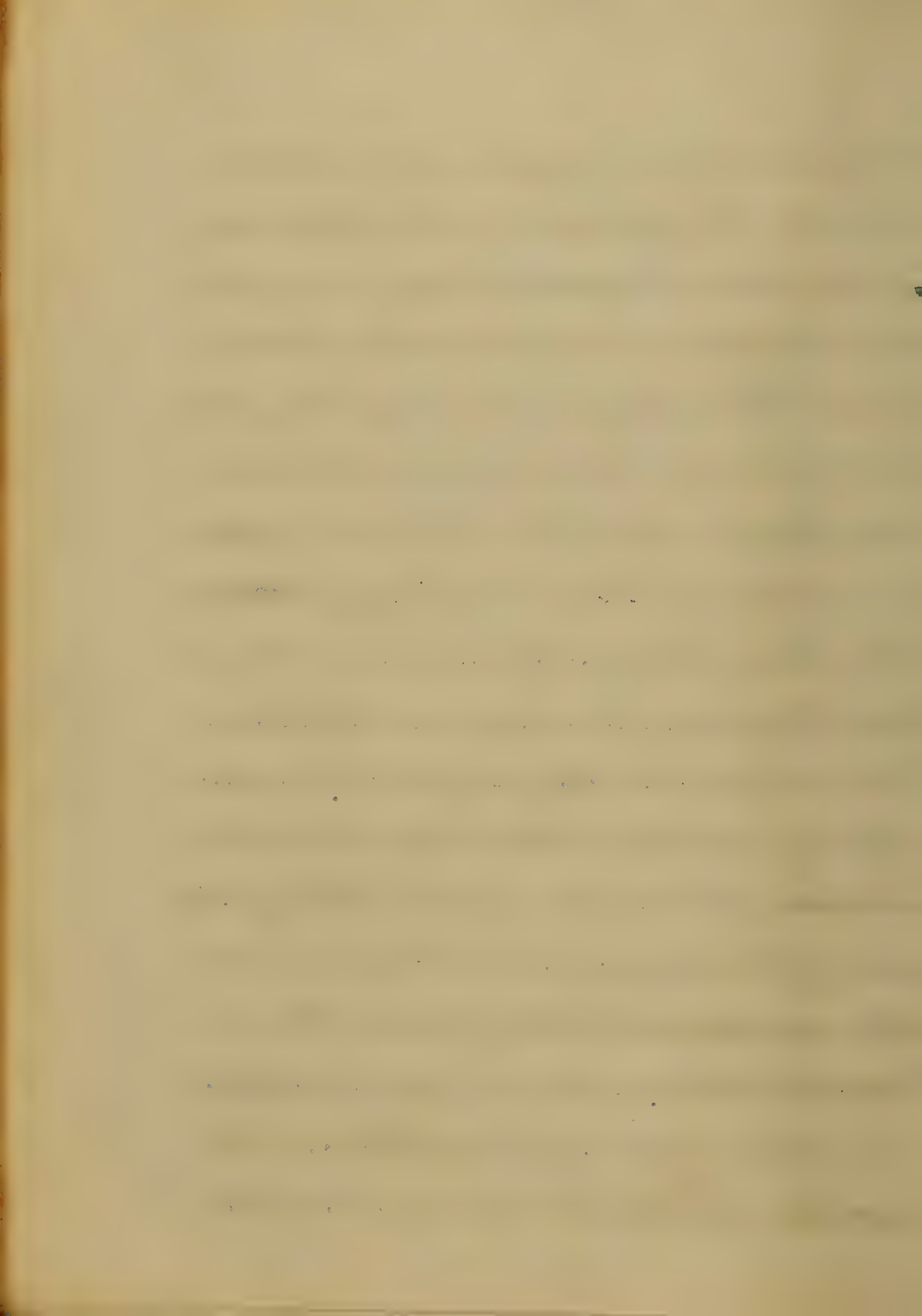


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ad, not to be detached from the vessel when inverted. the prognosis is unfavourable; and, where it assumes a brownish, watery appearance, like plum juice, we should expect supuration of the lung, and therefore, form an unfavourable prognosis. Before, I proceed to consider the treatment of pneumonia. I must take a passing notice of the prognosis of typhoid pneumonia, which should appear from Statistics to be unfavourable in most cases, though, not necessarily fatal. But, if I were asked, whether, the general prognosis of typhoid pneumonia, was favourable, or unfavourable; I should express the opinion, that it is unfavourable. Still it may, and doubtless does often terminate favourably; and I should be very unwilling to forego, the hope, and means,

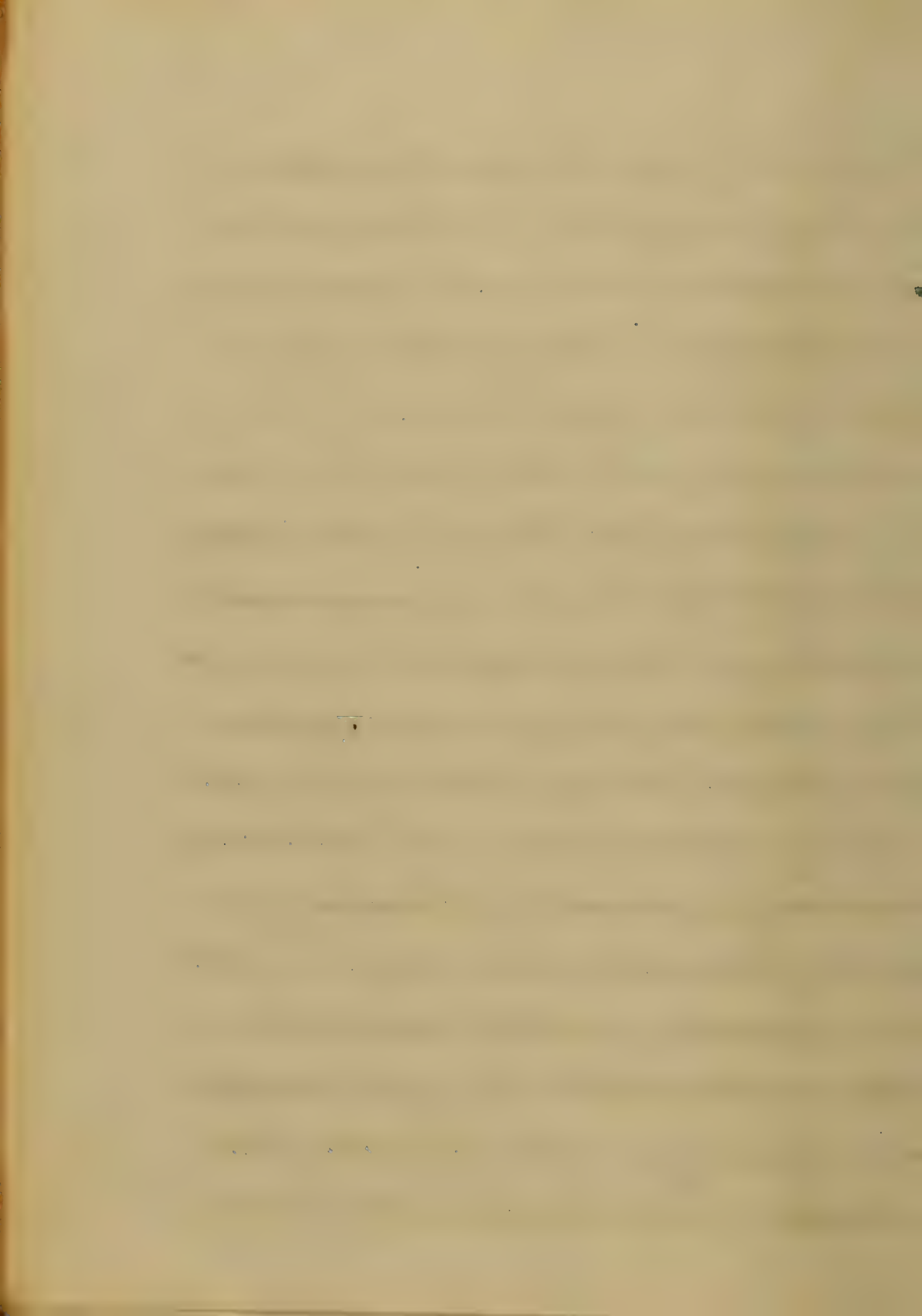


in any given case, of a favourable restoration to health. In approaching the treatment of pneumonia, a disease of immense interest, in itself, as well as its relations to other diseases. I can scarcely do more than point out the plan of treatment, which seems to me, from what I have been able to learn from medical authors, the Prof. of practice of the "University of Maryland", and other practitioners of medicine, with whom I have conversed, best qualified to insure a speedy, and safe restoration to health. Dr. Watson, & others tell us, that the different forms of pneumonia, do not require the active measures, which prior to the use of auscultation were enjoined as proper, in unmixed inflammations, of the lungs, but, he thinks the current is to be

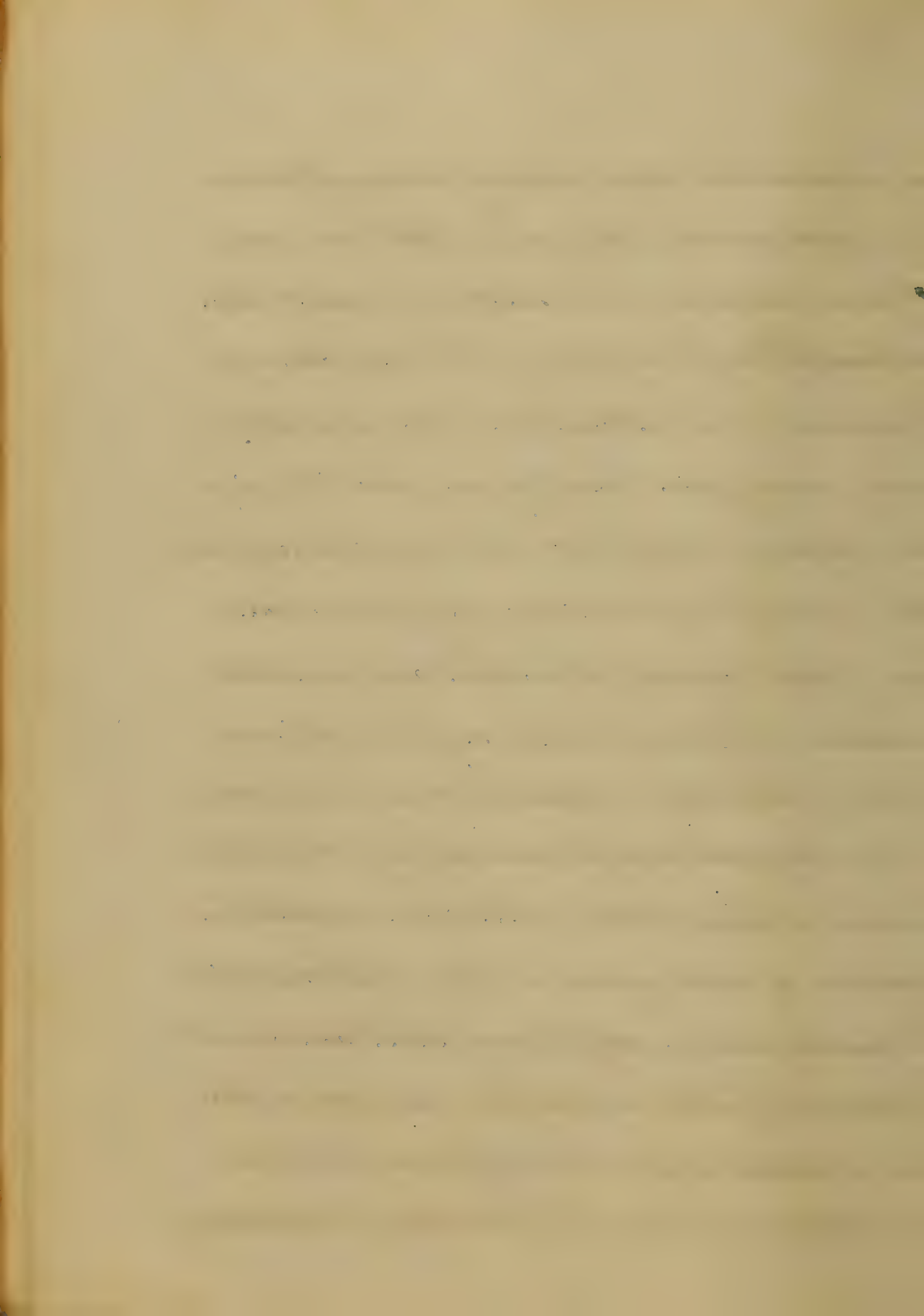


Strongly setting in the opposite direction.

Such may, or may not be the case, but Lewis has undertaken to show, that venesection has not much control over the progress, or issue of pneumonia, in any of its forms: and in our own country, the same doctrine has been adopted by Dr. Bennet, who maintains that, antiphlogistic remedies in general, and blood-letting in particular, are not only unsuitable, but even hurtful in all acute inflammations. Though, I do not profess myself a partisan of any extreme views in the matter, either theoretically, or practically; I certainly agree with Dr. Watson, and others, in opinion, that this is a mistake, and that venesection and tartar emetic are still the proper remedies, for the beginning of those flagrant forms of thoracic inflammation with which.



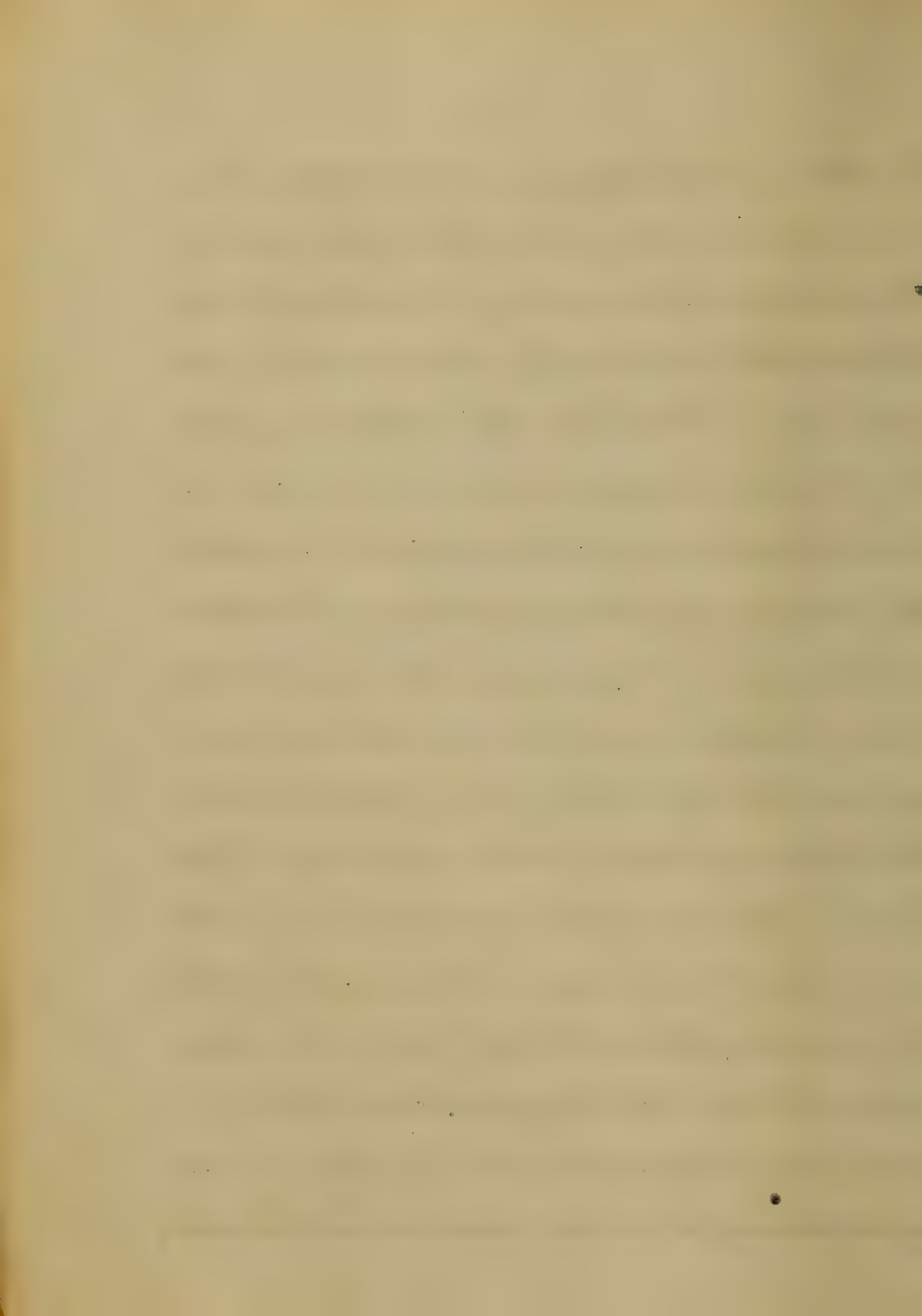
our predecessors were dealing when of the basis of experience, they put these remedies in force not only, but recommended them to others. If in the beginning of the first stage of pneumonia, in a patient, who was previously young, strong, and healthy, we find the physical signs of that stage well marked, conjoined with high fever, a hot and dry skin, a hard-firm pulse, pain of the chest, and restricted breathing. I should bleed my patient, and not only, as I believe without doing him harm, but to his great benefit and safety. And I should continue to take blood, until some sensible impression is made upon the symptoms; until the pulse become softer, or if contracted, until it becomes fuller, until the painful constriction is abated, and the dyspnoea relieved. And I should repeat the bleeding, or not accor.



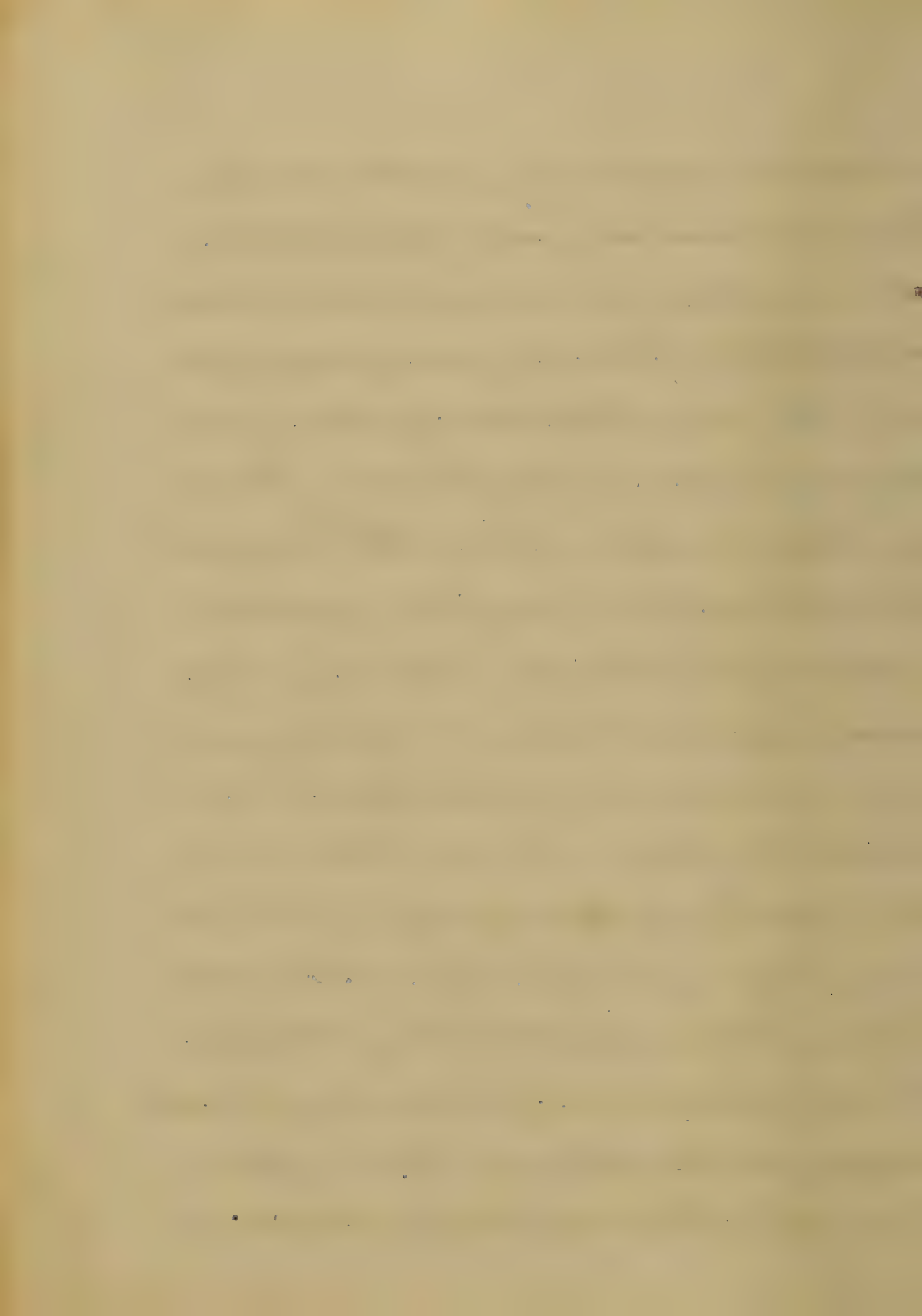
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according to the subsequent progress, and aspect,
of the case. And, I should, as an auxiliary to the lancet
etc. or, in less severe cases, as a substitute for it,
abstract blood from the surface of the chest,
by means of cups, or leeches. And, though pneu-
monia of a sthenic, and inflammatory-
character, has become comparatively rare,
among us, so rare, indeed, as to have lead-
some practitioners of medicine to the belief,
that, general blood-letting is never necessary;
in the treatment of pneumonia. But, I suppose,
they only intend to include those forms of
the disease, which have occurred to them, and
they probably were more of a congestive,
than inflammatory character. But, when
the inflammation has passed beyond the
first stage, and advanced into the second.
Dr. Watson, says, that blood-letting fails to have

any direct influence upon the inflamed, and solid parts, but, nevertheless, if duly moderated, and under the guidance of the constitutional symptoms, it may even be serviceable, at this period, by diminishing the force of the heart, and arteries, and thus tending to prevent the extension of the inflammatory process, by lessening the whole quantity of blood, circulating through those portions of the lung, which are still pervious, and thus relieving dyspnoea, and in this way putting the system at large, into the condition most favourable for the reabsorption of the lymph, by which, the air tubes, and vesicles of the affected parts, - have been blocked up. But, in most cases of pneumonia, as they now occur, they are either seen too late, or are of such a character, as not to be benefited in the least. -

but, rather, aggravated by general blood-letting, but, -
even in cases, where general blood-letting is in-
admissible, we can not only resort to local de-
pletion with impunity, but, with manifest
advantage. But, when the abstraction of blood
is no longer expedient, or has been inexpedient,
from the first, we have two remedies, in which,
to repose our trust; and those are, tartarised
antimony, and mercury. The tartar emetic
plan, I believe with Dr Watson to be best-
adapted to the stage of engorgement, -
and the mercurial plan to that of repa-
rization. Tartar emetic is not given in this
disease, to produce vomiting, and it appears
very curious, that although given in a con-
siderable dose, its first effect is usually -
sickness, followed perhaps by purging, a
repetition of the same dose, is in the majority

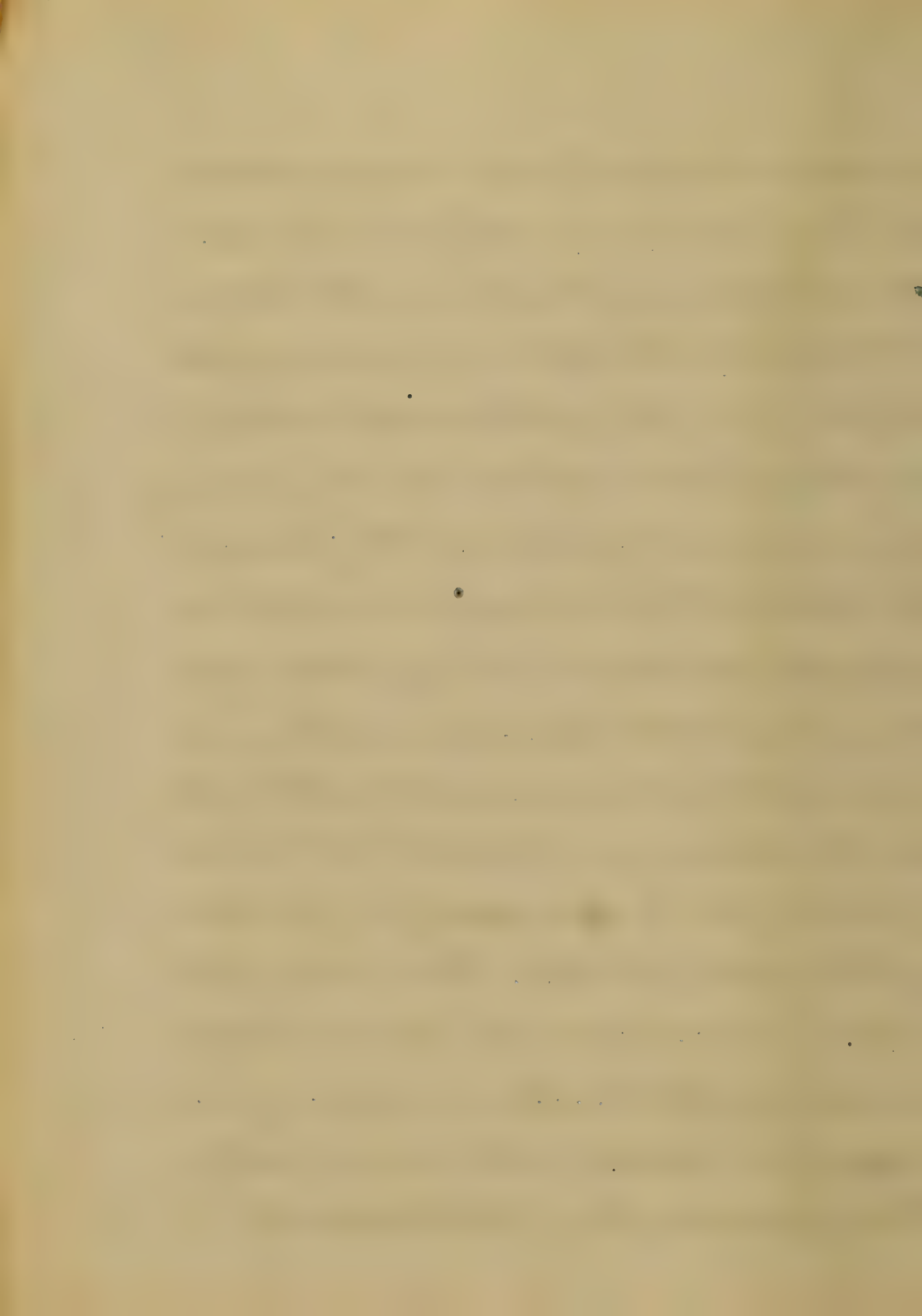


of cases some, without any further vomiting.
It does not vomit some patients at all, others -
it vomits, two or three times, and then tolerance
is established. If vomiting and purging go
on, they may be checked by adding a few
drops of laudanum to each dose. I should
give tartar emetic in this disease, ^{at first} in doses
of one third of a grain every hour, gradually,
increasing the the dose, according to cir-
cumstances, until, as much, as two grains,
were reached hourly; but, should not
exceed two grains. The above doses have
been continued for many days, without pro-
ducing any injurious consequences. Dr Wilson
tells us, that under this plan of treatment,
the symptoms will often undergo a marked
change, for the better, in three or four
hours, but, this is not always the case, in



in some, however, the relief is not conspicuous,
for twenty, four, or even thirty six hours.

And Dr. Wilson further tells us, that tartar-
emetic acts best, when it produces no effect,
except upon the inflammation itself, —
e. i. when it does not cause vomiting, or purg-
ing, or a general depression of the powers of
the system. It should continue its use in
appropriate doses, until dyspnoea is ce-
ased, and then discontinue its use, or
give it at longer intervals, but, if the inflam-
mation show any disposition to rekindle,
it must again be ~~repressed~~ repressed by a repetition
of the tartar emetic. When the inflam-
mation has reached the second stage,
or stage of hepatisation, mercury is
said by Dr Watson to be more worthy
of confidence than tartar emetic.



It should be given in such doses as to bring
the system as speedily under its influ-
ence as possible. I should give small doses
of Calomel repeated at short intervals, a grain
every hour, or two every two hours, or three
every three hours combined with so much
opium as may be requisite to prevent it
from running off by the bowels, and con-
tinue its use until slight stygia is
produced, as this appears to me ~~the~~ ^{the} most
certain way of accomplishing our object.

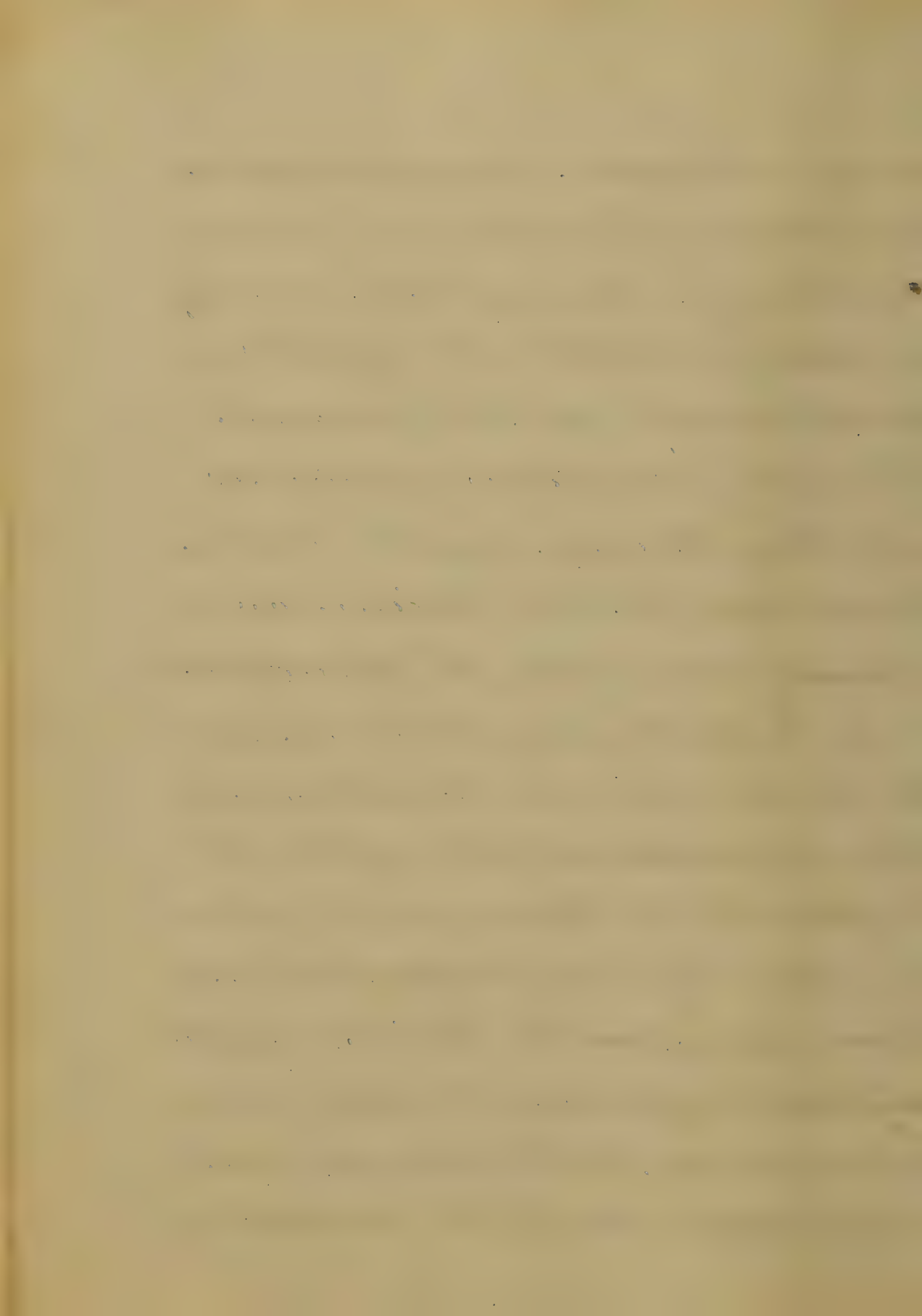
If the bowels prove irritable under the cal-
omel, blue pill, or the hydrargyrum cum
creta may be substituted for it with advantage,
and if the internal use of mercury be any how
contra-indicated; or if slow in producing its
effects, the linimentum hydrargyri may be
moved in, or the strong mercurial ointment.

And, if the inflamed lung has become solid,
and impermeable, we must still regulate the
treatment, by the state of the general system,
rather than the actual, or presumed condition
of the lung. We still look for guidance more
to the general symptoms, than to the phys-
ical signs. If the pulse continues steady,
and firm, I should wait patiently the effect
of the mercury. But, when I observe
a pallid face, coldness of the surface, or
extremities, a tendency to delirium, and
all, a feeble, or irregular pulse proclaim-
ing that the vital powers are giving way, and
the disease is assuming, or has assumed, a
typhoid condition, I should then administer
stimulants, such, as carbonate of ammonia,
and wine, and direct the patient to reside
on milk, or beef tea. In short, I should treat

the disease according to general principles, if
inflammatory, I should resort to the antiph-
logistic mode of treatment, if of a congestive
or typhoid character, I should be governed
by the general state of the patient, and
apply my treatment accordingly.

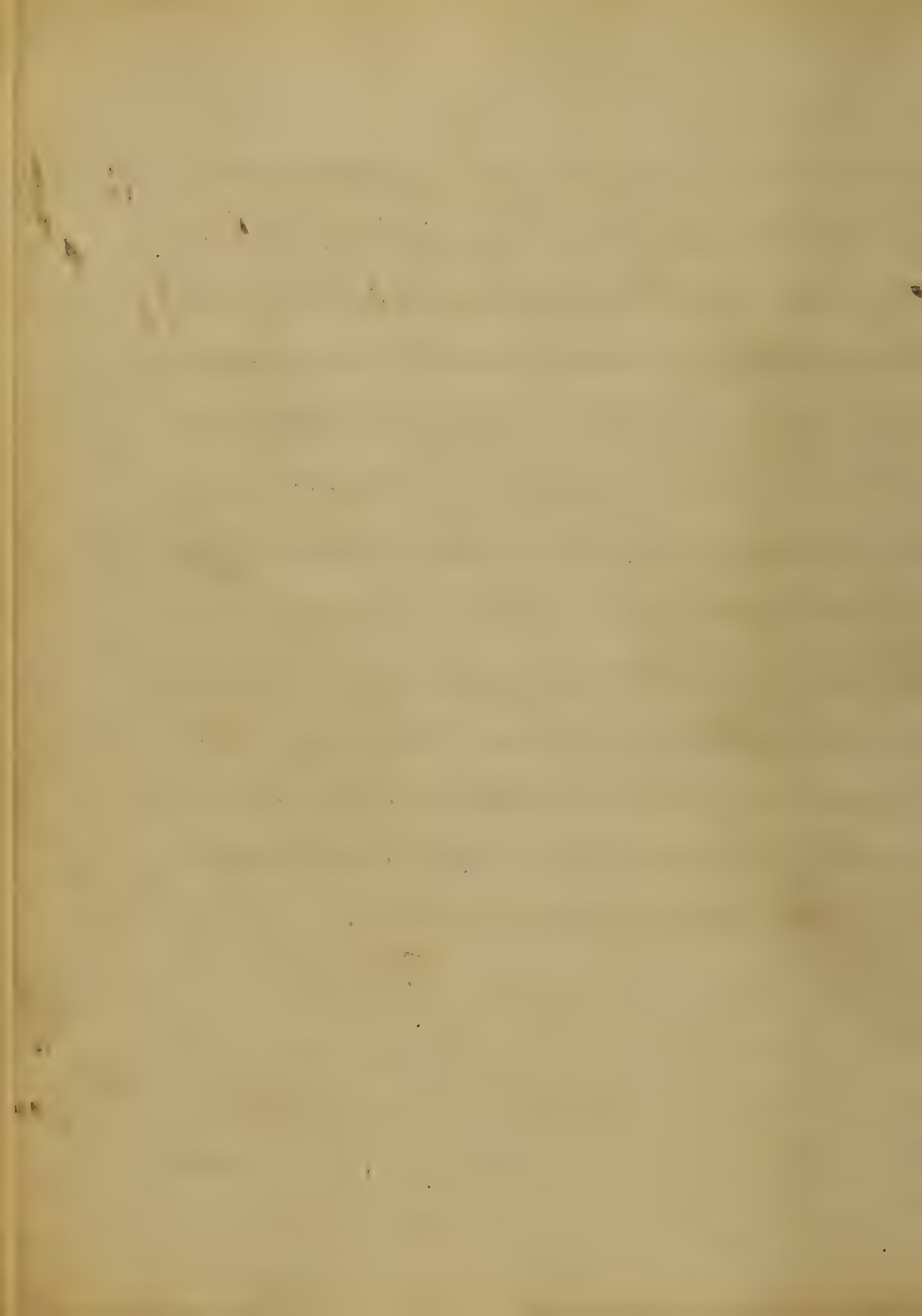
If in the beginning of typhoid pneumonia,
I should think it necessary to resort
to general blood letting, which, I think is
rarely, if ever required; I should do it with
the utmost caution; and, I believe, in every
instance, where symptoms of a typhoid
character early set in, and the loss of blood
considered advisable, it is better to apply it
to the chest, in preference to resorting to
the lancet, but, in cases marked by early
prostration, and extreme muscular debility,
I should resort at once to the Stimulant. —

plan of medication. Among the local remedies, spoken of by authors, we find counterirritation by means of blisters, and they are said by Dr. Watson, to be applied — much too early in this disease, viz. I think they are oftener applied too late, than too early, and the reason, I believe, is that the patients, are generally seen after the period spoken of by Dr. Watson has passed, viz. should the disease be seen in its outset, while there is considerable fever present. I agree with Dr. Watson on the opinion, that, they would add to the irritation, and distress the patient, and probably tend to aggravate the existing inflammation, viz. I believe in most cases, as presented to the medical —

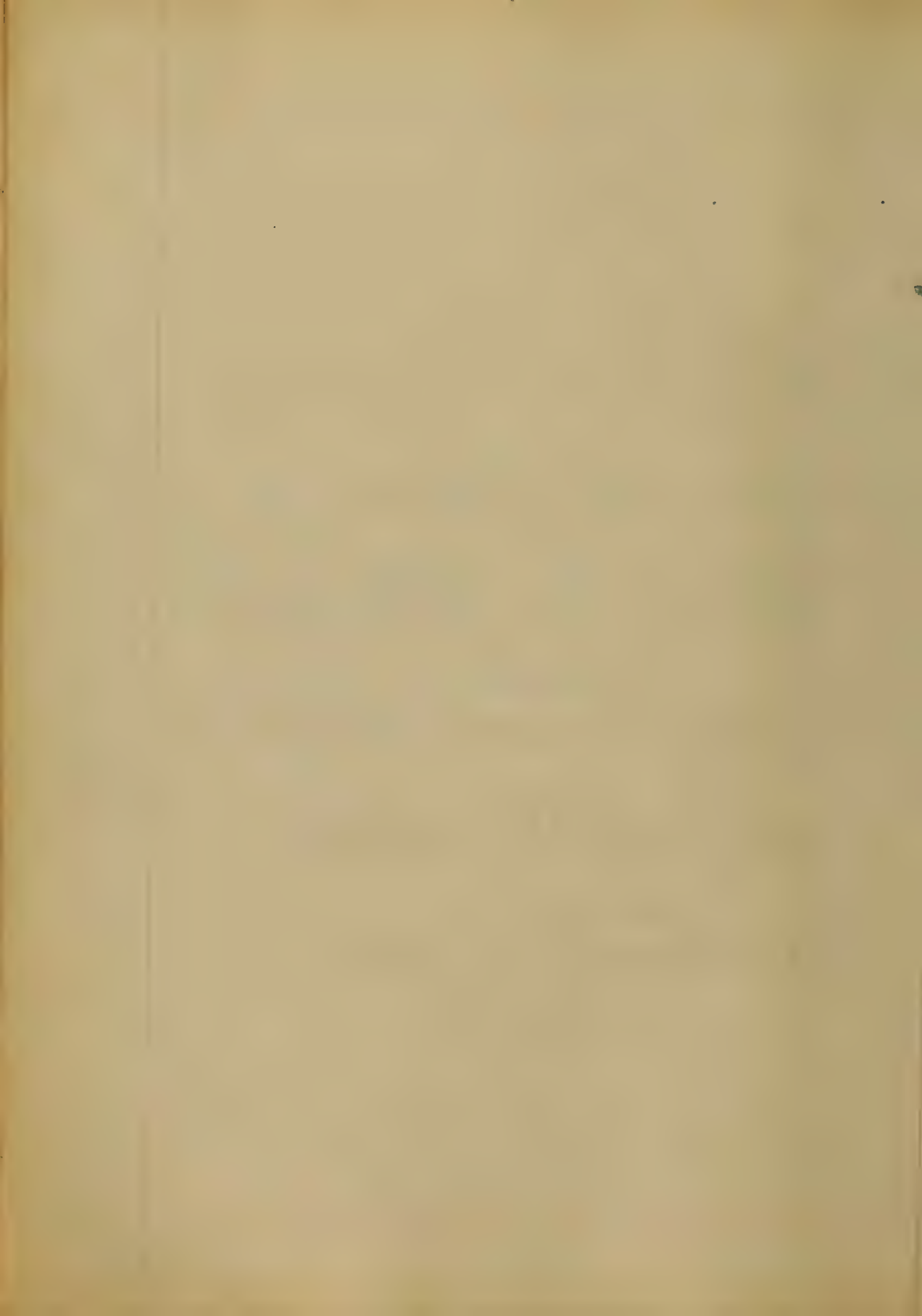


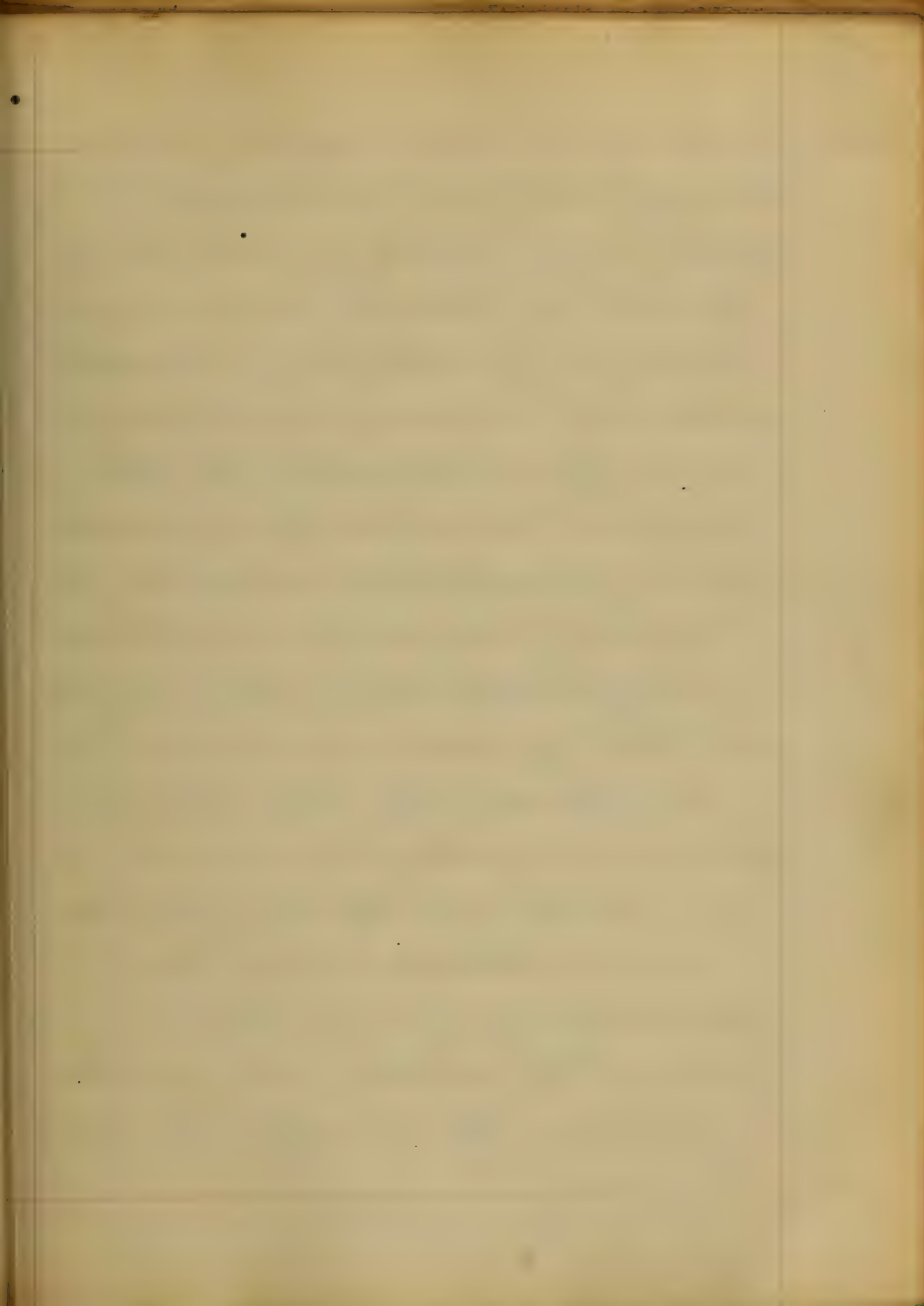
Medical observer, the fever, or the general
 condition of the patient, is not of such
 a character, as to contra-indicate the use
 of blisters. And, when, the fever is not
 so high, the skin, not so burning, ex-
 cretion difficult, and the dyspnoea
 considerable, and a sensation of pain,
 or tightness, or oppression is experienced
 in the chest, then, Dr Watson, recom-
 ends, the application of a large blister.
 And, I agree with him both as to the
 time of application, and size of the bis-
 ter. But, it is my opinion, that blister-
 ing, is too often neglected, or deferred
 by practitioners in this disease,
 especially in the typhoid variety;
 in which, they are of undoubted
 utility, from the very outset, and should,

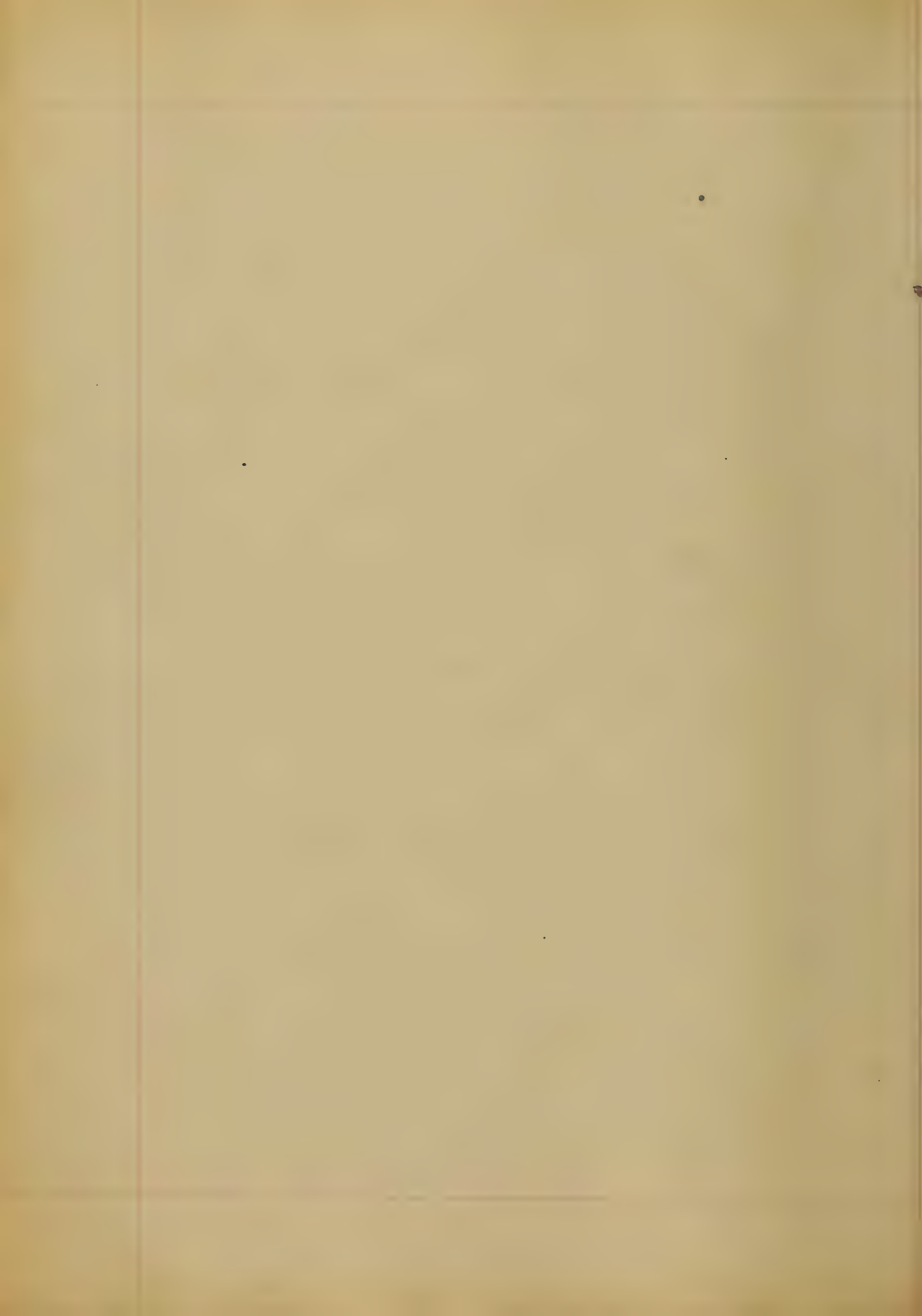
never, in my opinion, be neglected, or even
deferred too long in any of the forms
of disease, under consideration; but, should
be resorted to, as soon as the circumstances
of the case will admit, and furthermore,
I believe the number of deaths, from
this disease would be considerably
diminished, were this remedy more
generally resorted to, and earlier ap-
plied in the different forms of this
disease; in short, without it, in the
majority of cases, there is but little hope
of a favourable termination.



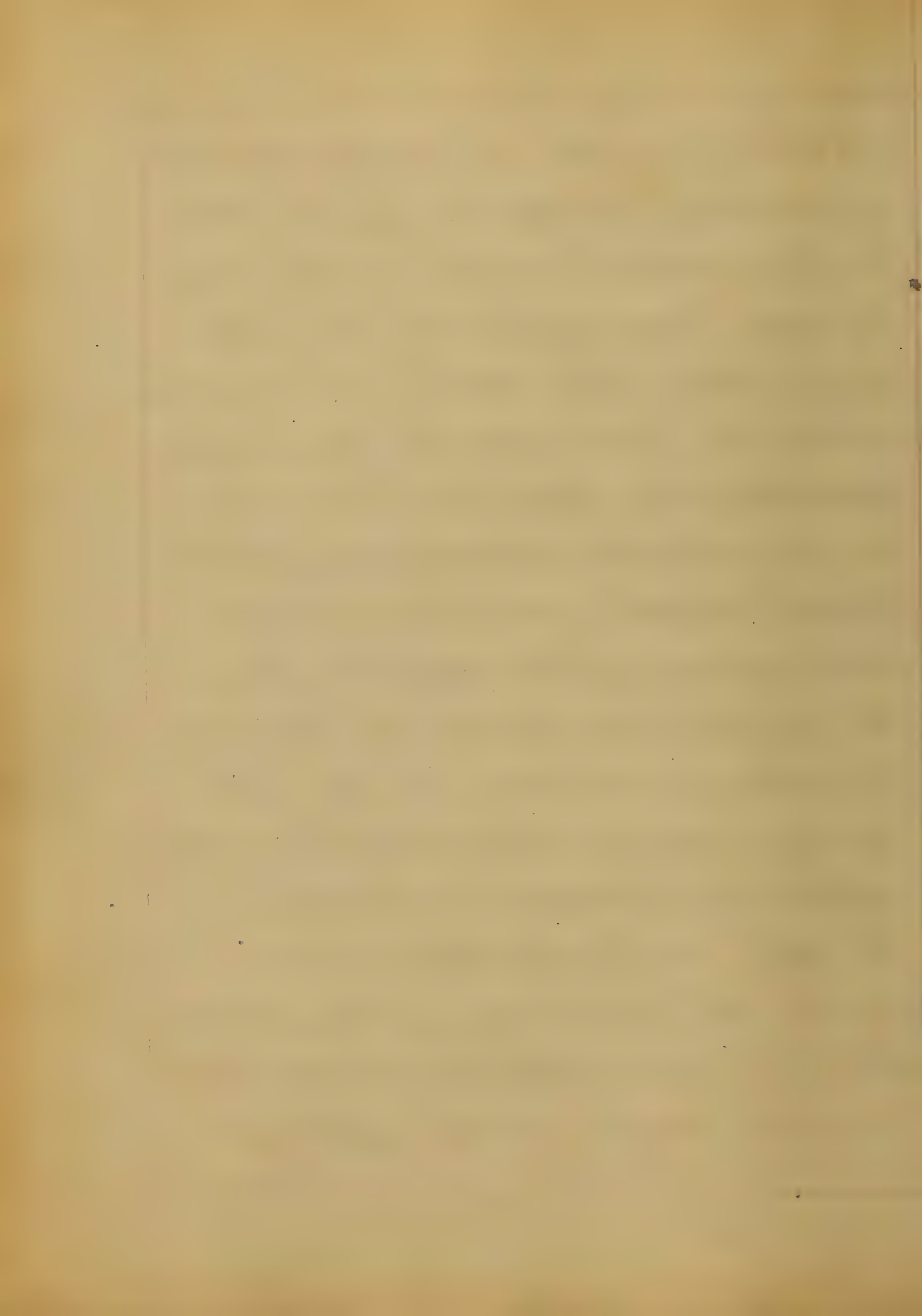
An Inaugural Dissertation
on
Intermittent Malaria
Submitted to the Faculty of the
University of Maryland
for the
Degree of Doctor of Medicine
by
David E. Keller
of
Maryland
1863



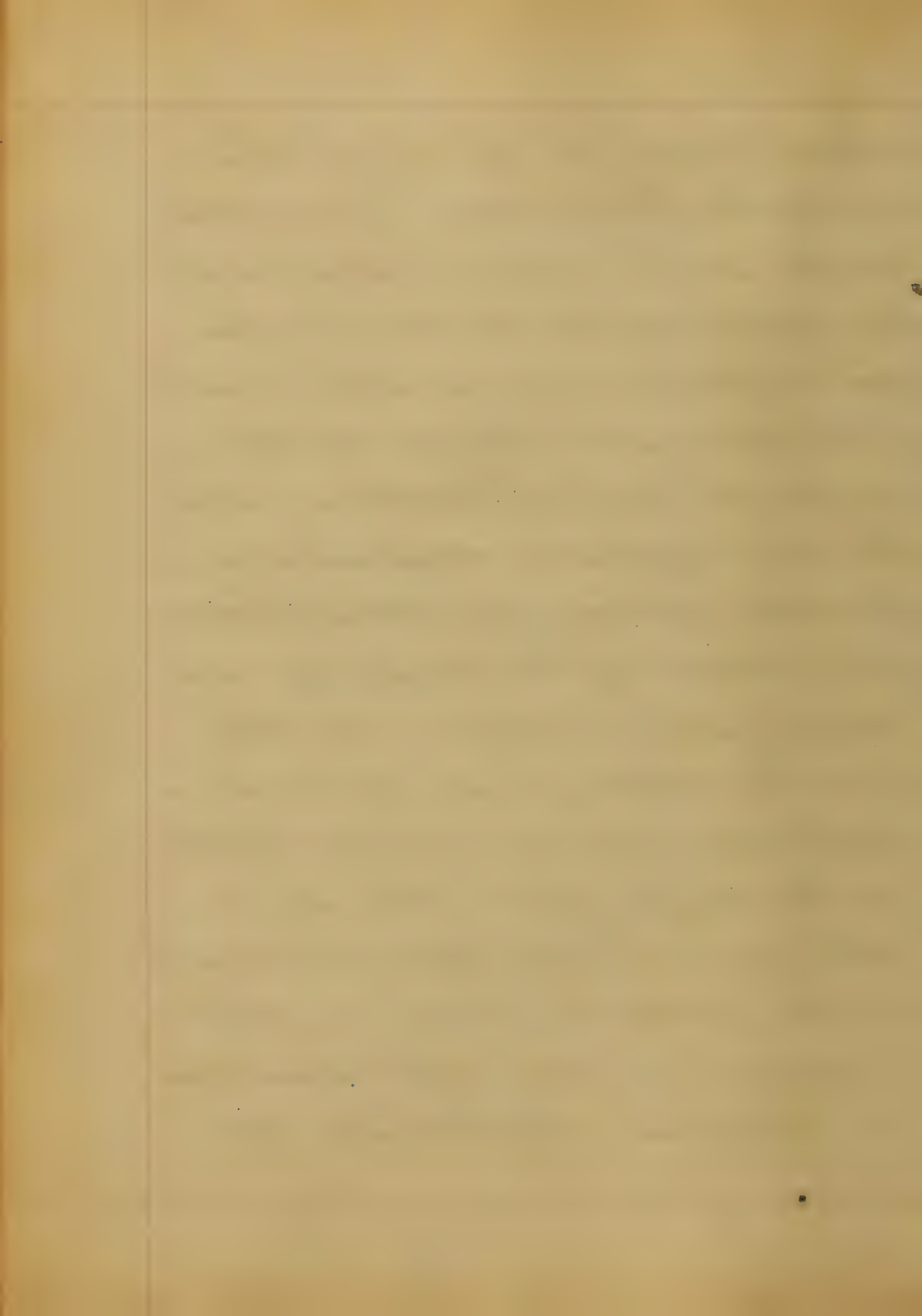




A clear, concise and true definition
of asthma is given by Dr. Walsby
in his excellent treatise on chronic
diseases; as defined by this dis-
tinguished physician it is under-
stood as "paroxysmal dyspnoea
immediately dependent on more
or less extensive obstruction of the
smaller bronchi, caused by tonic
contraction of the circular fibres,
the immediate cause of this con-
traction is in turn under all
circumstances proved innervation
affecting the trunk or branches of
the vagi or sympathetic nerves.
It is to the discovery of innervation
that we are indebted for our pre-
-sent knowledge of the important



disease, before the period of this
invaluable acquisition to medical
science such cases of dyspnoea
that could not be traced to their
real origin in organic affections
of the chest were thrown together
under the head of asthma, and
thus the dyspnoea occasioned by
pleuritic effusion, by solidification
of the tissue of the lungs, by ex-
cessive liquid secretion into the
bronchial tubes, in a word, in-
sufficient aeration of the blood
in the lungs from these and
other causes was often erroneously
deigned asthma while it was
a matter of great importance that
the distinction should have been



made, now however by scientific
means we may improve the exi-
-stence of some of these cases and
with more precision establish
Cases of the disease proper.

Asthma is certainly one
of the most painful and distressing
-ly alarming diseases with which
the human race is ever afflicted,
indeed the horrors of an asth-
-matic paroxysm far exceed
any acute bodily pain, the
feeling of impending suffocation,
the agonizing struggle for
breath of life, are so terrible
that we cannot witness without
shaming the sufferer's distress.

The approach of a paroxysm

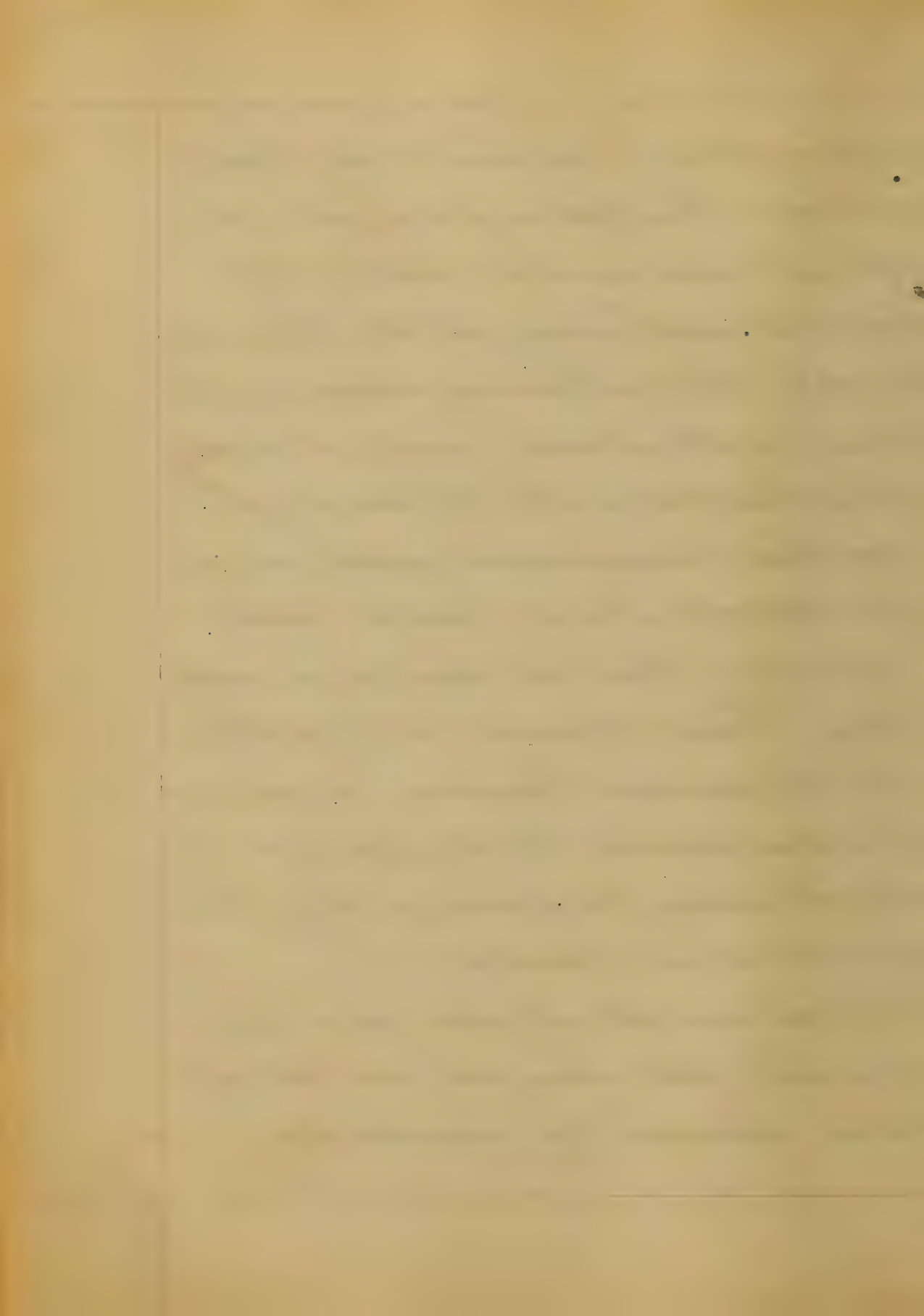
is generally preceded by a train
of warning symptoms familiar
to those who have once suffered
an attack, these are indications
of digestive disturbance, the
patient is languid and irritable,
he has headache impaired appetite
and belching of wind or it
may occur independent of these
symptoms, in either case a
sensation of discomfort and
oppression may be the imme-
-diate precursors of the fit,
most frequently we find the
patient seized during sleep,
retiring at night in an ill
and uncomfortable mood he
falls asleep, and soon or late

after midnight he is awoken
with a feeling of suffocation
or lightness about the chest, he
assumes the erect posture with
his head thrown backwards,
seizing some solid object to give
greater vigor to his efforts, or
leans his head forwards between
his hands, or places himself on
his knees and elbows. he rushes
to the window or door and puts
wildly for air, and it is
something remarkable that pa-
tients often in this way expose
themselves for hours to the coldest
temperatures without suffering
ill consequences, the skin is
covered with perspiration.

The eyes are prominent, watery,
staring and suffused, the face
flushed, livid or pale, and the
pupils dilated, the countenance
indicating almost insupportable
distress, the pulse is generally
frequent, small and irregular,
the urine in the beginning of
the attack is pale and copious
and towards the close scanty
and high colored, there is
scarcely present any cerebral dis-
turbance, the paroxysm varies
in duration from two to seven
hours when the symptoms
begin gradually to decline
and the patient falls into a
slumber, in the morning he

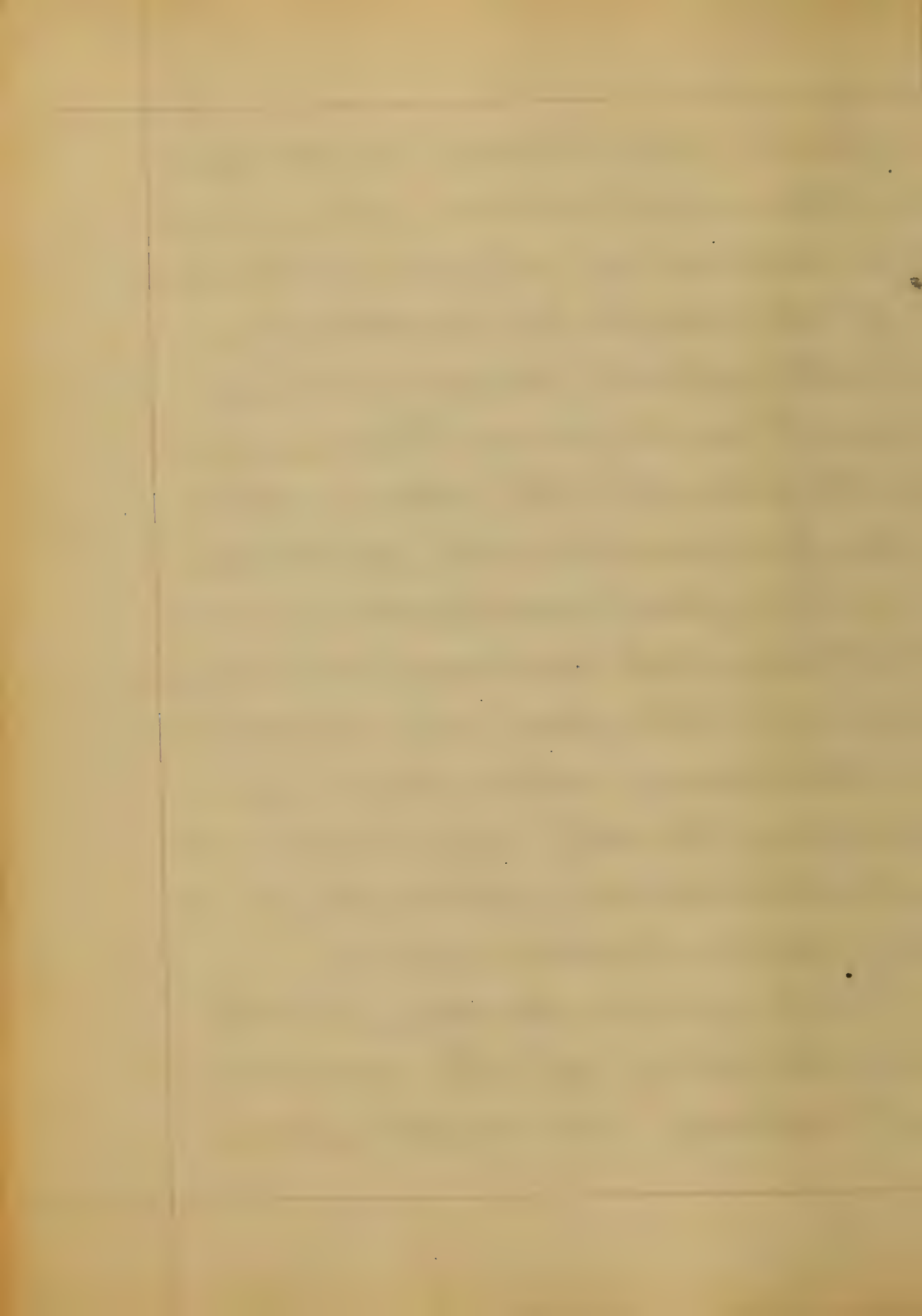
arises feeling comparatively well,
at least this feeling is not at
all in comparison with the
terrible suffering of the previous
night, the following evening he
may anticipate, and is really
disappointed with the visit of
another paroxysm and so on
for several days each suc-
ceeding less in violence until
they have ceased altogether,
there remains however a marked
predisposition to Apoplexy
which may be excited by the
most trivial causes.

The physical signs are im-
portant there may be an almost
entire absence of inspiratory



rumor but sibilant or sonorous
ranches in its place, as is usual
by observed by the great Lamm
if the patient be directed to
speak without drawing his
breath as long as he can so
as to exhaust the chest there
can be heard in the next two
or three quiet inspirations very
well marked natural respiratory
sounds this can only be heard
on temporary relaxation of
thorax, but why the process de-
scribed should effect such
relaxation is not clear.

This brings us directly to the
consideration of the nature
of a rattle in another part



of this paper it was asserted
that the phenomena depended
upon spasmodic contraction and
and to establish the truth of
this assertion the following is
submitted - we occasionally
find this condition fully develop-
ed without the existence of in-
flammation or any other disease,
the rapidity of its attack and
suddenness of its termination,
it occurs very frequently in non-
-morbid subjects it is often ex-
cited by mental emotion, it is
often promptly relieved by the
use of antispasmodic remedies,
and in the termination of cases
after death there is no action

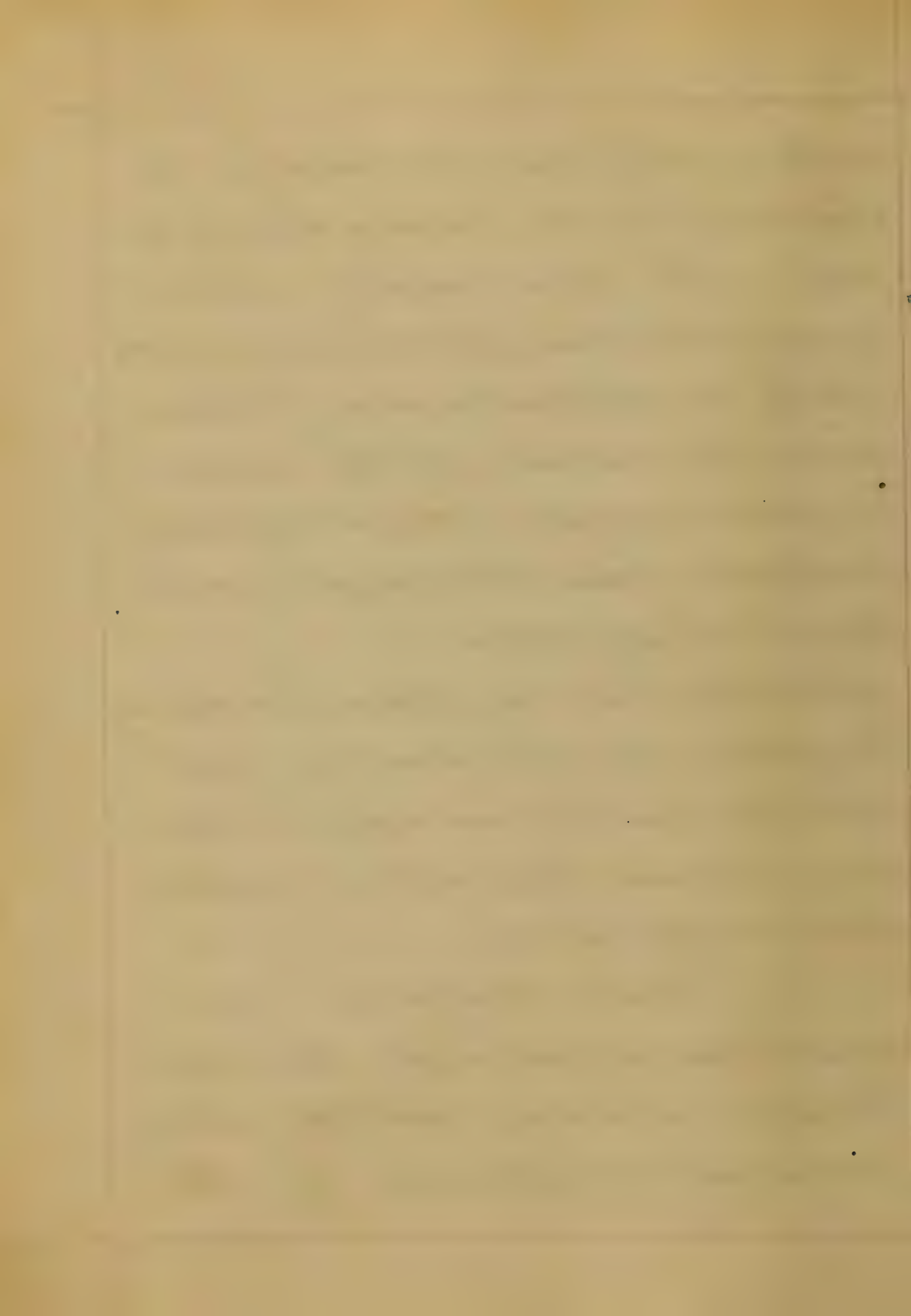
absence of traces of disease.
Of the existence in the bronchial
tubes of circular fibres or little
muscles there is no doubt - they
have been refused by Linnæus
and others. Dr. Williams who
has studied this subject well
has demonstrated by experiments
that the lungs and air tubes
are actually contractile to a
very considerable degree under
electrical chemical and me-
chanical stimuli they contract
slowly and steadily and as
soon as the stimulus is with-
-drawn gradual relaxation
follows it is asserted further
the rings of the trachea were



made visibly and distinctly to
Contract by irritations the pulmonary
-um. Now, they readily absor-
bate this beautiful tissue of path-
ology. In the contraction of these
fibres the calibre of the tubers
is diminished the air necessarily
excluded from the lungs and
hence the dyspnea.

Asthma is sometimes hereditary.
It occurs most frequently in
those persons advanced in life
and is more frequent in males
than in females.

In our diagnosis we
must bear in mind the many
Thoracic diseases which may
occasion dyspnea. By the



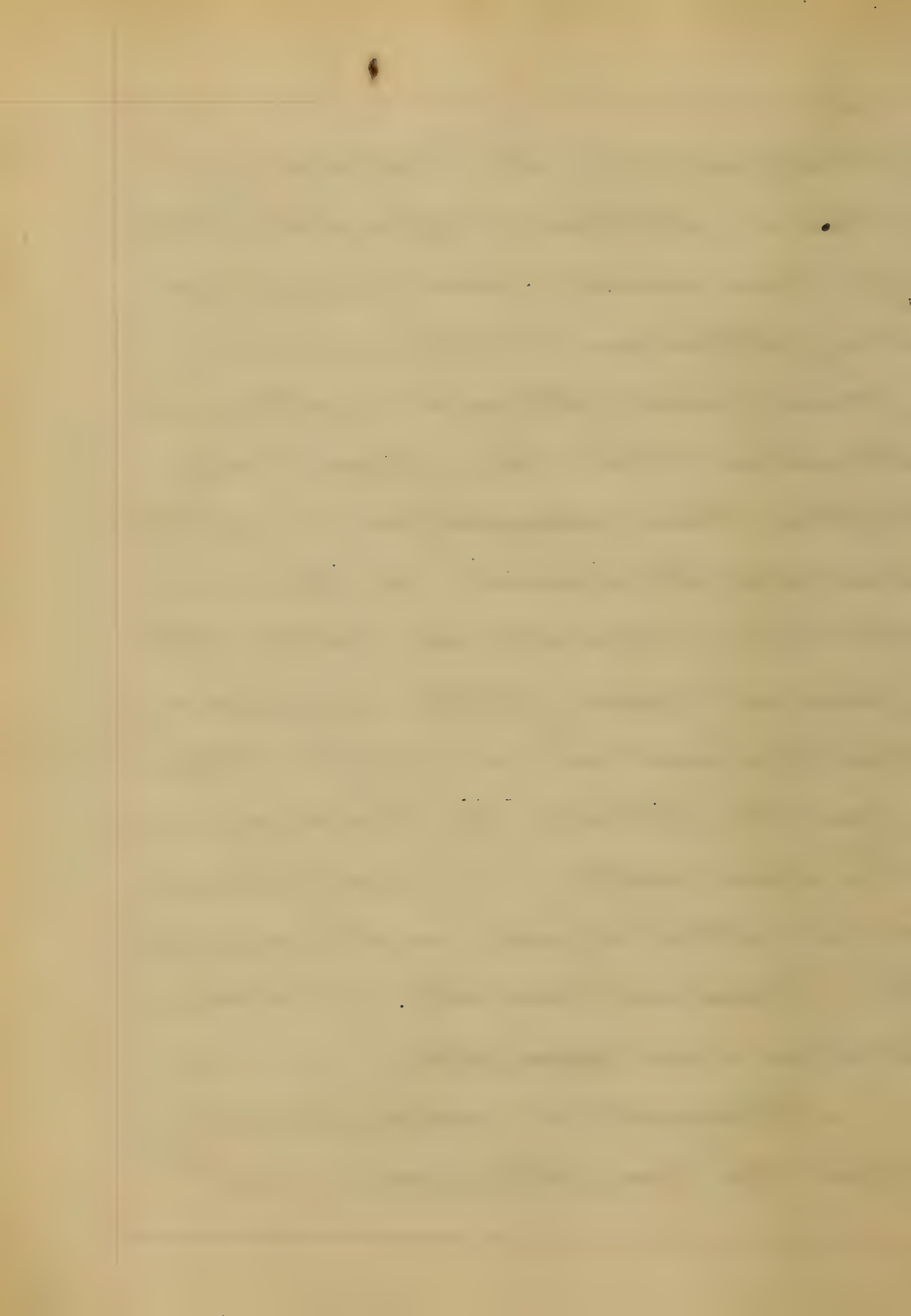
absence of the physical signs
peculiar to such diseases we can
distinguish asthma - the most
common are bronchitis, ~~inflammation~~
and organic affections of the heart.

When occurring simple
asthma is rarely fatal it may
be complicated with other
diseases of a fatal tendency
which indeed it often produces
and is thus remotely the cause
of death. It has long been
a popular notion that asthma
favours longevity, there is little
foundation however for this idea.
Some writers contend that asth-
-matics are perfectly exempt
from phtisis, this is doubted.

it certainly, is not universally
true. Dr. Watson says, "One
of my earliest friends had from
time to time while we were
schoolmates and long afterward
the most exquisite fits of thad-
nodic asthma at least when
he was between thirty and forty
years old they wholly ceased
whereupon he greatly compla-
ced himself, but they only
yielded before a worse disease
he began in a few months to
spit blood and in a few months
more he died of well advanced
phthisis other like instances
are recorded, but this may
suffice to illustrate the point

In reference to the treatment of
asthma, authors differ somewhat
in their views and various
draw attention to the various
plans and the more numerous
remedies that have from time
to time been suggested, I shall
endeavor to pursue as far as
more in accordance with the
general views of the disease
that offered in a recent lecture
from the Chair of Practice in
this university. I will occupy
some little space in discussing
the peculiar resorts of some
individual practitioners.

It must be remembered
that the complete cure of



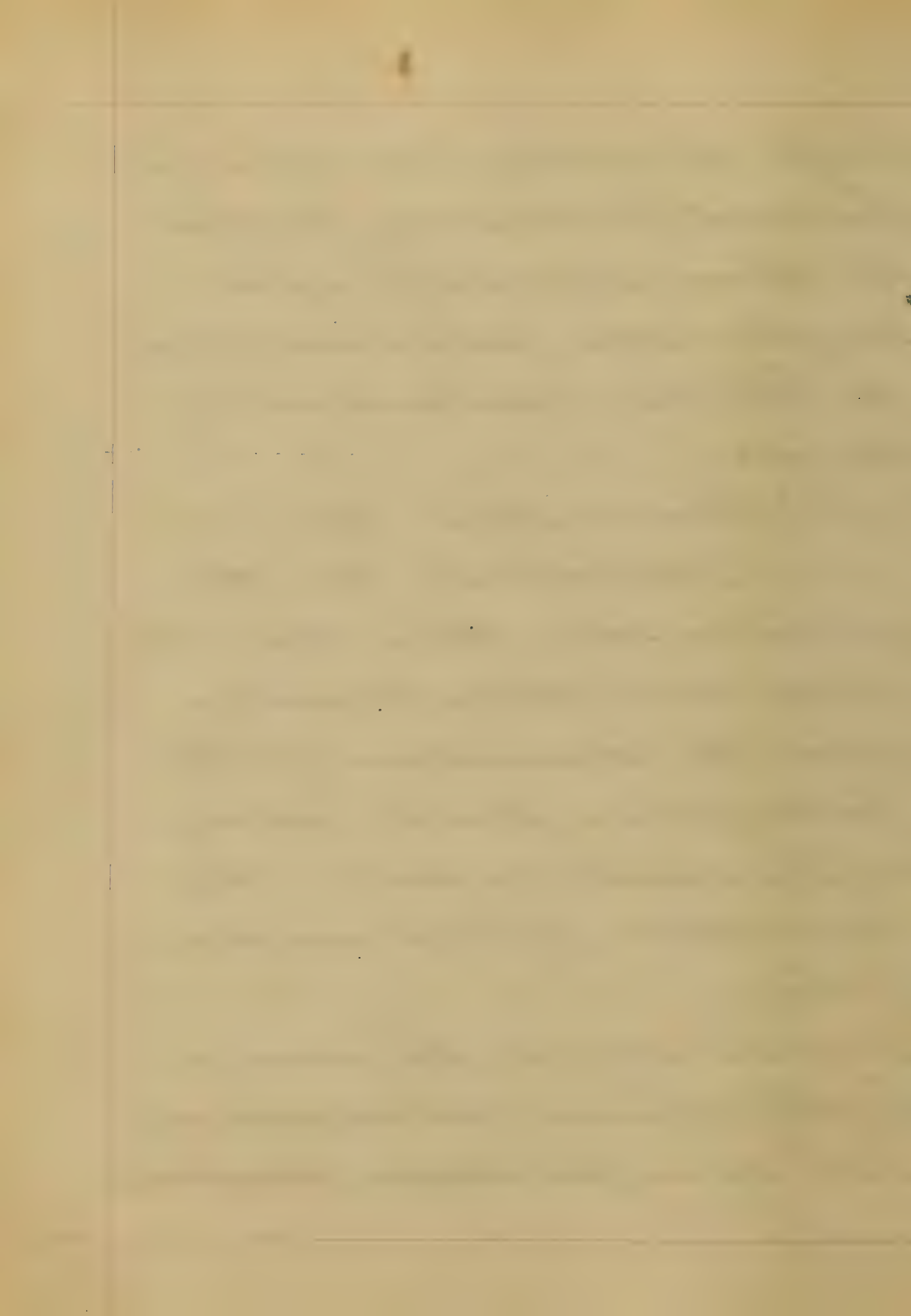
substance has thus far baffled all efforts of the Profession and that the means employed serve only to moderate the distress.

As in the treatment of all diseases that are at the same time Chronic and functional, two objects are to be aimed at, first to mitigate or remove the paroxysm, secondly, to destroy in the interval that predisposition which calls the disease into existence. If the subject is young, robust and plethoric and there exists any considerable degree of Congestion, Bloodletting will be attainable

though the instances in which
this resort is necessary are few.
We depend principally upon
narcotics and antispasmodics;
the following combination is
valuable -

R Tinct Opii ℥j
Eth Sulph Co. ℥i ~~℥i~~
of which sixty drops may be
given every thirty minutes
until the termination of the
paroxysm. Should active
inflammation coexist this
prescription will be inadvis-
able.

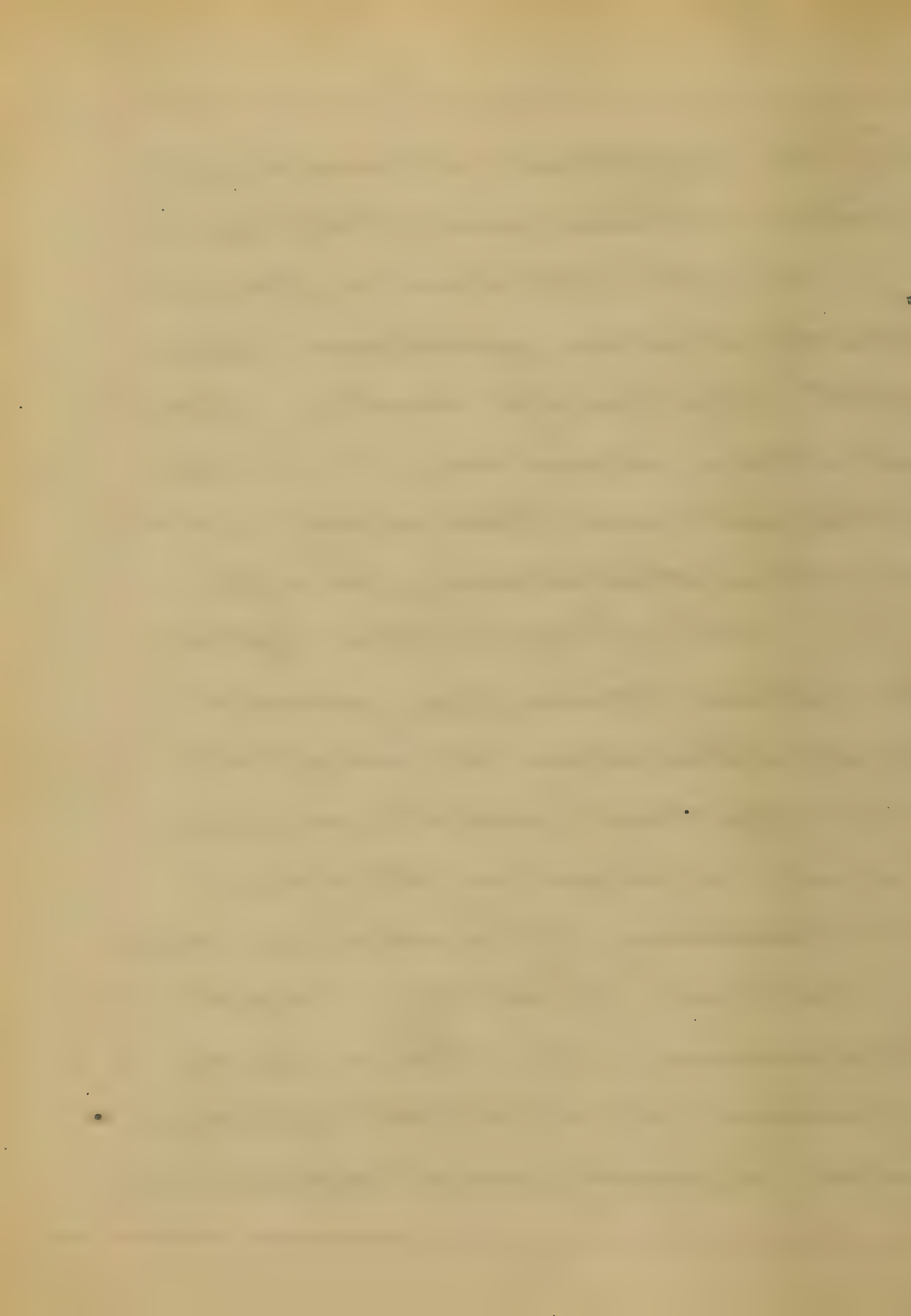
Of great among the means
highly efficient antispasmodic
used are Coffee, Gallium, Mentha, etc.



Of the uncodies *Strophanthus*
Lobelia, *Tobacco* and *Belladonna*

In coffee we have a domestic
remedy that is sometimes used
with very happy results, given
in strong decoction it is safe,
pleasant and convenient, and
is not without many favorites.

The herb *Lobelia Inflata*
or Indian Tobacco has gained a
wide reputation as one of the
most efficacious remedies we pos-
sess, it bears in its favor
the testimony of numerous medi-
cal men of ability and
experience, I have lately
perceived its excellent effects
and cannot avoid admitting



that it is deservedly entitled to
all that has been offered in its
behalf - The attention of the
profession was called to the
use of Lobelia several years
ago by the Hon. Dr. Cutler of
Massachusetts who was induced
to recommend it from the
relief he obtained from its use
in an attack of the Complaint
in his own person, it may
be given in powder in doses
of from two to ten grains, of
the tincture from one to two
drams - Perhaps a better form
of administering it is that
of the fluid extract - it is
more concentrated than the

tincture, and is free from alcohol,
each leafy part represents half
an ounce of the tincture.

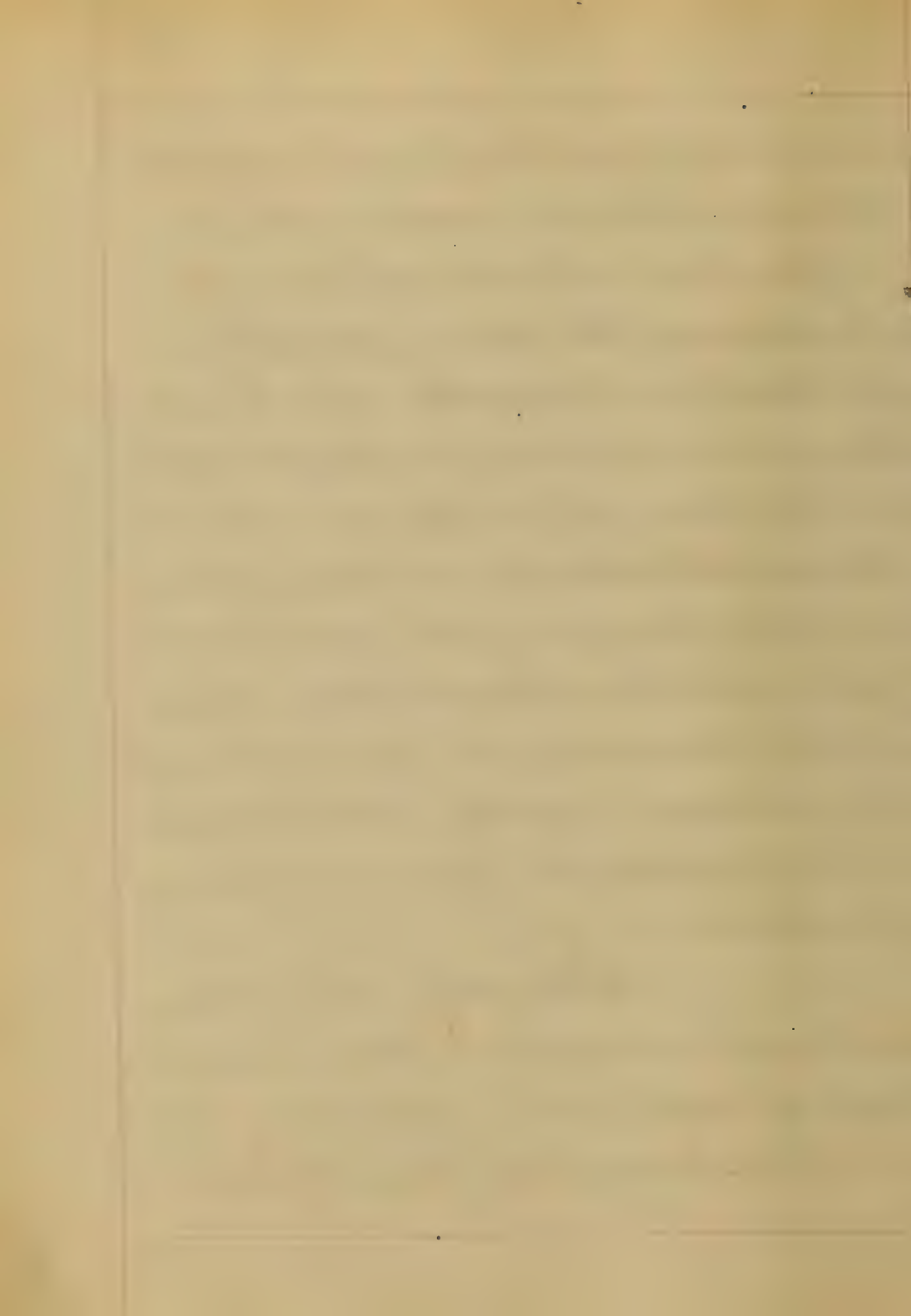
The leaves of the
Datura Stramonium a powerful
narcotic, have for a long while
been thoroughly identified with
the treatment of asthma, its
use was introduced into England
from the East Indies where the
natives are in the habit of
smoking it for the relief of
this complaint. its employment
in plethoric cases should al-
ways be preceded by depletion
measures. fatal consequences
are recorded from its incautious
use, indeed the author of its

introduction in England is said
to have fallen a victim to it.

To obtain the best effects of
Stramonium the plan generally
pursued is to smoke the dried
leaves in a pipe or made up
in the form of a cigar. The
patient should be cautioned
against carrying its use too
far, when expectoration has
freely commenced its action on
the system is fully established
and it should then be sus-
pended.

Chloroform has been
used with success in some cases
and it will give what

Dr. Hulse says of this agent.



"The effects of Chloroform inhalation
commences after the invasion of
the fit and pushed to narcotism
are variable, I have seen three
kinds of result, total abolition
of the spasm during the contin-
-uance of insensibility, with
immediate return of the system
or restoration of consciousness;
gradual return of the difficult-
breathing after consciousness is
restored; and suspension or at
least mitigation of the convulsions
for the time being. The last
effect is the worst of the three
but on the other hand the temporary
relief afforded by Chloroform
is sometimes quite complete

and more rapid than that effected by any other agent.

Small quantities of Chloroform inhaled when the sensations preceding to a fit are felt - sometimes effectually wards this off and there is reason to believe that in some cases at least the repeated use of Chloroform after this plan may eventually break the paroxysmal habit altogether. This effect can however only be hoped for when the disease is a pure nervous."

If the attack be brought on by taking cold, Calomel and Counter irritation should be promptly employed.

In the second indication the treatment should be modified to meet the conditions presented when there is much plethoric bloodletting will benefit, if there is local inflammation in the tubes it should be treated as in the uncomplicated and when subdued, then expect the undue irritability of the fibres.

The patient should be protected against impurities in diet his food should be moderate in quantity and easily digestible. His meals should be taken at regular hours he should exercise with moderation in the open air, bathing

every secretion is highly spoken
of by Dr. Watson, it is im-
portant that the secretions should
be properly regulated, to this end
appropriate medicines should
be given - when the patient's con-
dition is anemic the preparation
of iron should be given, when
of regular periodicity, Cinchona
will be found useful.

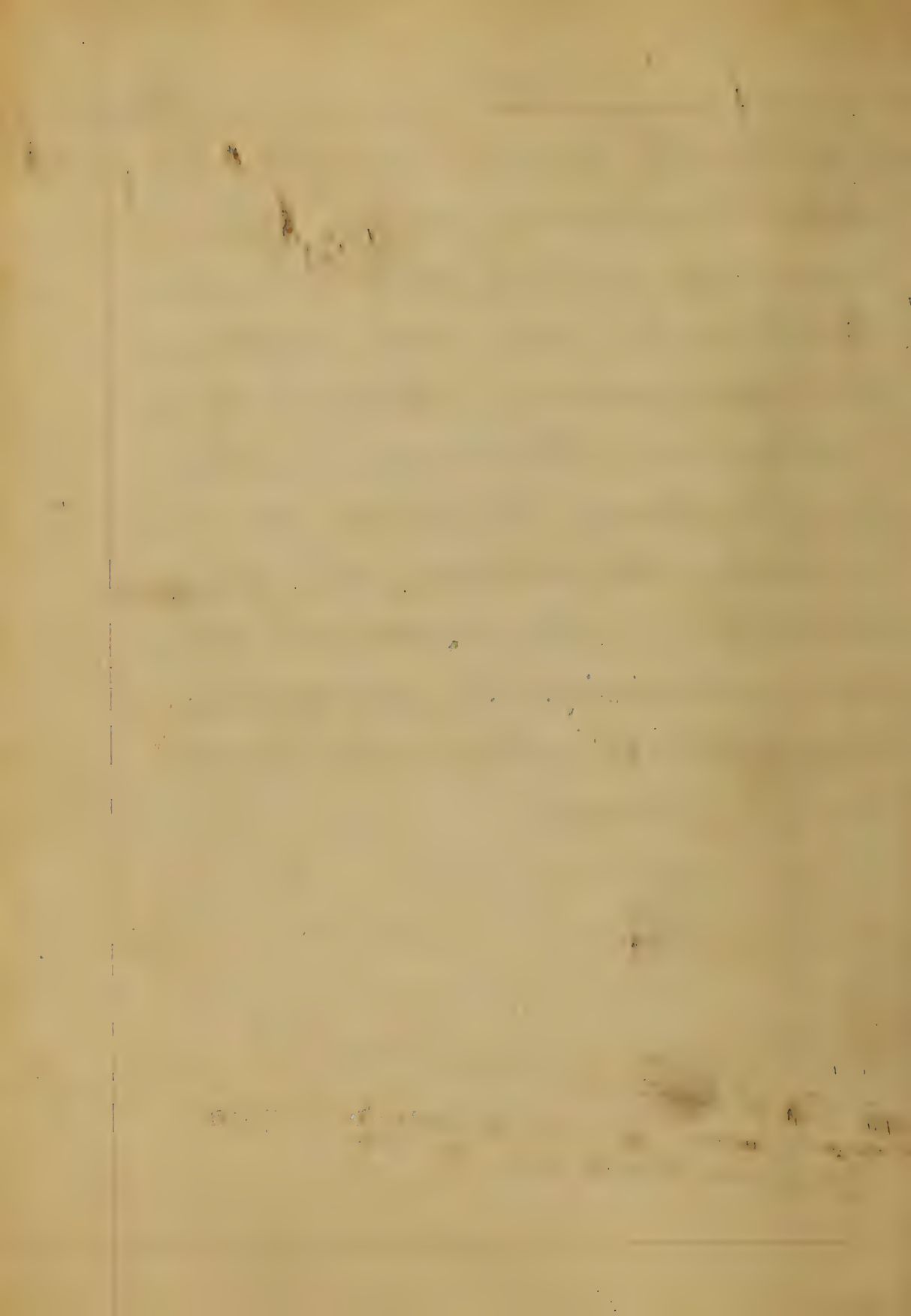
A great deal has been
written concerning the effects
of local influence on uterina
and men's, some but little
doubt that such influence is
not unimportant, some instances
illustrated by the disease,
some uterinae residing in

Large cities subject to the annoy-
-ance of constant seizures will
often find relief by change of
residence to a country village
others by a change from
Country to City life, others
again in passing from a moist
to a dry climate or from warm
to cold. A short time ago
I saw at the Baltimore Dispensary
an asthmatic patient and in
questioning him in regard to
his case learned the following,
he was from the state of Maine,
for a number of years he had
followed the ocean, and had
made several trips to the
West Indies and during his



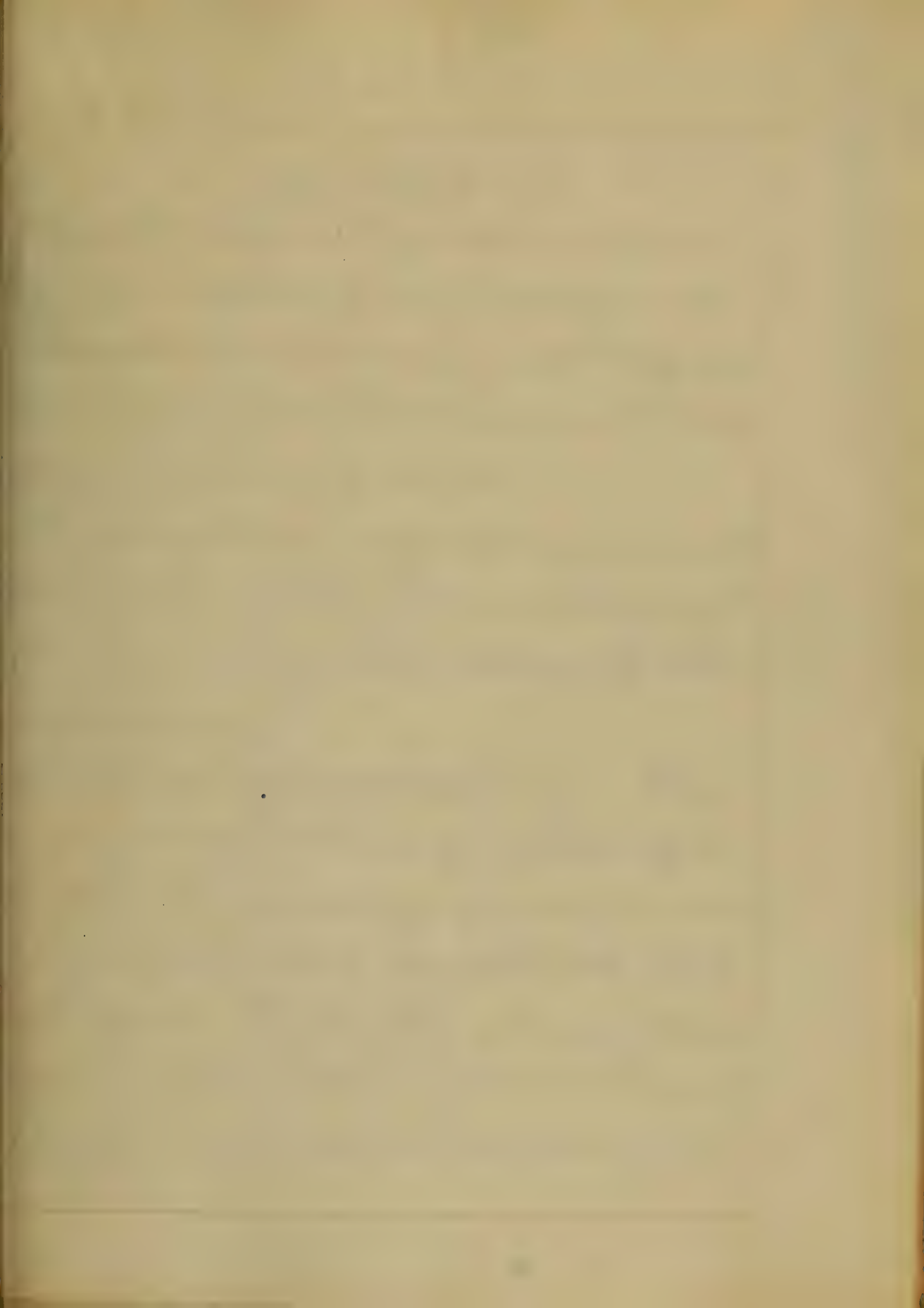
stay there he enjoyed almost a
perfect immunity from the
Complaint, yet in his home in
Hawaii or in other cold sections
his asthma always stood by him.

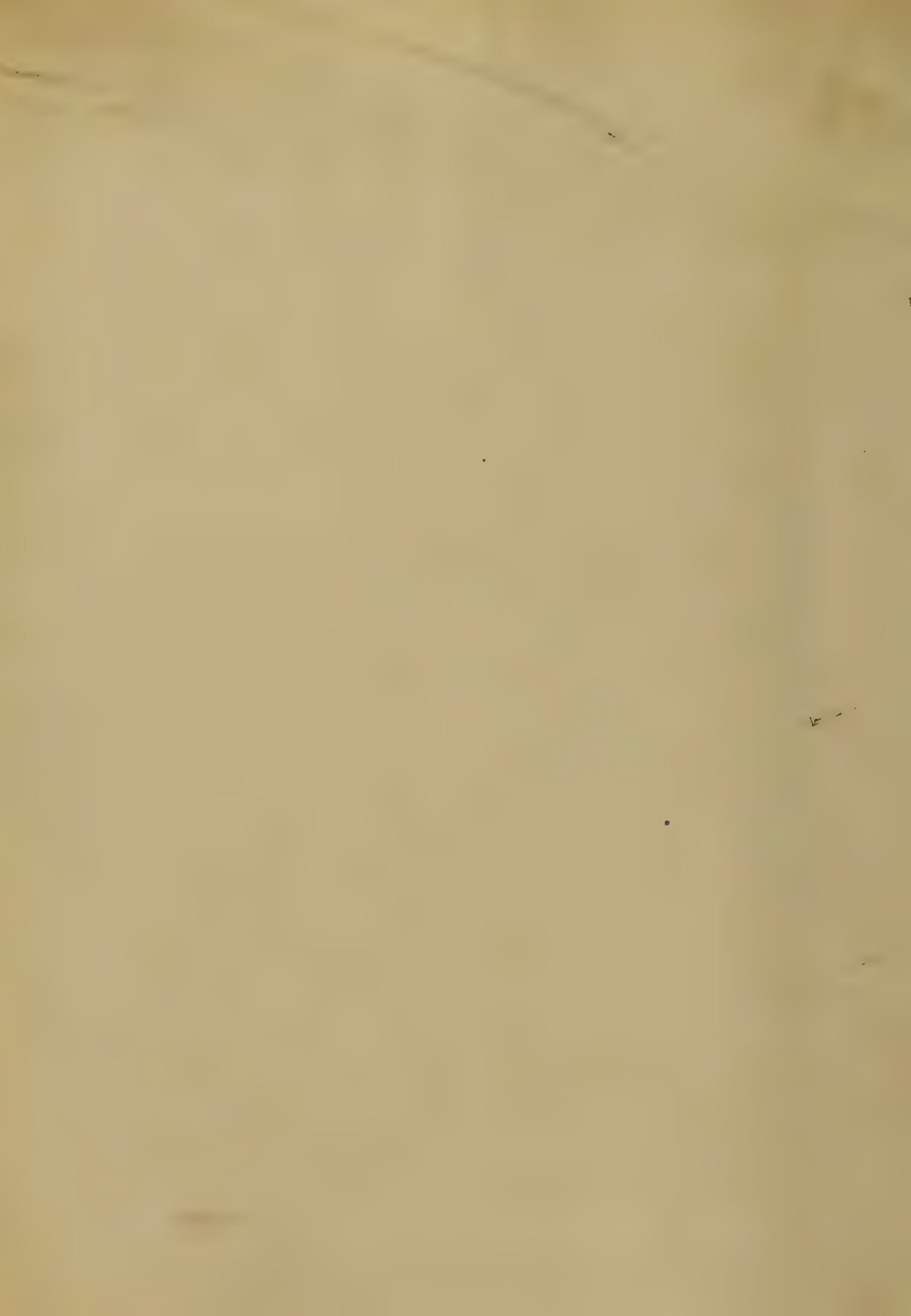
I do not think any rules
can be formed to guide us in
advising the Patient in reference
to his part of the treatment, he
must determine by experience
what locality will best
suit his case.



An
Inaugural Dissertation
on
Epilepsy
Submitted to the Examination
of the
Provisors, Regents & Faculty of Physic
of the
University of Maryland
for the
Degree of Doctor
of Medicine by
Henry Clay Kemper
of
Maryland
Anno Domini

1813.



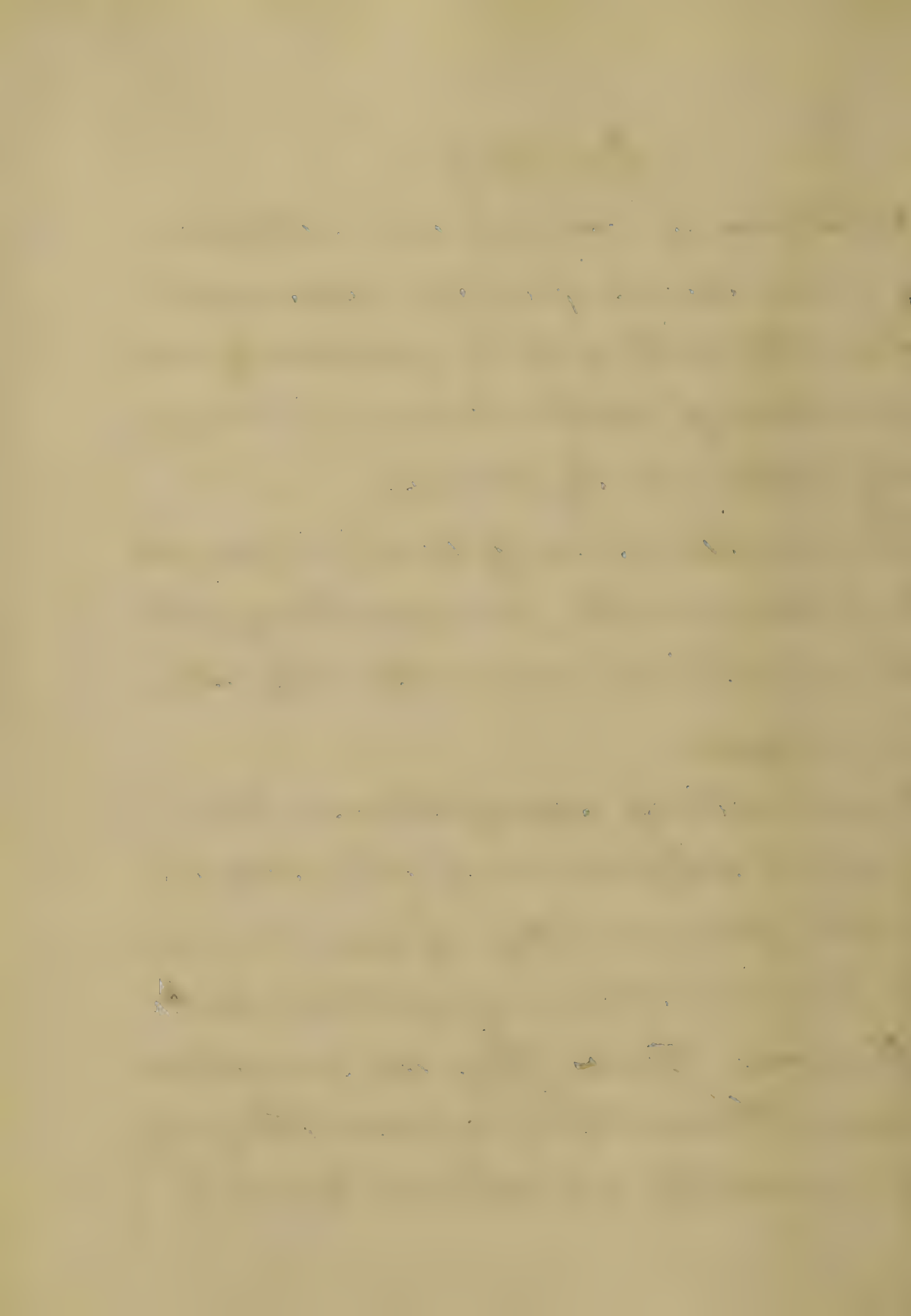


Epilepsy

Epilepsy is a disease characterized by convulsions of a paroxysmal character with loss of sensibility and consciousness, without fever and usually followed by coma.

The symptoms may be divided into two classes. The premonitory, and those which occur during the paroxysm.

Premonitory symptoms. - There is great difference of opinion, as to the frequency of occurrence of premonitory symptoms; but all agree that they do sometimes occur. When they occur they differ greatly in character and



duration. Generally they are brief, merely allowing the patient time to select a favourable position, and often not long enough for that. Sometimes they consist only in a general alteration of feeling; the patient being more gloomy and irritable, or more depressed than common, or on the other hand, unusually elevated, and cheerful. Sometimes there is confusion of thought, or failure of memory, dullness of hearing, dimness of vision and often an apparent state of reverie, in which there is a fixed and vacant look. There is also sometimes strabismus, and among the

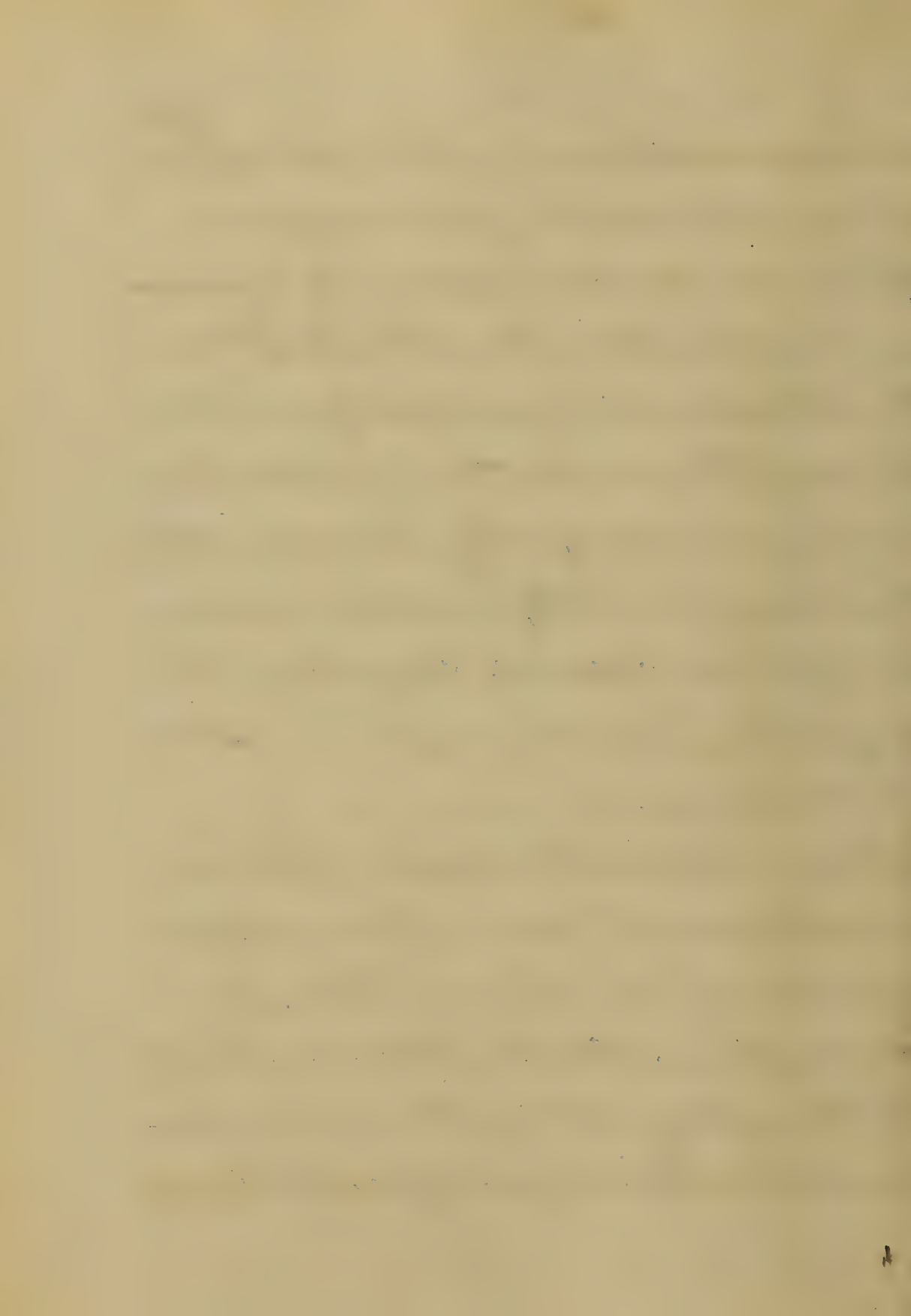
most common symptoms of premonition is an altered, or perverted preception of impressions and sensations, such as temporary blindness, deafness, double vision, optical illusions, noises in the ears, the preception of ^{usual} un-
 flavours and odours, and feelings of pain or numbness in the limbs.

Sometimes there occurs a peculiar sensation, or sign known as the aura epileptica, which is described, as a gentle breeze, or the rippling of a small stream of cold water, or the passage of a current of cold air over the part.

This sensation is a characteristic ^{sign} of an approaching paroxysm.

When it occurs it generally commences at some point distant from the brain, and gradually works its way towards that organ; but in the vast majority of cases nothing that can correctly be called *aura epileptica* occurs. In fact in the majority of cases no premonitions at all occur.

After a variable length of time, sometimes not more than a few seconds, and in others lasting for hours; the patient utters a shrill startling cry, and falls down insensible. This cry is described as



being terrifying and peculiar, and animals are sometimes said to be startled by it. If once heard it can not be easily forgotten. The muscles of the extremities are thrown into alternate contractions and relaxations. The arms and legs are thrown violently and wildly about, and the patient will often injure himself, or those surrounding him, if he is not restrained; but while the muscles of the extremities are thus alternately contracted and relaxed, those of the body are rigidly contracted, and the body is often bent backward. One side of the body



is often more affected than the other. The tongue being protruded, and the jaws convulsively closed is often seriously wounded. The eyes are sometimes closed, but generally they are widely open with a fixed stare. They ^{are} always insensible to impressions of light, sometimes they roll from side to side.

The face is livid as a general thing, and the veins are distended. Impressions which in health are most powerful, seem not to be felt at all. The most pleasing odours, the most pleasing sounds make no impression, and operations which inflict the most intense pain, do not seem to affect the pa-

tient in the least. Respiration is difficult, and from the rigid contraction of the walls of the chest, the blood seems to be insufficiently oxygenated.

There also appears to be some obstruction about the glottis, probably owing to spasmodic constriction, this is probably in part the cause of the dark suffusion of the face. The struggle in the throat causes the air to be intimately mixed with the mucous, this causes the appearance of the foam at the lips. The pulse is generally weak, irregular, and very frequent, while the heart palpitates violently and often tumultuously. In some instan-

ces in males there is involuntary excitation, and seminal emissions.

Sometimes there is also involuntary evacuation of the bladder and rectum; After a variable length of time; but generally brief the contractions cease; the limbs become composed, and the patient breaks into a profuse perspiration; the features become shrunken and pallid, and nothing remains of the previous disturbance, except perhaps a slight noise in respiration. At length consciousness gradually returns, attended at first with some confusion of thought; the patient sitting up, or rising on his, or her feet, looks around with an astonished, vacant or stupefied air.

which is highly characteristic of the disease. But frequently the disease is followed by unpleasant symptoms. The duration of the paroxysms vary greatly; but the average duration is said to be from five to twenty five minutes. Sometimes it continues for several hours, or even days; but then there is never a steady perseverance of the attack; but rather a succession of attacks, with intervals of quiet coma, as if the whole were a succession of attacks, rapidly following each other, so that the second stage of one is not fully over before the first stage of the other commences.

The symptoms which follow a paroxysm are various. As we have seen the patient may return to his ordinary condition. Very often he falls asleep, and awakes in the possession of his faculties, feeling as well as he did before the attack, except that he is a little sore, from the violence of the muscular contractions, and bruises he has received.

In other instances he is affected with headache, vertigo, mental confusion, and sometimes though rarely nausea and vomiting. But these are not the only evil effects that follow a paroxysm. The patient instead of getting off thus lightly, as soon as the



violence of the paroxysm is over, sinks into a deep coma, or stupor, lasting for hours, or even days. Sometimes an epileptic paroxysm is followed by temporary insanity, which may amount only to slight mental alienation, or to positive insanity, or violent mania. The latter is termed epileptic fury.

These symptoms subside as a general rule in a few days at most. Sometimes altho, so rarely the maniacal symptoms precede instead of following the paroxysm. The patient upon emerging from a paroxysm is sometimes found to be slightly paralysed. The interval between the commencement and ending of a pe-

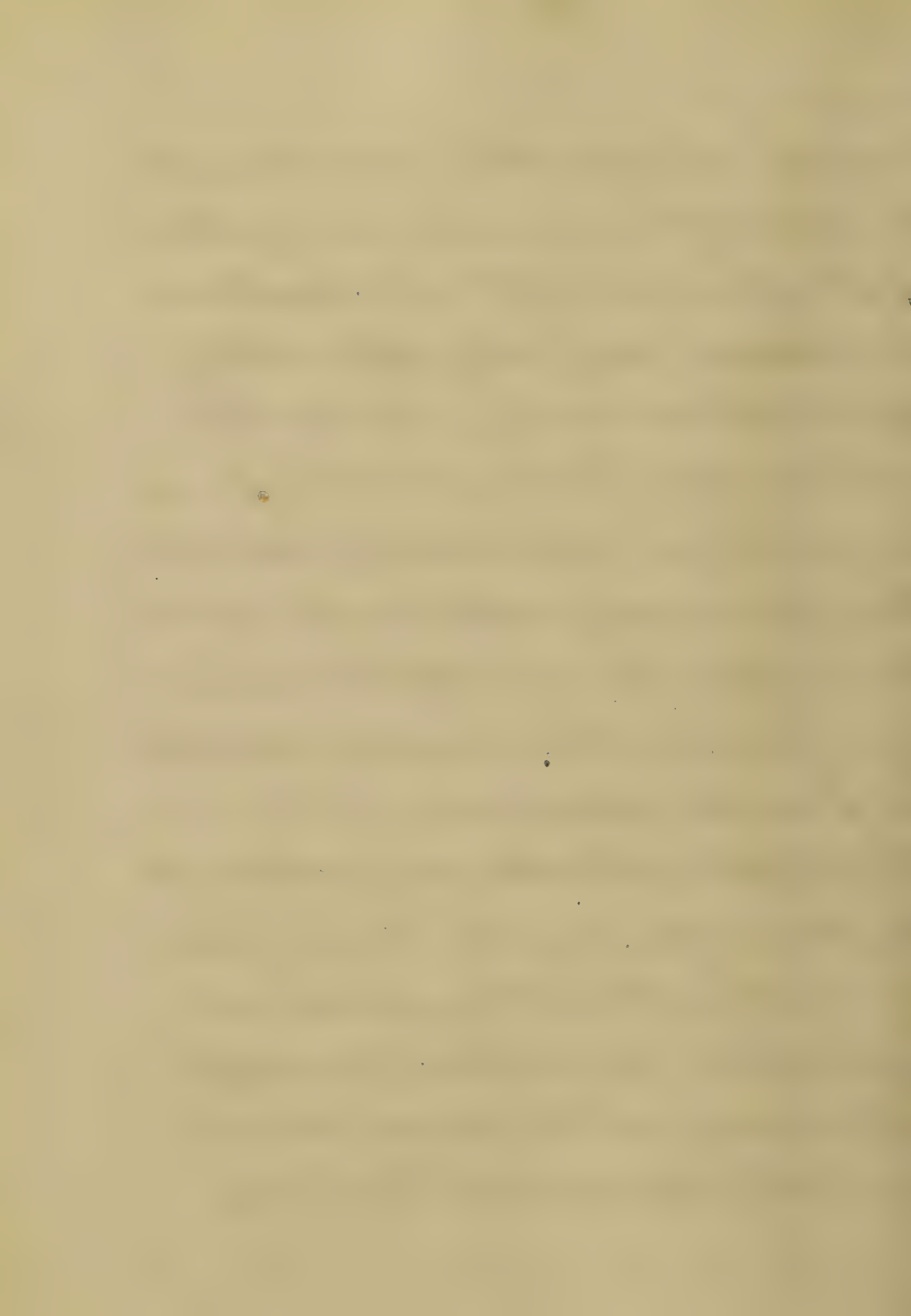
royaume is a complete blank to the patient, and he only knows that he has had a fit by his soiled, and torn clothes, and by his bruises, the significance of which previous experience has taught him.

Death sometimes occurs during the paroxysm, either from asphyctic congestion, or suspended respiration, but this is of rare occurrence. As described above, the disease constitutes the Grand Mal of the French. But the disease does not always occur in so violent a form. Instead of coma, convulsions &c; the attack is merely vertiginous; the patient if standing will perhaps fall; but if sitting, it may



pass off almost without notice, and the patient resume his occupation just where he left off. Sometimes the disease may only apparently affect an arm, or leg, that is the patient may stand erect, while an arm, or leg is convulsively moved. This form may continue for two or three years, gradually becoming more severe. This form is called by the French *petit mal*.

Epileptic attacks may occur at any time during the twenty-four hours. Sometimes they occur at night, while the patient is asleep, and he may not be aware, that he has had a fit, unless he has seen



some way wounded himself. Sometimes the paroxysms occur altogether during the night, the sleeping posture seeming to favour involuntary muscular contractions, or else causing it by an afflux of blood to the brain.

The periods of attack are not less variable than their degree of violence. Sometimes there are intervals of months, or years. In which case the paroxysms are apt to occur at gradually diminishing intervals, or vice versa. The paroxysms sometimes although very rarely recur at regular periods, in which case it is often connected with ma-

various poisons, or with the menstrual function in the female. Although the patient may have apparent good health during the intervals between the paroxysms, yet they generally present some peculiarity. They are for instance, headstrong, obstinate or capricious, determined in what they will; but having no stability. Their memories are often feeble, and defective, not being able to fix their minds on any one course of study. This may be owing in part to the manner in which almost all epileptic patients are indulged from their youth up;

but it is no doubt also owing in part to the effect the disease has on the brain.

The course of epilepsy is one of deterioration. The paroxysms if at first mild, are apt to become as the disease advances more and more severe, and more frequent. But this is not the only change; the brain begins to suffer, and its functions become more and more deranged during the intervals between the paroxysms.

The memory and intellect become feeble, and the patient gradually approaches idiocy. The interior condition of the brain often shows itself upon the exterior; the features become

rougher, and less intellectual, and more sensual. The form also often becomes altered; the patient losing that erectness of carriage which once characterized him.

The gait too sometimes becomes one-sided, probably owing to loss of strength in that side.

At length the patient sinks into a state of imperfect imbecility. During the progress of imbecility, the motor power shows signs of being affected, by the one-sided position of the head, and rigid contraction of some of the muscles, and consequent distortion of the features. Still with all these changes the organic functions

seem to suffer very little. Digestion and nutrition are vigorous. The generative functions remain unimpaired; the female still continues to menstruate, and sometimes becomes pregnant. The mental change may be accomplished in a few months, but generally it takes years to do it, and frequently epileptic patients live to old age without these changes being very evident.

Imbecility is said to make more rapid progress when the disease begins before puberty, than it does when it commences after that period. Its rapidity depends also upon the frequency of the paroxysms. It

also makes more rapid progress in those whose habits tend to lower the general tone of the system, such as the habitual use of alcohol and opium &c. Sometimes a patient will live to an old age without any of these symptoms of imbecility making their appearance, showing that the disease does not necessarily produce insanity or idiocy.

Morbid appearances.— The morbid appearances found in cases of death from epilepsy are various. The brain has been found in various states; thus it has been found perfectly healthy and it has on the

other parts been found presenting almost every variety of lesion, which it is impossible in all cases to determine, whether they stood in relation as cause or effect. Lesions have also been found in other organs, such as the liver, lungs, heart and alimentary canal. But these lesions do not always depend upon epilepsy; but upon other diseases, to which persons labouring under epilepsy are no subject as anyone else.

In cases in which the patient has died during the paroxysm, the brain appears very much congested being of a deep red or violet

hue. In cases in which the pa-
 tient was lived to become in-
 feeble the brain is often found
 in various stages of chronic in-
 flammation; the white substance
 being softened, with the vessels in-
 jected. Other conditions are
 sometimes found upon which
 the disease may have, and prob-
 ably did depend, such as thick-
 ening of the bones of the cranium,
 exostosis, and depressions of bone,
 dependant upon external vio-
 lence, and tumours within the
 cranium pressing upon the brain.
 Hemorrhagic effusions may also
 cause it.

Causes.- The causes of epilepsy, may be divided into, predisposing, and exciting. Predisposing causes.- The predisposition to epilepsy, is said to be hereditary in some cases.

The time of life has some influence over it. It occurs more frequently before the age of puberty than after it. It rarely ever attacks for the first time people of old age. One reason why it attacks children most frequently, is because the nervous system is more excitable than than at any other period of life, and therefore more easily thrown into disorder by disturbing causes. The change

which the system undergoes at puberty are thought to have some influence in producing the disease. Males are said to be more frequently affected than females. Anything calculated to lower the general health may prove a predisposing cause.

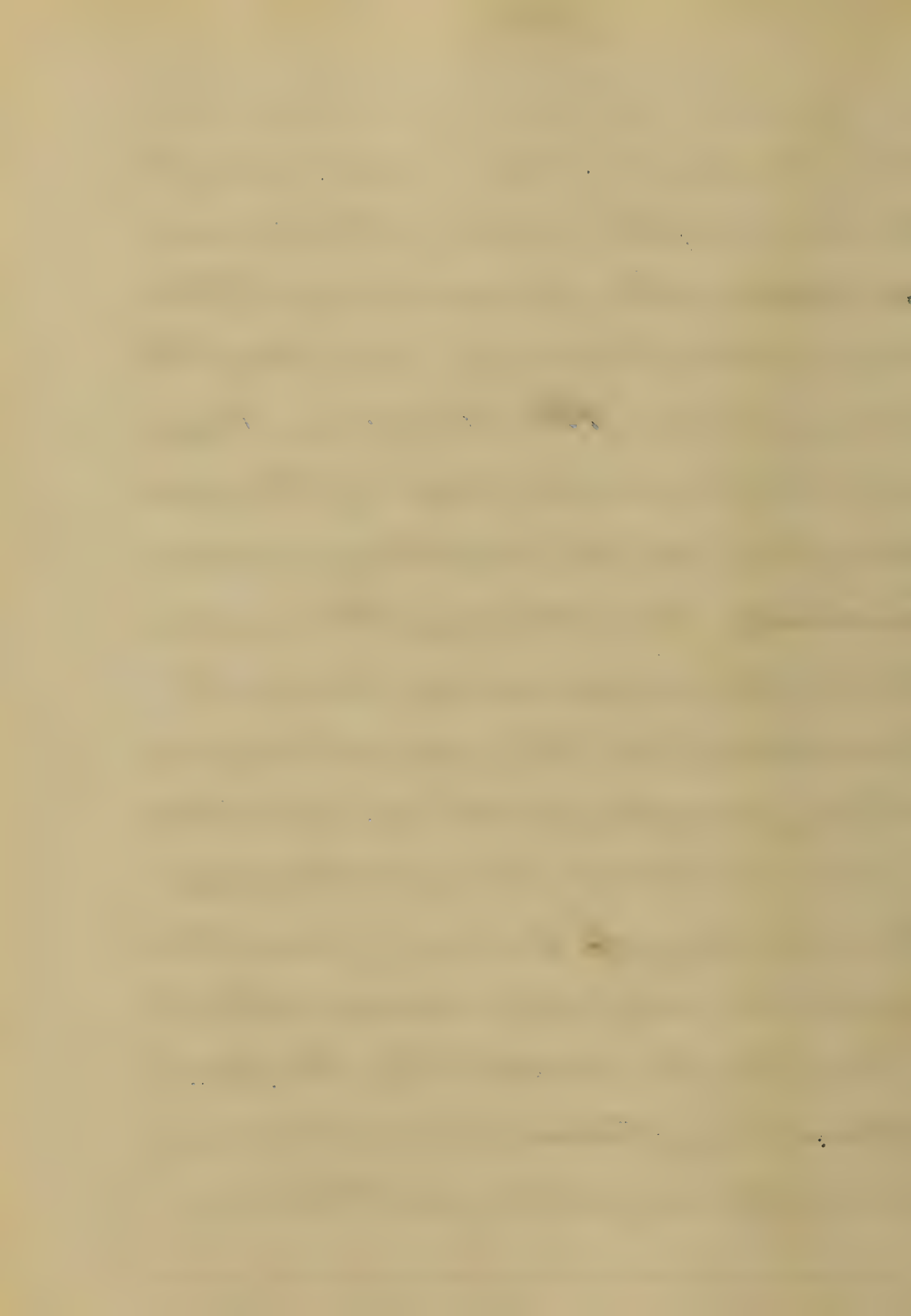
Exciting causes.— Of the exciting causes the most frequent is perhaps direct injury done to the brain, that is external violence, causing depression of bone. This may act by direct lesion, or by the resulting inflammation. Other causes are malformation of the brain, or spicula of bone projecting into

The brain, curies, or necrosis of the bones of the head. Whatever disturbs the functions of the brain, or strongly excites them may cause the disease. Exposure to the direct rays of the sun may act as an exciting cause.

Violent exertion, either mental, or physical may cause it.

Excesses of all kinds act as exciting causes, such as masturbation, venereal excesses &c.

The forcing of to early mental culture may also cause it. It is said to be caused by the principal of imitation sometimes, especially in girls just from



seeing others in a paroxysm.

Pregnancy, the poison of syphilis, irritation of the stomach, or any other part of the alimentary canal, and in fact irritation of any organ sometimes act as an exciting cause.

Diagnosis.— The only affections with which epilepsy is likely to be confounded are, Apoplexy, hysteria, and convulsions depending on certain forms of intestinal irritation, also convulsions depending on meningitis, and in children dentition.

Generally there can be no difficulty in diagnosing epilepsy from apoplexy. The violence of the con-

visions, and the previous history of the case will almost always serve to distinguish the two, connected with the occurrence of paralytic symptoms in apoplexy.

When the epileptic paroxysm has subsided into quiet coma, there is some difficulty in making a correct diagnosis; but the paleness of the face, feebleness of the pulse and absence of paralytic symptoms will generally serve to distinguish them. Sometimes the two affections seem to be associated, the patient having symptoms of apoplexy between the paroxysms of epilepsy.

From convulsions it is also often very difficult to distinguish it; but from the circumstance of the case we can generally learn enough to assure us that it is not epilepsy, with which we have to deal. Thus in children irritation in any part may cause convulsions, which are not generally epileptic. There is perhaps a more sudden recovery of the mental faculties after the cessation of a convulsive paroxysm, than there is after one depending on epilepsy.

From hysteria it can generally

be distinguished by the vivid tur-
 gescence of the face, the violent con-
 tortion of the features, with foam
 at the mouth, and the apparent
 unpreparedness of the patient, with
 the sudden and alarming cry at
 the commencement of the fit.

While in hysteria the parox-
 ysm comes on less suddenly, and
 foam rarely ever appears at
 the mouth, and there always
 seems to be a concealed will. It
 is very important to be able to
 diagnose between the two, as
 epilepsy is a very serious
 disease compared with hys-
 teria. Epilepsy is sometimes

fainted; but cases of this kind can generally be distinguished without much difficulty, if the patient be seen during the paroxysm.

In real epilepsy as we have seen there is profound insensibility, while in the feigned variety there is always more or less consciousness displayed, for instance, if the patient be threatened with any severe punishment he will generally show some consciousness, or if ammonia, or any other irritating substance be held to the nostrils the patient will try to avoid it.

holding it. Moreover he always selects his place for falling, and very rarely has a fit unless he is where he can be seen by someone, and rarely wounds or bruises himself. He also waxes during the intervals between the paroxysms the peculiar expression of the epileptic.

Prognosis.— The prognosis depends upon the cause in a great measure. If not of an organic nature it may be, and often is cured, if taken at the outset. It is also sometimes cured when of long standing; but the chances of cure are diminished in proportion to the dura-

tion of the case. When the disease commences before puberty there may be some hope of a favourable change about that period. In cases depending on eccentric causes there may be more hope of a favourable issue, than in those depending on centric causes. Cases commencing in early infancy are generally unfavourable. Hereditary predisposition almost always gives obstinacy to the disease. Patients in whom deterioration of the mental faculties has occurred, rarely ever recover. In some cases the paroxysms disappear

for a time; but ultimately they will return.

Treatment.— The treatment of epilepsy must of course be various, as it depends upon various causes. There are two prominent indications that present themselves. First to relieve the violence of the paroxysm. Second to prevent their return.

Generally there is not much treatment required during the paroxysm. We should place the patient in as comfortable a position as possible, with the head and shoulders a little elevated. The dress should be loose.

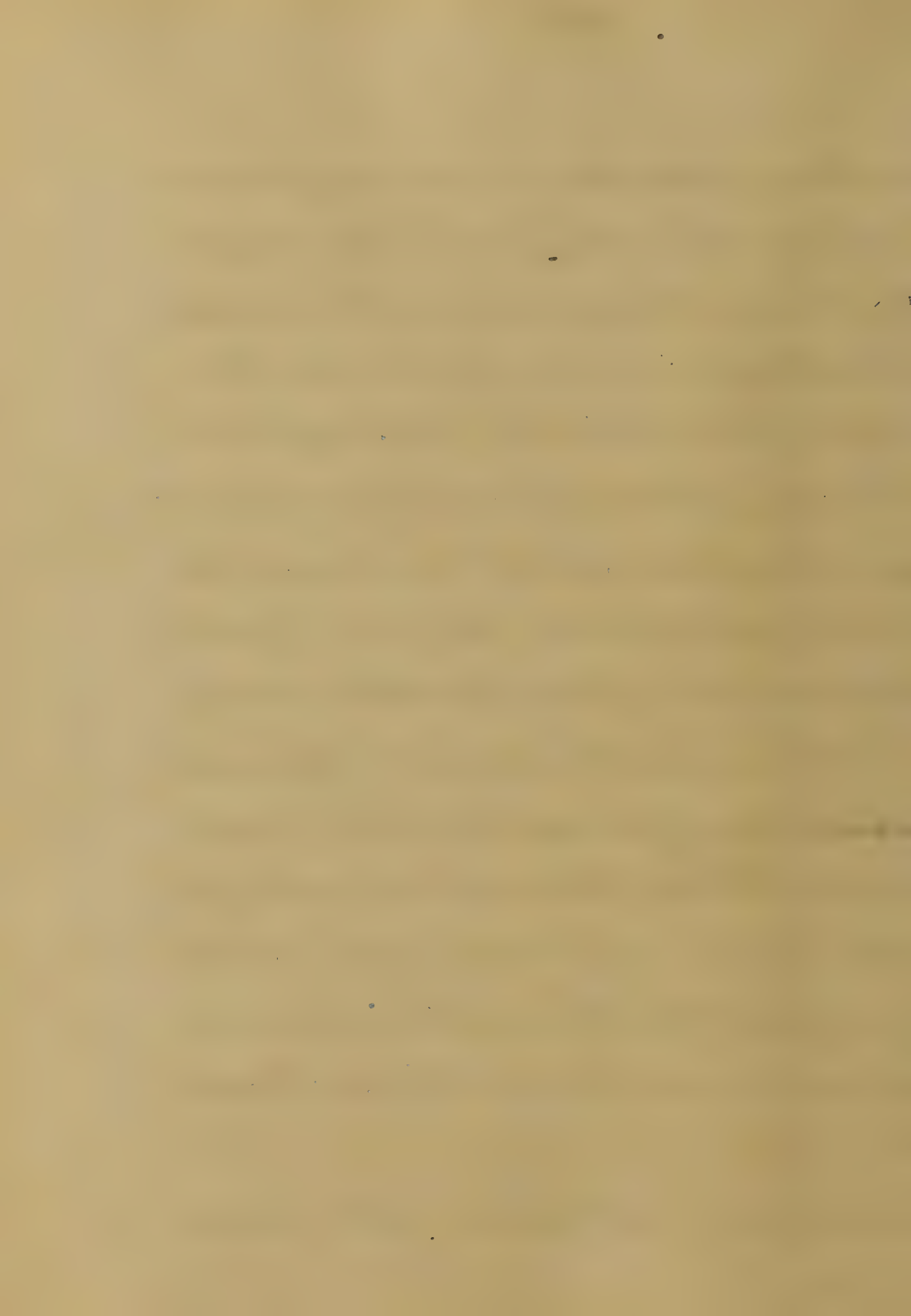
ened, especially about the neck and chest. A piece of soft wood or cork should be placed between the teeth to prevent injury of the tongue, and the convulsive movements should be restrained as far as possible, to prevent the patient from injuring those who surround him, or from injuring himself. If the congestion of the brain is great enough to cause apprehension of a palsy, we should bleed from the arm, and apply cold to the head, with revulsives to the feet, such as warm foot bath, rubbing the feet with some one of the rubefacients, or

mustard plasters to the wrists &c.

In cases where the propriety of general bloodletting is doubtful, cups or leeches, may be applied to the back of the neck, or temples.

When depletion has been carried to so great an extent as may be deemed advisable, enemata of assafatida, or oil of turpentine may be used, or emetic doses of ipecacuanha may prove highly beneficial. When there is danger of death from apnoea, ammonia may be held to the nostrils, and sinapisus be applied to the extremities.

The second indication or the treat-



ment during the intervals, presents two prominent indications, first to remove all sources of irritation, secondly to render the nervous system less irritable. To meet the first of these indications, we should study well the condition of the patient to find out whether there is any deviation from health, and if any is found to direct our remedies to its removal. Should the patient be plethoric, saline cathartics should be given and he should be confined to a vegetable diet. On the other hand should there be anæmia tonics should be given with a good

diet. Of the tonics, the best are
 the feruginous preparations, simple
 bitters, Sulphate of Quinia, moderate
 exercise, and sea-bathing. If there
 is indigestion it should be corrected
 by improving the tone of the
 stomach, If the epileptic convul-
 sions occur in children, and du-
 ring the period of dentition par-
 ticular attention should be given
 to the state of the gums, and if
 they are found to be tense, and
 swollen they should be lanced.
 Constipation when it exists
 should be corrected by mild
 laxatives. Urine disorders
 should be corrected by appropri-

ate remedies. When the epileptic aura, occurs in any of the extremities, an attack may sometimes be prevented by placing a ligature around the limb between it and the brain. In short all sources of irritation should be removed as soon as discovered.

To meet the second indication many remedies have been from time to time advocated, and considered by different authors as specifics; but now a more rational view is taken of their effects and they are applied with more judgment and intelligence. Cerebral Stimulants and Tonics are the remedies on

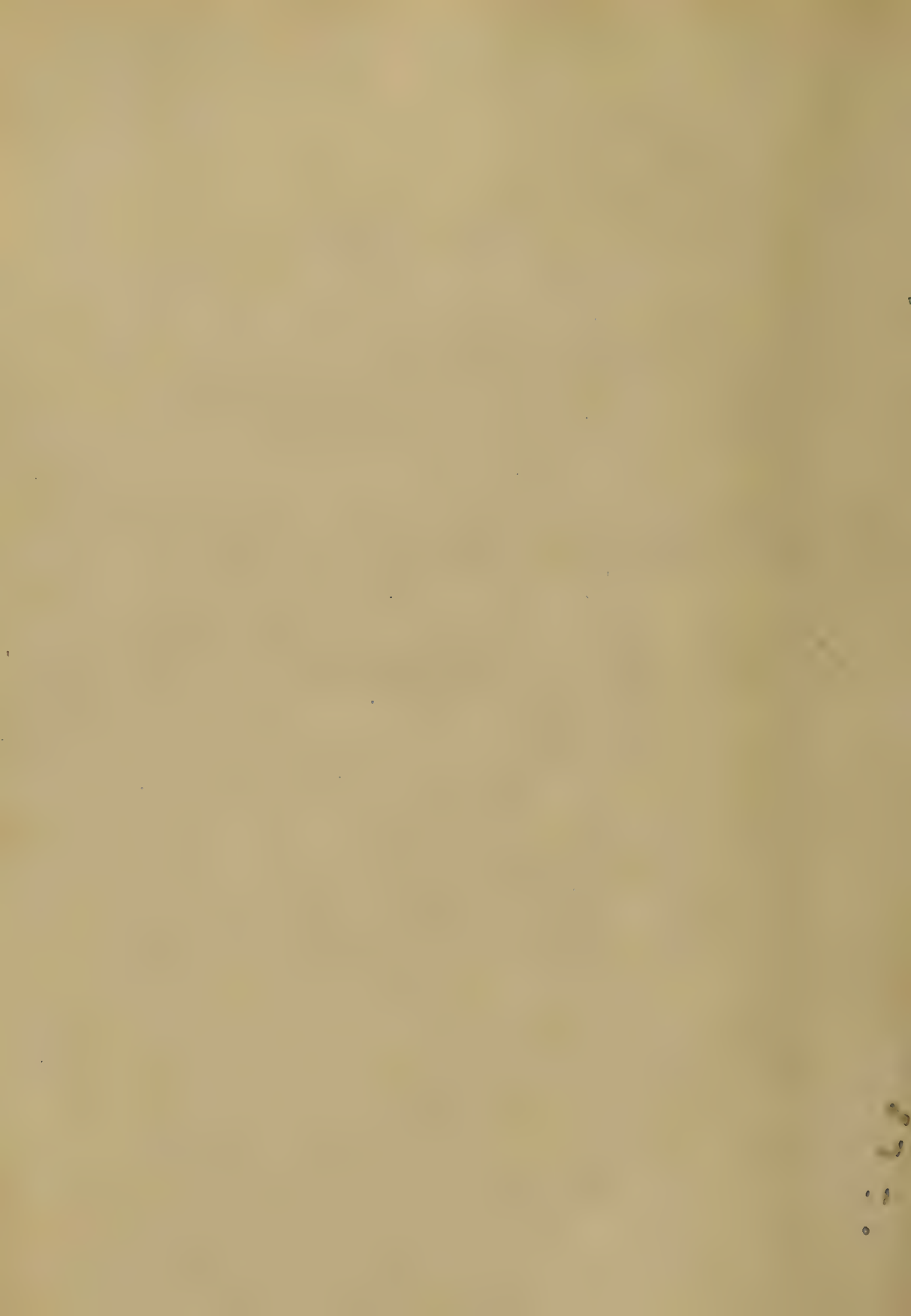
which we mostly depend. Cerebral stimulants act directly on the brain, and diminish excitability, while tonics act indirectly by improving the general health. Of the tonics those derived from the mineral kingdom are said to be best.

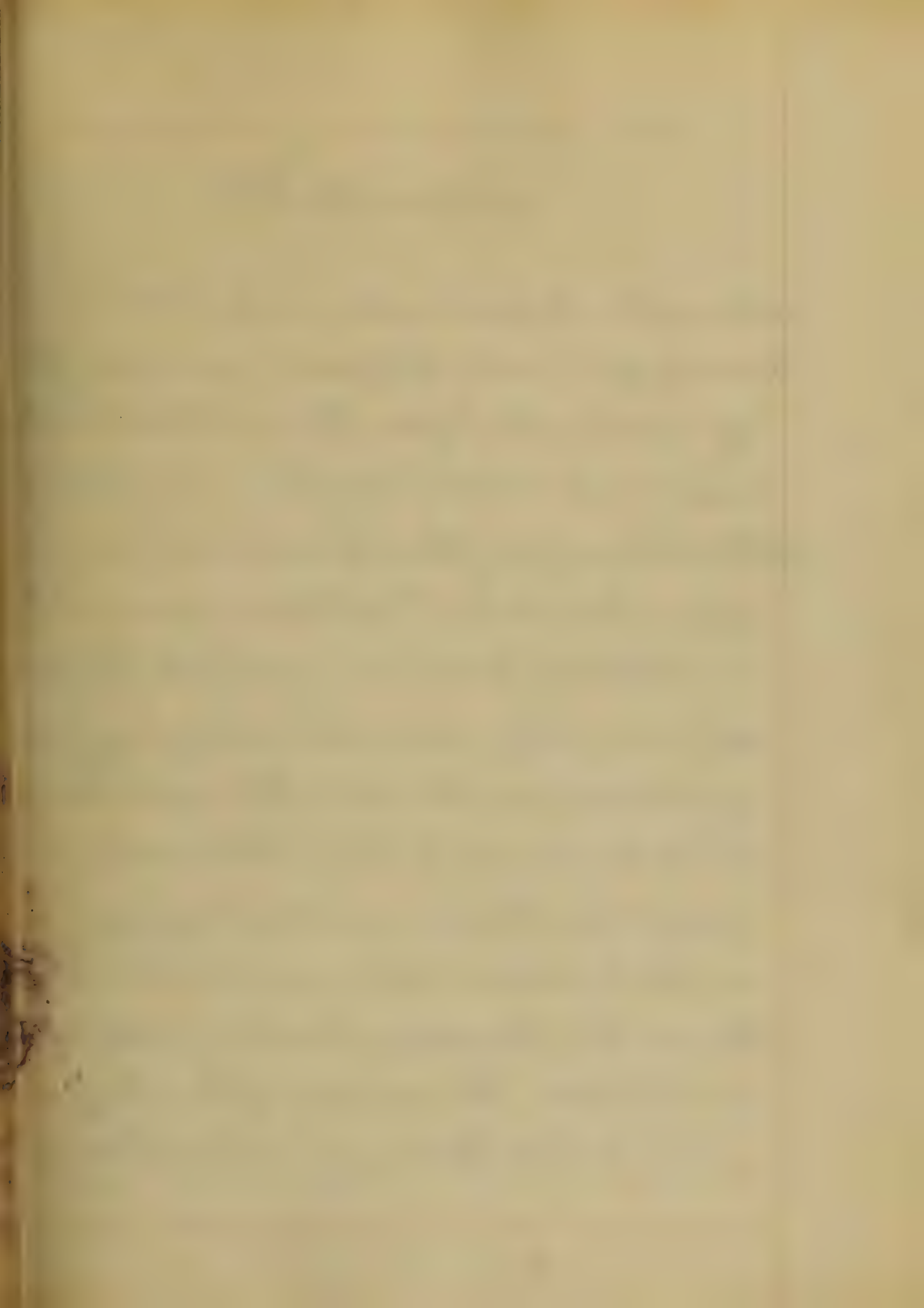
Among these Nitrate of Silver is most employed, given in $\frac{1}{4}$ or $\frac{1}{2}$ gr doses three times a day; but there is one great objection to its use, that is that if too long employed it is apt to cause discoloration of the skin, turning it to a permanent dark blue colour. However most authors agree that unless used longer than five or three

months at a time, there is no
 danger of its producing this effect.
 After using it for that length
 of time its use should be discon-
 tinued for about as many weeks,
 and then resumed. The differ-
 ent salts of copper and zinc are
 said to be next in efficiency. The
 preparations of iron are also
 used with asserted benefit. Ace-
 tate of lead has been used by some,
 and said to be a very good remedy.
 It may do good by its influence in
 reducing nervous excitement,
 caution however should be ta-
 ken, ^{not} to use it for too long a time,
 as it may produce its constitu-

tional effects. When the disease assumes the periodic form, sulphate of quinia may be used with hope of benefit. The antispasmodics are used with asserted good effects. Of the cerebral stimulants the most useful are belladonna, stramonium, and hyoscyamus. When the patient has premonitory symptoms he may sometimes ward off an attack by using some substance which will make a strong impression on the nervous system.

In
Judicial Dissertation
Upon
Inflammation
Submitted to the Examination
of the
Rural Faculty & Faculty of Physic
of the
University of Maryland
for the
Degree of Doctor
of Medicine by
Jno. Tho. Hooper
Maryland
Anno Domini
1835.







Introduction:

I think, we have cause to believe that the world was made for man's enjoyment; that health is the only true source of happiness. Therefore, man must have been created in health, for without this, the world, with all its beauties, and, all its pleasures, would be destitute of all gratifications, and life would be a burden. But, by the circumstances, and associations, which surrounded him; his organization became liable to diseases. Some have now become inherent, being propagated from one generation to another and often they assume the most horrid aspect and are very destructive to life,

if left alone to the recuperative powers of Nature, unaided by the hand of Art; though without Nature's efforts, Art has but little influence over them.

As the majority of diseases, to which the human race is liable, acknowledges Inflammation as their cause or effect, so I shall endeavor in the following essay to give, in a brief manner, the principle known facts in regard to its causes, appearances, effects, and treatment which are so essential that the physician should be thoroughly acquainted with them, if he wishes to be successful in the treatment of diseases, in which it plays so conspicuous a part.

Inflammation

Inflammation.— May be defined: a perverted condition of the blood and blood-vessels, with a tendency to change and destruction of the tissues, involved.

The change, from health to inflammation, may be divided into three stages, viz; 1st Vascular excitement; 2nd. Active congestion; 3rd. True inflammation.

The symptoms of inflammation are divided into two classes; viz, General, and Local. Either may be the first to develop itself.

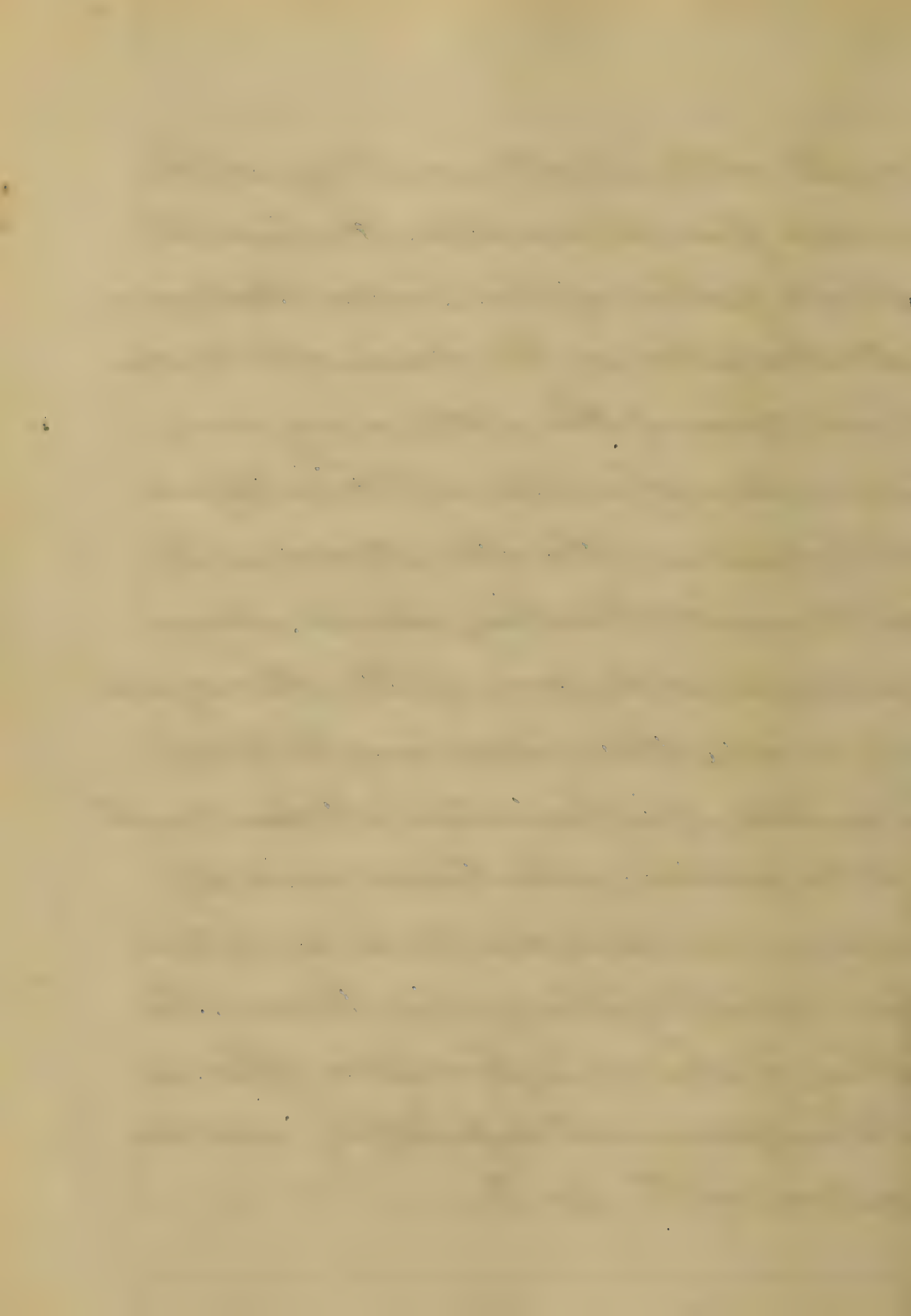
Local Symptoms.— Are redness, swelling, pain, heat, increased sensibility, and disorder of function, but neither of these alone is a sign of inflammation.

Redness. — This evidently depends upon an increase of blood, circulating in the inflamed part. Minute vessels, that in the healthy state, could not be seen to convey blood, now become dilated and transmit the red corpuscles in abundance, though in proportion to the degree of inflammation present, for, when true inflammation is established, the small vessels cease to convey blood, which becomes stagnant in them. The tint varies from a bright scarlet to a dark purple or brown, according to the kind of inflammation; whether acute, chronic, malignant, specific or gangrenous. The extent and form vary according to the character and intensity of the inflammation and tissue involved. Redness by itself

cannot be taken as a sign of inflammation, for the blush of shame is a pure physiological action; nor is the circumscribed red spot, on the cheek of persons with hectic fever, inflammation.

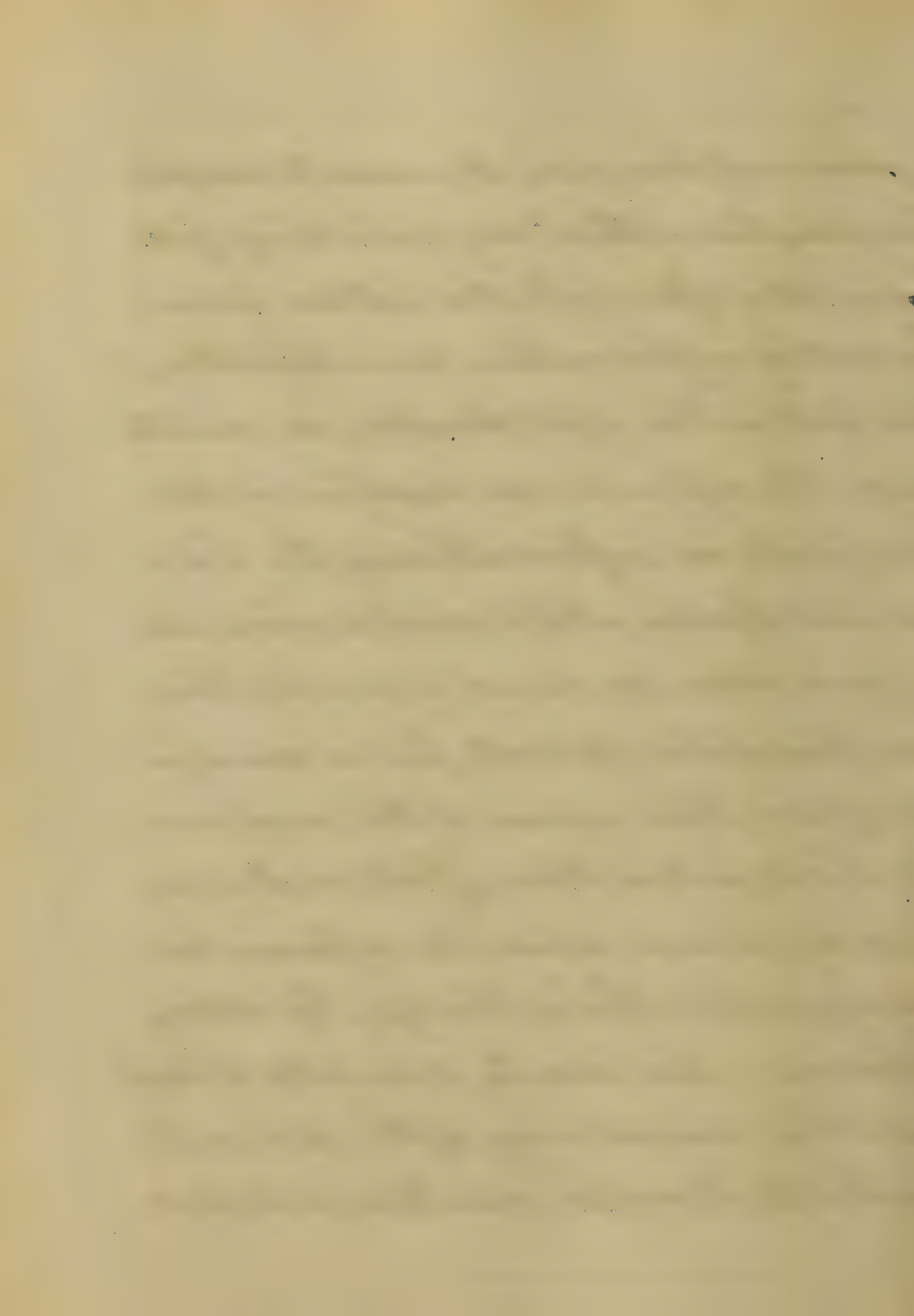
Swelling.— At first, this is caused by the dilatation of the vessels, from the increase in amount of blood in the inflamed part. But, ultimately, by the effusion which takes place into the interstices of the tissues. This effusion may be serum alone, more or less mixed with lymph and blood, and finally pus, if resolution does not take place. Swelling is always greater in loose dilatable tissues, as the cellular, than in those that are firm and resisting; as tendons, fascia, and bone. In inflammation of cer-

tain parts, as the extremities, swelling is looked upon as a favorable symptom. It relieves the vessels of a portion of their burden. But, again, if it takes place in the brain, sub-mucous cellular tissue of the glottis, or any part, the functions of which will be interfered with by pressure, it is often attended with a fatal result. Swelling should always be accompanied by some of the other symptoms, in order that evidence may be had of the existence of inflammation. It should neither be too sudden; as the tumor made by hernia or dislocation, nor too tardy, as the tedious growth of the genuine tumor. The swelling of chronic inflammation often results in permanent hypertrophy and induration of the part.



Pain. — This, we believe, is caused by the distention of the blood-vessels and consequent stretching of the *nervi vasorum*, and compression of the nerves in the part, also, by disorder of the sensibility. The pain is variable in amount as to the tissue involved. Tissues, that are capable of great distention, are attended with but little pain, as the cellular for example; and those that resist distention, with most excruciating pain, as bone, ligament and fascia. The kind of pain is also variable, according to the tissue. In the skin it is a burning, itching or tingling pain, in the cellular, it is throbbing, in the serous, it is acute, sharp and lancinating. Inflammations are not always attended with pain at first; for,

in some scrofulous cases, it runs on to complete disorganization without any pain being felt. Again, it is often felt at a distance from the seat of inflammation, as in hepatitis; it is felt in the right shoulder; in carditis, down the left arm; in coxalgia, in the knee joint; in inflammation of the kidneys and bladder, at the meatus urinarius. By pain alone, we cannot conclude, there is inflammation present; for in neuralgia and spasm, there is pain of the most intense kind; but in these affections it is relieved by pressure, whereas in inflammation it is aggravated. Pain, though, by its long continuance and severity, calculated to break down the nervous energy of the patient; nevertheless its sudden cessation, is looked



upon as an ill omen; it denotes that the part, being no longer capable of withstanding the intensity of the inflammation, has ceased to live; all vital action has stopped; the sensibility being destroyed, the part is not capable of feeling the destructive action. This state is termed mortification.

Heat.— This is produced by the oxygen of the blood, acting upon the carbon and hydrogen of the tissues. As there is an increase, in the amount of blood, circulating in the part; there must of necessity be, more oxygen conveyed to the tissues. And this increased oxydation of the tissues is the cause of the elevation above the temperature of a healthy part, but the burning heat, as expressed by the patient, is not

actually true; it depends, in a great measure, upon the increased sensibility; for, it has been determined by actual experiment that the heat, in the inflamed part, does not exceed but little the temperature of the body at or near the heart. Heat, alone is not a sign of inflammation, for instance, in the palms of the hands and soles of the feet of persons suffering with phthisis in its last stage, there is often an actual burning, of the part as the patient expresses it.

Increased Sensibility.— This is, partly, owing to the irritable condition of the nervous system, during inflammation, and partly, to the pressure exercised on the terminal branches of the nerves by the

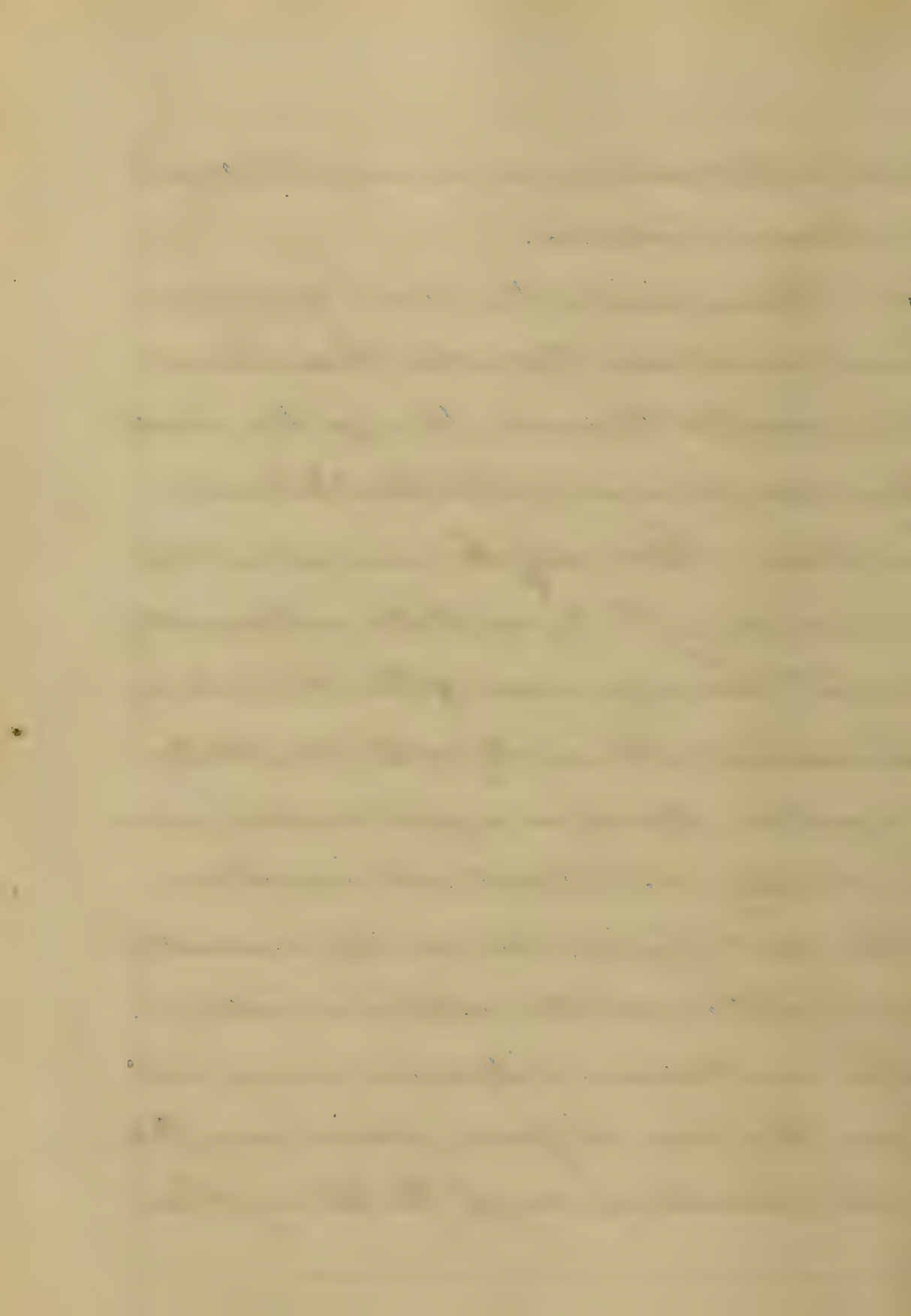
dilated vessels.

Increased sensibility is well exemplified in the disorder of function, which partly depends on the congested condition of the bloodvessels and partly on the increased sensibility of the nerves. The function is at first increased, then perverted and finally suppressed. In the inflamed eye, the flashes of light, that are seen become intolerable. In the brain, the organ of intellect, the function is first increased, as may be exemplified by the delirium, and then suppressed, as in coma. The ear cannot bear the least noise. The stomach rejects almost every thing introduced into it. In the bladder and kidneys a constant desire exist to urinate. The disorder of function, in in-

ternal inflammations, is an important guide to a proper diagnosis.

Having finished the local symptoms, I will proceed now to consider those changes which manifest themselves, through the constitution, and hence, are called Constitutional Symptoms. These may be arranged into two divisions; viz, 1st. Sympathetic inflammatory fever; 2nd. The appearances of the blood during inflammation. The severity of the constitutional symptoms depends, in a great measure, upon the intensity, extent and vital importance of the part affected; also, on the amount of local irritation; whether external or internal.

The constitutional disturbance always assumes the form of fever; which may take on the character of one of the three follow-



ing varieties, according to the constitution of the person affected. The fever may be Sthenic, Asthenic, or Irritative.

The sthenic form occurs in young, vigorous, robust persons. It generally commences with rigors and depression, followed, in a short time, by reaction, characterized by headache, flushed face, hot and dry skin, anorexia, nausea and sometimes vomiting, a frequent, full, firm pulse; though the firmness and fullness of the pulse vary a great deal, depending on the tissue or organ involved.

If it be a mucous membrane, skin, or glandular structure, the pulse is compressible though full. If it be a serous membrane, it is small, incompressible and wiry; if a fibrous tissue, it is hard and full. The secretions

are arrested or diminished in quantity, the bowels are costive, the urine scanty and high coloured, the tongue dry and covered with a white fur. There is often extreme thirst. When the fever declines, and a favorable result is about to occur, the system is often relieved by a critical discharge, which may take place from the skin, the bowels, the kidneys or from some of the mucous membranes, in the form of hemorrhage.

The asthenic form of fever occurs mostly in old persons and those whose constitutions are broken down by privation, dissipation, or any of the depressing causes of disease. This form is characterized by debility rather than strength. The period of de-

pression is longer and reaction takes place but slowly and imperfectly. It is liable to visceral complications, as inflammation of the lungs. The pulse is frequent, but, weak, the tongue is dry, of a dark brown colour, and in bad cases the lips and teeth are covered with sor-des. There is a tendency to early delirium.

The irritative form is mostly associated with the asthenic. It occurs in individuals whose mental powers have been over-taxed, or in irritable systems that have been shattered by intemperance. It is known by its irregularity of action, sudden aggra-vation and rapid decline. The fever is high at first, but the pulse soon becomes small and sharp; the delirium is of a furious kind; eyes, wild and, head hot. These symp-

tooms soon give way to those of debility and exhaustion.

The appearances of the blood in inflammation are the following. If blood be drawn from a person suffering with inflammation, and received into a spherical or deep vessel, it presents a peculiar appearance; it separates into two parts; viz, the clot or crassamentum, and the serum. The clot is firmer, denser and takes place more slowly than in healthy blood. The diameter of the upper surface is less than that of the lower, and is covered with a bluish ^{white} layer composed of fibrin. This is termed the buffy coat, and appears in nearly all inflammations; though why it is sometimes absent, I cannot tell.

This state of the blood seems to be produced by some vital ^{change} taking place in the process of inflammation. The same condition is noticed in the blood of pregnant, and chlorotic females, and sometimes in that of persons with general plethora.

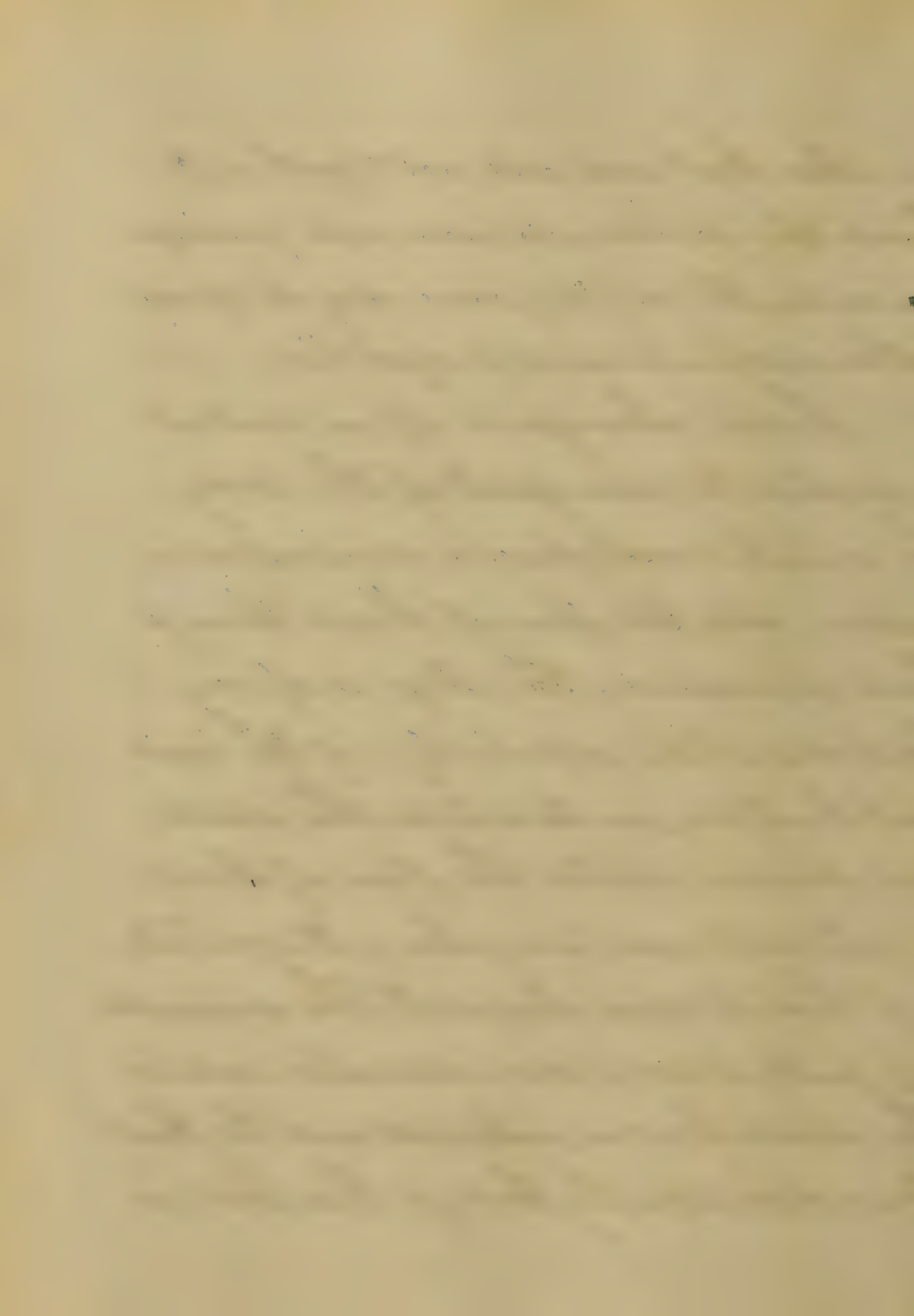
The causes of inflammation may be divided into predisposing and exciting.

Predisposing causes.— A sanguine temperament, plethora, intemperance, too great exercise, foul air, bad food and clothing, and previous disease are the most obvious predisposing causes of inflammation.

Exciting causes.— These may be direct, as caustics, acids, salts, wounds and blows; indirect or vital, such as exposure to heat and cold especially the latter,

for where heat and cold act together, I think the former acts more as a predisposing cause. The exciting cause may be specific, as the vaccine virus and syphilis.

Local changes.— If an irritant be applied to some part of the body, the minute vessels become diminished in calibre, and the flow of blood through them is increased. This stage is of very short duration, especially, if the irritant be strong in its action. The vessels now become dilated. The flow of blood is retarded and irregular; it oscillates, and then becomes stagnant. The surrounding parts become more vascular and red. The vessels become distended and the blood flows more rapidly through them than in



health. New vessels are now seen, which before escaped notice. The red corpuscles which passed through them single, now enter in abundance. The morbid action still continuing, the vessels become so distended that the current of blood is entirely arrested. Change now begins to take place in the tissues outside of the vessels. The constituents of the blood now become effused into the cellular tissue, or hemorrhage may result from rupture of the vessel. But the exudation of the liquor sanguinis is the essential phenomena of inflammation, since either or all of the other constituents may be effused in congestion. When the liquor sanguinis is absent, these changes should ^{not} be hastily received as an

evidence of inflammation.

Termination, result, or event of inflammation. — Inflammation may terminate in resolution, or in death. It may result or event in metastasis, in effusion, suppuration, ulceration or mortification.

By resolution, we mean the restoration of the part to health without any farther change occurring than simple inflammation. When the local symptoms subside, then the constitutional ones give way. The vessels be^{gin} to contract, and the stagnant blood to be propelled onward. The absorbents held in check, begin now to perform their office, and complete Nature's efforts to restore the part to health.

Metastasis means the disappearance

of the inflammation, and its reappearance in a part, separate from its original seat.

Metastasis may take place; 1st. By local extension; as in erratic inflammation of the skin, inflammation occurring in one part after its decline in another. Perhaps this would not be considered by some, as an example of metastatic inflammation, but to my mind it is perfectly clear that it is; for I understand the word metastasis to mean a change of place.

2nd. By contiguity of tissue; as from one articulating surface of a joint to another.

3rd By the morbid materials being conveyed in the blood; as, inflammation occurring in the lungs or liver after phlebitis, from absorption of pus, or from

dissection wounds.

The other results or events of inflammation differ so widely from its ordinary course, and from each other, as to constitute distinct diseases; therefore I will not say any more about their nature or treatment.

Treatment of Acute inflammation.

The treatment of inflammation essentially consist of the removal of the cause, both local and constitutional. The patient should be freed from all sources of irritation. Perfect rest of the part or organ, if possible, and an elevated position should be maintained. And all those means which we term antiphlogistic should in their turn be tried promptly and

and perseveringly. In treating inflammation, we should not be guided by the name of the disease, but by the condition of the patient. If an important or vital organ be the seat of the morbid action, and the patient be young and robust with a strong full or hard pulse, general blood-letting should be resorted to immediately. As to the amount of blood to be taken, no precise quantity can be stated, we should be guided by the age of the person, his strength, the part affected, and the effect it produces on the pulse and system. If the patient be not so strong as to bear the general abstraction of blood, cups and leeches should be applied. They should not be applied

immediately to the inflamed ^{part}, but in its vicinity.

After bleeding, or before, when that is not deemed advisable at first, cathartics should be used, and are important agents. They remove the accumulating faeces, which would act as a source of irritation to the system. They both deplete and act as revellants; therefore are useful remedies and should be early administered, if not otherwise contraindicated; such as in inflammation of the intestines, or in parts that would be injured by the movements consequent upon their action.

If the stomach contain food, an emetic should be administered, unless the head be affected, which would be

injured by its use. The act of vomiting produces determination of blood to the head.

Arterial sedatives are most valuable aids to the lancet, and have almost superseded it now, for general blood-letting is but little resorted to in this country, unless the inflammation be violent or be seated in a vital organ.

Diaphoretics and diuretics are employed, and form valuable adjuvants to other and more important means. Administered through the day, such as antimony, ipecac, and opium, nitre, citrate and acetate of potassa.

Mercury I suppose has been more used, and more abused in the treatment

of inflammation than any other one medicine in the *Materia Medica*. It is an important agent beyond doubt, for it has been in use from very early ages in the history of Medicine. Time, certainly must test the efficacy of remedies, and we now see it as much used, perhaps more than ever. It is used not only for its cathartic action but also for its modifying effects on the blood and system. It prevents the effusion of the constituents of the blood, especially the fibrin, and promotes the absorption of that already poured out. It also has an effect on the blood and the process of nutrition, which action is termed alterative, and is unexplainable. Calomel, blue mass,

mercury with chalk, and mercurial ointment, are the preparations used to produce its effects on the system, which is evinced by the copious taste, a red streak upon the gums, increased flow of saliva with tenderness of the glands and tumefaction.

Opium is useful. It prevents the cathartic action of Mercury when it is desired that its effect upon the system shall be produced. It also allays pain and irritability, which would soon exhaust the energy of the patient and defeat the object of our hopes.

In the latter stages of inflammation, when the violence of its action is subdued, or when the powers of life begin to

flag, and stimulation is necessary or when other means fail, blisters are often successful in arousing the failing strength of the system and enable the patient to survive the depressing influence of the morbid action. They act as counter-irritants, by setting up a new disease, they divert the blood and nervous influence from the seat of the original disease. They are useful in the, asthenic form, from the beginning where depletion is not required, but, on the contrary, stimulation.

The diet should be low, bland and unstimulating. No animal food allowed at all, and not much of any kind.

The local agents are cups, leeches, cold, warmth, sedatives, astringents, and

stimulants. Cups and leaches I have already spoken of.

There are two stages in which the application of cold to the part will be useful. In the first stage of inflammation when there is a hope of obtaining resolution, and secondly, when the inflammation has subsided, the vessels are left dilated from over distention and the tissues are relaxed. There are various ways in which it can be applied; viz. cloths, bags of ice, lint, or pouring it from a vessel. Perhaps the best mode is irrigation, where a constant stream of cold water is allowed to flow upon the part. This is a remedy that cannot be used in all inflammations; such as those

of the abdominal and thoracic viscera.

When the hope of obtaining resolution has passed cold should be laid aside and warmth substituted. This can be applied in the form of cataplasms, cloths wrung out of hot water, fomentations and baths. They soothe the part and promote suppuration, and should always be applied when cold is inadmissible. But in the use of cold and warmth, we should always be guided by the feelings of the patient, for in some persons cold produces a feeling that is very disagreeable, while warmth, with moisture, will be the most soothing agent we can employ, and vice versa.

When an abscess forms, if it be pos-

sible; it should be opened or unpleasant consequences will result.

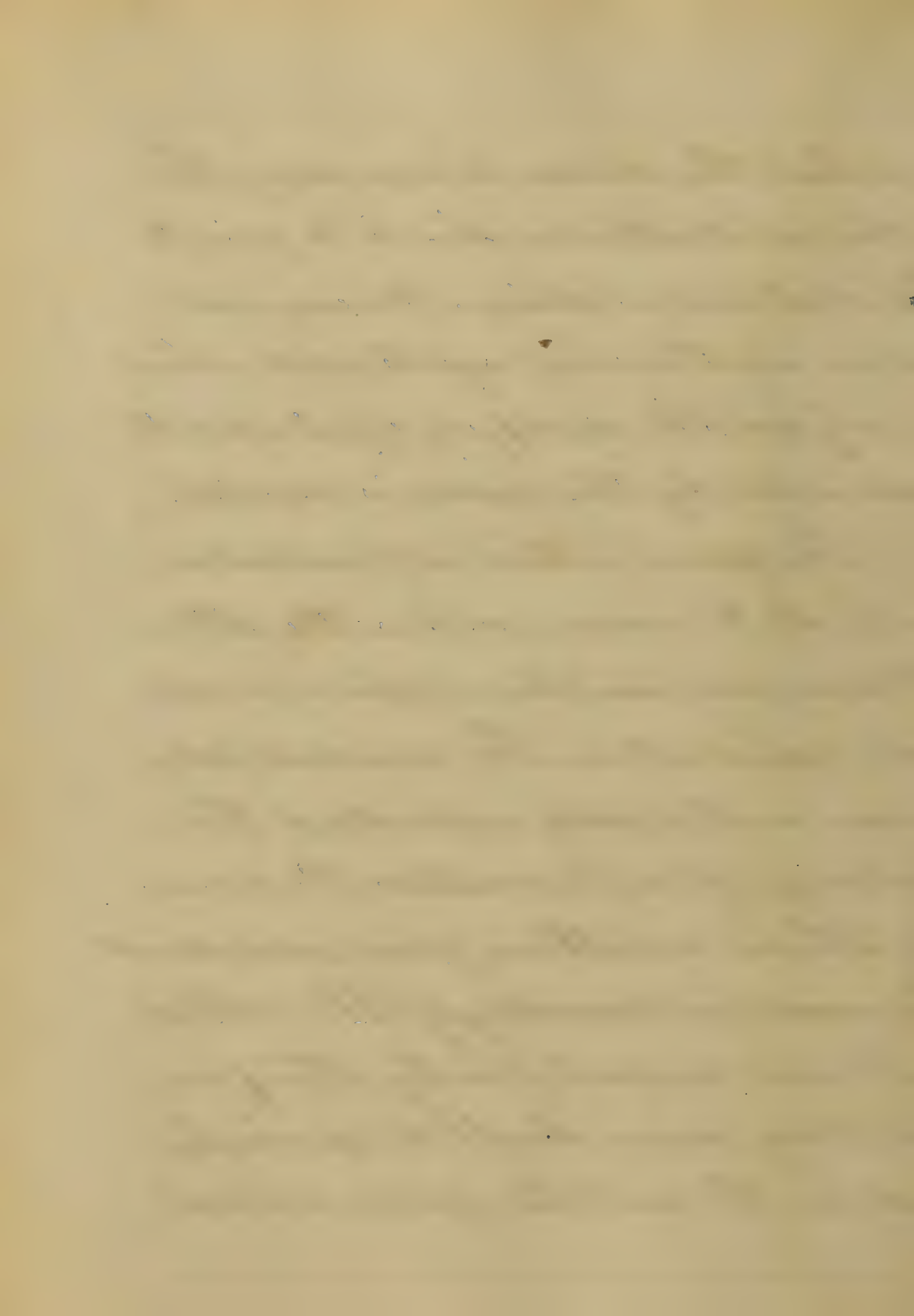
Chronic inflammation will not require much of a separate consideration.

The local action and changes are very near the same as the acute, only ~~more~~ mild^{er} and slower. It is attended with a great deal of vice of the constitution; to which our remedies are chiefly to be directed. The indications for treatment of the local affection are the same as the acute, only, in proportion to the disease, and constitution of the patient.

We must direct our attention to the system, correct all unpleasant symptoms that may arise, promote the secretions and correct the state of the blood up-

on which the disease is depending. To do this strict attention should be paid to the diet and clothing. Mercury and iodine are the chief agents upon which we rely for the modifying effect upon the blood, whereby the disease is defeated.

The forms, which inflammation, ^{is} ~~are~~ liable to assume, such as the sthenic, asthenic and irritative, require no separate consideration. The prudent physician will readily understand the tendency of inflammation to assume the sthenic or asthenic form, and direct his remedies accordingly. The asthenic will need support finally, therefore, depleting means should be sparingly used; in the irritative form, cerebral



sedatives are the agents, upon which we rely, in combination with the other antiphlogistic means.

Now, gentleman, I have done, and in submitting this to your inspection, permit me to acknowledge to you my hearty thanks, for the instruction that I have received at your hands, and for which, I assure you, I shall ever feel the utmost gratitude. I beg of you to remember that this is from a medical student, and not to view it with a critic's eye, but pass its many imperfections by.

Very respectfully.

W. T. Kemp.

An
Inaugural Dissertation
on
Aneurism.

Submitted
to the
Examination

of the
Provost Regents,
and

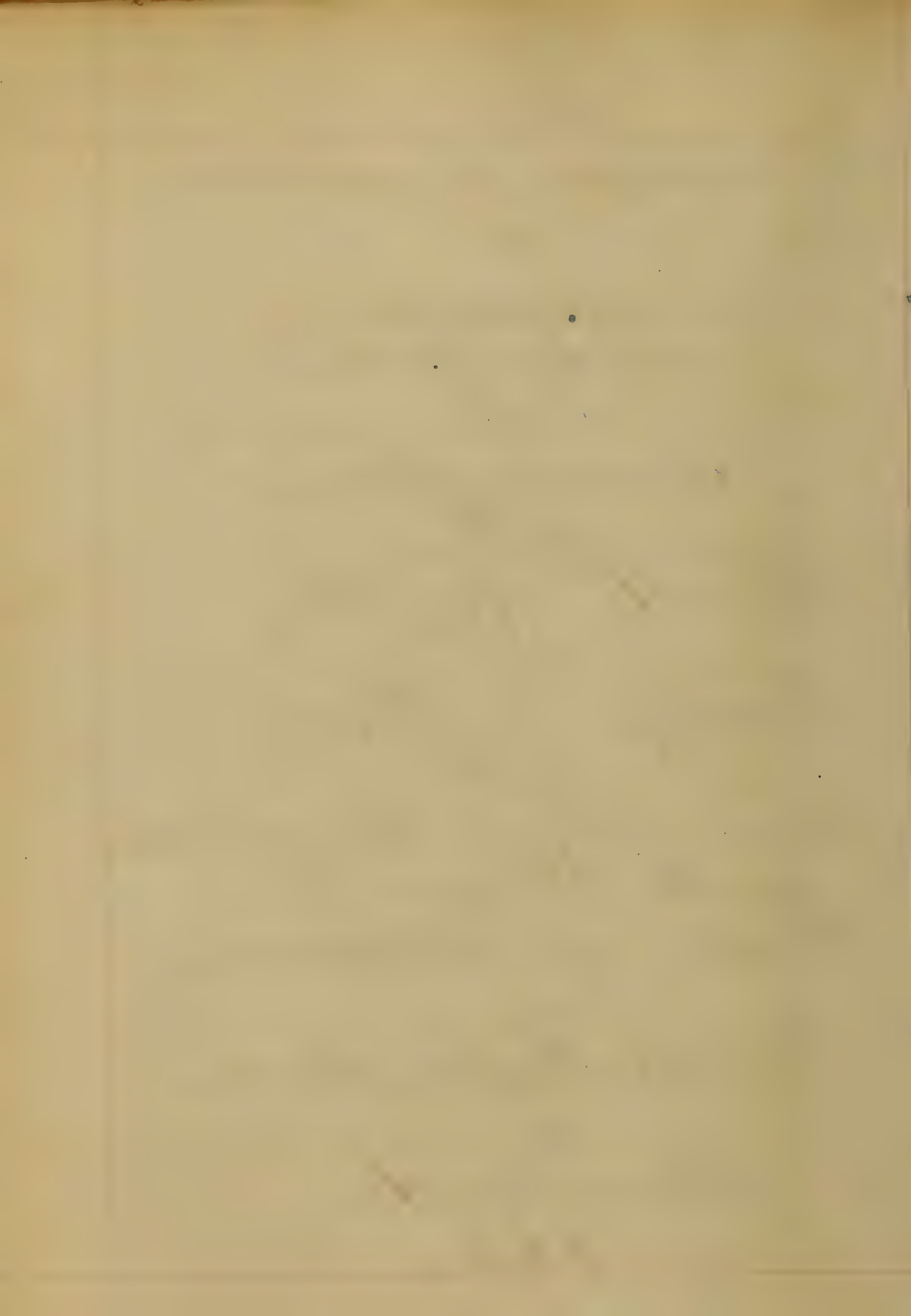
Faculty of Physic
of the

University of Maryland;
for the Degree of
Doctor of Medicine;

by
Walter R. Smith

of
Maryland.

1863



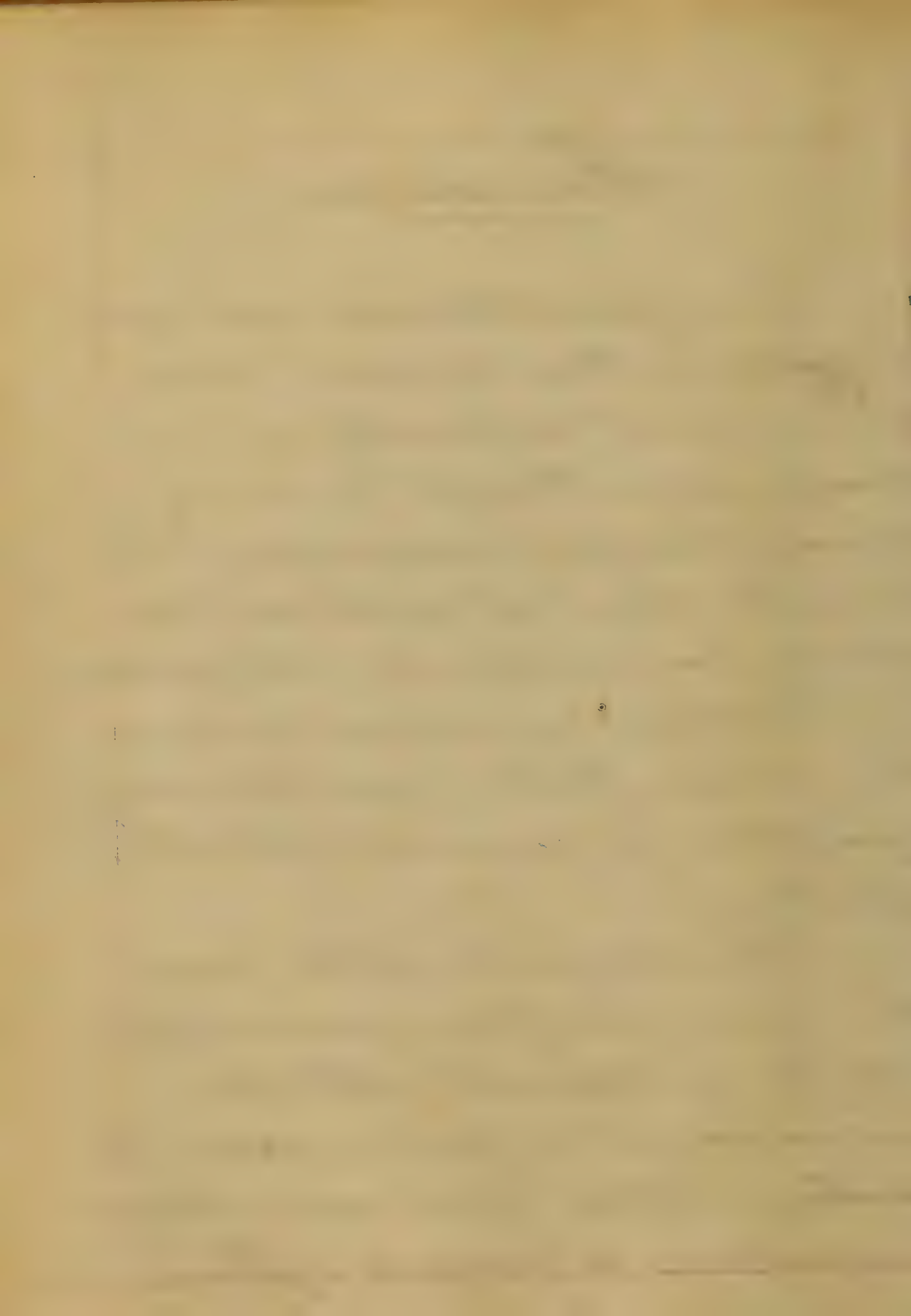
Aneurism

Early practitioners were much puzzled by this disease, and found great difficulty in its diagnosis, though it may seem strange to surgeons of the present day that such obstacles should have presented themselves.

Modern experience however has shown that it exhibits many symptoms in common with other affections.

The derivation of the word aneurism has been given differently by different authorities.

Some say it is from *expansio* - to distend, - others - from *aneu* without and *puos* or *puos* rhythm;



But we can perceive a plausible
^{derivation} α ρευρος - relaxed - nerveless
from α and νευρον - a nerve.

This is not very important,
but it is best to begin at the
beginning.

Doubtless the difficulty origin-
ally in the study of Aneurism,
was an exceedingly imperfect
knowledge regarding the cir-
culation of the blood, which was
a great mystery, until modern
science unveiled it.

The ancients were even ignor-
ant of the existence of blood in
the arteries; it was thought that
they contained, what they called
the vital spirit.

It was not until Harvey discovered the circulation of the blood, and demonstrated it to Charles I, that any very definite idea was arrived at.

It had been discovered before Harvey's time, that there was blood in the arteries, but, of the manner in which it was conveyed to the different parts of the body, they had no idea.

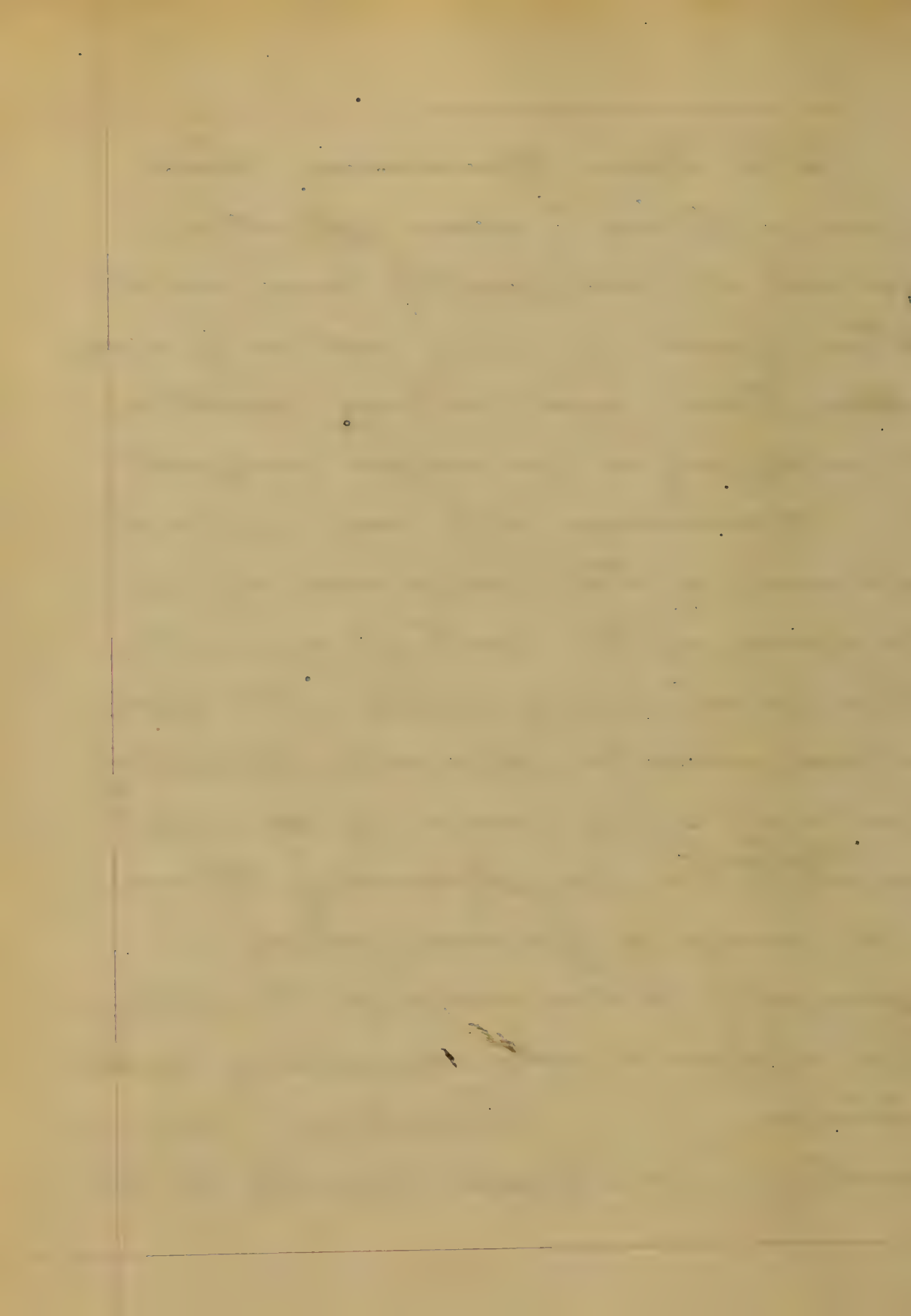
Even in our own time we have some difficulty in the diagnosis and treatment of this disease.

Doubtless we may hope that in the future some one ^{may} offer something new which ^{will} dispense with much trouble.

The term "aneurism" has been applied to some affections which do not rightly come under that head. We will only mention these, and confine ourselves principally to our proper subject.

Aneurism is a bag or pouch formed by the distension of one or more of the coats of an artery, the pouch being filled with blood, which pulsates, generally perceptibly but not so, if covered by ~~a~~ sufficient ^{thickness} of the neighbouring tissues.

A tumor is formed, which is generally to one side of the artery, the opposite side remaining undistended. Sometimes an artery is distended equally on all



sides, This is not a true aneurism, but has been designated preternatural dilatation.

There ^{are} various kinds of aneurism, distinguished by the manner in which the sac is formed -

It may be a distension of all the arterial coats, or any one or two may have been ruptured, leaving the remaining coats or coats to form the sac.

True aneurism is the term applied when at least one of the coats remains, the aneurism becoming false when all the coats have been ruptured by distension, or, as is more generally the case, when broken by direct

violence.

All varieties of aneurism proper are comprized within the boundaries of true and false.

Any number of varieties might be found, but we think it unnecessary to worry ourselves, at present, with a host of terms, and minute subdivisions.

We will leave it, ^{to} older and more experienced pens-

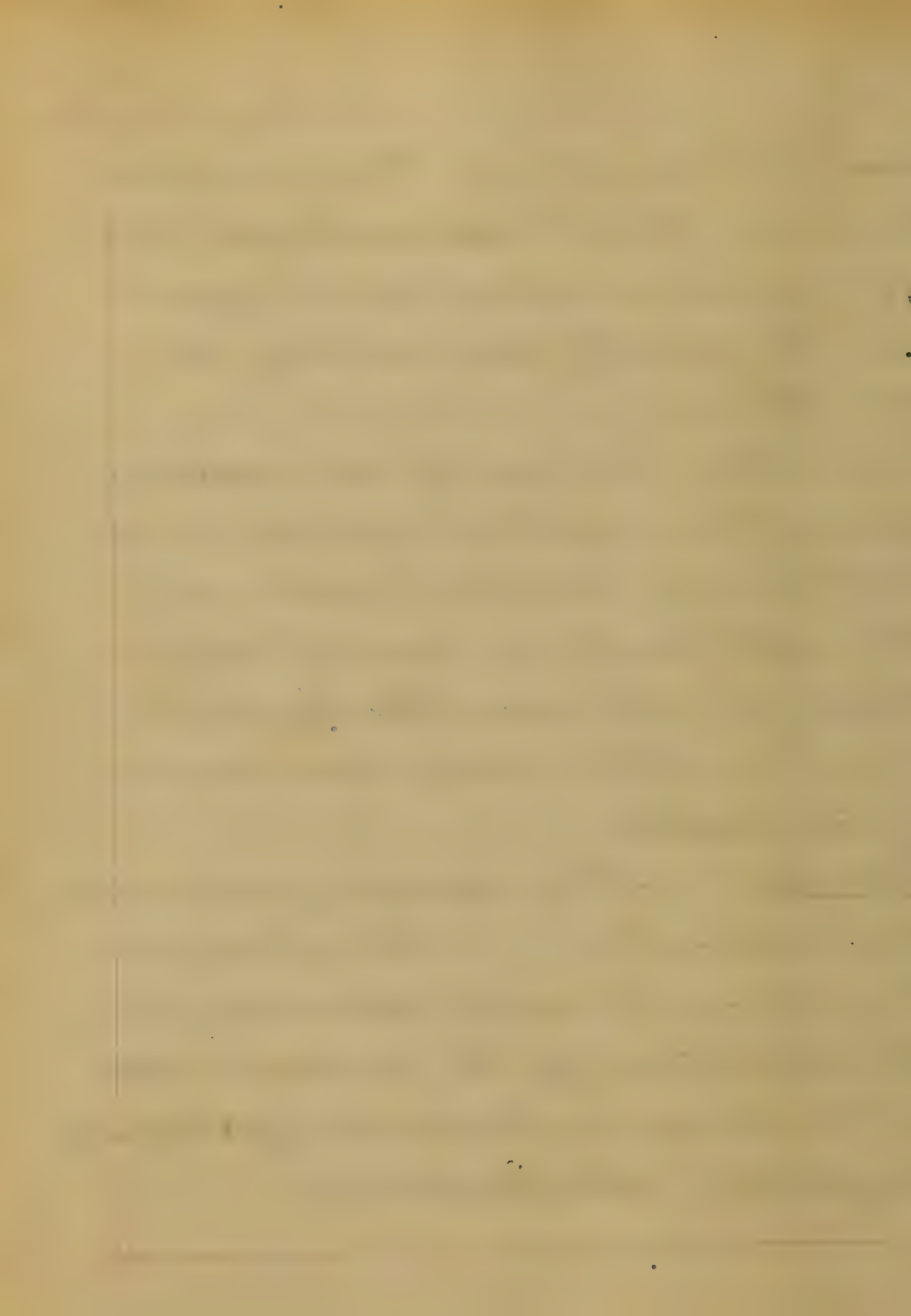
Generally the two inner coats, being fragile, are ruptured in the early stage of the disease - the outer one becoming, by adhesion to the surrounding ^{parts}, somewhat thinner though stronger.

Aneurism may be dangerous not only from the liability of the

sac to be ruptured, thus sometimes causing fatal haemorrhage, but from pressure upon some organ in the vicinity - impairing its functions.

In the progress of an aneurism, every tissue which resists it, is liable to be absorbed, not only the soft parts, as muscle, adipose tissue &c., but even the hardest bone - This may also cause fatal results.

Causes. The causes of aneurism are various. The predisposing cause is most commonly a degeneration of the arterial coats. This may be produced by Scrophula, Syphilis, intemperance &c.



The coats, being thus in a morbid state, lose many of their important properties, becoming brittle and less capable of resisting pressure. Hence when any undue pressure is brought to bear upon them, from within, there is apt to be a giving way in the weakest place.

(This state has been termed the aneurismal diathesis)

This pressure is caused generally by some violent exertion of the body, or by an internal spasm as a cough or sneeze. A blow has frequently caused an aneurism, physical and predisposing causes thus co-operating.

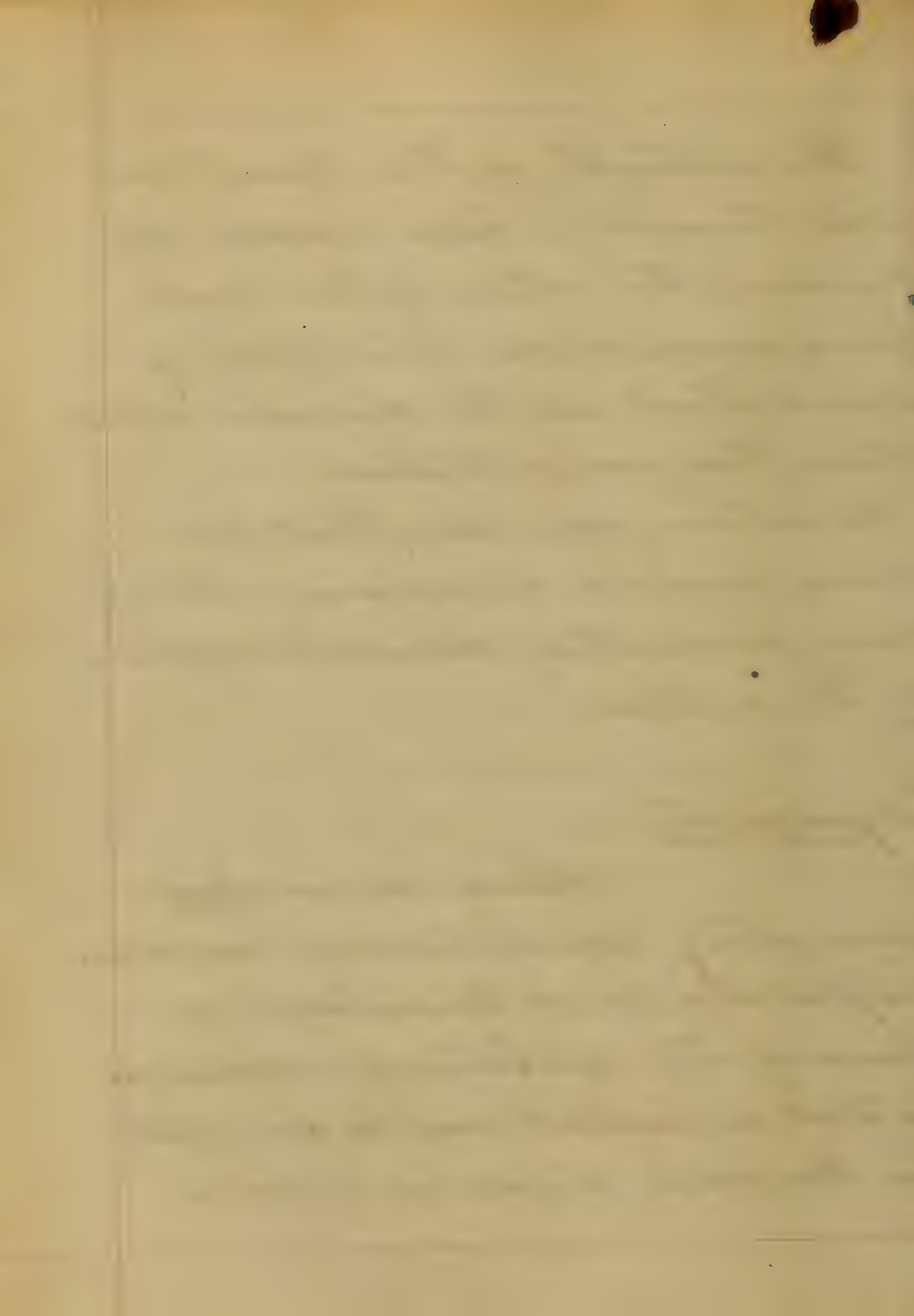
Hypertrophy of the heart has been thought to have caused aneurism, the action of the heart being increased, and thus forcing more blood into the diseased arteries than they can withstand.

We believe, some say, that this may produce aneurism, without any pre-existing diseased condition of the arteries.

Symptoms.

There are no pre-
monitory symptoms of aneurism.

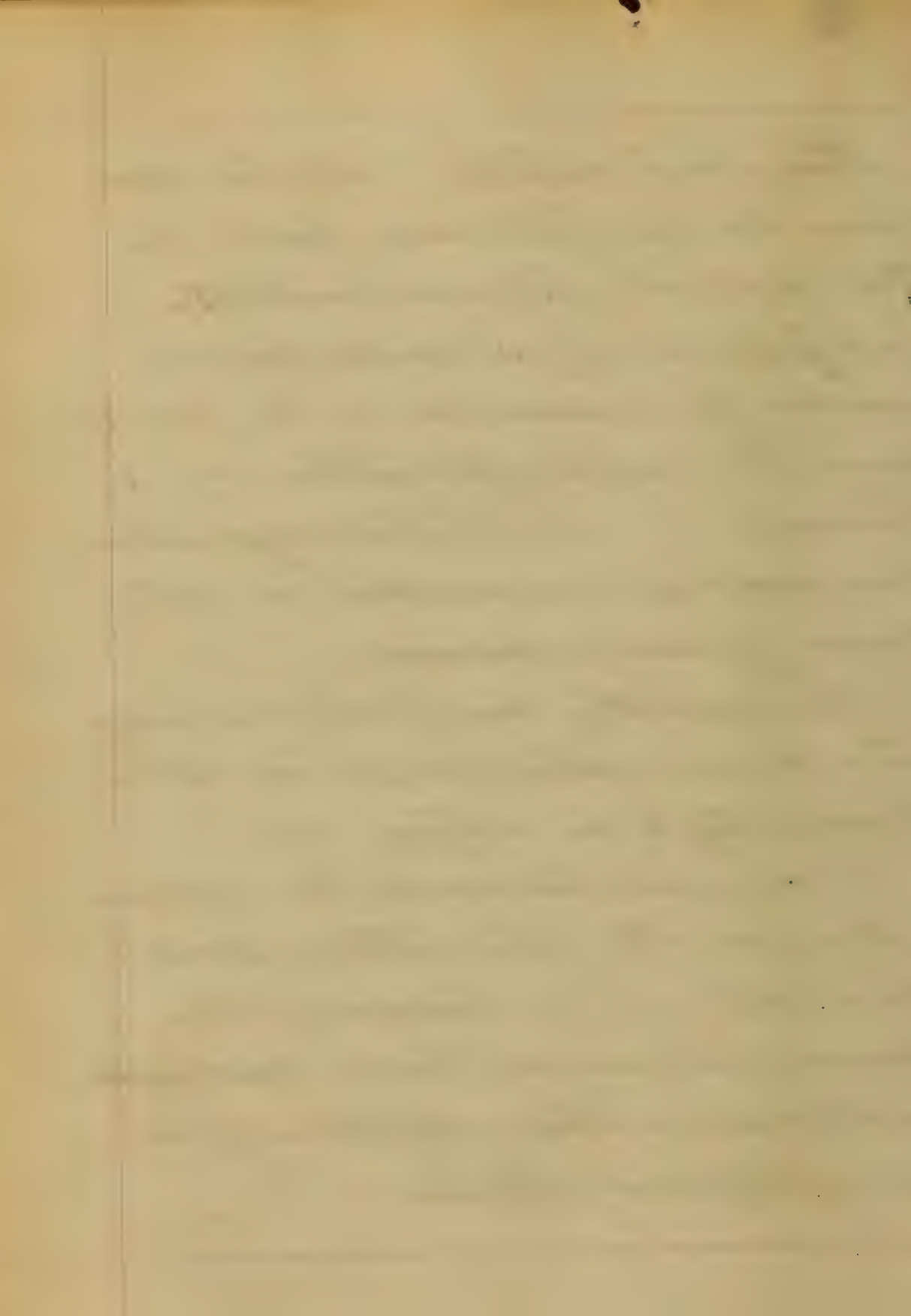
Often the first knowledge we have of the existence of aneurism, is, that our patient says he has felt, in the part, a "pop", as if some-



-string had burst.::: at the same time he has felt some pain in the spot, sharp for an instant, but followed by a continued sensation of uneasiness in the part, and the rapid formation of a tumor. This symptom has not been remarked in all cases by any means.

Frequently our first warning is a tumor, seated over, or in close proximity to an artery.

When first discovered, it is generally smooth; the outline oval or round. Some of the symptoms, as we have said before, are found in other affections of a very different nature.



A common fatty tumor lying over or under the trunk of some large artery may often be called aneurism by the inexperienced.

The pulsations are distinctly felt, but the other symptoms which determine the existence of an aneurism are absent.

Sometimes the absence of pulsation is owing to the fact that the soft parts cover the sac in such a manner as not to allow of the beats being felt.
~~or heard.~~

Auscultation discovers a sure symptom. When the tumor is of some size, we can distinguish, by the ear or stethoscope, a whizzing noise concomitant with the beats of the heart.

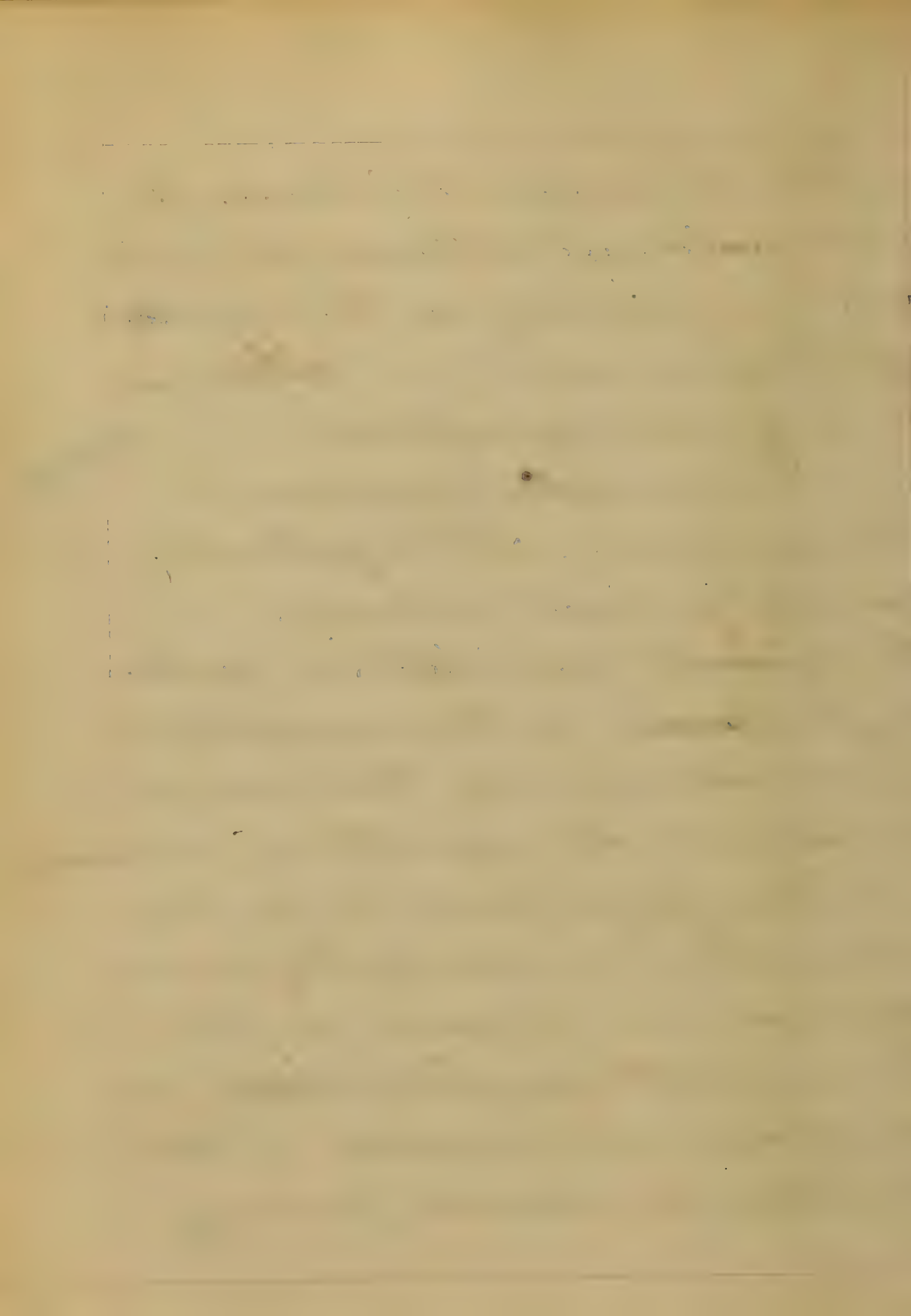
When the finger is pressed for a

little while upon the tumor, it will yield and collapse, but will fill immediately on the removal of the pressure— This is a very sure symptom.

Traumatic aneurism is always false. It is generally caused by direct violence.

A separate description is rendered superfluous, as the symptoms and treatment are the same in almost all varieties of aneurisms.

The effects produced in the adjacent ^{parts} are principally mechanical. Organs in the immediate neighbourhood are displaced and impaired in their functions, by constant pressure;



If they cannot be displaced,
They are gradually absorbed.

All the soft parts around are
injured to ~~to~~ various extents;

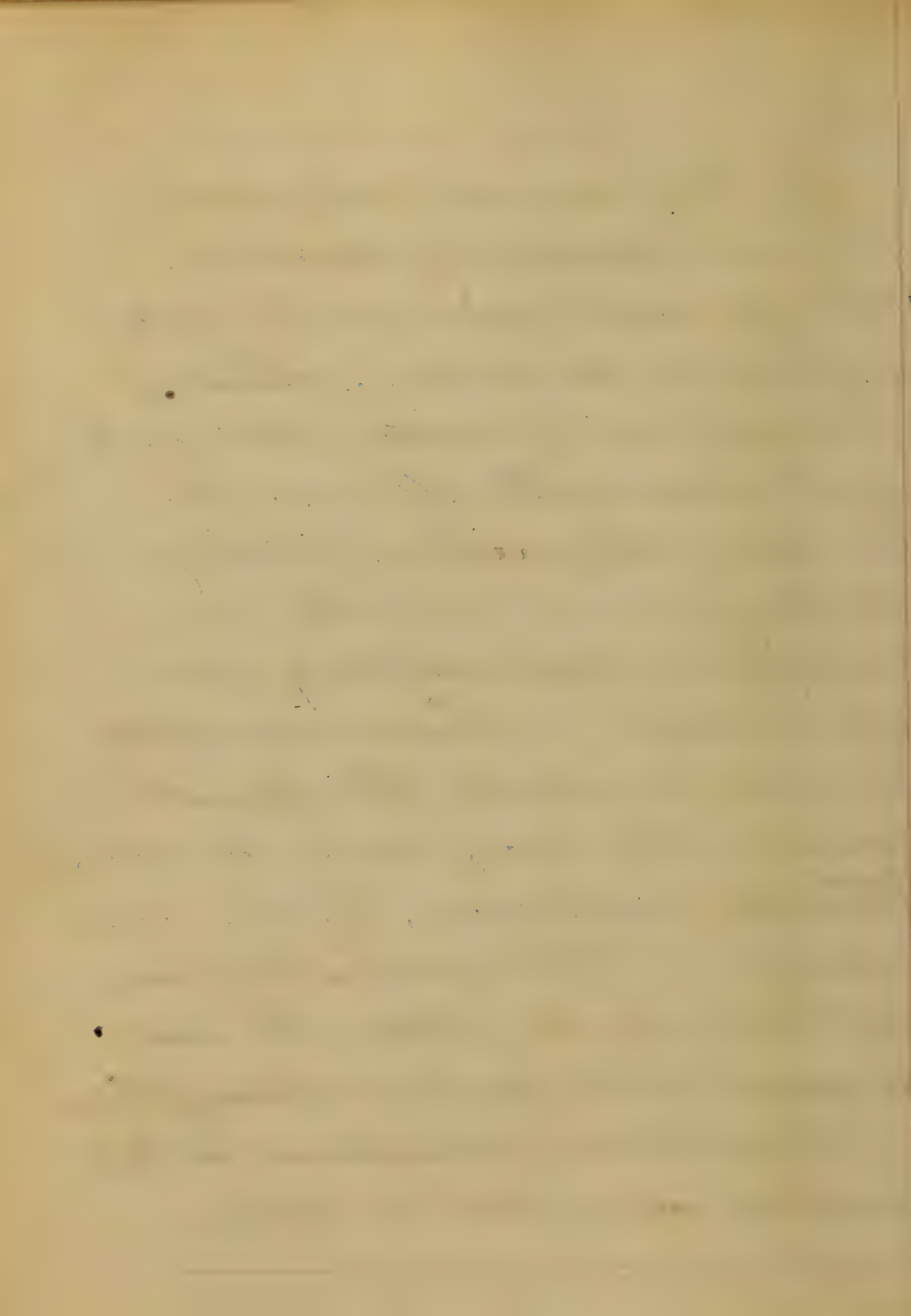
The nerves, muscles, blood vessels
and absorbents, all have their
functions impaired or totally
destroyed.

The bones,
being firm and resisting, are
absorbed.

Cases are related
by some, in which the largest
bones in the body, have been eaten
through, as it were, by an aneu-
rism.

The femur has been
cut through, the tibia, the ribs,
so great is the power of absorption.

Aneurisms, sometimes in their
progress open into a cavity;



which may ^{be} serous or mucous.

Aneurism opens into a mucous cavity much more easily than into a serous cavity; the latter adheres to the sac rendering it stronger. —

The disease is more common to males than females.

It most frequently occurs to persons between the ages of thirty and fifty; but may occur at almost any age —

Treatment —

In the first ^{place}, it may be proper to state, that, in aneurism, there is sometimes, though unhappily rarely, a spontaneous cure.

This may be effected thus —

The laminated coagulum collects in the cavity to a very great extent, and the rush of blood being feeble, the clot strengthens, and adheres to the walls, allowing the progress of the coagulum, and giving strength to resist the impulse; and the patient slowly recovers.

We shall only describe the more practical and useful modes of treatment

Constitutional Treatment—

Very little mention is made by most authorities of the constitutional treatment of aneurism;

hence our remarks on this will necessarily be brief.

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The prevalent idea seems to be to bring the system to such a condition, that either the action of the heart may be lessened or the coagulability of the blood increased.

The use, in small quantities, of solid ^{food}, such as will encourage coagulation, very little liquid food, a state of mental and bodily repose—this ~~is~~ seems to be almost the only treatment indicated.

Of course the bowels must be kept regular, and the other functions.

Bleeding is seldom resorted to, and when it is, we should only take enough blood ~~blood~~ to subdue cardiac excitement, or allay pain.

Unfortunately however, this

Treatment can seldom effect a cure by itself.

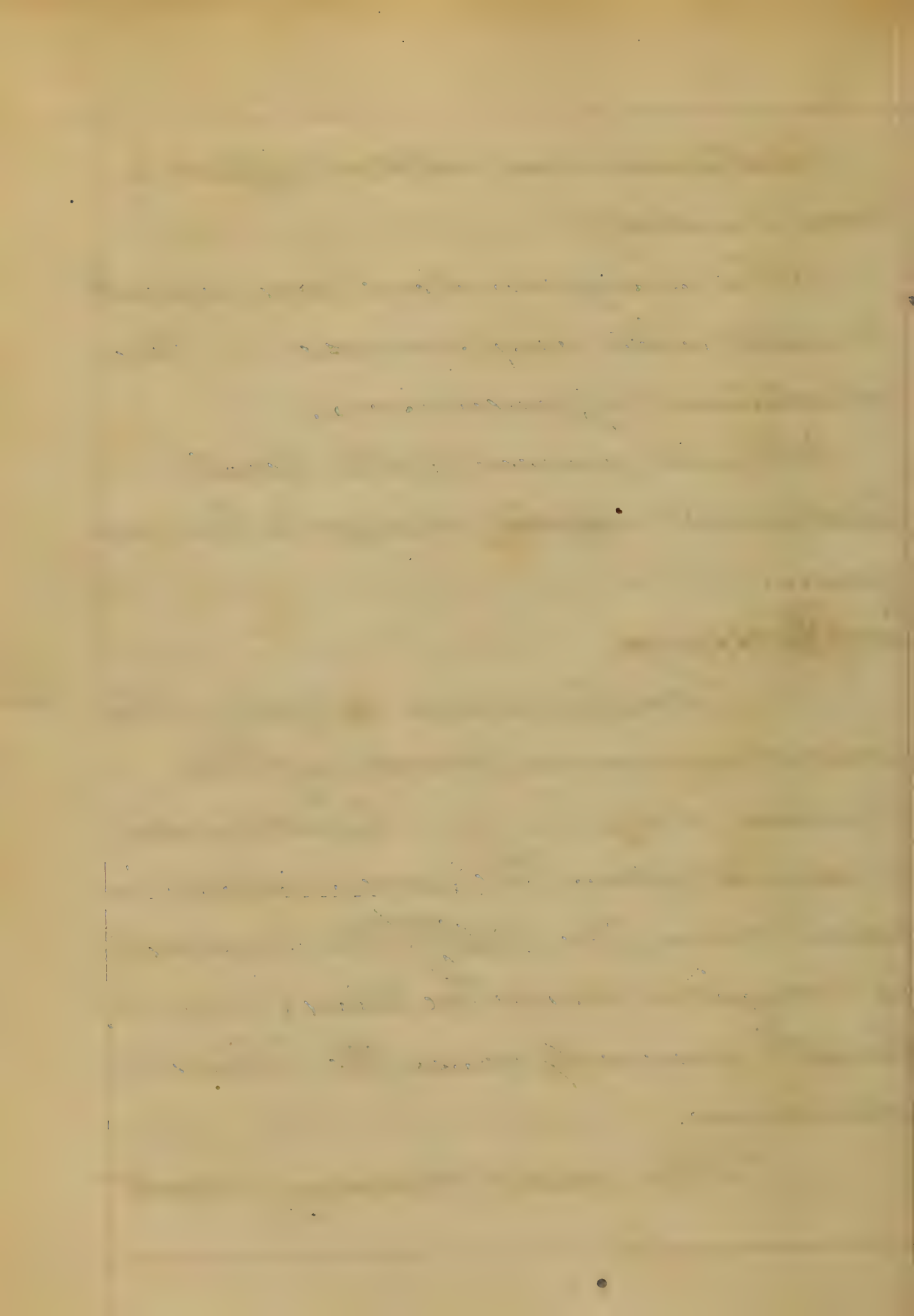
The surgeon alone can expect to meet with any success in the treatment of aneurisms.

We will proceed to the local treatment which belongs to the surgeon.

Compression.

Compression is one of the most common modes of the present day. Continued pressure upon the aneurism, (in cases where the full ^{effect} of the pressure is brought to bear on the tumor) will at length generally cause the tumor to disappear.

The most common seat



of aneurisms are the bend of the elbow and the popliteal region.

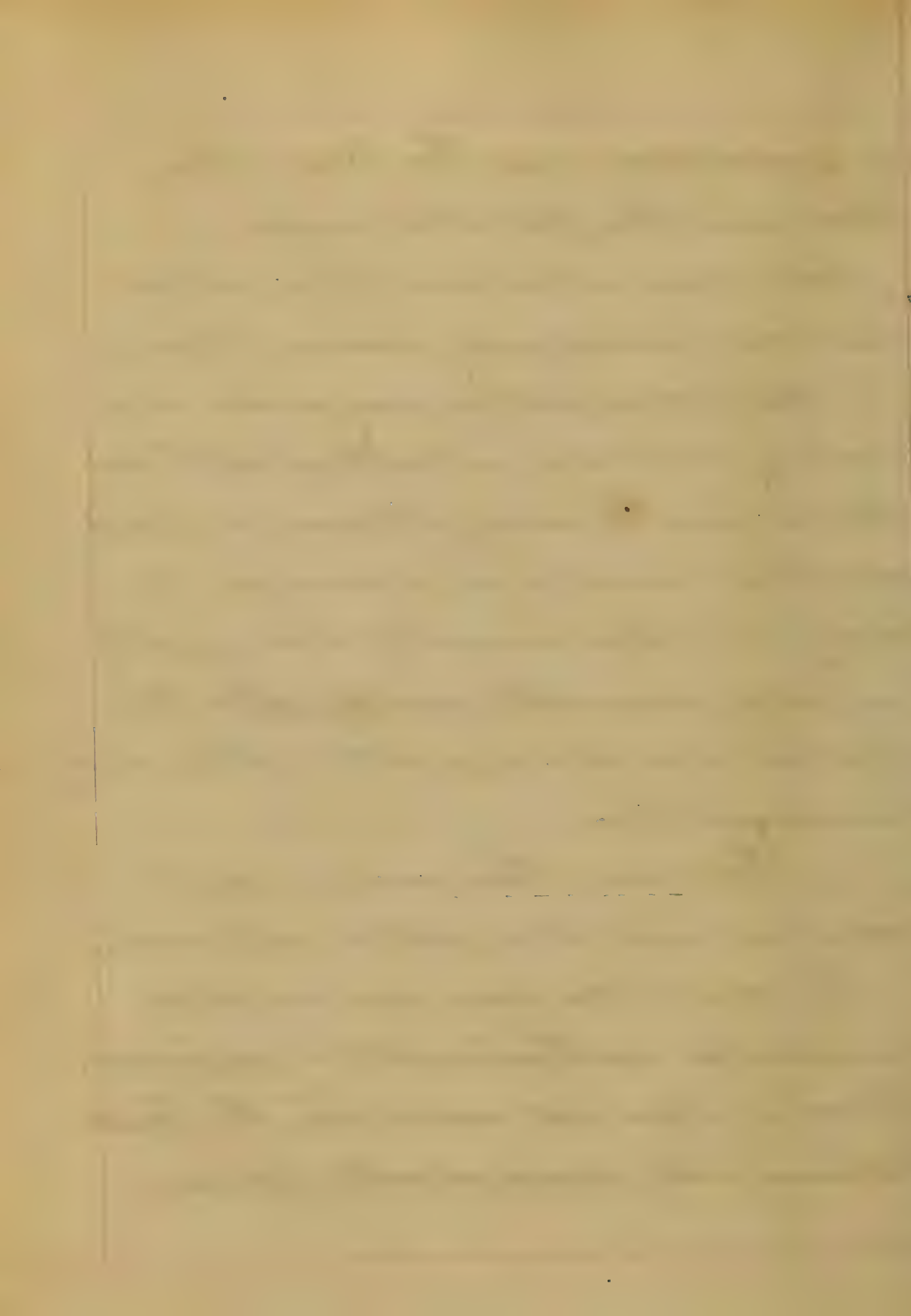
Aneurism in the bend of the elbow has been successfully treated thus -

- An india rubber ring, such as is used by children in cutting teeth, and which may be easily obtained, is placed over the tumor, so as to encircle its base.

The current of blood, greatly impeded, coagulates readily, after the ring has been worn for a little while, snugly bandaged on -

In some other cases, a simple compress and roller will be sufficient.

Of course there have been invented numberless instruments for compression. Most of them are made like the truss. We have not space to enter into a



description of all these instruments,
and it is hardly necessary, as we are
not writing for the instruction of others.

Moreover, we are decidedly opposed
to a complicated treatment in anything.

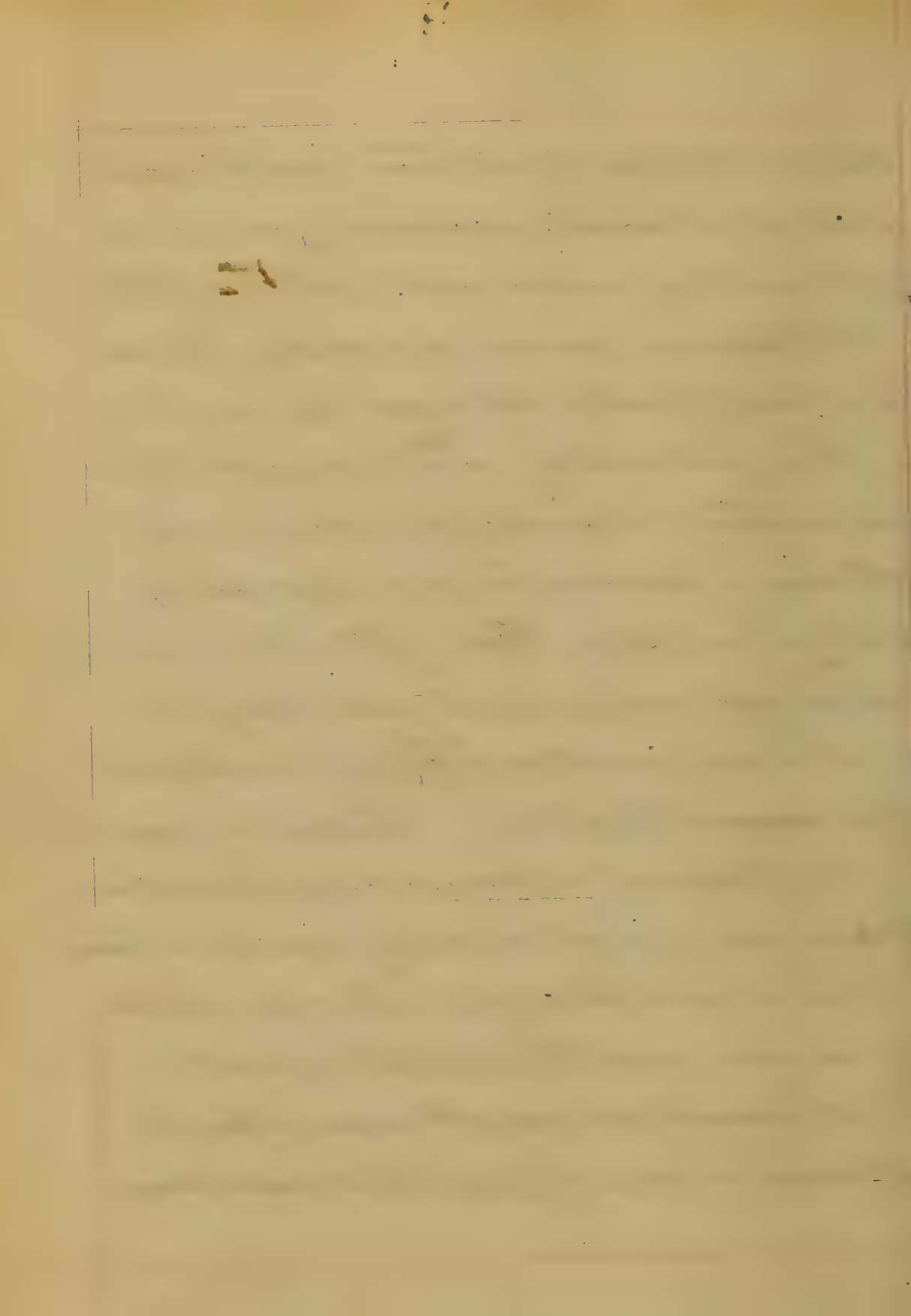
The probability is, ^{that} the surgeon (if he
be worthy the name) can do more, if
allowed to exercise his own ingenuity,
with a few rags, than with all the nicely
arranged instruments ever invented.

In our practice, we ^{should} try to imitate
and assist nature. Nature is simple.

In femoral aneurism, we sometimes
lay a bag of shot directly upon the tumor.

This a good plan, and will often succeed
if we can keep the patient quiet.

A beautiful result may often be
obtained in cases of popliteal aneurism,

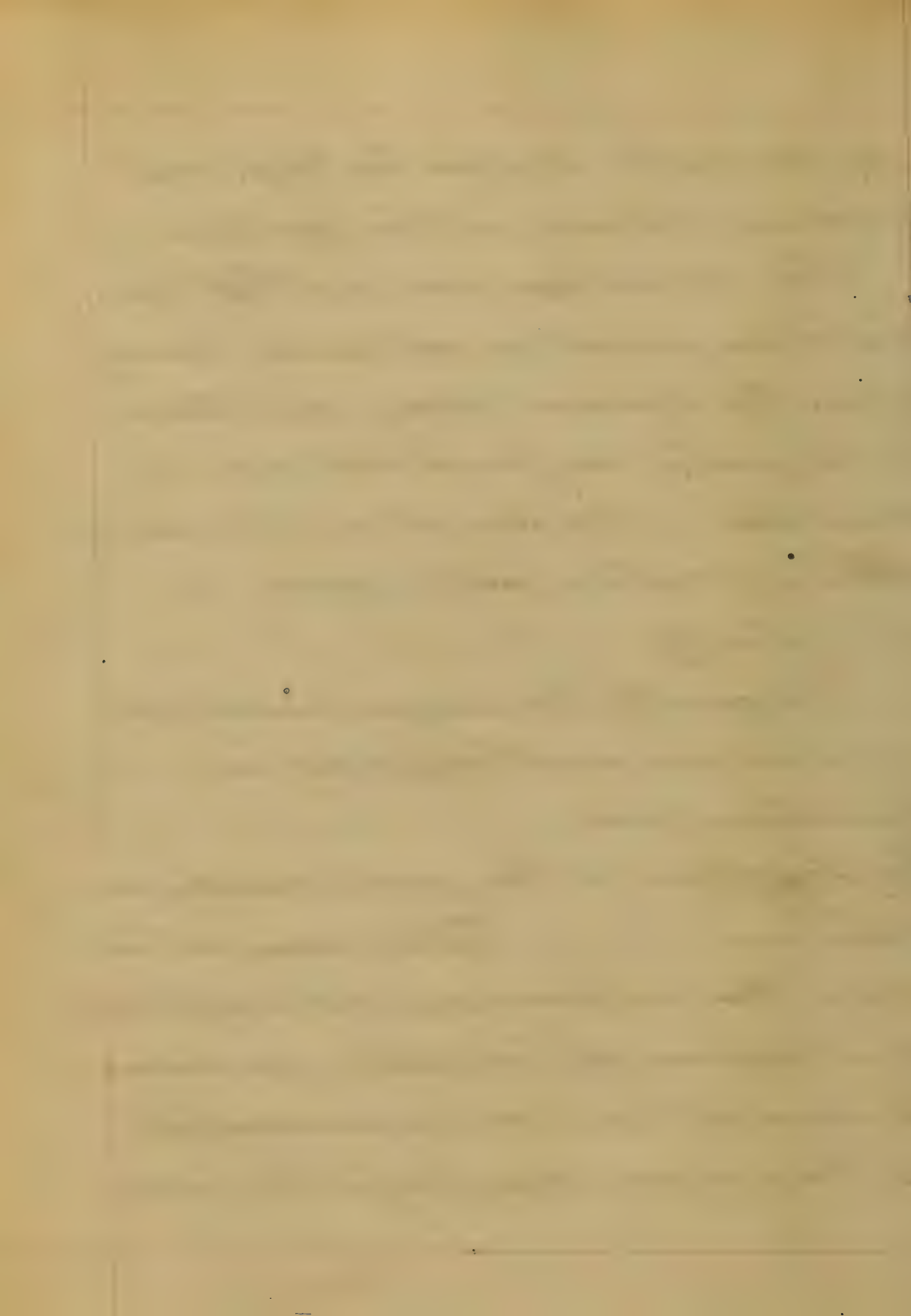


by flexing the leg upon the thigh, and binding it firmly in this position.

The advantages here, are, that we have no irritating substance bearing upon the diseased artery, and there is no pad ^{here} of any kind that can be displaced. We also follow the instructions of nature with regard to simplicity.

Frequently the surgeon must rely upon his own inventive powers in particular cases.

The Ligature is the great remedy for aneurism. This may be tried where ~~the~~ compression is not practicable, (as in diffused or traumatic aneurisms) or where it has been unsuccessful, or, the surgeon may prefer this mode.



to all others.

It certainly is the most satisfactory mode of treatment in most cases.

The danger attending it, is secondary haemorrhage, generally resulting from disease of the artery, which is thus unable to retain the ligature long enough.

A diseased artery should never be tied, and the surgeon cannot be too cautious in determining whether the artery is healthy or not, at the ligated part.

We should make a clean cut down upon the artery, and no larger than is absolutely necessary, as one which is too large or ragged might bring on sloughing of the

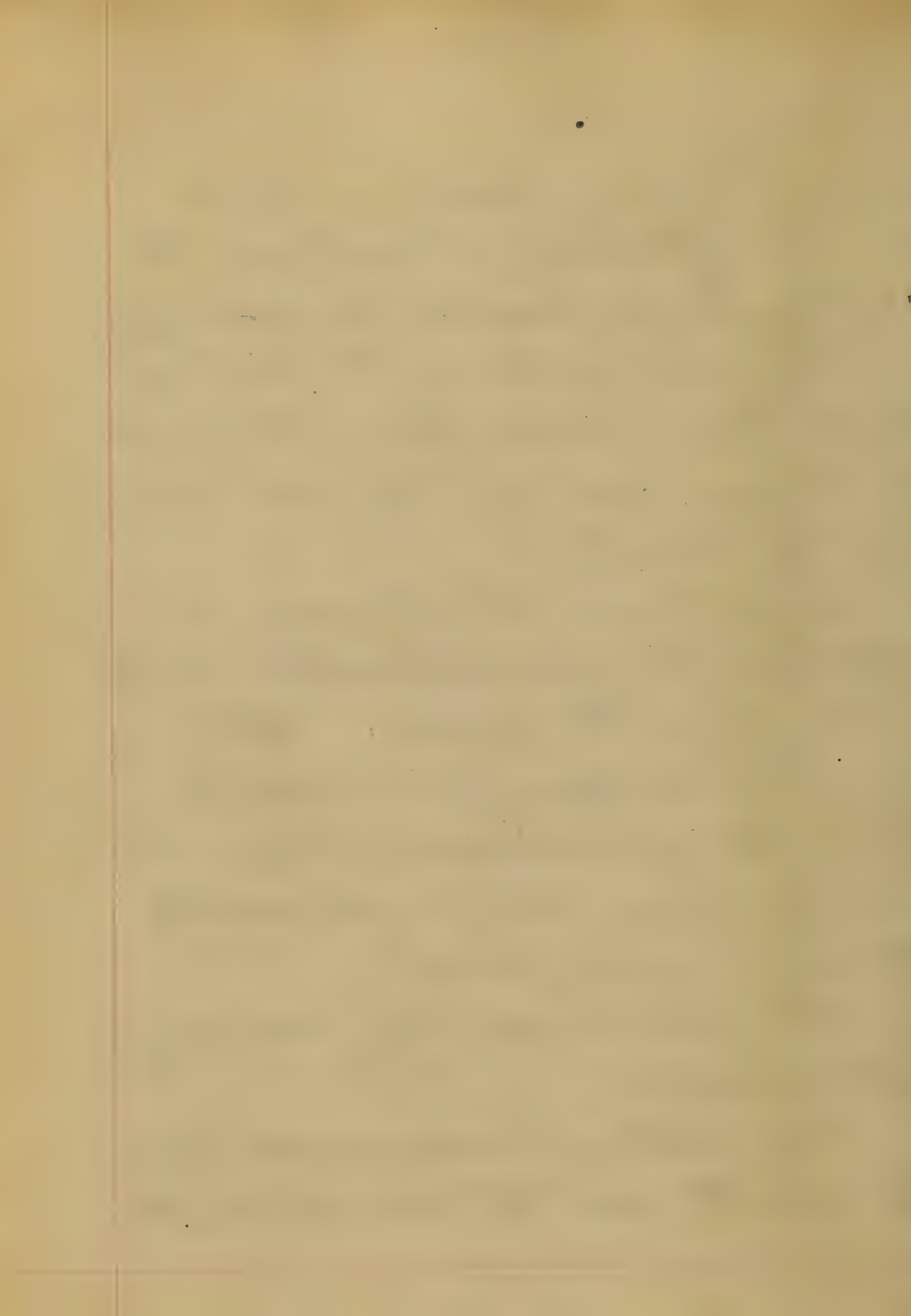
neighbouring parts, which would be likely to include the artery, and produce haemorrhage.

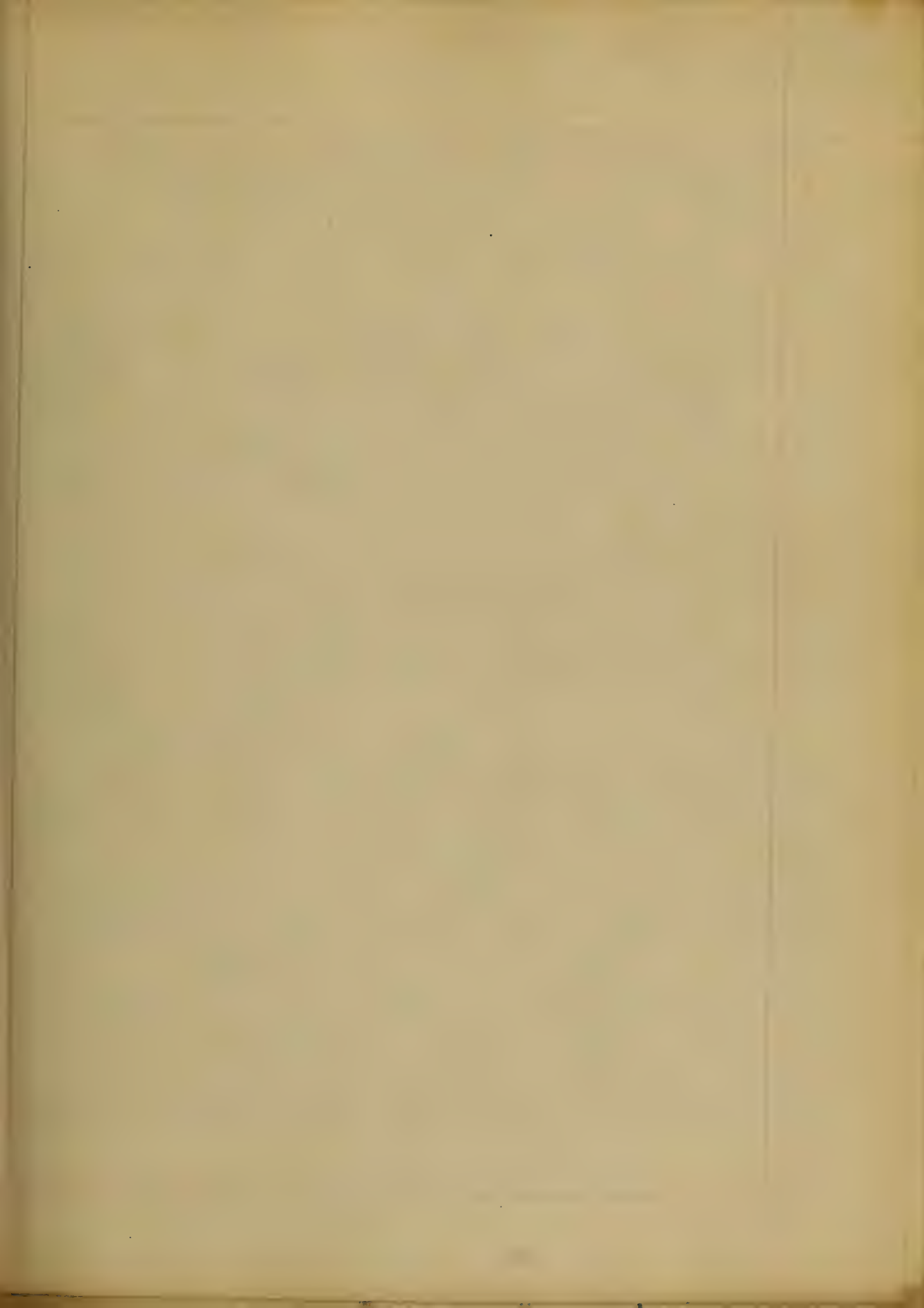
The artery should be tied at least three inches from the seat of disease, and on the side nearest the heart.

Sometimes the ligature is applied at a considerable distance from the tumor; this may be necessary, in order to avoid tying a diseased part; or the artery may not be accessible at any nearer point.

We should use the ordinary silk ligature.

The artery is disengaged from its sheath, and the curved needle







is then passed under it provided with the thread, which is then tied in a firm double knot.

One end is cut off close; the other is left hanging out of the wound, which should then be dressed in the usual manner.

Some have used two ligatures; one above, and one below, but the best authorities seem to be in favour of one.

There is another mode of using the ligature, known as Brasdor's method. This consists in applying the ligature on the distal side of the tumor. It is used rarely, except in cases where the situation of the aneurism will not

admit of its application on the cardiac side.

Manipulation.

This consists in rubbing the sides of the tumor together with the fingers—

The object is, to detach, if possible, some portions of the fibrine which adheres to the walls of the tumor. This being carried by the blood into the artery, may sometimes obstruct the flow sufficiently to produce a clot.

This has been tried with some success, but the result is not at all certain. There is some danger attending this method.

When the artery is near the brain, the fibrine detached, may be carried to the brain, and produce haemiplegia, or result in some other disastrous consequences.

Galvano-puncture —

Although this is not much practiced, still it deserves mention.

It having been found that blood was coagulable by an electric current, this current was made to pass through the blood contained in the sac, which soon became hard and devoid of pulsation. This method has met with success, in some instances, and failure in others, but we are

not prepared as yet to venture
an opinion upon a plan which
is recent, and which will prob-
-ably be improved before very long
if it offers much.

Nothing now remains but to
make mention of one or two
affections related to and sometimes
treated as aneurism proper.

Diffused aneurism is merely
the bursting of an artery, probably
by direct violence -

The blood spreads rapidly around
in the surrounding tissues, and
produces a large, tense, dark-colored
tumor, with no pulsation -

The ligature is the only treatment.
There is no sac in this case -

Aneurismal Varix.

This is always traumatic, and is most commonly caused by the attempt of an unskillful person, to bleed: the lancet being thrust through the vein into the artery, thus establishing a communication between the two.

The blood from the artery rushes in and mingles with that of the vein.

Varicose Aneurism is distinguished the former by having a sac,

It generally results from the former, by the gradual formation of a false sac, as in some cases of false aneurism.

The consequences from both are

The same. All the veins
in the neighbourhood become varicose,
and receive pulsation from the artery.
The most common seat is the arm
or leg. The only treatment is
the ligature, above and below the
affected part of the artery.

W. P. Smith

Neuralgia

1.

The trunk or branch of a nerve
being in paroxysms of irregular
irritation, and after either irregular
or regular intervals.

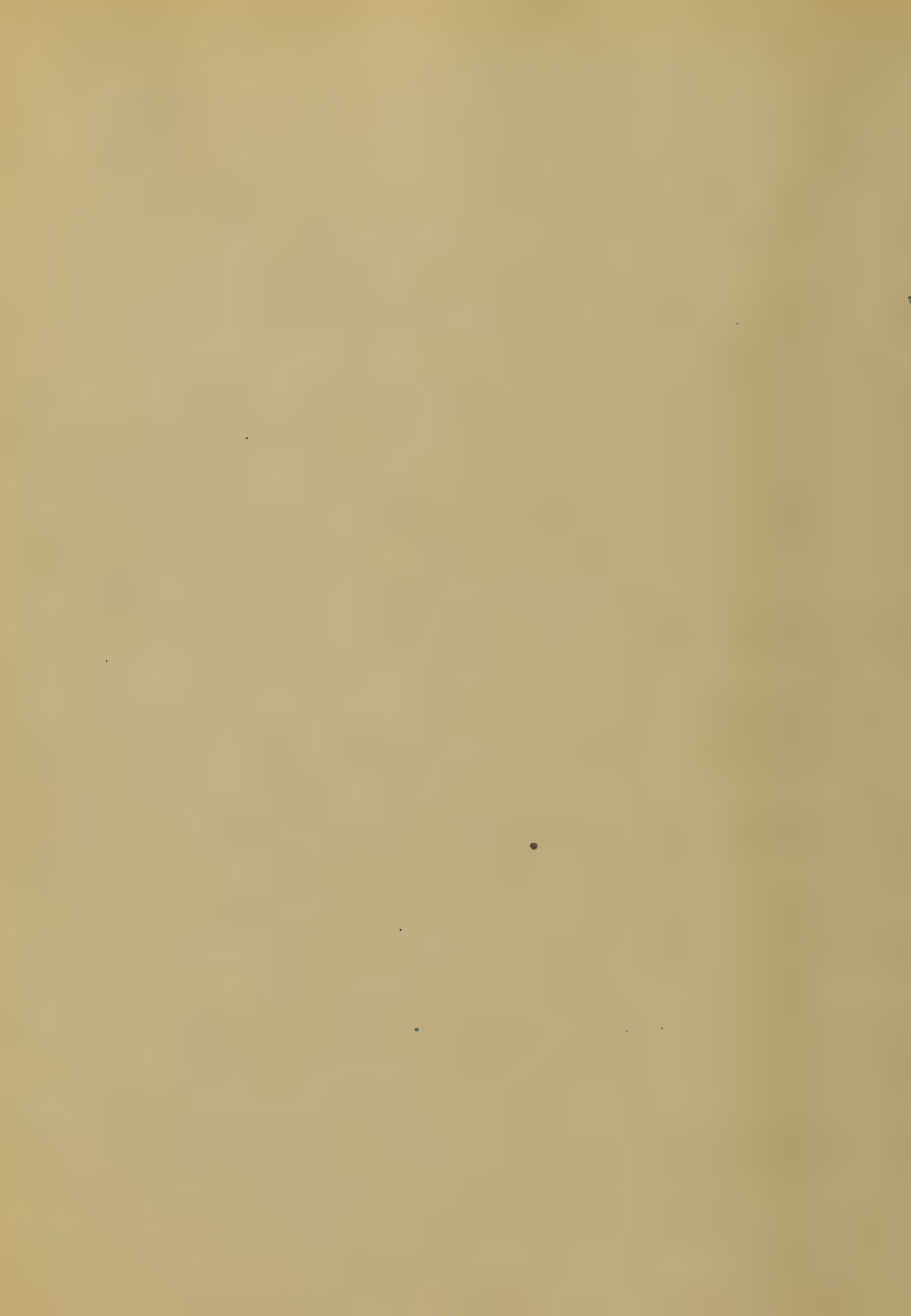
Neuralgia by the old medical men
at the commencement of the last
century, was confined to the
trunk of it in the nerves of the
head and lower extremities, and
the term neuralgia was applied
only to the most violent
paroxysms of pain experienced in these
parts, but lately it has been
extended to all kinds of
irritation, in parts not in

... as an English physician says, it
... of inflammation in a recognizable form,
... cannot be doubted, and that they are
... us often seated in the cavity of
... of the vertebral column, in the
... of the cervical nerves, is equally
... out to the close observer, although
... influence of rest; and that they
... actually do this, say is well known
... the pain experienced during a paroxysm
... of the disease, is not attended but
... intolerable. Various authors

almost to vital extinction, which
characterises those pains in internal
vital organs, that have been more

formerly had different names
applied on them, but that
now they are all considered
belong to the category of rheumatic
pains.

Symptoms - Pain which is severe,
constricting, darting, tingling, and
burning. The pain is sometimes
light at the commencement, and
increases in violence, sometimes
the pain comes on at night or in the
morning, or getting up from a chair.



sometimes preceded by swelling, itching
and by pains flying about in the
which is usually the case. It
is sometimes preceded by indigestion, by
vomiting, by diarrhoea, by
fever, by colds, by coughs, by
croup, by convulsive motions of the
arteries, by tremors, by
swelling, by redness, by
the arteries in the neighbourhood
pulse violently, the veins swell
and partake of a varicose appearance.
The durations of the paroxysms are
variable - sometimes intermitted, sometimes
that, when the paroxysms
recur, they are more violent and
of longer duration. When the attacks

is sudden it continues without abatement
 an indefinite but short period
 and then suddenly ceases. The severest
 attacks are the shortest. When
 they continue longer than three
 or four hours, the intensity of the pain
 is, with some exceptions, not
 so alarming, being that of
 neuralgic pain, like a shock of electricity,
 causing spasms, twitching of the muscles
 and intense pain. It is more
 common in any part, or diarrhoea, any sudden
 change from the system or shock may
 check the pain. The cause of neuralgia
 in many cases is not appreciable.

by exposure to cold damp sitting or
 standing in a draught. Neuralgia
 of the face and head are the most
 severe, and most important. The pain
 in this form is lancinating, shooting
 and intermittent following the course
 of the face pair of nerves. In child
 hood it is a distinct affection as
 far as it is the name of the disease.
 The accessions of it are generally sudden
 and often preceded by sneezing, sneezing,
 and coldness in the part. Some writers
 say the pain is lancinating, and that
 it is under the period of remission.
 The pain is seldom concentrated in
 one point, and not always so
 limited as to admit of its precise

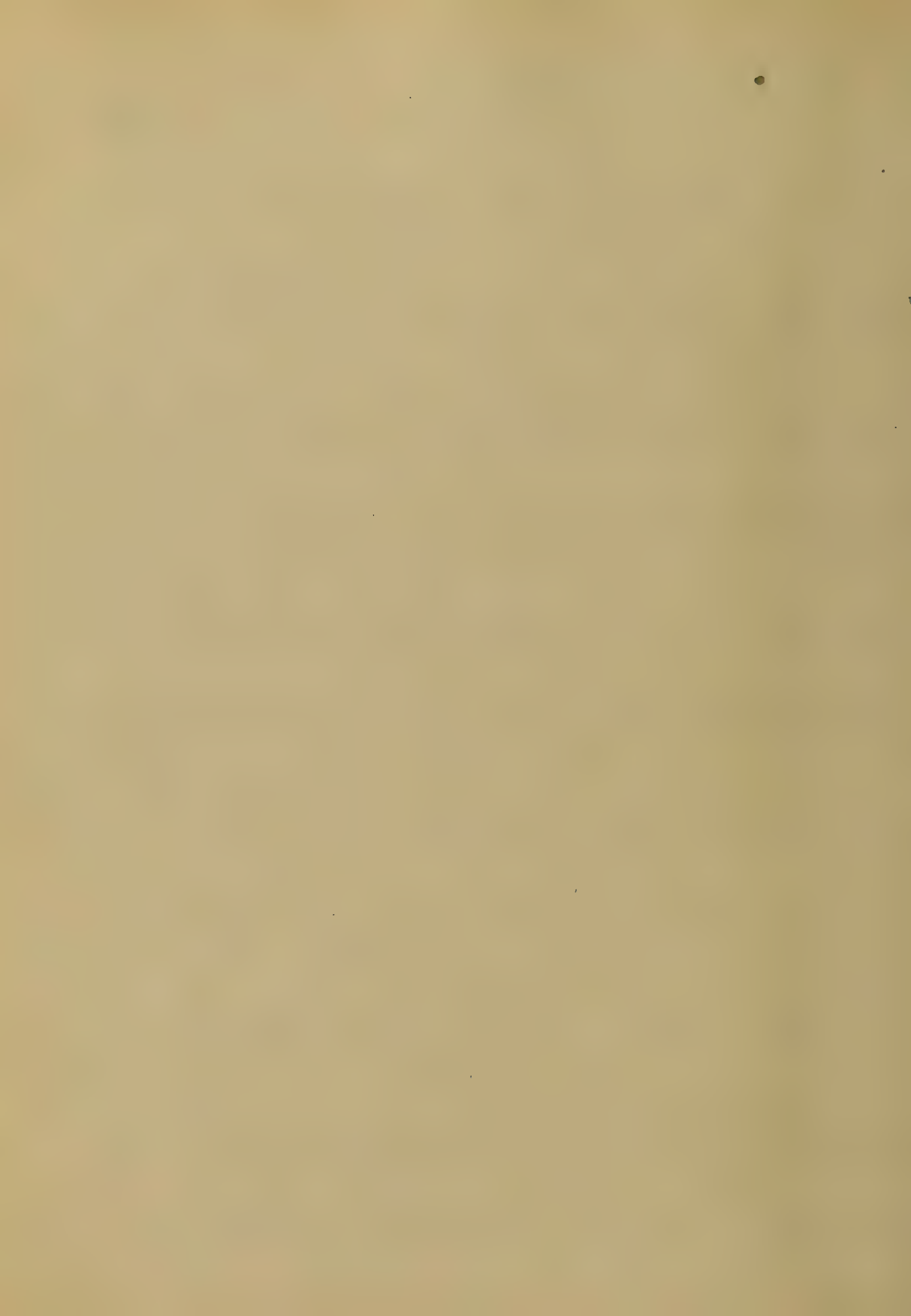
cat. being indicated - The pain occurs
more frequently in the ophthalmic and
the inferior maxillary branches
than in the inferior. When the
trigeminal nerve is affected an abundant
excretion of tears takes place, pain
is felt in the eye and an uneasy
tickling is experienced in the nose.
When the second branch of the
trigeminal nerve is affected the
inferior maxillary is the most
affected. Sometimes the dental
nerve is the seat of the pain
and the pain seated in the eye
is not for supplying the
of the face as at present.
The pain rarely attacks both sides

to the face of the curve,
the radius of one side lies at
right angles to the other side, and in
the natural state, the most
circumstances of the substitution

will bring on a fat. The attack
may be of the nature of a
he crisis to be followed by a
recovery in the capacity of the
arteries, followed by a
debility, by means of
feels and general prostration
the patient becomes
debile, but as a substitute
these are the
then the patient becomes

eye, producing a redness of the conjunctiva and of the cornea, and a swelling of the eyelids. But, when the system is peculiarly affected, there is excessive susceptibility of the organ so that the least ray of light produces the most exquisite pain. The pain in the eye may be acute or chronic. Neuralgia of the eye affects the choroid and the optic nerves. The pain is usually generalised to the space between the eighth or ninth ribs. The pain frequently extends to the temples and has a darting lancinating character. Neuralgia in the eye may be distinguished from a hemorrhage, by

the absence of inflammation and
 soreness of the muscles or joints,
 and in their contraction. In this
 neuralgia there will be remarkable
 insensibility of the skin and parts
 affected by the disease. ~~The~~ In
 other parts of the body the cases
 are the same. Neuralgia in the
 lower extremities is of very common
 occurrence. The pain pursues the
 course of the crural or femoral
 nerve along the inner and anterior
 part of the thigh and leg down
 to the foot - The great sciatic
 nerve is generally the one that
 is affected. It attacks the
 patient in all kinds of weather



Consider an eye subject to disease.
 It commences with redness in
 the sciac curve between the great
 cornea and sublimation of the
 the course of the great sciac
 or lamina-proptical, spreading
 sometimes upwards towards the
 scerum, but generally along the
 high, to the proptical
 and along the nerves of the eye
 to the foot. The pain is
 and preceded by itching, soreness
 of the touch, and usually
 only one limb is affected. The
 motions in the limb are very
 painful & disagreeable. The
 contrast with the eye is

cannot walk or move about with-
 out great inconvenience. The pain
 is generally more severe during
 the evening and night. In the
 day it remits and then the
 pain becomes dull and the
 part feels numb. The slightest
 cause may bring on the exacerbation.
 Sometimes the accessions of suffering
 are followed by convulsive movements
 of the limbs. The pain
 is accompanied by screams in
 the night, the face becomes
 red and swollen, the patient
 is restless, and a high fever
 supervenes in the afternoon
 and evening. After frequent and

a stable association of ideas
When the attachment has
continued for a long time
of the muscles that produce
the action of the
I have mentioned some of the
in the preceding pages of
the
the
of the

The causes of
neuralgia may sometimes
be owing to lesions in the
central nervous system
of the brain, spinal cord
or in the peripheral
nerves.

disposed to neuralgia have
 an attack from the slightest cause
 The exciting causes, are mental
 excitement, and other causes
 the intellect and other
 which affect the brain
 through the system of
 nerves, indigestion, the use
 of acid water, inflammation or
 irritation of the spinal cord
 suppression of the secretions,
 slight local injury, exposure to
 a keen cold air.

Diagnosis Neuralgia is
 characterized by the
 burning or lancinating pain,
 by being intermittent and
 paroxysmal.

The situation of pain in the course
of a nerve shows the nature of it;
whilst the absence of fever
of tenderness on pressure, &
swelling, are of great value in the
seat of the nerve distinguish
from inflammation.

Neuralgia of the face is not
easily mistaken. The neuralgia
of the trunk, you must observe
the course, also, of that nerve
that is situated near the seat of
the affection. Tenderness may
be confined to a small portion
of the affected nerve. In all cases
the situation of the pain, & the
attention in the position of the

11
characters show the nature of the
disease. Prognosis of recovery
generally favorable. It is
death does occur, it is due
to apoplexy, which terminates in
place more or less suddenly when
the occurrence of the first stroke
is not until after two or more.

After death nothing has
been found in the brain or
spinal cord of a person who
has died after an attack of
apoplexy, and that insanity
may exist without any
structural change in the brain
that it is essentially a functional
disease.

176

1) Treatment of Numbness -
being a form of nervous affection
it might be expected to be
influenced by measures calculated
to make an impression on the
mind Dr Wood - Has noted the
occasional efficacy of magnetic
ring, of leeches on the feet,
and of mustard's & various
leafs in the application.

In the first place we
must examine the patient
& see that he is labouring
under no functional or
structural disease of any
organ in the body, or any
injury either - external or internal.



An
Inaugural
Dissertation
on
OBSTETRICS

Submitted to the Faculty

of the
University of Maryland

for the
Degree of Doctor of Medicine

by
Matth. W. Edw. Berck jr.

of
Baltimore Md.

1863.

Handwritten text, possibly a title or header, including the word "MADRID" and other illegible characters.

Main body of handwritten text, consisting of several lines of cursive script that are mostly illegible due to blurring.

Final lines of handwritten text at the bottom of the page, including what appears to be a signature or date.

2.

Gentlemen!

In as much as permission has been granted to the student, to chose the subject, on which he desires to write an essay, as a part of his examination, I have chosen to write on Obstetrics, and have selected this subject, among others not only on account of preference, but on account of the elevating useful and deep studies connected with it, also it is true that every branch of the medical science contains innumerable treasures, all of which are very useful to the human family. but can there be any thing more interesting, than to study the development of our own race!

The female or woman, herself scientifically considered, is alone a source of much interest to the

earnest Student. The common mind observes scarcely any other difference between the male and the female, than the sexual, and that the latter is weaker, than the former.

But considered in the higher light of science, a man is a man, and a woman is a woman, from the Spirit and not from the material body, the latter being but the clothing of the former, there is consequently as great a difference in the mental or spiritual character of the two sexes, as there is in their physical configuration. If this is true all controversy about equality, or superiority is absurd, and worse than useless, for man is superior in those qualities which constitute him a man, and woman in those which constitute her a woman.

4.

However! even the mere physical difference between the two sexes is a study of great interest. Between the embryo of the male and female is but little difference in the beginning, but quite soon a number of interesting facts become manifest, and the interest increases by observing the difference in the two sexes after birth. The female grows up to the period of puberty, when menstruation and a more perfect development of the breast follows, this is not so with the male: because the female is created for the great purpose of perpetuating the race. When the female becomes a mother, her loftiest & desires are fulfilled.

"Edw. v. Siebold says in one of his works: a woman without children, has reached but one

3.
half of her existence."

Considering the great importance of perpetuating the human race, it is of great value and usefulness, to study the various conditions, and natural changes of pregnancy, and no one should enter upon practice without being well acquainted with this important branch of medical science, that only by continued study and observation, can be attained. Both: the life of the mother and that of the child is trusted to the hand of the accoucheur, and he dare not sacrifice either of them by imprudent treatment, without staining his character with a great sin. It really might be called a Divine Science, because none shows more plainly the operations of Divine love and wisdom,

through a kind and good providence
of our heavenly father.

After these preliminary re-
marks, I shall now commence to
treat the whole subject in general
and can do this only in short
sketches, relying mainly upon my
memory, from which I shall try
to reproduce what I have learn-
ed from my books, and heard
in the lecture room from our
Professor, who so ably fills the
obstetrical chair in the Uni-
versity of Maryland, and
I propose first to begin
with the Pelvis.

The pelvis viewed in general
is only a part of ^{the} skeleton, and
the microscopic description of
it belongs to the Osteology, but
in reference to obstetrics, the
pelvis belongs to those organs,

with which together it performs, the act of sexual function, and therefore the accoucheur must study the Pelvis a little more closely, because it gives him a more correct knowledge of the mechanism, diagnosis and prognosis of labour.

The Pelvis consists of four bones:

two *os innominata*

os sacrum and

os coccygis.

The *innominata* which is flat and irregular, is again divided in three parts:

os ilium, *os ischium* and *os pubis*.

Each *innominata* is six inches broad, from the anterior superior spinous process to the posterior spinous process, and seven inches high from the *tuber ischii* to the crest of the *ilium*.

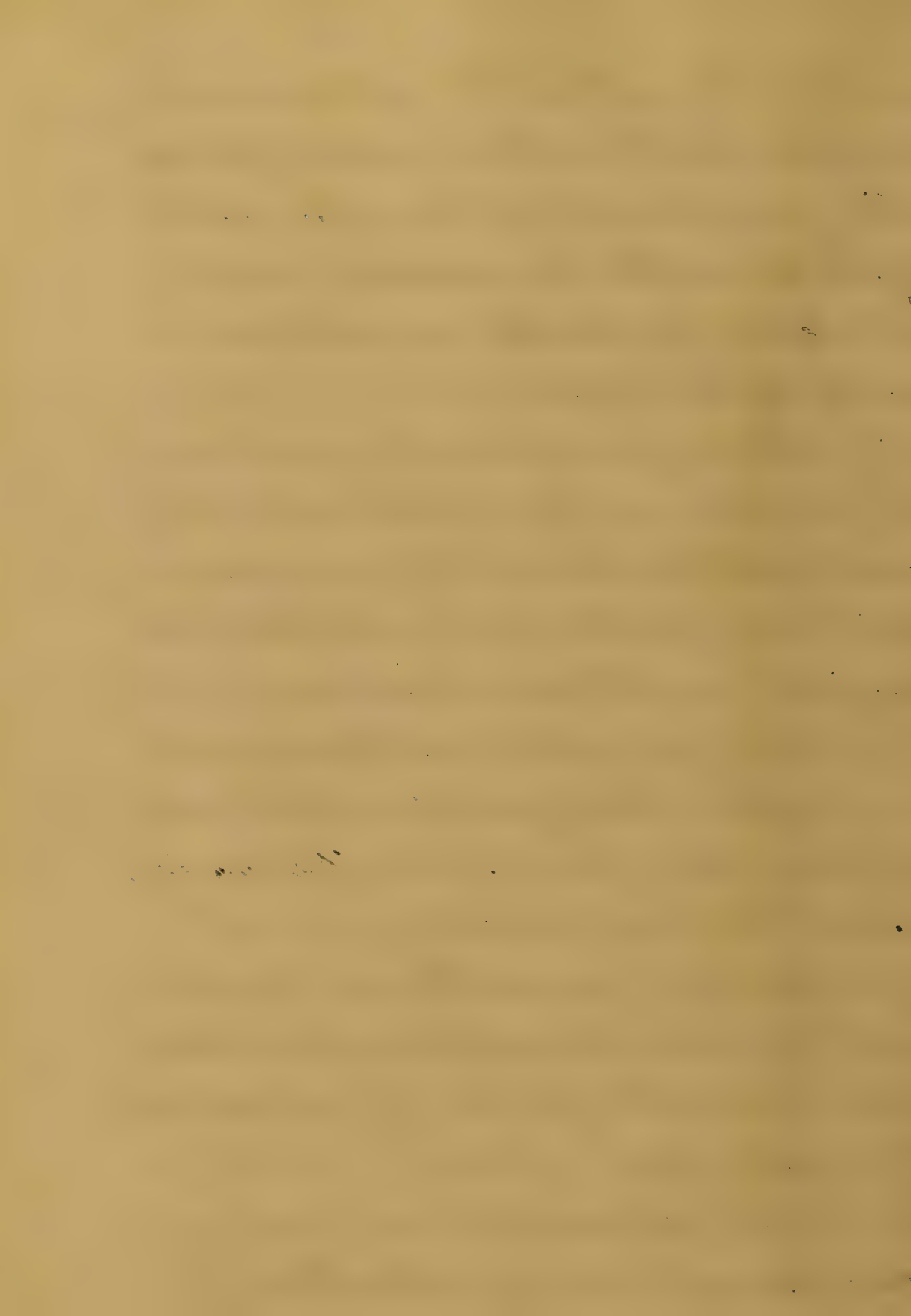
The largest portion of the innominate is the ilium, and forms the prominence of the hip, articulates with the sacrum, and is described into an anterior, and posterior border.

The inferior or strongest part of the bone is the ischium, the body rests on this in sitting, and presents an external and internal surface and three borders:

posterior, inferior, and superior.

The third portion is the pubis, it forms the front of the pelvis, supports the external organs of generation, presents an external and internal surface, superior and inferior borders and symphysis.

The os sacrum a triangular bar bone of spongy structure, has four surfaces, an internal, an



external, and two lateral, is about four and half inches in length, four inches in width, and its greatest thickness is two and half inches.

The os coccyx, which has its attachment to the sacrum, is composed of three or four pieces, they play upon each other by separate joints, and the lesser sciatic ligament, and ischio coccygeal muscle are inserted into it.

The false pelvis, is the expanded portion ^(bounded) on each side by the ilium separated by the linea iliopectinea from the true pelvis.

The true pelvis, is all that portion, which is situated below the linea iliopectinea, and this line forms the margin of the true pelvis, while the including ¹⁾ era is called the inlet the inferior termination which is very

irregular and termed the outlet;

Only in considering the pelvis as a whole, is it divisible into a false and true, there is also a difference between the female and male pelvis, the former is lighter, more delicate the iliac fossae is large, the ilia expanded, the inlet, outlet and cavity are large, the acetabula further removed from each other, the cavity shallow, tuberosities widely separated, the obturator triangular and the span of the pubes greater than in the latter;

The diameters of the inlet are:

Anterior posterior,	measure	4 inches
transverse	" "	3 1/4 "
oblique	" "	5 "

Of the outlet are:

Anterior posterior,	measure	4 1/2 inches
transverse	" "	4 "

A pelvis which don't vary a great deal from these diameters, is called a normal pelvis, but if they do, they must be either malformed or deformed, and it becomes necessary to know something about them.

A malformed pelvis, may be either too wide or too small, too wide and the child may be born very rapidly, before the mother is aware of it, for instance in standing, this is very dangerous, the umbilical cord may break, the child drop upon the floor, and be killed instantly.

Too small and the pelvis is generally deformed, this may be either rachitic sickness or malinae casta, and presents many different varieties.

Prof. Wilsonberger divides labour, when such deformity exists into three Classes:

- 1.st Class: where the diameter ranges from $4\frac{3}{4}$ to $3\frac{3}{4}$ inches;
 - 2.^d Class: " $3\frac{3}{4}$ " $2\frac{1}{2}$ " " ,
 - 3.^d Class: " $2\frac{1}{2}$ inches downwards,
- and says:

$3\frac{1}{8}$ inches is the least diameter in which labour can be completed and both the life of the mother and the child be saved.

Below $3\frac{1}{8}$ inches the accoucheur is obliged to perform embryotomy, to save the life of the mother; but below 2 inches, embryotomy is useless, here it becomes the painful duty of the accoucheur to perform Caesarean section, providing the woman is seen early, and in a perfect healthful condition, but should however the health of the

mother, be any ways afflicted, even
 than it is not advisable to perform
 the operation, the process must be
 left to nature alone where inter-
 ference does no good. But thank
 our Lord, that the accouchement is
 very rarely called upon, during
 his practice to perform this painful
 operation, it is very rare in this
 country, but more so in Europe,
 Maygier, Siebold, Oslander, gives
 a long and full dissertation on this
 subject: but the improvement in
 the Science, in our age has perhaps
 aided a good deal in dispensing
 with this operation.

When the diameters vary from
 $2\frac{3}{4}$ to $3\frac{1}{8}$ inches the vertex pres-
 entation is safe, Face presentation
 should be turned into breech, and
 breech presentation should not
 be interferred with, until the

trunk is delivered, should the head become arrested in any of these presentations, the forceps must be applied, and of course: in breech presentation, not before the trunk is delivered.

Maggier says and divides as follows:

if the diameter varies from 4 to $3\frac{3}{4}$ and $3\frac{1}{8}$ inches no assistance is necessary, under $3\frac{1}{2}$, to 3 and $2\frac{3}{4}$ inches the forceps must be applied, from $2\frac{1}{2}$, to $2\frac{1}{4}$ and $1\frac{3}{4}$ inches embryotomy must be performed, and under $1\frac{3}{4}$ inches Caesarian section must be resorted to, but Prof. Milton, Berger agrees nearest with Siebold.

Several forms and methods are proposed and instruments invented to measure the pelvis of a living woman.

Baudeloque *Campas d'epaisseur*, is one, and the *Pelvis* measures of *Cautali* (*Pelvi metre ou appreciatur du Bassin*) is another, Stein however deserves the credit of first inventing an instrument of this kind in 1771. These instruments are divided into two classes, those that are applied externally, and those which are applied internally, this is very complicated, the plainest way of proceeding is to introduce the finger of one or the other hand, making a mark, then measure with an inchstick.

The accoucheur should also remember the two axes of the pelvis, to obtain a more correct knowledge of the curved canal of the same: one of the superior straight which is a line drawn perpendicular to the plane of that straight, it would extend from the coccyx to

to a little above the umbilicus; the other the inferior straight, drawn to the plane of that straight, and would extend from the point of the sacrum to the centre space of the tuber ischii. These two form an obtuse angle with each other, and enable the practitioner, to place his patient in such a position as is most favourable for the descending of the child's head, through the brim, into the excavation.

It might be in place to notice the muscles of the inside of the pelvis here; they are: the levator ani one on each side and fan shaped, the obturator internus, the piriformis, the coccygens and the transvers perinei which are sometimes strained by the pressure of the child's head.

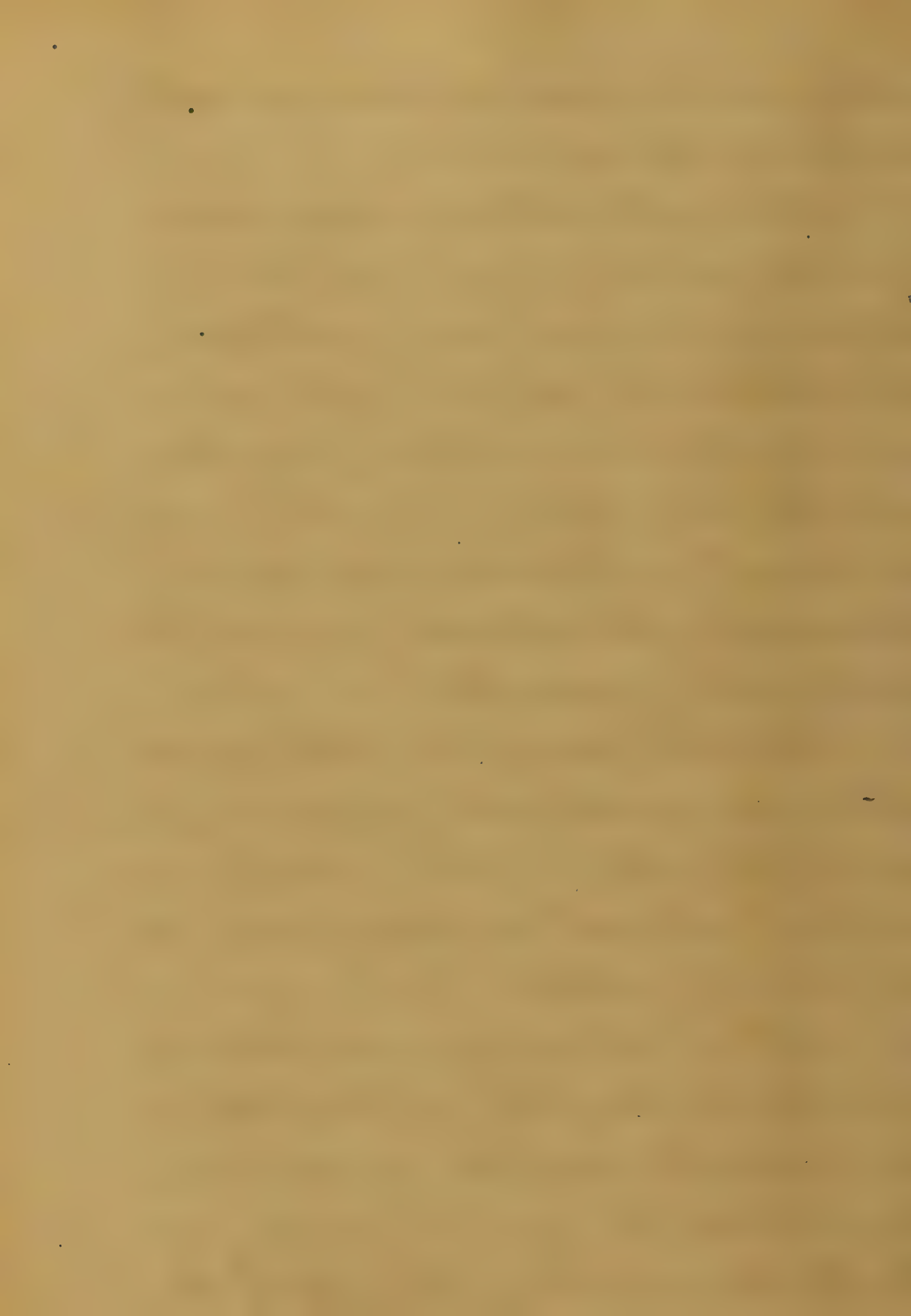
(After the consideration of the Pelvis, the organs of Generation

follow, and they are divided into external and internal.

The external are: the Mons veneris, Labia majora (externa), Labia minora (nymphae), Clitoris, Vestibule, Meatus urinarius, Perineum, Hymen in the virgins, Carunculae multiformes in the matron, and some writers consider the Mammary glands also as an external organ of generation.

The mons veneris, placed at the upper part of the symphysis pubis, consists of dense fibro cellular and adipous tissue, and covered with hair in the adult.

The labia majora (externa), which consists of two folds of skin and mucous membrane, commence in front of the symphysis pubis, extend down and backwards, to the perineum, where they meet again,



and favour the expansion of the vulva during the act of parturition.

The labia minora (interna or nymphae) which arises nearly from the same point, at the anterior commissure, and runs down and backwards, about an inch to the middle of the orifice of the vagina, and are there lost in the general lining of the external labia, and covered with mucous membrane, consisting of cellular and erectile vascular tissue, does not disappear during the distension of the external part by the escape of the child's Head.

The Clitoris is situated just below the point of junction of the nymphae, is a small elongated organ, and analogous to the male penis, erectile and very sensitive, but has no corpus spongiosum nor urethra.

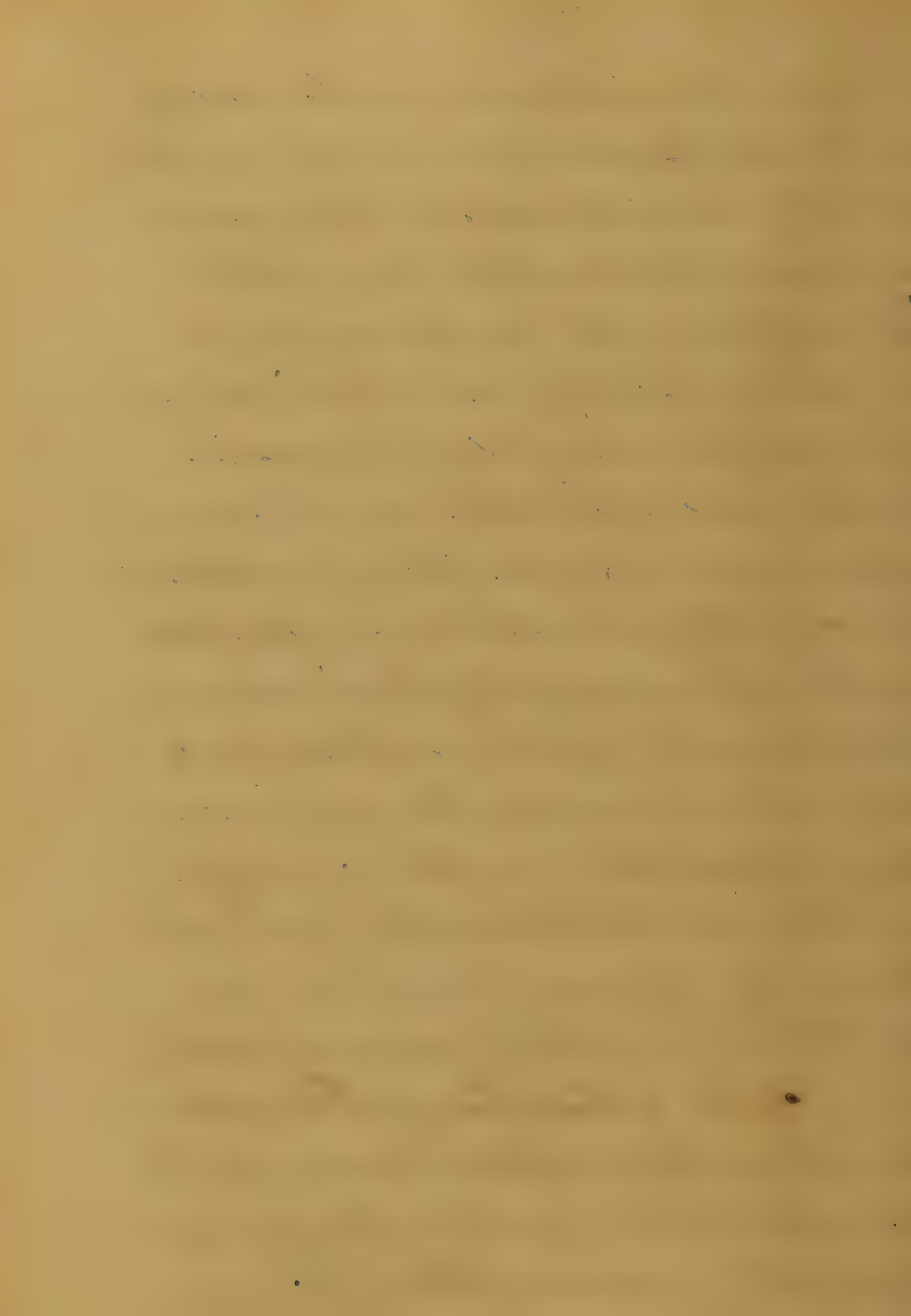
The vestibule, a triangular space, and easily recognised by its soft

prominent circular rim, is bounded by the Clitoris superiorly, and by the nymphæ laterally, covered with smooth mucous membrane, and at the lower portion, the orifice of the urethra is found.

The urethra, which extends from before backward and upward, runs under and behind the symphysis pubis, is an inch and a half long and dilatible.

The Hymen, which is found just within the vagina, is a fold of mucous membrane, and generally ruptured at the first sexual intercourse, the one remaining is called *carunculae myrtyformes* and is constituted; the space between the Hymen, and the fourchette is named the *fossa navicularis*.

The Mammary Glands which as before stated some writers consider as an external organ of generation, is situated in the pectoral region, separated by a thin skin,



perforial fascia, from the pectoralis major muscle. The left one is generally a little larger than the right one, these glands are also in existence in the male, but in a rudimentary state, unless, by a peculiar or morbid action excited into growth.

Edw. v. Siebold mentions a case where a male nourished a baby, on account of the mother's death, and there, the mammary glands were as large as in the female, and secreted as much milk, as he ever saw, here of course, the continued excitement of the child's sucking, caused the mammary growth.

In the centre of each mamma is the nipple (mamilla) surrounded by an areola, which is generally of a pink color before pregnancy, and becomes of a brownish hue, when pregnancy exists, and deepens in color

as it advances, and this hue remains through life after the birth of the child.

The mamma a compound racemose gland, consists of lobes, lobules, and gland vesicles, and secretes the milk, this process is effected, by formation of oil globules in the epithelial cells, they are perfect, pushed out, and displaced by a new layer of similar cells, which are formed under them, and then carried into the lacteal ducts, these cells burst and give the existence of oil globules, but the cell membrane and nucleus are lost. The secretion of a yellowish viscid fluid of the mamma, before pregnancy is named Colostrum. At the fourth or fifth month of embryonic life, the mammary glands commence to develop, first by a papilla of the *retia mucosum*, which gives of primary and secondary branches,

and are for some time solid, but as development advances become hollow.

At birth the glands measure from two to four lines in breadth, and very slowly increase in size, about the period of menstruation the first true gland vesicles make their appearance, but they are then not fully developed, this takes place at the first state of pregnancy, and they fall into a state of Atrophy at very old age.

The mammary glands are supplied with nerves, by the second, third, and fourth intercostal, and lateral cutaneous branches of the same, and with Arteries from the thoracic branches of the axillary, intercostal and intermammary, and after entering the gland, divide into capillaries to constitute a fine network around the vesicles.

The internal Organs of Generation, are: the vagina, uterus, uterine appendages which are: the broad ligaments, round ligaments, two ovaries, two fallopian tubes.

The vagina, is a muscular membranous canal, four to five inches in length three inches in circumference, has three coats, an external cellular, middle muscular, and internal mucous.

The uterus, is a pear shaped body, about three inches long, two inches wide and nearly an inch thick, is placed at the upper part of the vagina, hangs in the middle of the pelvis behind the bladder and before the rectum, is divided into a fundus, a body and a neck, has three coats, a serous, a muscular, and a mucous, has three sets of fibres, circular, longitudinal, and oblique, which tend to diminish the cavity and expel the

contents of the womb, by their contraction.

The broad ligaments, are two duplicatures of peritoneum, one on either side, they contain the fallopian tubes and ovaries.

The fallopian tubes are two canals of cylindrical form, about four inches long, arise from the superior angle of the uterus, and have three coats, an internal mucous, a middle muscular and external serous.

The ovaries are also two in number and are considered as the testicles of the male, are situated at the back face of the broad ligament, and attached to a ligament by their own, to the uterus, oval shaped and have two coats, an external peritoneal, and an internal tunica albuginea, and contain numerous little vesicles named Graafian vesicles, and these have also two coats, an

external the tunica of the ovisac, and
 an internal the ovisac, in this the
 ovum or egg is floating, which is
 very small, this contains, the yolk, and
 in the centre of this, the geminal vesicle,
 and on the walls of this vesicle, nuclear
 is seen named macula germinativa.

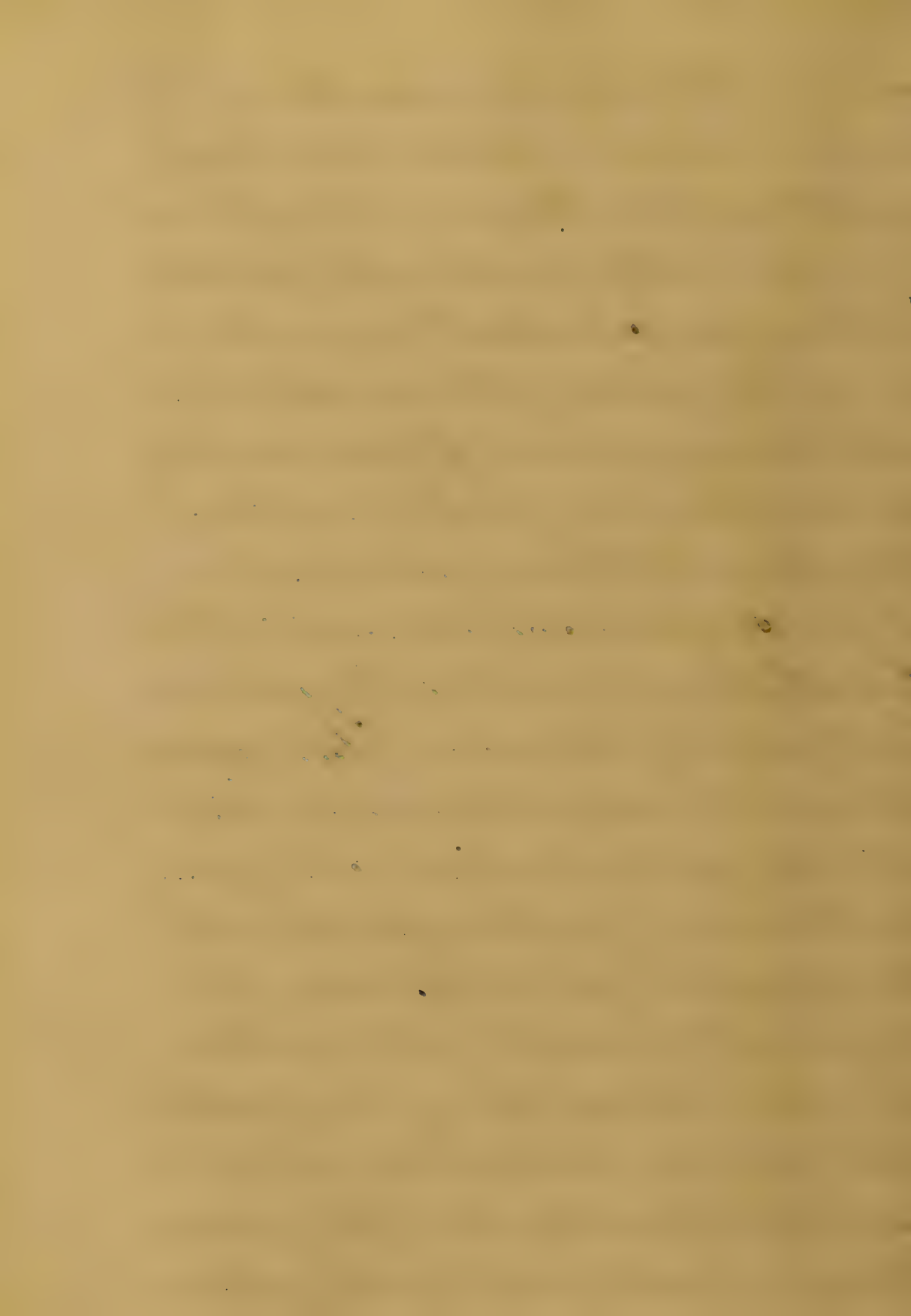
After this anatomical de-
 scription of the normal and ab-
 normal pelvis, external and inter-
 nal organs of generation, and their
 diameters and construction, it
 also becomes necessary to the
 accoucheur to know the same a-
 bout the foetal head; and then
 comparing them together, will
 enable him, to understand the
 relation to each other more easily.

The Foetal head is
 of oval shape and the largest at
 the occipital extremity, the
 bones of the head which are the

most important are two parietal and the frontal, which are divided in the occipital and two temporal, it is also not developed altogether as in the adult, Sutures and Fontanelles separate it, one of these fontanelles is called the anterior, and formed by four rounding corners, two of the frontal and two of the parietal bones, which makes it quadrangular shaped, and is the largest, the other called the posterior and formed by three bones, two parietal and the occipital which makes it triangular in shape. These fontanelles are of great importance to the accoucheur for it helps him to diagnose the position of the child.

The diameters of the foetal head are four, which have to be particularly considered, they are:

The occipito frontal or longitudinal diameter measures from $A - B \frac{1}{2}$ inches



The occipital oblique or mental
measure from B - $5\frac{1}{2}$ inches

the frontal mental

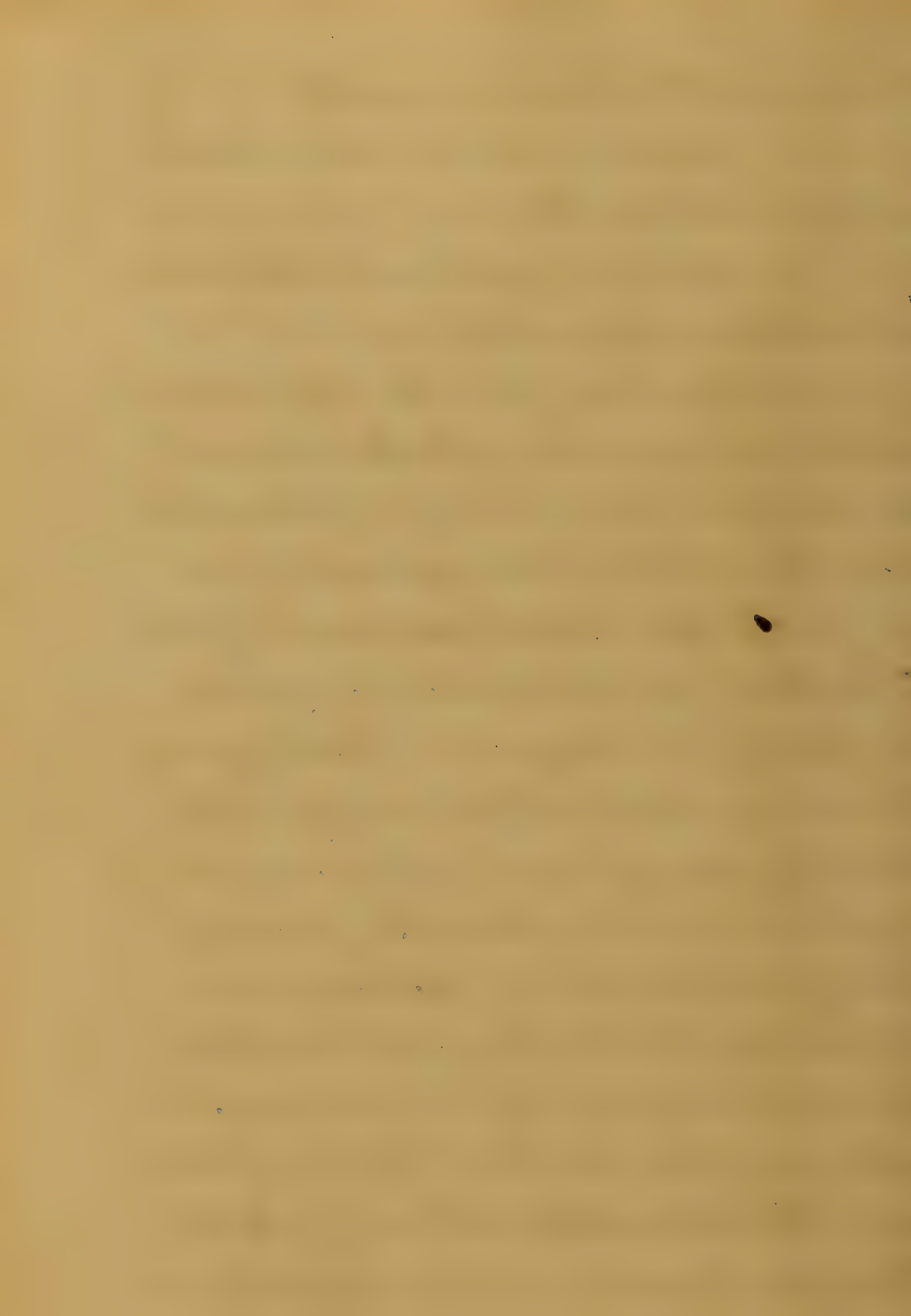
measure from C - $3\frac{1}{2}$ - 4 inches

the cervico bregmatic

measure from B - $3\frac{1}{2}$ inches

and as a general rule the head of
the male child is always a little lar-
ger than that of the female.

The development of the
Foetus, by Blumenbach is as
follows; he says: nothing can
be seen in the uterus, before the
seventh day of conception, which will
make known the presents of a new
being, but on the eighth day some
serous woolly looking spot will be
observed, which is of a greenish
color, and on the twelfth or fifteenth
day, the so called *Conium Graecum*
fimum is seen, in which the
functum valens is swimming.



The Graafian vesicle is the true egg, and formed out of the Chorion and Amnion, and weighs about one grain at this time, in the third week the embryo is seen in the egg as large as a little fly, weighs about three or four grains and is three or four lines long, on the thirtieth day, some small signs of the upper extremities are observed, weighs about nine or ten grains and is from ten to twelve lines long, but on the forty fifth day, the signs are more certain, and the embryo receives the name of Foetus. The scapula and clavicle which were but cartilages before, begin to ossify, has still an oval shape, but longer, and little black spots and lines show the mouth, nose and eyes, in the second month these little black spots and lines,

commence to be better developed, the
 brain is still soft, but the heart
 is pretty well developed, some trans-
 parent lines are seen on it, which
 indicate the first signs of the great
 bloodvessels, the fingers and toes are
 also distinct, in the third month
 the most prominent part of the
 foetus are pretty well developed,
 the eyelids are more distinct, but
 still closed, a small opening shows
 the future external ear, and the
 nose and lips are perfectly seen,
 the organs of generation grow very
 rapidly, the penis is long, but the
 scrotum empty, or the vulva is seen
 and the clitoris very prominent,
 the brain and spinal marrow is more
 developed, the heart pulsates, the
 large bloodvessels contain red blood,
 the liver is but little developed
 yet, the long bones are ossified,

so the ribs and cranium, and the
 muscles appear, weighs about two
 and a half ounces, and is about six
 inches long, all parts however develop
 very quickly in the fourth month,
 with the exception of the head
 and liver, which seems to be the
 only organs that are backward,
 the brain and spinal marrow have
 more consistence, and some mecon-
 ium is in the intestines, the muscles
 are more developed, and small
 movements observed, weighs about
 seven or eight ounces, and is about
 eight inches long, in the fifth month
 perfect movements of the child are
 observed, the muscles are plainly
 developed, the lungs are grown
 larger and expand a little, the
 nails commence to unfold and
 more meconium is in the intes-
 tines weighs about one pound,

and is about ten inches long, a child born in this month may inhale some air, but can not live; in the sixth month all parts of the foetus have their certain proportions, the nails appear, fine hair is on the head and the glandula thymus is already present, meconium is almost through, out the intestical canal, and the testicles draw nearer to the abdominal ring, it weighs about two pounds and is twelve inches long, born at this time, may live a few hours; in the seventh month the foetus looks more like a child, the nails are developed, the hair is stronger, the testicles draw in, to the scrotum, the meconium is in the large intestine, the long bones are developed, with the exception of their extremities, which are but cartilage yet,

(Epiphysia) it weighs about three pounds and is about fourteen inches long, born at this time, it may cry, live a few days and even weeks, but rarely longer. I had an opportunity, to see the different parts in a foetal state, by dissecting a still born child, of about eight months, which was presented to me by a physician friend of mine.

In the eighth month the vitality of the foetus is almost finished, the muscular system is perfectly developed, and the eyelids are open, except the bones of the head are separated yet, it weighs about four pounds, and is about sixteen inches long, born at this time may live by careful nourishment and treatment, in the ninth month the foetus is altogether developed and can live without the mother's

assistance, the bones are strong enough
 to execute their functions, the muscles
 are developed, the heart beats strongly,
 the circulation goes on perfectly, the
 nervous system is realised, the lungs
 breathe, and at the same time the
 necessary changes of circulation take
 place, the whole intestinal canal
 comes into action, the meconium is
 expelled through the rectum, and
 the urine is excreted, it weighs
 about five or six pounds, is about
 eighteen or twenty inches long, it
 does not show its intellectual func-
 tions yet, but the child has feelings
 for hunger and thirst, cold and
 heat, and can also taste. Carus
 takes only four periods of the de-
 velopment of the foetus, the first
 from the descending of the egg into
 the uterus, until the placenta is
 organized, that is the end of the

third month, the second: from this, to the point where the mother observes the first movements of the child, and that is the end of the fifth month, the third is the period where the child is born too early, but may survive by careful treatment during this period, which is about the eighth month, and the fourth is the period from this, up to the full time.

In speaking before of the natural changes of circulation, which take place, it must be at once thought, that there must be a difference between the circulation of the foetus and that of the adult and so there is a remarkable difference, the foetus blood circulates as follows: the blood of the mother is carried from the placenta by the umbilical vein, into the umbilicus

of the child, having entered the abdomen, it divides into branches, some to be distributed by the vena porta to the liver, the remainder, by the ductus venosus to the inferior vena cava. All the blood which is sent to the liver is collected by the hepatic veins, and emptied into the vena cava, ascender, and then goes to the right auricle of the heart, and passes by the Eustachian valve directly through the foramen ovale into the left auricle, and then into the left ventricle, is then propelled into the aorta, passes on through the head and upper extremities, from there it is again collected into the vena cava descender passing into the right auricle, from there into the right ventricle, and from there propelled, by the ductus arteriosus into the aorta, to be distributed to the lower

extremities, at the iliac arteries however, at each side, the hypogastric artery arises to carry a portion of the blood again to the mother.

The umbilical vein and ductus venosus carry arterial blood, and the umbilical arteries and ductus arteriosus, venous blood, and as soon as the child is born and breathes, the moment the blood which takes up oxygen, changes its color from a deep dark red, to a light red, and this is the first time the blood passes through the pulmonary vein into the left auricle, the foramen ovale closes, to prevent the return of that blood, which during pregnancy passes through the right auricle, direct into the left auricle, the ductus arteriosus is also not more necessary, the arteries umbilicus closes, and while the blood is no

longer passing through it, becomes ligament.

If after birth the ductus arteriosus is left open, such persons will have then a blueish tint, possess not much heat, and are very weak, the blood has no chance to become purified of the carbonic acid gas, and early death must be the consequence.

Next to the development of the foetus and its circulation, it remains to be said something about its appendages, the umbilical cord and the Placenta.

Three membranes cover the foetus, the external: Membrane decidua, the middle: Chorion, and the internal: Amnion.

The membrane decidua is present from the commencement of pregnancy.

The chorion is the first membrane around the egg, is

velvet like on the outside, and connected with the decidua's internal side, supports the egg before the placenta is organized.

The amnion is the second membrane which surrounds the foetus, it contains the liquor amnii, is very fine and transparent, and connects by very fine floks with the chorion.

The liquor amnii is transparent and clear, without taste or smell, but it becomes milky and smells sometimes in the last months. The use of the liquor amnii must be certainly intended for the protection of the embryo from external mechanical injury, and to dilate the os at the time of labour, and not: "as I have read in some works but don't remember in whose,"

That it was intended, to nourish the foetus, this of course can not be so, as I have also seen cases mentioned, where the child was born, with both; the mouth and nose grown together, in such cases the liquor amnii, could certainly not have nourished the foetus. but it is well understood now that the foetus, is nourished through the mother.

After Languein and Buniva the liquor amnii consists of water, albumen, muriat of soda, pure natricum and phosphate of lime.

The p. lacenta which is not organized before the end of the third month, becomes in the last period of pregnancy very vascular and spongy, it is generally of a round shape and flattened, about

about an inch thick in the middle, and thinner at the edges, is about six or eight inches in diameter, from sixteen to twenty five inches in circumference, has an external convex and internal concave side, the convex side is closely connected with the uterus during pregnancy, and the concave side is toward the child and very smooth, covered with the Amnion and connected with the Chorion, as stated it is very vascular, and its vessels become stronger and stronger toward the insertion of the umbilical cord, till at last the three large vessels of the cord is formed. The placenta generally adheres to the back and upper wall of the uterus, on the right side of the mother, but sometimes lateral or in front, and very rarely below, over or upon the

os uteri: if this is the case it is called placenta previa.

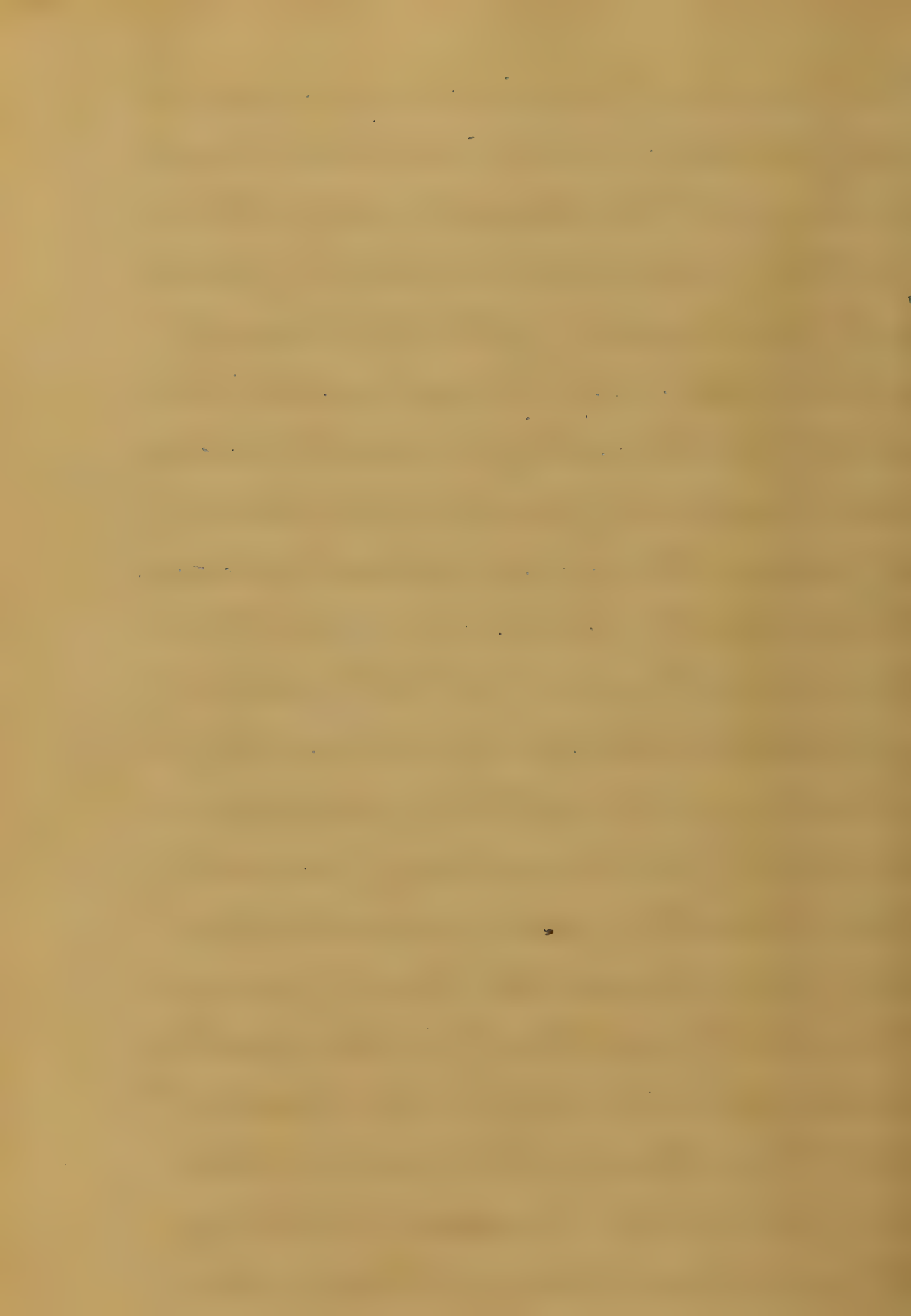
The umbilical cord is generally inserted in the middle of the Placenta, but also sometimes on the side or close to the edge, it consists of three large vessels, as before mentioned, two arteries and one vein, is about from eighteen to twenty four inches long, as a general rule, but sometimes there are exceptions. Siebold saw a cord in the year 1827 forty two inches long, and the shortest he ever saw was eight inches long, some writers even pretend to have seen cords of fifty and sixty inches long, others again pretend to have seen very short ones, Salinger tells us he saw one of four inches, and Oslander one of three inches.

Every foetus has but one placenta, also in multiplied pregnancy, as a general rule has every foetus his own placenta, they are connected at their edges, but the division is plainly observed, in twingestation both have one Chorion, but each one Amnion. But exceptional cases take place, where both children have but one placenta, or both are in one amnion on account of the rupture of it, or each has its own chorion and amnion.

A woman that carries the fruit of a new being in her womb, is called a pregnant woman, and this is understood by the term pregnancy - a woman can not be pregnant unless she has conceived and conception can not take place without sexual intercourse, this is well known, and all cases which have

been spoken of in some older works, of pregnant women, without having had sexual intercourse, are absurd.

The species can only be reproduced by the union of the two sexes, and nature has prepared this great work, by the act of menstruation, there are two principal theories of generation, epigenesis in which each parent contributes a part to the development of the new being, and evolution, in which the female supplies all the necessary material, the male only awaking the plastic power resident in the female product. as general it is believed that each supplies material, the male the seminal fluid, containing the sperm cells, the female the ovum containing the germ cells, union takes place and from thence the tertium quid results.



The great difficulty seems to be
 how and where conception takes place
 in the first instance, and nature
 has left us here in the dark, but
 as the physiology of this is not
 of so much practical importance
 to the accoucheur, as the pheno-
 mena and signs of pregnancy,
 it might be proper to notice some-
 thing about them:

Until the end
 of the first month the accoucheur
 is not able to satisfy himself about
 the truth of pregnancy, in the
 second month, the volumen of the
 uteris increases, which was
 before somewhat more contracted
 as natural, in the first month;
 and the uterus can be felt lower
 than natural, in the third month,
 the volumen of the uteris is more
 increased, not so easily reached,

and a little oval, the abdomen slightly protruded, in the fourth month the fundus of the uterus protrudes over the symphysis pubis, and well felt in the person, in the fifth month, the lower of the abdomen is pretty well rounded, and the fundus is felt between the umbilicus and symphysis pubis, (the mother observed the movements of the child in this month;) in the sixth month, the lower part of the abdomen is strongly rounded, the fundus reaches up to the umbilicus, and the umbilicus disappears, the accoucheur can feel the movement of the child by placing his hand upon the abdomen, as well as by the introduction of the finger into the vagina, in the seventh month, the fundus of the uterus is a little above the umbilicus, the middle part of the

abdomen becomes now rounded, and in the eighth month the upper part of the abdomen becomes rounded, the fundus is between the umbilicus and the scrobiculus cordis, in the ninth month the fundus has reached its highest point and is near the scrobiculus cordis, and the upper part of the abdomen is more rounded now, but in the tenth month, the fundus sinks again, and almost deeper than in the eighth month, and in the last few days the os uteri cannot be detected, and sometimes the os is dilated a week before labour sets in.

Pregnancy commenced with conception and ends with the birth of the child, it lasts generally 280 days; but cases are met with of shorter or longer duration.

The signs of pregnancy are divided in rational and sensible.

Rational are: ceasing of the menstruation, can however not always be relied upon, as there are women which menstruate through the whole time of pregnancy, and also women, which never had menstruated, and the menses begin, with the first conception.

Morning sickness, pail complexion, salivation, swelling of the lower part of the abdomen, the dark areola around the nipple of the breast, some women have this naturally, and in others it is not observed at all, swelling of the mamma and excretion of a liquid and sometimes milk, but even this has been observed in young girls.

Sensible are those: which are observed through the touch,

and to be quite sure, that pregnancy exists, the accoucheur has always to enter upon an vaginal examination, this may be done external or internal. Externally, by placing the hand upon the abdomen, and so through the touch, feeling some parts of the foetus, also through auscultation, by applying the ear and observing the sound of the foetal heart, also the circulation of the placenta, and the pulsation of the cord have been heard, but the sound of the heart of the foetus, can only be relied upon. Internally, by the introduction of the finger into the vagina, this may be done either if the woman is standing upright or laying down upon her back with the knees drawn a little upwards, the standing position however is

is preferred, the accoucheur places one hand upon the abdomen on the fundus uteri, to study it; the forefinger of the other hand, which has been oiled before, is introduced into the vagina, a quick and a little sudden jerking with the finger is made, and a sensation will be felt, as if some thing had been thrown up and fell down again, this mode of proceeding is very useful about the six to months, and before entering upon an internal examination the bladder and the rectum should always be first emptied.

The signs to detect the death of the foetus are very uncertain, the absence of the sound of the foetal heart, is about the only sure sign to depend upon.

The process by which the contents of the womb is expelled, is termed labour, and commences generally at the two hundred and eightieth day after the last appearance of the menses, the causes of labour are not yet well understood, but principally affected by the uterus itself, assisted by the diaphragm, and muscles of the abdomen. The classification of labour varies a good deal with different writers, the division in natural and preternatural or artificial labour seems to be perhaps the best and plainest, natural labour, where the woman is delivered by the process of nature alone, without the assistance or interference of the accoucheur, and preternatural or artificial, where the woman cannot be delivered, unless the accoucheur interferes, as for instance in turning, or the use of forceps, or cesarian section.

In every case, the general features of labour are alike, attended with suffering, but the details are different, and also the duration varies much. The division of labour varies also as much, with the different writers, as the classification, some writers divide labour in four, five, six and more stages, others only in three, and this last one, is the most adopted, the first stage: from the beginning of the first pain, until the dilatation of the os uteri, and may ^{be} continued thirty hours and upwards, without any danger to the mother or child. The second: from the dilatation of the os, until the delivery of the child, and can not safely extend beyond seven or eight hours without great danger to both mother and child, and the chief danger

of the mother, is the compression of the soft parts and wounding them, which may be followed by inflammation and sloughing etc.: and the third stage ends with the expulsion of the placenta, if labour is prolonged in any of these three stages beyond the usual time, it is called tedious labour.

As nature has not placed the child always in one and the same situation, in the womb of the mother, but very differently, sometimes with the head above, others with the head below and perhaps in still other cases, the child may be placed transverse, so it must at once be seen, that the mechanism of labour can not always be the same in every case, but also different, and this is of the utmost importance to the

accoucheur, and these different situations of the child are divided into presentations and positions.

By Presentation is understood, that part of the child which presents itself to the superior straight position, whether it is left or right. The Presentations are subdivided again in natural and unnatural. In describing these divisions, writers are of different opinions, some adopt four, some six, others only two natural presentations, the head and the breech, and take all others as positions or unnatural presentations; but in describing these presentations, their diagnosis and mechanism, I shall follow the course adopted in our school, and begin with:

Vertex Presentation.

The diagnosis of this presentation is the anterior quadrangular fontanelle. This presentation is the most frequent 96 per: cent. of all, 40 per: cent. are left anterior occipito iliac position.

The second stage of labour is divided into five stages, this of the left occipito iliac anterior presentation is: first flexion of the chin upon the sternum, second descending of the head into the former position, to the peritoneum or as far as the tuberosity of the ilium; third: rotation of the head, so that the occipital extremity engages under the pubes; fourth: extension of the chin forward, to disengage from the vulva; fifth: again rotation so as to bring the shoulders present at the anterior posterior diameter of

the upper straight, this last rotation is in conformity with the first rotation, the head of the child outside of the genital organs holds the same relation to the superior Strait, as it did when the second stage of labour commenced. In this presentation, the foetal head has its fronto occipital diameter, at the commencement of the second stage of labour, corresponding with the left oblique diameter of the pelvis of the mother. The left oblique diameter being a line drawn from the sacro iliac symphysis of the side of the pelvis to the pectineal eminence of the left side, and the right oblique diameter being a line drawn from the left sacro iliac symphysis to the right pectineal eminence. This position however may be changed in the first division of the second stage of labour, by the

face acting nearer the occipital extremity of the foetal diameter, which drives the occipito brachmatic diameter in relation with the left oblique diameter of the pelvis.

Again, in the second stage of labour, where there is a left occipito anterior position of the head, there is, first: forced flexion, second: descending; third: rotation; fourth: extension; fifth: external rotation.

The second most frequent position is the right occipito posterior iliac, the mechanism is similar to the foregoing, the head presents at the commencement of the second stage of labour, with its fronto occipital diameter, in relation with the left oblique diameter of the pelvis, but the occiput is nearest to the sacro iliac symphysis, and there are also five divisions in this stage,

first: forced flexion; second: descending;
third rotation; fourth: extension;
fifth: external rotation.

The third phenomena, differs here from the same in the previous position, here describes half a circle, and rotates from the right to left, and in the previous only a quarter of a circle and rotates from the left to the right. Other exceptions in this position, - are: that the head in the third division, sometimes does not rotate forward so as to engage the occiput under the pubes, but moves backward and the occiput remains in relation with the coccyx, and the chin will then be in relation to the pubis in this case, there will be no extension followed, but increased flexion until the occiput is disengaged from the perineum,

then extension follows to disengage the chin from the pubis, after this there is again rotation to the left, until the shoulder presents with the long diameter of the inferior strait. Sometimes the occiput becomes fixed in the descent, so that the chin leaves the sternum and converts it into a face presentation, from that point onward, it must be continued as such. The other remaining positions are extremely rare, and if they do occur present nothing difficult in the mechanism.

Face Presentation,

The diagnosis of this is made by the prominence and irregularity of the features, the nose, the eyes, the mouth and the chin, the nose however is the best sign, it not alone

tells the presentation, also the position, this presentation is sometimes mistaken for breech presentation, the mouth for the anus, the molar bones for the tuberichii. This presentation wants more laboring effort, and differs somewhat in its mechanism from the foregoing, there is, first extension; second: descending; third: rotation; fourth: flexion, and fifth: rotation in the second stage of labour; hence in the commencement of this stage, the frontal position of the head of the foetus presents at first, the forced extension will then be the result of the force from above, acting upon the head, and extending backward until the occiput will be against the back of the foetus and will bring the face or fronto-mental diameter in relation with

one of the diameters of the superior
 straight, the descent will not con-
 tinue down so low in the pelvis, be-
 fore rotation takes place, as in
 the vertex presentation, but ro-
 tation will commence after the head
 and shoulders have sunk down a
 bout an inch and a half in the
 pelvis, and will continue until
 the chin becomes engaged under
 the pubis, after this there is
 flexion until the occiput is dis-
 engaged from the vulva, and then
 again, external rotation. Delivery
 can not be accomplished except
 in this way, unless the pelvis is
 excessively large or the foetus ex-
 cessively small. The extreme ex-
 tension of the muscles of the neck
 of the child in this presentation,
 render them for a few days almost
 useless, and the head will fall back,

and must be supported, also the tumefaction of the face is worth noticing, not on account of being dangerous, but on account of the deformity, which is very striking for several days, and disappears without any treatment.

Breech Presentation.

The diagnosis of this, is the sacrum and coccyx, which are the chief indicating points, the large trochanters, the anus and the organs of generation.

This presentation occurs in about three per cent. of all labour cases, and when it does occur, the left sacro iliac anterior, is the most frequent position, next the right sacro iliac posterior.

In the commencement of the second stage of labour, in the left sacro

iliac position anterior, the sacro-pubic
 diameter of the foetus is in relation
 with oblique diameter of the pelvis
 of the mother, and this relation will
 commonly not be changed until the
 trunk is delivered, after which
 there is rotation, so as to bring the
 occiput under the pubes, then there
 is flexion until the head is disen-
 gaged and delivery is completed;
 in this labour, the head may be brought
 down, the chin flexed upon the sternum,
 or the fronto-occipital diameter may
 be in relation with the left oblique
 of the pelvis until rotation occurs
 at the inferior & straight. In this
 presentation the acromion shall
 not interfere, and if interference
 should become at all necessary,
 it would be only after the trunk
 is delivered, for, when unnecessary
 interference, the arms may be dis-

placed and cause them to extend upwards and past the head, and so render the delivery more difficult. This will, as general not happen, if nature is left entirely alone.

In the right sacro iliac position, the labour may be completed in three ways:

The first: and most frequent is the rotation of the occiput forward until the left sacro iliac be engaged under the pubis.

The second: in which the occiput does not rotate forward but remains in relation with the sacrum, in this the chin engages above or over the symphysis pubis and labour will be completed by extension, so that the occiput would be delivered first, next the brachia, then face and last the chin.

The third: in which the head

comes down flexed upon the sternum,
 and thus the face comes down un-
 der the pubis, - and is first de-
 livered, - after this the brachia,
 and then the occiput.

In this presentation the child's
 life is most in danger, by the com-
 pression of the cord, as to impede
 or arrest the circulation, in coming
 between the walls of the pelvis and
 the bones of the head, when the child
 is delivered as far as the umbilicus,
 it then becomes the duty of the ac-
 coucheur to avoid the evil of com-
 pression, also that of too much stret-
 ching of the cord, by passing his finger
 looklike above the umbilica and
 around the cord, and draw it down
 a little below the umbilica, trying
 to get it in relation to the side of
 the sacrum where it is not so
 much likely to be compressed.

Should however the pulsation of the cord cease, the child must be delivered as soon as possible, else it will be still born.

Shoulder Presentation.

This is an abnormal position of the head presentation, and divided into the right and left lateral plane, and each of these, into a right and left cephalic iliac.

The diagnosis can not be very surely ascertained, unless labour has progressed somewhat, it might be suspected, from not reaching the parts of the child; if the arm or the hand presents, in either of these positions, it is thought rather an advantage, as it not alone tells the presentation, but also the position. Nature can not accomplish the labour in any of these

presentations or positions alone, the accoucheur's interference is unavoidably necessary, also some writers mention cases, where nature has accomplished the process, but this is rarely done, as a general rule the child should be brought into a natural position, this is effected either by version of the head, the shoulder is pressed backwards, and the head substituted for it, and then left to nature alone.

Or: version by the feet, where one or both feet are seized and brought down; this last operation is the most adopted and the safest for the mother, also there is great danger to both, it is thought one of every four ten of the women and about one of every three of the children is lost. therefore the accoucheur must make no use of it,

if it can be avoided, but when ever he must resort to it, not inform the mother of the danger. The operation is performed as follows; the woman is placed at the edge of the bed with the perineum well supported, the legs resting upon a chair, and these as well as the arms supported by assistants, the accoucheur stands or sits between the legs, in performing the operation, and for the introduction of the hand for turning an intermission of pain must be awaited, also for the act of turning itself, the interval is the proper time. Turning may be accomplished very slowly, when there are no circumstances to hasten it, as for instance hemorrhage &c. if this is not the case, one foot may be only seized, and always the one which is the most remote.

Of course the accoucheur should never forget to oil the hand which he uses for the operation, with the exception of the inside of the same.

Twins or multiplied gestation, if there are two or three children in the uterus, various complications may exist, sometimes both children engage in the superior straight at the same time, this must be prevented if it can be done, by keeping the posterior head up until the anterior one has engaged, other times one child presents the feet, and is partly delivered, when the other presents the head, and then become latched together, the chin of the one, under the chin of the other, in this position delivery is impossible, the accoucheur must

raise the first child up or press it down as the case may be, so as to enable him to apply the forceps to the head of the second child, and try to deliver it first, if this can not be done the first has to be decapitated and the second delivered, and this will be the only way of saving the life of one child and that of the mother.

In other cases again one of the children may present the feet and pass down unimpeded until the head becomes engaged in to the superior strait, and then it might be caught by the neck of the other, curving around it, in this case it may become necessary to decapitate one of them, and where it is not possible to prevent both heads from entering the superior strait, measures

7/14

must be taken to embryotomy of
one of them.

After the child is born, the
accoucheur has to tie and cut
the cord, some use only but one
string, but two are preferable, one
to be tied about two inches from
the umbilicus, the other a little
below, on account of cleanness
first, and second there might
be an other child in the womb.

If after twenty five or thirty
minutes the placenta is not ex-
pelled the accoucheur must
proceed to take it away, the
placenta may adhere, and this
may be known to exist when
traction is made upon the cord,
and after leaving it loose, it
will recede again, the accou-
cheur must try to peel the plas-
centa off, if it can be done with,

out much severe injury to the uterus, and after the delivery of the placenta, the uterus should be fully contracted. The pains, denominated Afterpains, are sometimes distressing to the woman after delivery. Two conditions may be followed in the uterus, one if the uterus is fully contracted, and there is great pain, opium will correct this, the other where the uterus is not fully contracted, known by the pains being followed by a clod of blood at each contraction, and this may be overcome by the use of ergot.

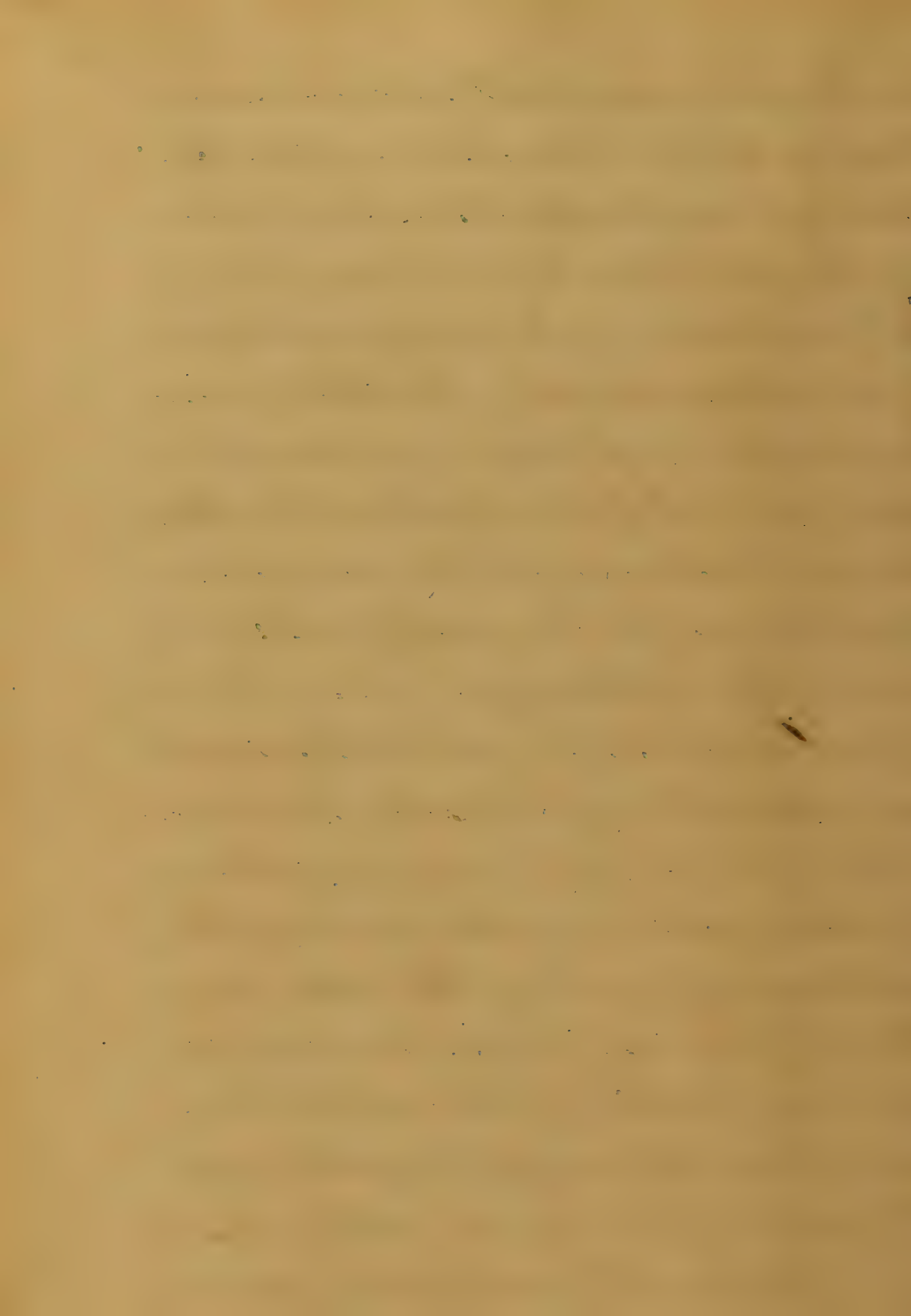
Immediately after parturition Lochia commences, and may continue three or four weeks, it is generally serous during the first five or six days, and ends with

a discharge of all that has remained in the uterus after delivery, and may therefore also be purulent at its termination.

The lochia may be arrested for a few days, when lactation commences, and this is generally accompanied by a slight fever. Cleanliness is always of the utmost importance, for the safety of the women after delivery.

Dystochia, is first the want of contraction of the uterus, or inertia of the organ, or powerful contraction, or irregular contraction where only part of the uterus contracts; second: from hemorrhage and convulsion; third: from malformation of the pelvis, or tumors in the vagina etc.

When the patient is of a plethoric habit, and irregular



contraction or want of contraction takes place, with a hot and dry skin, and an accelerated pulse, the lancet is the best remedy; on the other hand if of a nervous temperament or weakly and spasmodic and irregular contraction occurs, opium is the best, but if there be entire inertia and nothing to contraindicate, the ergot must be employed.

It sometimes occurs in labour, that when the head of the child has passed through the os uteri, that the os contracts, between the neck and shoulders, which condition is known, by the head descending during the pains and retracting during the intervals, here blood-letting or Chloroform has to be employed to overcome the trouble.

The os in contracting, gives sometimes a wrinkling sensation

to the touch, this depends upon spasm of the muscular fibres, and may be corrected by the use of Belladonna ointment or by the use of a small piece of belladonna extract introduced with the finger, applying it to the constricted os, but when ever there is a hot and dry skin, and a good deal of inflammatory excitement present, bleeding will be the best means. But there is still another kind of contraction, named the hourglass contraction, this occurs in the neck of the uterus, either by the circular fibres around the uterus or by the circular fibres in the neck lower down contracting, and is of the worst kind, when this happens and the placenta should be retained though in the uterus,

Chloroform must be administered, to overcome the spasmodic contraction, and then manipulating & deliver the placenta, this is the only treatment, other irregular contractions which take place in the uterus to embrace the placenta, and which is known by a tumor felt in the same part of the uterus, must be treated in the same way.

In mentioning several times the employment of Ergot, and this drug, if in careless hands, is fraught with a good deal of danger, and therefore should be used very carefully, a few remarks as to its administration, will certainly not be out of place. Ergot the deceased product of common rye, is never employed during the first stage of labour, but in the two following stages, and after labour when indicated.

Inertia of the uterus is the chief indication of its employment, and spoken of already, it serves some times, as the only effective remedy for hemorrhage after unusually quiet labour, where the uterus is left almost entirely inactive after delivery.

The dose is from 20 grains of the powder or 20 minims of the etherial preparation, to be repeated every fifteen or twenty minutes until it operates, commonly the action begins to manifest itself in fifteen minutes after its administration and continues to act about one hour, and if the action is desired longer, it must be repeated at the end of the hour.

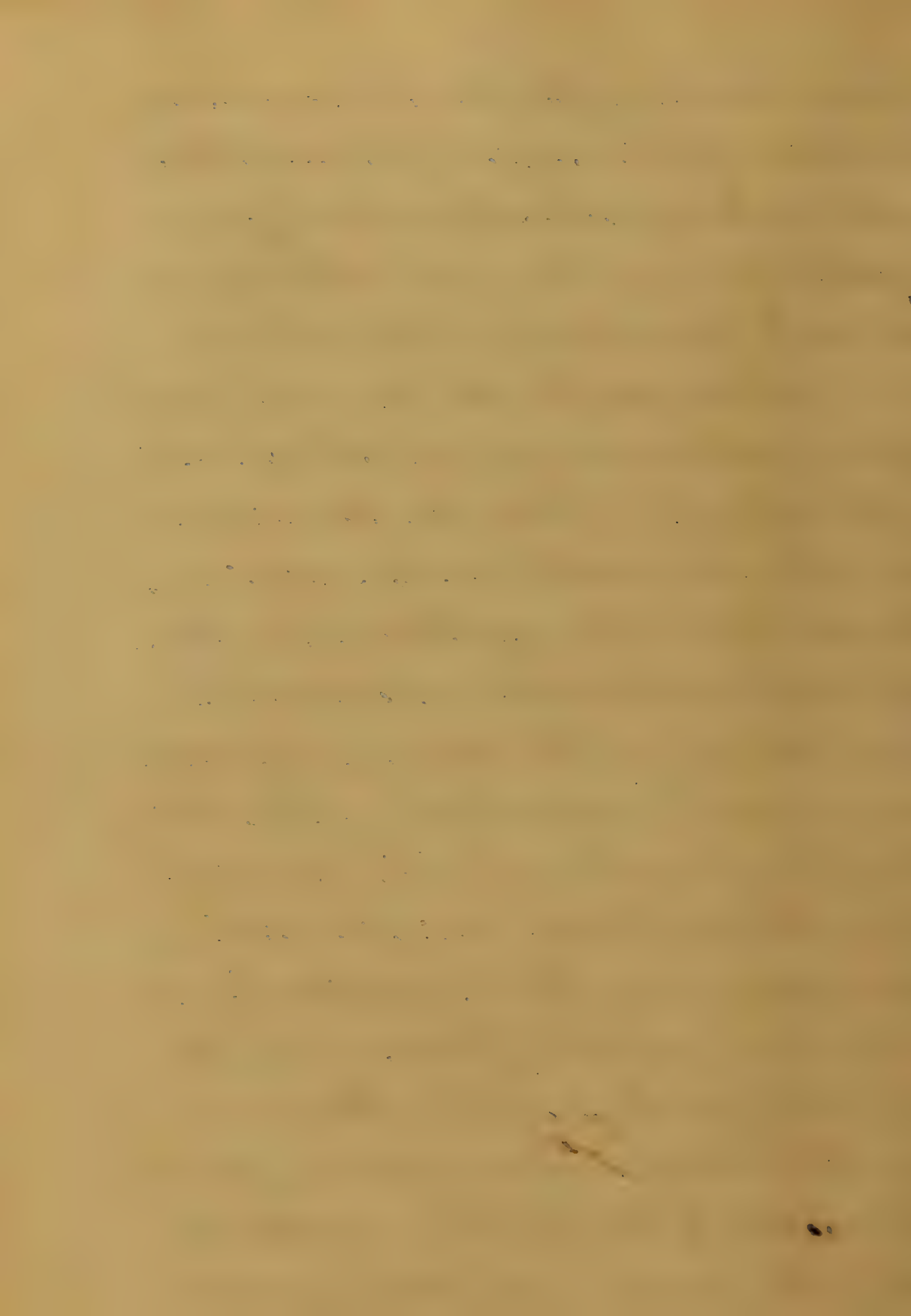
If employed in the second stage of labour, the following conditions are necessary for its safe use,

The os must be fully dilated, the vagina also, and must be moist and lubricated, the perineum must be in a condition, so as not to offer any resistance to a speedy termination of delivery; the relation between the pelvis and the child must be normal etc., no deformity must exist in it, so as to impede the labour, such as being too small or any other condition unfavourable for the speedy completion of delivery, no tumors or any other portion of the parts, must exist to interfere, the child must have its normal size, so that it may pass through the parts with ease, the presentation must be favourable, either head or breech, unless these conditions are presented, it would be very injudicious practice to administer the drug, for the safety of the mother and the child is

Threatened; & after the administration of the ergot, the child is not delivered, within twenty five or thirty minutes after, it begins to act, the child will be still born.

Through the kindness of one of my physicians friends, I had an opportunity to observe the action of the ergot. The woman was in the second stage of labour from 12 o'clock at night until 8 o'clock the next morning, the labour pains were very weak, 25 drops of the etherial preparation were administered, within thirty minutes action commenced and the child was safely born in twenty seven minutes after the action of the drug.

Yet, not every woman, carries her child to the full time, abortion may take place, and this can be done, by three conditions, of which



two are peculiar to the female constitution. One aplethoric habit of the body, the other anæmia state of the body, and followed by nervous irritability, the third accident.

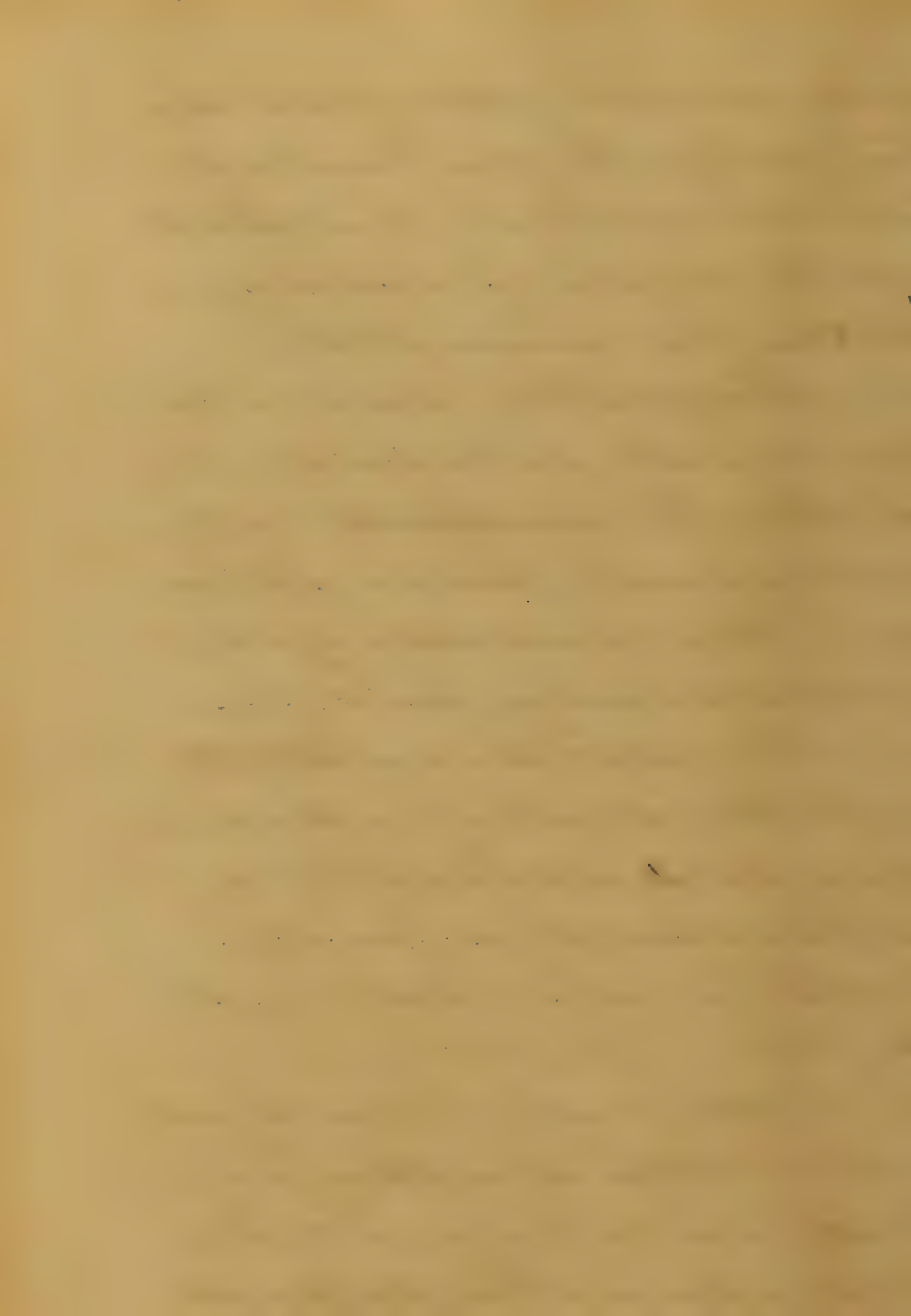
The accoucheur has to treat, the aplethoric habit, by the depletive remedies, such as bloodletting with the lancet, saline cathartics, &c, pecially at the period when menstruation should occur. In the anæmia state the treatment must be opposite, on account of an opposite state of the system, the state of the blood must be tried to be improved by the use of tonics, ferri-quinæ preparation &c.

If in any of the three cases actual abortion takes place, and has to be treated, quietude, cool drinks, strict diet and the administration of liniment of

opium per rectum, astringents acting principally upon the uterus, are the remedies, to be employed, with the exception of nourishing diet in the anemic state.

Should syphilitic disease in the male or female, be the cause of abortion, the immediate employment of mercury becomes necessary, and in occurrence of dangerous hemorrhage the vagina has to be plucked up with lint, up to the os uteris, and a compress placed over the external parts, secured by a bandage around the pelvis, and over the genitals.

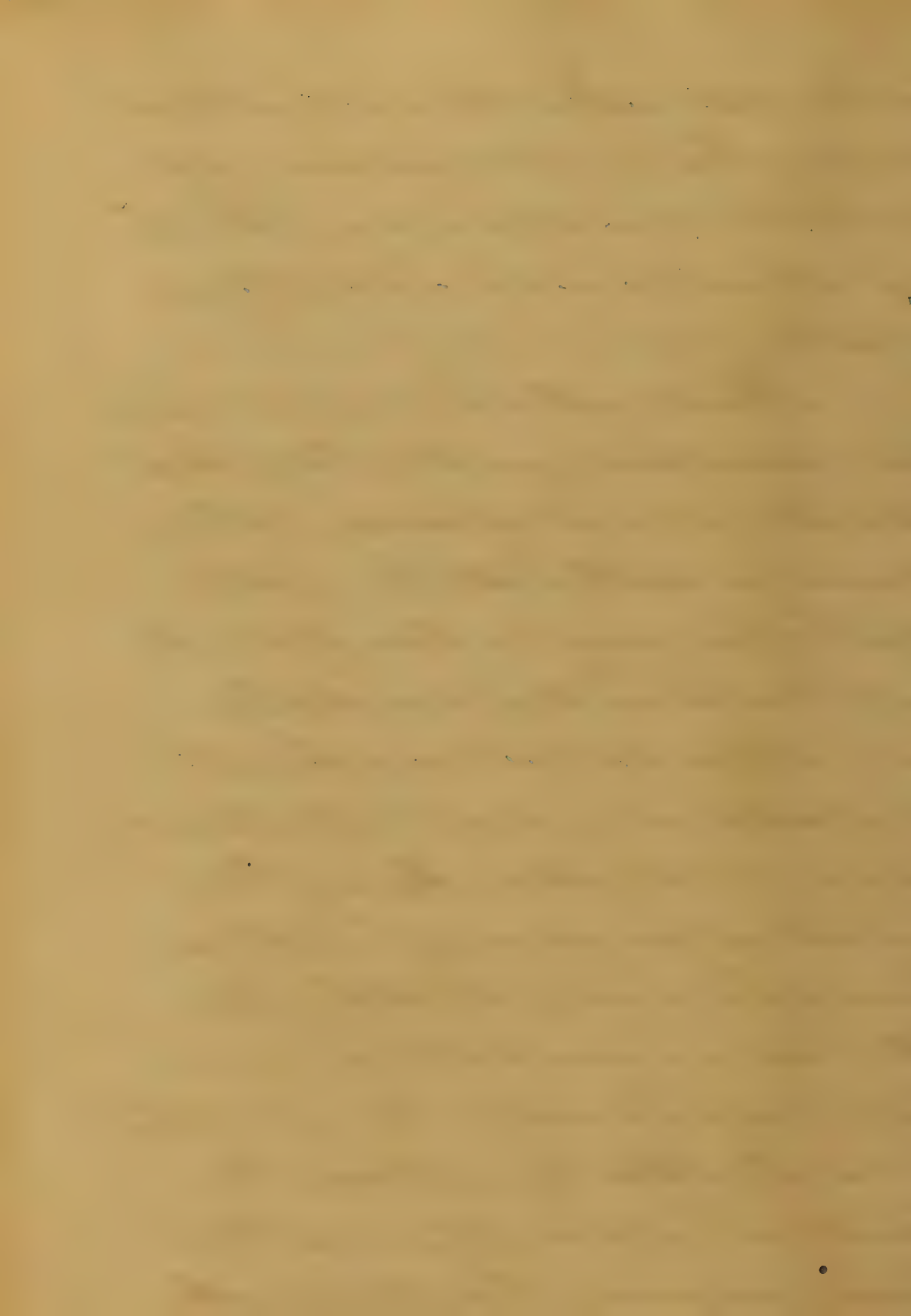
This can be done with great safety in the first month of pregnancy, also with a good deal of safety in the fifth or sixth week, but then it must be closely watched,



and in cases where there is habitual constipation, pills containing 1-1½ gr of Aloe and ¼ of a gr. belladonna extract, may be used with good effect.

Under all the evils, on which the accoucheur, particularly must direct his point of view, Hemorrhage will take the first rank; this may be divided into accidental and unavoidable.

Accidental: are hemorrhage attending accidents - almost of any kind, either during the period of pregnancy or at parturition, or immediately after it, and unavoidable hemorrhage occurs when the placenta is in its attachment over the os uteri internally, or in the closest proximity partly over it. Then again hemorrhage may

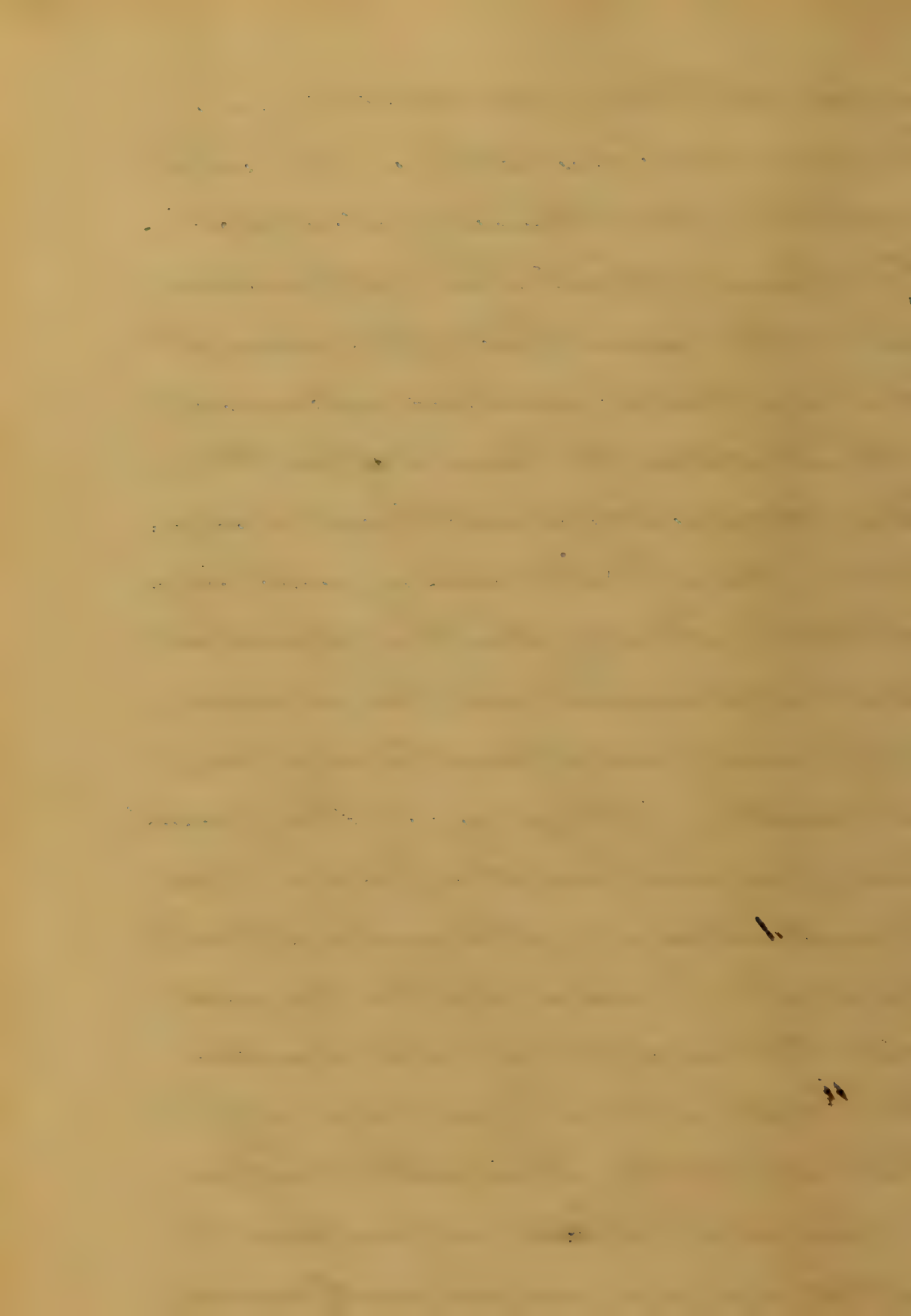


be divided into external or internal. External when the blood is escaping the vagina and external parts. Internal when it does not escape through the vagina, - and external parts, and this is diagnosed by the sudden increase of the volumen of the uterus, - and may occur during, or at the end of pregnancy.

When accidental hemorrhage occurs during pregnancy, and is of such a character as not to endanger the life of the mother, the accoucheur must employ means to arrest it and try to bring the child to full term, but if the hemorrhage should continue, then the membrane must be ruptured, and delivery completed soon or gradually as the circumstance may require.

Should the head present at the upper straight, - and not be engaged in it, it must be turned, if this cannot be done the forceps must be employed, the immediate object is always to induce the uterus to contract, - and this is the only means to arrest it, in such cases the rupture of the membrane, and bringing the solid part of the child in contact with the uterus, acts as a stimulant and is the best means to induce uterine contraction, but if after the delivery of the child, the uterus has not fully contracted, some inducement must be offered for its contraction, by means of manipulation with the hand externally over the uterus, by administration of the ergot, by cold douche, and this will - as

a general thing contract the
 uterus permanently. In other
 conditions sometimes presents
 itself, in which the accoucheur
 will not have time, to resort
 to the above mentioned means,
 and to await their effects,
 the hemorrhage instead being
 but a small stream, quoth away
 at once, through the vagina al-
 most as much as there pos-
 sibly can pass, producing im-
 mediate flaging of the pulse
 loss of sight and ⁿsyope, this
 is not always external but also
 internal, known by the rapid
 extention of the uterus under
 the hand, and the same effects
 follows as by the external, in
 such cases there is no time to
 consider, a prompt and quick
 action of the accoucheur is



required, the only remedy which is
 known, is to introduce one hand
 into the uterus, with a piece of ice,
 if on hand, or without it, apply
 the other hand externally - and
 so compress the bleeding space,
 between the two hands, and in
 this manner arrest the hemorrh-
 age, the placenta may have been
 delivered, previous to the blee-
 ding, or may remain in the uterus
 yet, and attached to it, then
 it must first be peeled off, and
 then compressed, the hands must
 be used until the uterus contracts,
 keeping the placenta below it, and
 bring it away after the success-
 ful contraction, - and to pre-
 vent syncope, stimulents must
 be administered, also cold douche
 employed at the same time, and
 if ineffective first warm, and

then cold may be used, also ergot may be used. Our Professor in this branch, recommends for this reason not to leave the woman, within one hour after parturition, and he does so with right for: the accoucheur should have no other business on hand, than only his patient in labour, which he attends, and should not leave her, until he knows her safe, then if he leaves too quick, and an accident like this should occur, there would be no help for the poor woman, and the blame would fall upon him.

Hemorrhage from placenta previa or unavoidable hemorrhage differs in several circumstances from accidental, and this serves to distinguish it from the latter, there is commonly

at longer or shorter intervals from the sixth to the ninth months of gestation an attack of hemorrhage which may subside spontaneously, by a clod of blood plugging up the os, but may also be of such a character as to demand interference. When labour has set in, it may be distinguished from the other varieties by its bleeding being most abundant when the uterus contracts, whereas the other bleeds most copiously during the intervals, in both, the object is to empty the uterus as speedily as it can be done with safety and cause the uterus to contract. To arrest the hemorrhage Baudelogue recommends pressure upon the abdominal aorta, this accomplishes

sometimes the purpose, - and cau,
sed the uterus to contract per,
manently, and may be tried also
in severe cases of hemorrhage.

In Placenta Previa, when
the os is at all dilatable, the
fingers may be introduced, gra:
dually dilate the os, and dissect
the placenta along its inner margin,
then seize the feet, turn and
deliver the child, if the hemorr:
hage is not severe, then it may
be left to nature alone, to finish
the process. After parturition
the chief remedies to be em:
ployed are opium, brandy and
nutritious diet. Wine is ob:
jectionable on account of dis:
agreeing with the stomach, it
renders it acid in great debility.

In all cases of severe he,
morrhage, these may be symptoms

which are sometimes mistaken for inflammation of the brain but if the opposite condition of the system which may be followed by such symptoms is borne in mind, it is not very likely to commit this error, then after the loss of so much blood, it might prove very fatal if mistaken. Acute pains in the head, frequent weak pulse, dread of light etc, are symptoms that follows, which in an now anemia state of the system, would indicate cerebritis, but here it does not indicate such a thing, the treatment must be as already stated. If hemorrhage takes place in a week or two after parturition, the ergot will arrest it, and a very successful plan adopted by Dr. Millerberger



is a blister over the sacrum.

Hemorrhage that occurs in delivery, especially those accompanied by placenta previa, are very fatal, it is thought generally one out of every three is lost. Next to hemorrhage Puerperal convulsion attracts the accoucheurs attention, it is more dangerous but of less frequent occurrence, the different names under which they are designated are Epileptic and Puerperal convulsions and Clampsia, and they may be centric and eccentric. Centric when they emanate from the centre of the cerebr spinal nervous system, and eccentric when the irritation is at the periptical extremity of the nerves fibres. The centric

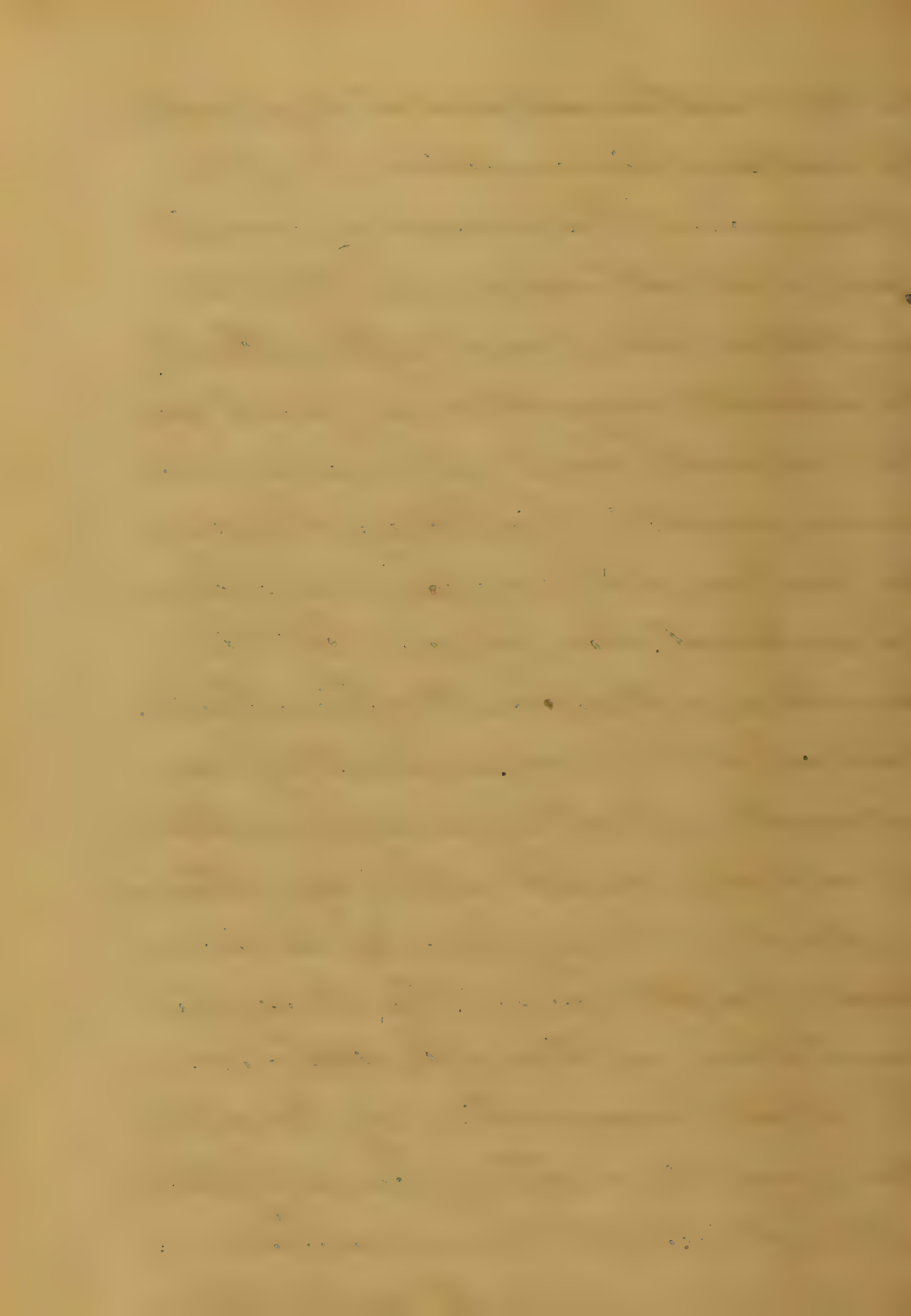
may arise from three distinct conditions of the system, anaemia, plethoric, and when there is a poison in the blood which excites the nervous centre to action, this poisonous condition of the blood, may be due to excrementitious matter retained in the blood such as urina, when the kidneys don't perform their proper duty, and which become converted into urate of ammonium and then acts as a stimulant to the nervous centres.

In a plethoric state, congestion of the spinal cord or of the medulla oblongata, or both together may produce convulsions.

The eccentric causes may be the uterus, its appendages, the stomach or the intestines or other organs, when they are in a highly irritable condition.

The treatment of the centric convulsion is free bleeding, application of cold to the head, nauseating doses of tartar emetic $\frac{1}{4}$ to $\frac{1}{2}$ a grain, after which in some cases it may be required to employ the opium or chloroform as a sedative to the nervous system. The chloroform however requires great care on the part of the practitioner, for, its administration is sure to do mischief, if there is a true tendency of congestion present, but if employed carefully and judiciously it is a most valuable agent. Whenever there is a strong full pulse the face and neck engorged with blood, a hot and dry skin, the only reliable means is the lancet, and

tarter emetic with cold application
to subdue this condition, if the
stomach is the course of convul-
sion, the attention must be di-
rected to this, and after bleeding
to prevent congestion a quick eme-
tic of sulphate of zinc, or even
common salt, if nothing else can
be had quick enough, may be given
to unload this organ. If the
bowels are the seat of irritation,
they must be evacuated by an
enemata, first by warm water,
if not successful, oil may be tried
and every thing has to be avoid-
ed, that has a tendency to
irritation, if the bladder is
the seat, evacuation by the cath-
^{eter}ter may be necessary, and if the
uterus itself, the membrane
must be ruptured and deliv-
ery promoted.



Clampsia, depending upon
 the urine being retained in the
 blood, and there converted into
 carbonate of ammonia, must be
 treated, a little different,
 blood letting may become necessary
 if there is much danger of the
 brain becoming overwhelmed by
 congestion, but commonly their
 indication can be fulfilled by
 drastic purgatives such as jalap,
 and blisters on the neck etc. —
 between the interval citric tartaric
 or benzoic acid must be admi-
 nistered, the benzoic acid is
 preferable, while it decom-
 poses the carbonate of ammonium.

Colchicum may be also of
 some use in this state, on account
 of its diuretic effect, and pro-
 moting its elimination of the
 urine through the kidneys.

The diagnosis of the urinic state, is the albumen in the urine and oedema of the lower extremities and genitals.

To conclude my essay, I should not forget to say something about the Forceps, it will not be necessary to go in details on, from its history, it may be sufficient, to say that the forceps of Hodge's, recommended by Prof. Milttenberger, is the one now commonly in use; they consist of two blades, a male and a female one, the male is the one that has the pivot, by which the blades lock. In the application of the forceps the Professor on this branch also recommends the system to be brought under chloroform, the woman should be placed as in turning, with the

perineum fully over the edge of the bed, the long parts of the pelvis should only rest upon it, so that the bed clothing can not interfere, and in no operation of this kind should exposure of the person be made, as the eye cannot assist the accoucheur in the operation, and if the practitioner can not do this, it is better for him to leave Obstetrics alone. After the woman is placed in position, and supported by assistants, is as a general rule, the posterior blade first introduced, the anterior last, in cases which are the most frequent, and where the long diameter of the child's head is in relation with the left oblique diameter of the pelvis, the male blade is in two;

duced by holding it in the left hand, and with the fingers of the right hand the blade is followed into the vagina, so as to protect the parts from being impaired by it, and to bring it in proper relation with the child's head. The female blade is then introduced with the right hand and followed with the fingers of the left hand, the male always corresponding with the left, the female with the right side. Great care should be taken, not to get any parts of the uterus or the vagina within the grasp of the forceps.

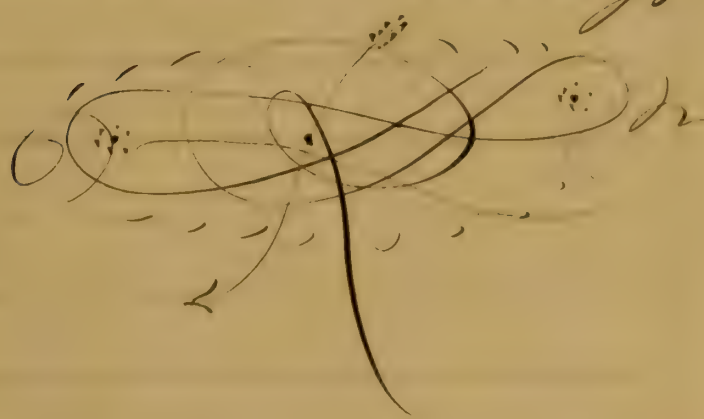
The forceps is mainly used as a lever, no violent traction must be employed, only enough to maintain what is progressed, from the movement from side to

side, and continued until the head is delivered.

The forceps is applied to the side of the head at the lower straight, but at the upper straight the forceps cannot always be applied, on the side of the head, above the upper straight never. In applying the forceps at the lower straight care must be taken, that the blades do not extend below the chin, when the chin is posterior, or below the occiput if that is posterior, else there is great risk of lacerating the perineum with the extending portion. This is all I believe that I can say about the forceps, to the best of my knowledge. I know, that I have said much on this favorite branch of mine,

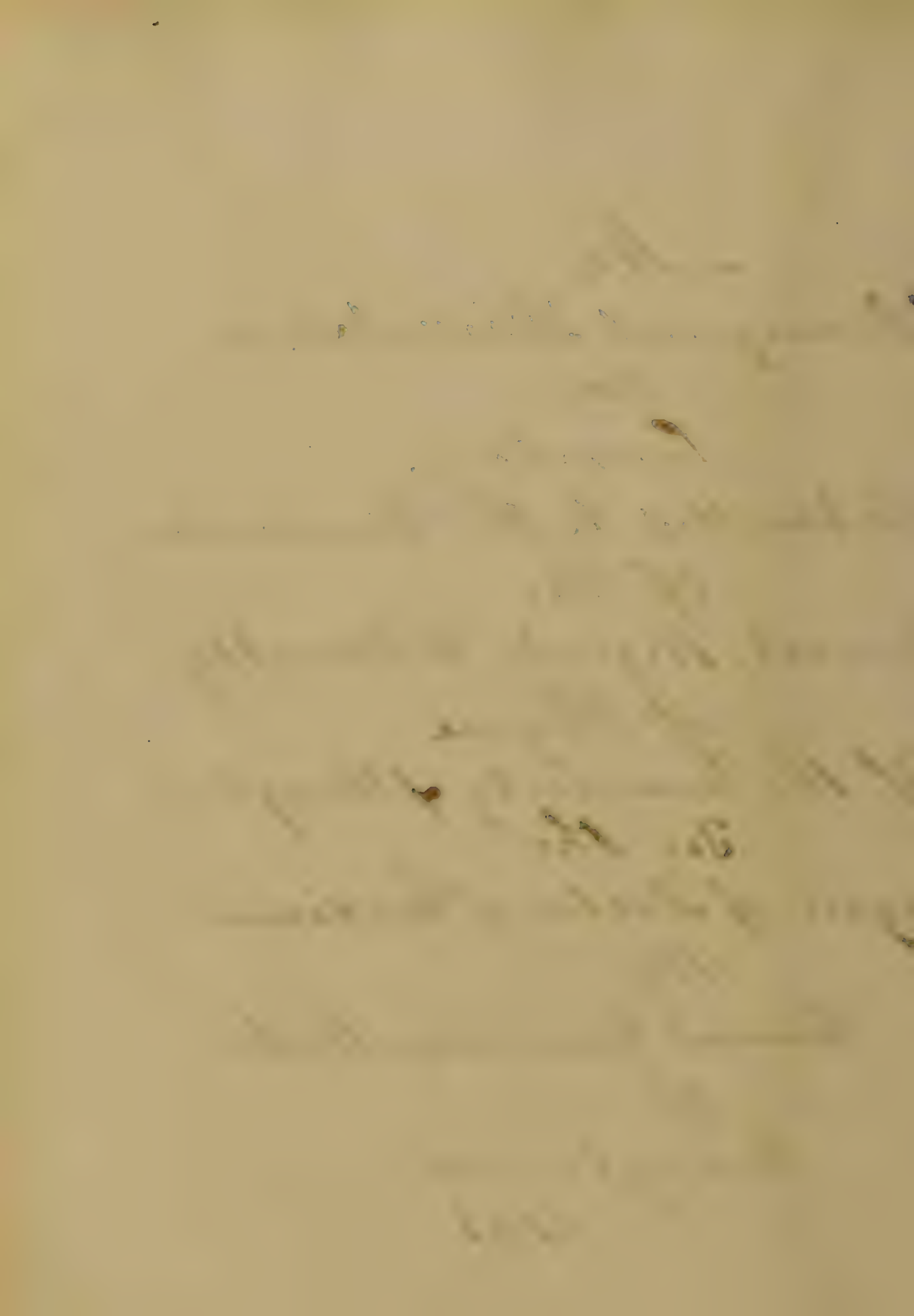
perhaps I have dwelt too minutely on some things and on others not minutely enough, perhaps I have over looked some important points altogether, and went on with some not so important, and might have continued it further, and said something on craniotomy, caesarean section asphyxia of the child etc etc. but the time will not for a moment give me this pleasure, for my part I would not become tired at all in writing, but every one knows that a diligent man, can spend a life time, in reading and writing on the different branches of medicine, for the sake of making himself acquainted with the details of it, and in conclusion,

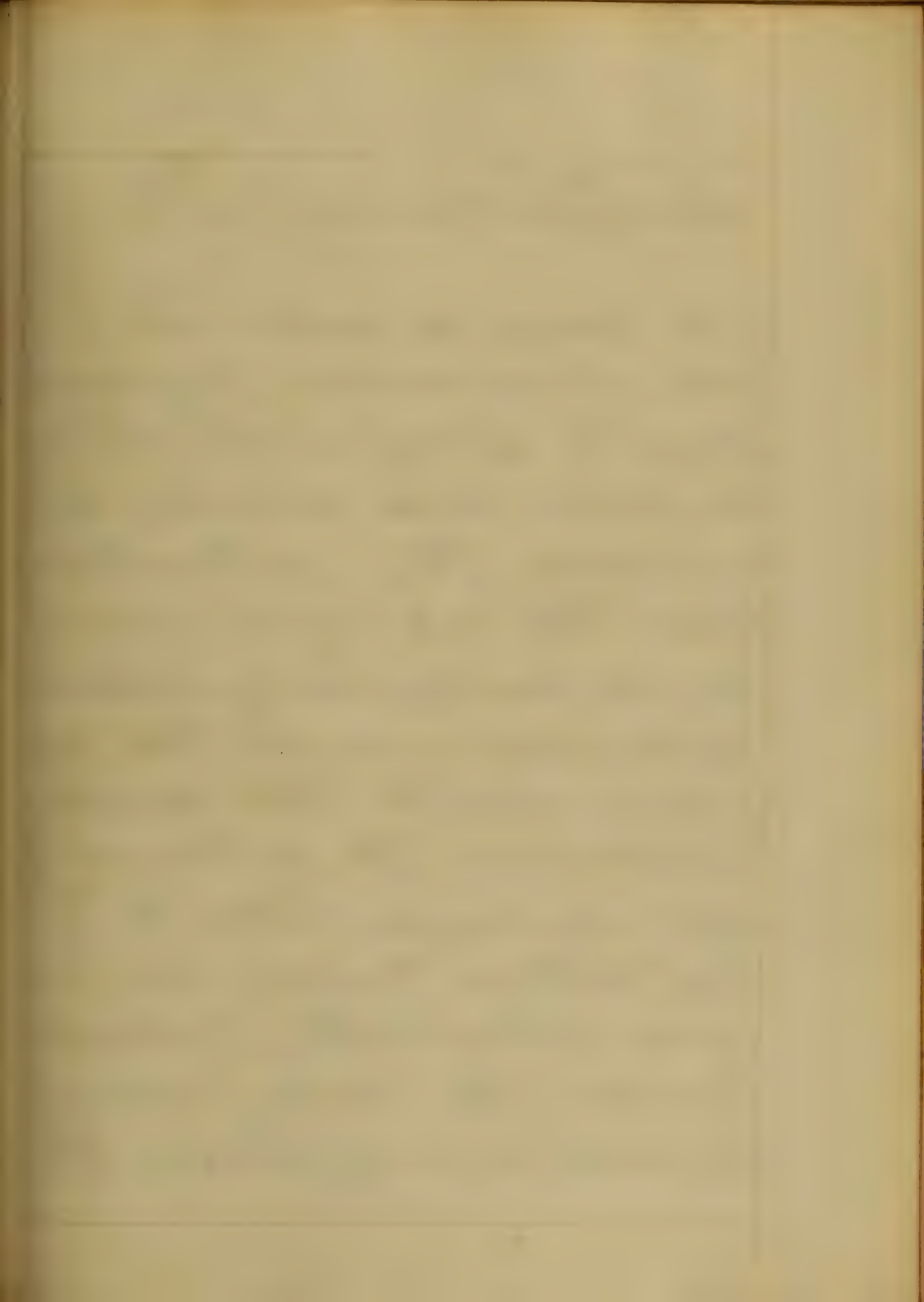
I might add, that I know, this
is but an inferior composition,
which I hardly dare present,
but the Gentlemen of the
Faculty can rest-assured,
that I have tried my utmost,
and with the greatest interest,
and desire of knowledge, to
reproduce every thing as cor-
rectly as my memory and
humble intellect permitted.

Edu. Borchjs




An
Inaugural Dissertation.
On
Luxation.
Submitted to the Examination
of the
Provost, Regents, & Faculty.
of Physic.
Of the University of Maryland.
For the
Degree of Doctor of Medicine
By
Thomas Newnam Booker.
of
Maryland.
1868.





Dislocation Or Luxation

This term is used to signify a removal or displacement of a bone from its proper and natural situation. This accident occurs only at the articulating surfaces and of the various kinds of joints. The ball and socket joint is the most liable to this injury, owing to its great extent of motion. Dislocation may result from two causes, viz exciting and predispo.

Philadelphia 1776

The first of the month of
the year 1776 a committee was
appointed to prepare a
declaration of the rights
of the people of the
United States. The committee
consisted of John Adams,
Benjamin Franklin, Thomas
Jefferson, and others. They
drafted the Declaration of
Independence, which was
adopted by the Continental
Congress on July 4, 1776.
The Declaration declared
that the thirteen colonies
were free and independent
states, and that they were
no longer attached to
Great Britain.

osing causes. for instance
in the latter case the
joint may be diseased
which would render
it weak. probably some
of the muscles are par
alyzed or the ligaments
have become elongated
or an accumulation
of fluids in a joint.
all of which would
assist and render
the dislocation easy.
Or we have the exciting
causes such as external
violence, blows, falls &c
A limb may be in

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such a position that
a quick and unexpected^{2d}
blow would suddenly
displace it.

We have three principal
varieties of Luxation.

Complete, Incomplete
and Compound. A
dislocation is said to be
complete when the
bones have entirely
lost their natural
connexion. Incomplete
when they partially
preserve it. And Com-
pound when a wound
communicates with the

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dislocated joint. Of the three, the latter is by far the most dangerous accident. It is accompanied often with fracture and laceration of some important blood vessels which render the reduction difficult and the subsequent results fearful.

The symptoms which characterize dislocation are swelling, severe pain and deformity. hollows and prominences where none should be. shortening or enlargement, and

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loss of proper motion.

Dislocations are sometimes mistaken for fractures of bone and vice versa.

Yet they may be distinguished from each other by the following symptoms. In fracture we are very apt to have crepitus while in dislocation it is absent and in fractured bone the limb is generally shortened, when it is displaced it is often lengthened. and again if a dislocated bone be reduced it will remain so.

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But if a fractured bone is placed in its proper place situation and the extension discontinued the distention will return.

As regards the treatment of displaced bones, our first object is to relax the muscles which hold the bone in its new situation and endeavour to place it in such a position that the opposing muscles may assist in drawing it in its proper cavity. This is accomplished by

The first of a series of
lectures on the subject of
the history of the
United States was
delivered at the
University of
California at
Berkeley on the
10th of October
1892. The
lecture was
addressed to
the students of
the law school
and was
conducted by
Professor
James H.
Thayer. The
subject was
the history of
the United States
from the
beginning to
the present
time. The
lecture was
very interesting
and was
well attended.

manoeuvring, abducting, rota-
ting, extension and coun-
terextension and the full
use of chloroform. To re-
lax the muscles and di-
minish the severe pain
which always attends
this operation. The
reduction should be
attempted as soon as pos-
sible or the muscles would
contract and keep the
bone in its new position.

After the reduction it is
always best to employ
leeches, fomentation and
purgings to prevent

inflammation which some-
times follows. The patient
should be kept at rest
untill the lacerated parts
have had time to heal
or the laceration may be
constantly recurring.

We have thus far been
speaking of the symptoms
causes, diagnosis and
treatment of dislocation
generally. we will now
take up the consider-
ation of particular Luxation

The first which I men-
tion as our attention is.
Dislocation of the Lower

The following is a list of the names of the
persons who have been appointed to the
various offices of the Board of Directors
of the Bank of the City of New York
for the year ending on the 31st day of
December next. The names of the
persons who have been appointed to the
various offices of the Board of Directors
of the Bank of the City of New York
for the year ending on the 31st day of
December next are as follows:

Law. This may be caused by a blow on the chin or spasmodic contraction of the pterygoid muscles while yawning. Either one or both condyles may be dislocated ^{protruded}. The symptoms are articulation and deglutition. The mouth fixed open the saliva trickles from the mouth, great pain with a most horrible expression of countenance. Treatment. The patient should be placed on a low stool, with his

The first part of the book
is devoted to a general
survey of the subject
and to a discussion of the
principles which govern
the action of the
various organs of the
body. The second part
is devoted to a description
of the structure and
function of the
various organs of the
body. The third part
is devoted to a description
of the diseases of the
various organs of the
body. The fourth part
is devoted to a description
of the treatment of the
various diseases of the
various organs of the
body.

head firmly supported
against the wall. The sur-
geon stands in front
shoulder press his thumbs
properly protected, upon
the molar teeth at the
same time directing
the fingers. The condyles
are thus disengaged
and return to their
own socket or a cork or
two strong pieces of wood
may be used in some
cases. After the reduction
the chin should be con-
fined for a week or ten
days with four teeth

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bandage. See over

Dislocation of Clavicle
The sternal extremity
may be dislocated
either forwards or back-
wards. When forwards
it approaches its fellow
and is much more
diverted than the ac-
romial extremity. When
backwards there is pain
and a depression over
the articulation and
stiffness in the neck
this may be caused
by blows. The outer ex-
tremity may be displaced

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upward on the acromion
or as sometimes happens
beneath it. It is usually
the result of falls or
blows. The symptoms
are depression, pain
and impeded motion.
The treatment is in
all respects the same
as fractured clavicle.

"Dislocation of Shoulder".
This may occur in three
directions. Forwards. Down-
wards. and Backwards.
When the arm is dislocated
inwards. the elbow stands
out from the body. a

protuberance is felt under
the pectoralis muscle
and the limb is shortened
When it is displaced
down or into the axilla
the arm is lengthened
the elbow stands out
and cannot be made
touch the ribs and the
head of the bone may
be felt in the axilla
This dislocation may be
mistaken for three frac-
tures. first of the acromion
second neck of the scapula
and third neck of the
humerus when it is dis

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located backwards. The
elbow projects forwards,
there is a hollow beneath
the acromion and the
head of the bone may
be felt on the os
scapular. Violence and
contraction of the deltoid
latissimus dorsi. Pectoris
major. Pectoralis major
muscles are the causes
of dislocation of the
arm. or violently turning
the arm about.

Treatment. There are
various methods of reduc-
ing dislocation of the

Shoulder-joint. owing to
the various ways they
may be dislocated. for
instance when the arm
is dislocated inwards.
the reduction may be
accomplished by gentle
traction, at the same
supporting the shoulder.
But in the second or
down into the axilla.
the reduction is performed
in or by five methods.
first by simple exten-
sion. second by exten-
sion with pulleys. third
with the heel of the

Surgeon in the axilla.
fourth. With the knee in
the axilla. This is by
far the best method
and is known to accom-
plish our object when
others have failed. The
patient being seated and
firmly fixed ⁱⁿ a chair.
The surgeon standing
behind. Places his knee
in the axilla with his
foot on the seat of the
chair. With one hand
on the shoulder and
the other hold of the
arm. Depresses the elbow

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untill the head of the
bone is disengaged
and the ^{muscles} will pull it
in its socket. traction
should at the same
time be made by
the assistant. the fifth
method is that invented
by Dr White. this is done
by putting the patient
in a horizontal position
the surgeon sits behind
with the scapula fixed
he raises the arm from
the side to the head.
traction is then made
till the bone is thus

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reduced to its position
or socket.

Dislocation of the Elbow.
This dislocation may occur
in six directions. first
backwards, second
backwards and outwards,
third backwards and
inwards, fourth the
ulna may alone be
dislocated backwards,
or radius backwards or
fifth. backwards, sixth
forwards. Each has its
own characteristic de-
formity, attended with
pain and swelling.

The treatment in the four first cases is nearly the same. Reduction may be accomplished or effected by supporting the humerus whilst the fore arm is drawn forwards or the surgeon may forcibly bend the arm over his own knee or forcibly straighten the arm. When the ulna is dislocated, simply extending will reduce it. After reduction the joint should be kept at rest for a week or ten days then it should be exercised

The first part of the document
concerns the general principles
of the proposed system
and the various objections
which have been raised
against it. It is shown
that the system is not
only practicable but also
highly beneficial to the
community. The second
part of the document
contains a detailed
account of the various
objections which have
been raised against the
system, and a full
refutation of each of them.
It is shown that the
objections are either
unfounded or that they
are outweighed by the
benefits of the system.
The third part of the
document contains a
summary of the various
objections which have
been raised against the
system, and a full
refutation of each of them.
It is shown that the
objections are either
unfounded or that they
are outweighed by the
benefits of the system.

in order to prevent an-
giosis. These dislocations may
be distinguished from
fracture of the same
by the absence of crepitus
and impaired mobility.

"Dislocations of the Wrist."

Both bones of the fore
arm may be dislocated
or only one. This injury
is readily recognized
by the altered position
of the hand, which is
either thrown backwards
or forwards if both bones
is dislocated, twisted
if but one is removed.

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The reduction may be accomplished by simple extension.

Dislocations of the Hand.
The bones of the hand are sometimes dislocated the os magnum, os caripon and os pisiforme for instance yet it is very rare always partial. Treatment is Cold, friction, support
Dislocation of the thumb and fingers sometimes occur. They are very difficult of reduction owing to the strength of the lateral ligaments and

The quality of the paper is
excellent and the binding is
very strong. The pages are
well printed and the text is
clear and legible. The cover
is made of a durable material
and the spine is reinforced
with extra layers of paper.
The book is a good value for
the price and is highly
recommended. The author has
done a great job of explaining
the subject in a simple and
easy-to-understand way. The
book is a must-read for anyone
interested in the field.

size of the part from which
traction is to be made
The reduction is accomplished
by extension, traction and
flexion.

Dislocations of the Spine.
This accident rarely ever
happens unless connected
with fracture. It is caused
by hanging, falls from
a height or some crushing
violence. Dislocation of the
Atlas may occasion instant
death, owing to pressure
upon the spinal marrow
Treatment little or nothing
can be done.

1848
The first of the year
was a very cold one
and the snow lay
on the ground for
many days.

The second of the year
was a very warm one
and the snow melted
in a few days.
The third of the year
was a very cold one
and the snow lay
on the ground for
many days.
The fourth of the year
was a very warm one
and the snow melted
in a few days.
The fifth of the year
was a very cold one
and the snow lay
on the ground for
many days.

Dislocation of the Ribs.

These bones are sometimes dislocated. But it is of rare occurrence. Either extremity is liable to the injury. This displacement is generally the result of falls and blows.

They may be recognized by an eminence or depression where none should be. Together with the ribs the Sternum is sometimes dislocated. in front of the Manubrium and the ensiform cartilage separated. The

Treatment in these dislocations or is the same as in fracture of the same bones.

Dislocation of the Hip joint. This is generally a very serious accident and the result of severe violence such as jumping from a height and falling on one foot. The femur may be dislocated in four different directions. First Dislocation upwards on the Os sacrum ilii. Second Dislocation backwards in the Sciatic

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Notch, Third Dislocation
downwards into the
foramen ovale and
Fourth Dislocation forward
and upwards on
the Os Pubis. Besides
these there is some two
or three others which are
exceeding rare.

On the first or dislocation
upwards which is by
far the most frequent.
The limb is some two
or three inches shorter.
The toes rest upon the
opposite instep, the tro-
chanter is less prominent

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is nearer the ilium and if there is no swelling the head of the bone can be felt in its new situation. Treatment

The reduction should be attempted as soon after the accident as possible. In some cases the reduction may be accomplished by simple manœuvring. When this fails we are compelled to resort to main force and chloriform. Such as Extension and Counter-extension This is effected

[The text on this page is extremely faint and illegible due to low contrast and blurring. It appears to be a list or a series of entries, possibly containing names and dates, but no specific content can be discerned.]

by placing folded
shirts or towels ⁱⁿ perineum
and around the leg.
by gentle traction we
may accomplish the re-
duction. Second or
dislocation backwards
in the Sciaric notch.

In this case the limb
is an inch and half
shorter. The knee turned
outwards. The trochan-
ter is behind its natu-
ral position. Treatment

The reduction is some-
times effected by flexion
But usually main force

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must be employed. place
the patient on the sound
side. support the perineum
by sheet or large towel.
well secured to the floor
or bed post then draw
the limb across the
opposit thigh at the
same time rotate it
outwards. Third or
Dislocation downwards
into the foramen Os
The limb is one or two
inches longer. the toes
point downwards and
forwards and very
bent forwards. Externals

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Our object is to disengage the bone from its new place and put it in such a position that the opposing muscles may assist in the retraction. We will first lay the patient on his back. secure the pelvis over with straps over pulleys so applied as to pull the head outwards. while the knee is at the same time pulled downwards and inwards. Fourth or

[The text on this page is extremely faint and illegible due to low contrast and blurring. It appears to be a handwritten document with multiple lines of text.]

Dislocation upwards and
forwards on the Pubis.
The limb is shortened.
The foot points out-
wards and the head
of the bone can be felt
below Pouparts ligament.
In the reduction. Flexion
sometimes accomplishes our
object. Extension is to
be made backwards
and outwards at the
same time raising the
head of the bone over
the edge of the acetabulum.

Dislocation of the Knee
This dislocation is very

The following is a list of the names of the
persons who have been appointed to the
various positions in the
Department of the Interior
for the year 1880.
The names are arranged in
alphabetical order.
The names of the persons
who have been appointed to
the positions of Assistant
Secretary, and of the
various positions in the
Department of the Interior,
for the year 1880, are
as follows:

uncommon owing to the firmness of the joint, when it does occur, it is most always incomplete. Generally the Tibia is thrown backwards. It is characterized by deformity and impeded extension. The reduction is often effected by simple extension.

Dislocation of the Patella
This bone may be displaced anteriorly or posteriorly and laterally either inwards or outwards, the latter the most common.

The following is a list of the
names of the persons who
were present at the
meeting of the
Board of Directors
of the
Company
held on the
10th day of
January
1897.

Symptoms, The bone can be felt in its new situation. and inability to bend the knee.

The reduction is not very difficult. Straighten the knee and raise the leg by means of the fingers and thumb. it can readily be replaced. after the reduction place the leg in the anterior Splint.

Dislocation of the Fibula. Is of very rare occurrence. except in disease joint. In treatment for

This Luxation the leg
should be kept flexed

Dislocation of the Ankle.

This accident sometimes
occurs and is usually
the result of severe vio-
lence such as jumps
from a great height or
from a carriage or car
when in motion. It is
almost invariably ac-
companied with fracture
of Tibia or Fibula or Both.
This displacement may
occur in four directions
forwards, backwards,
inwards and outwards

[The text on this page is extremely faint and illegible due to low contrast and blurring. It appears to be a handwritten document with several lines of text.]

Symptoms In the dislocation of the Tibia inward, the fibula is fractured and the sole of the foot turned outwards. Second In Dislocation of the Tibia & Fibula outwards. The Malleolus is broken over the foot turns inward. In the Dislocation forwards the foot shortens and the toes point downwards. The dislocation has been named but it never occurs. Treatment, Reduction must be effected as soon as possible. Lay the

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patient on his back
with his body properly
supported. The surgeon
grasp the instep with
one hand and the
heel with the other
and makes traction in
this way till the natural
form and shape is
restored. After reduction
put the patient in
the anterior Splint.
Chloroform may be admini-
stered and opium in
regular doses afterwards

Dislocation of the Foot.

The most frequent and

important of these dislocations is the astragalus, which is sometimes separated from its connections. It may be displaced either forward or backward. The reduction is to be effected by the general mechanical means. if this fails amputation must be performed.

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An
Inaugural Dissertation
on
Endocarditis,
Submitted to the examination
of
The Board, Regents and
Faculty of Physic,
of the
University of Maryland,
for the
Degree of Doctor of Medicine.
by
Chas. H. Goldsborough
of
Maryland.
1863.

Endocarditis is inflammation of the interior or lining membrane of the heart. For much of what is known of the disease, we are indebted to M. Bouillaud. Others were aware of the fact, that the inner surface of the heart is sometimes the seat of inflammation, but the frequency of the affection, its rheumatic origin in most cases, and its fatal influence on the development of organic changes in the heart, were first clearly ascertained by the author mentioned.

Anatomical Characters

Inflammation leaves behind it, in the internal membrane of

heart much less prominent
characters than in the external.
The reason of this is obvious.

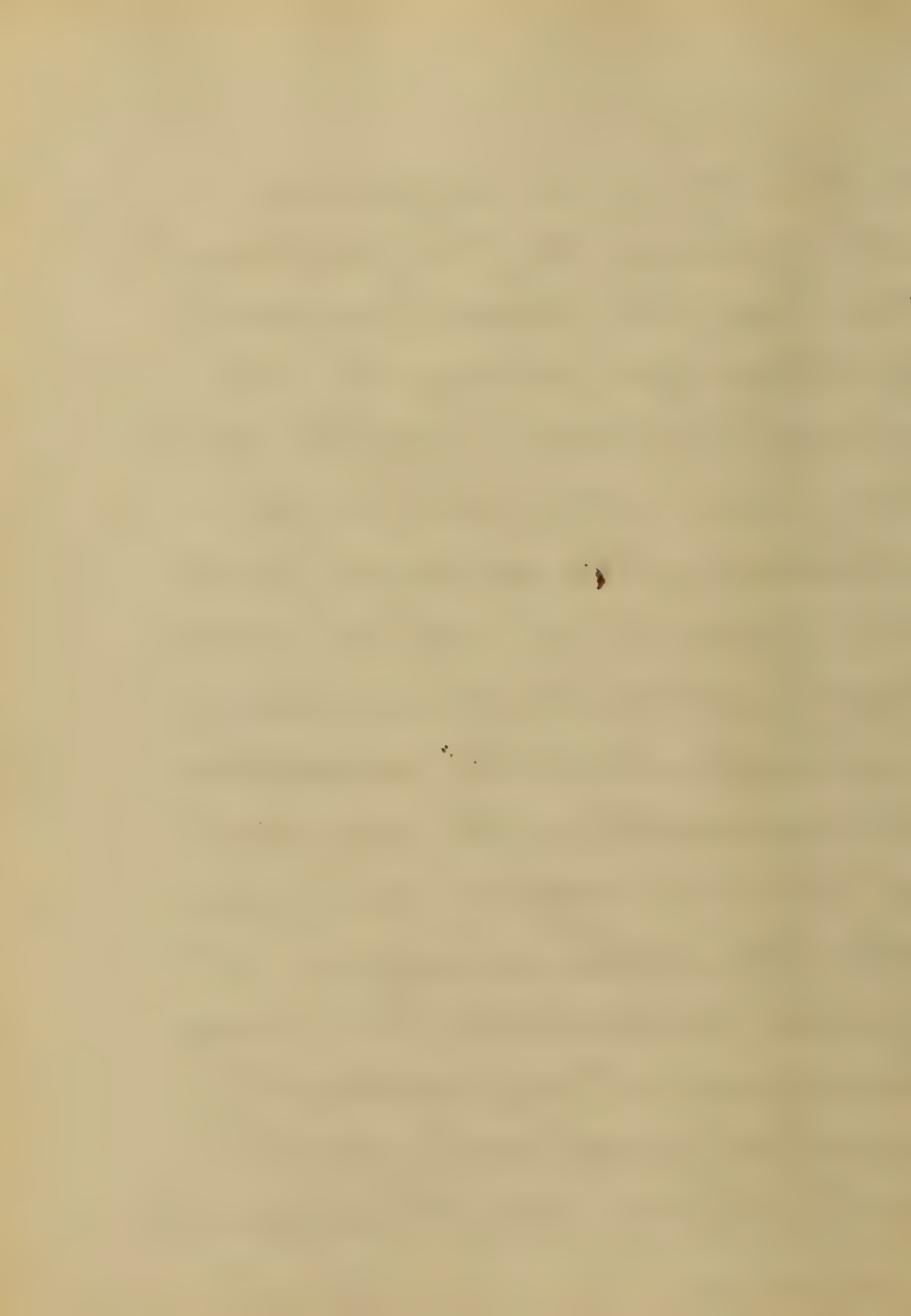
Exuded fibrin, serum, and pus,
the ordinary results and evidence
of inflammation, are in this
affection generally carried away
from the diseased surface, as fast
as thrown out or generated, by the
incessant current of the blood.

Hence, perhaps it was that
endocarditis so frequently escaped
the notice of pathological anatomists
because its foci or patches
gradually passing into the general
state of the membrane, may be
observed more especially about or

from the rest valves, and not
infrequently extending into the
aorta. The reddened membrane
is often thickened, is sometimes
also softened, and occasionally
presents roughness, inequality, or a
whitish opacity of the surface,
consequent on the exudation of
fibrin into its substance or
beneath it. Concrete fibrinous
matter, notwithstanding the
current of blood, may generally
be found in small quantities,
either adhering to the valves
and the membrane in their
neighbourhood, or entangled in the
meshes of the columnae carnea

Sometimes it exists in the form of a filmy layer, but more frequently in granulations from the size of a small dot to that of a pin. These granulations are either of crude lymph, or in various stages of organization, and are supposed to be the origin of fungous or warty excrescences, called vegetations, which have often been observed in the same position. In the auriculo-ventricular valves, the exudation is arranged either in the shape of granulations upon the free edge of the laminae, or in a continuous line near it. In more advanced cases, the laminae

of the valves are sometimes
seen adhering to the surface of
the heart, sometimes to one another
by their edges; causing in the
former instance imperfect closure,
and in the latter more or less
obstruction. The valves are liable
to be puckered up, and in various
degrees distorted. Another source of
embarrassment to the circulation
in endocarditis is the formation
of fibrinous coagula directly from
the blood, which are supposed to
contract adhesions to the lining
membrane, at any accidentally
rough or prominent point,
and may be seen twisting about



the fleshy columns and
orbicular tendons. It is believed
that the fibrous substance
exudation which takes place
in acute inflammation of the
endocardium is sometimes converted,
in protracted cases, into dense,
fibrous, cartilaginous, or bony
structure, and thus produces permanent
disease of the valves. Sometimes
patches of a similar exudation
upon the surface of the
membrane become organized,
and occasion whitish opaque
spots capable of being detached
by dissection, without affecting
the integrity of the membrane.

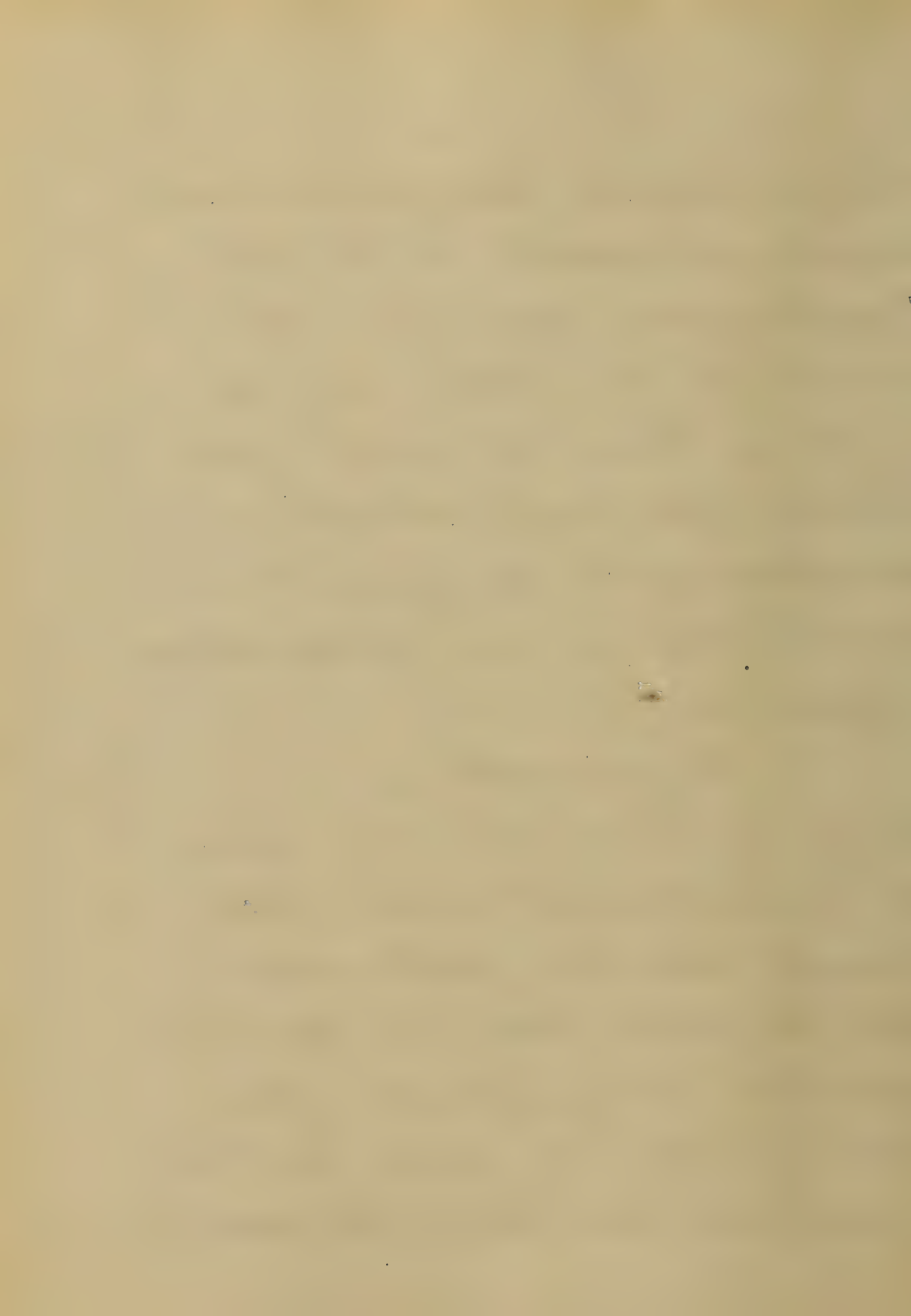
debility. The pulse often reaches 100
or 120 in a minute, and ^{is} extremely
small and feeble. It is often also
unequal and irregular, with
occasional intermissions, which are not
dependent upon the cardiac pulsations,
but upon a deficiency in the
quantity of blood expelled from
the ventricle. Another condition
of the pulse is sometimes observed,
which is connected with the
existence of regurgitation through
the aortic valve. The impulse produced
by the systole of the ventricle is
propagated to the artery at the
wrist with unimpaired force;
but this is not sustained as in

health by the action of the
the elastic contraction of the aorta,
which is now partly expended in
a backward direction. Various
other symptoms result from the
altered movement of the blood in
the heart. They proceed from two
distinct sources, namely, from a
deficient supply of arterial blood
to the system at large, and
from congestion of the venous
blood. The same cause which
impedes the onward movement
of the arterial blood, occasions an
accumulation of the venous blood
behind; whence ensues congestion
in the right cavities, in the

lungs and in the great vessels
trunk, and indeed in all the
great organs, and to a certain
extent in the whole venous
system. There is then, great
debility, faintness, sometimes
amounting to syncope and a
most distressing sense of impending
suffocation.

Physical Signs.

Early in the disease, the impulse
of the heart is felt most
strongly, and to a greater extent
over the chest, than in health,
and this strong impulse often
continues after the pulse has become
small and weak. At length, however,



The muscular power of the organ is exhausted, and the impulse becomes feeble. There is usually a greater extent of dulness than in health, sometimes over twice as great a space. This is probably owing to a distension of the cavities by the accumulated blood. But incomparably the most valuable sign is the bellows murmur. This is usually preceded in a prolongation of the first sound, and, when combined with symptoms of an acute fibrile disease, uneasiness in the praecordia, palpitation, and a frequent small pulse all occurring in a person previously

in good health, may be considered
as quite characteristic of endocarditis.
If rheumatism exist at the same
time, there can scarcely be a
doubt as to the nature of the
complaint. The causes of the murmur
~~are~~ ^{are} from partial obstruction or
defective closure of the valvular
orifices, or from both causes
conjoined. There is reason to
believe that a spasmodic
contraction of the columnae
carnea, attached to the auricular
ventricular valves, may sometimes
contribute to the production of
the sound, by preventing a closure
of the orifices during the systole

suffer^{ing} the aortic. This affection may therefore be associated with pericarditis.

Causes.

Occasionally endocarditis occurs as an original affection; but it is much oftener an accompaniment or the result of other diseases.

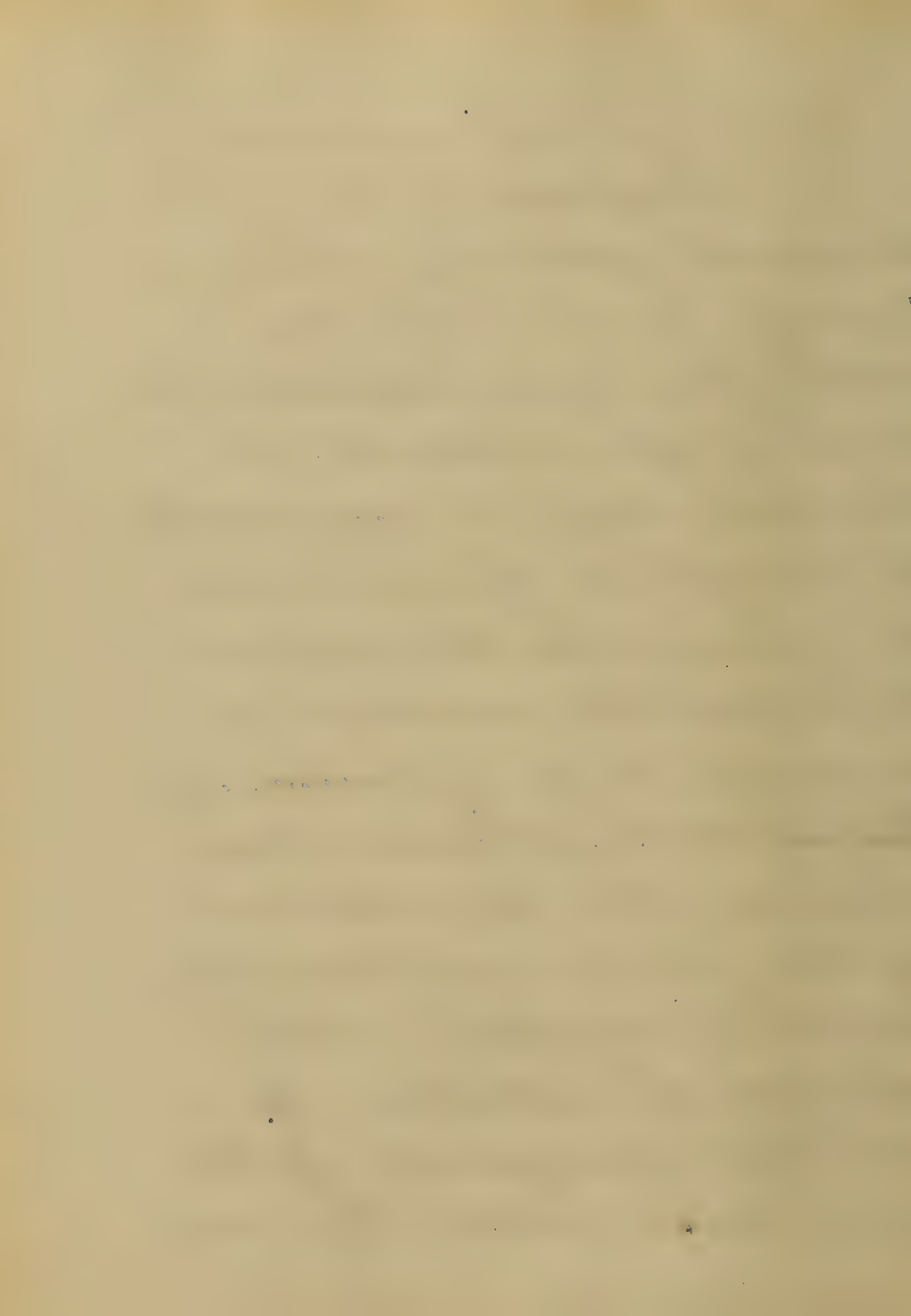
The complaint which it is most usually associated with is acute rheumatism. The cause of this association is probably, in part, the intervention only of a little fibrous matter in certain parts of the heart, especially in the vicinity of the valves, between the external and internal

membranes thus allowing a ready communication of disease from one to the other; but it is probable also that both are often simultaneously attacked in consequence of their equal susceptibility to rheumatic inflammation, just as two joints suffer at the same time. Pleurisy and Pneumonia are sometimes accompanied with endocarditis; and some of the worst cases of the disease occur as a consequence of phlebitis, the inflammation being propagated directly along the lining membrane of the vein to the heart.

Mechanical violence especially
life apt to induce the interior
than the exterior inflammation;
cases of endocarditis are said to
have arisen from forcey use of
of excessive coughing, and from
violent muscular efforts, producing
a rupture of the valves. The
presence of urea in the blood
is supposed to occasion the
several cardiac inflammations,
which are not unfrequently attendant
on disease of the kidneys, interfering
with the excretion of that
principle from the circulation.

Prognosis

Endocarditis generally ends in recovery, if not complicated with pleurisy, or Pneumonia &c. Under proper treatment in the early stages, it may usually be brought to a favorable issue in a week or less. The cessation of the valvular murmur is important as an indication of perfect cure. Should these remain after the subsidence of the febrile symptoms, they must be regarded with solicitude, as indicative of continued derangement of the valves: unless, indeed, they may

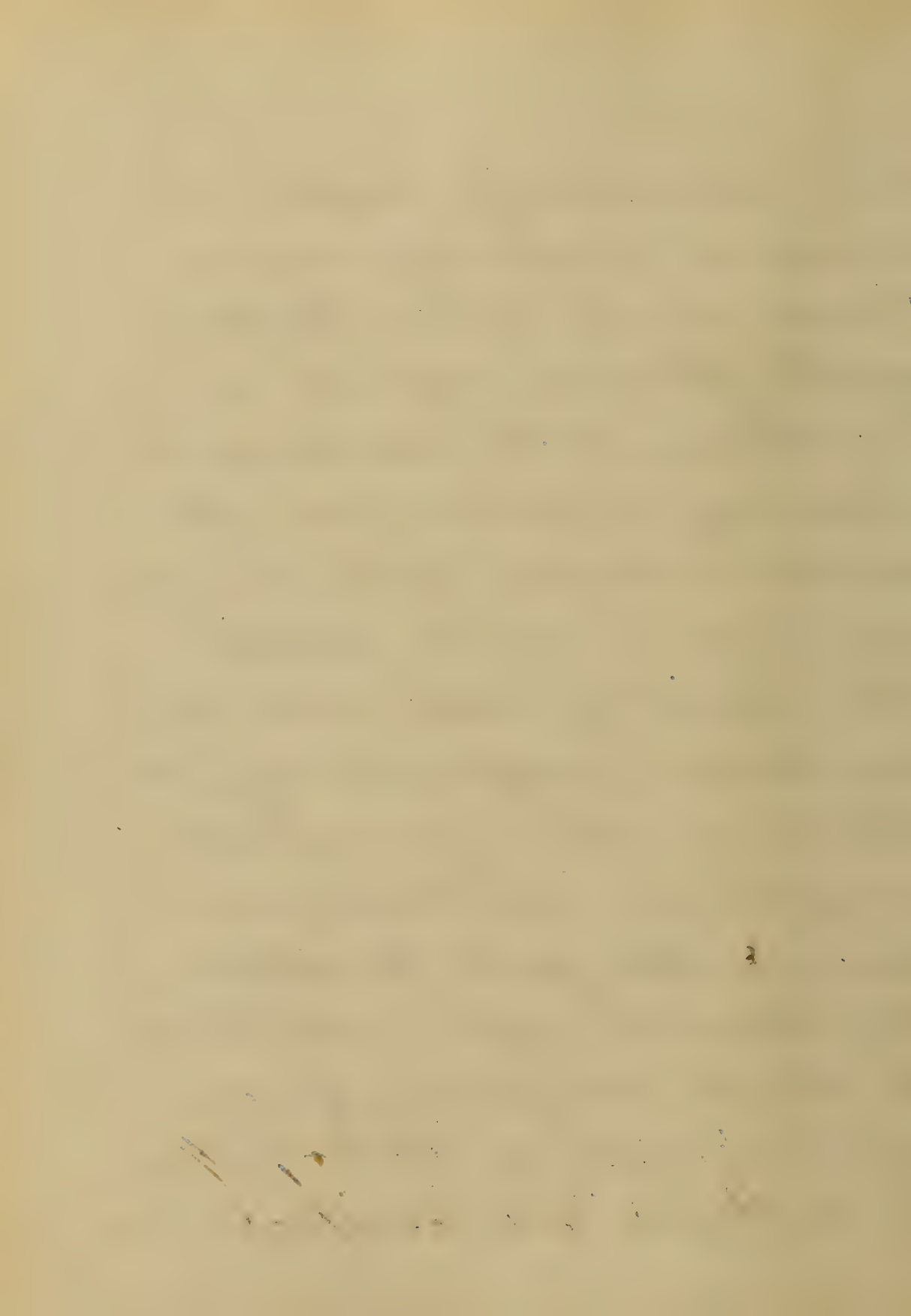


be accounted for by the existence of anaemia. Violent cases, especially those of a complicated character, sometimes end in death in a few days. Extreme frequency, smallness, feebleness, and irregularity of pulse, violent palpitations, distressing dyspnoea, and syncope or a frequent tendency to it are unfavourable symptoms.

The worst result of endocarditis is chronic alteration of the valves. It does not follow, however, that cases in which the bellows murmur remains, after the disappearance of the acute symptoms, will necessarily

be attended with permanent
valvular disease. On the contrary
the exuded lymph is often
gradually absorbed or dissolved
in the blood, and ends in
perfect recovery. But sometimes
it is otherwise; and the permanent
embarrassment of the circulation
consequent upon the valvular
derangement, leads ultimately to
the most fatal lesions, such
as hypertrophy and dilatation,
and all their terrible consequences.
Neglected rheumatism is apt
to have this termination. There
is reason to believe that the
disease occasionally acts in another

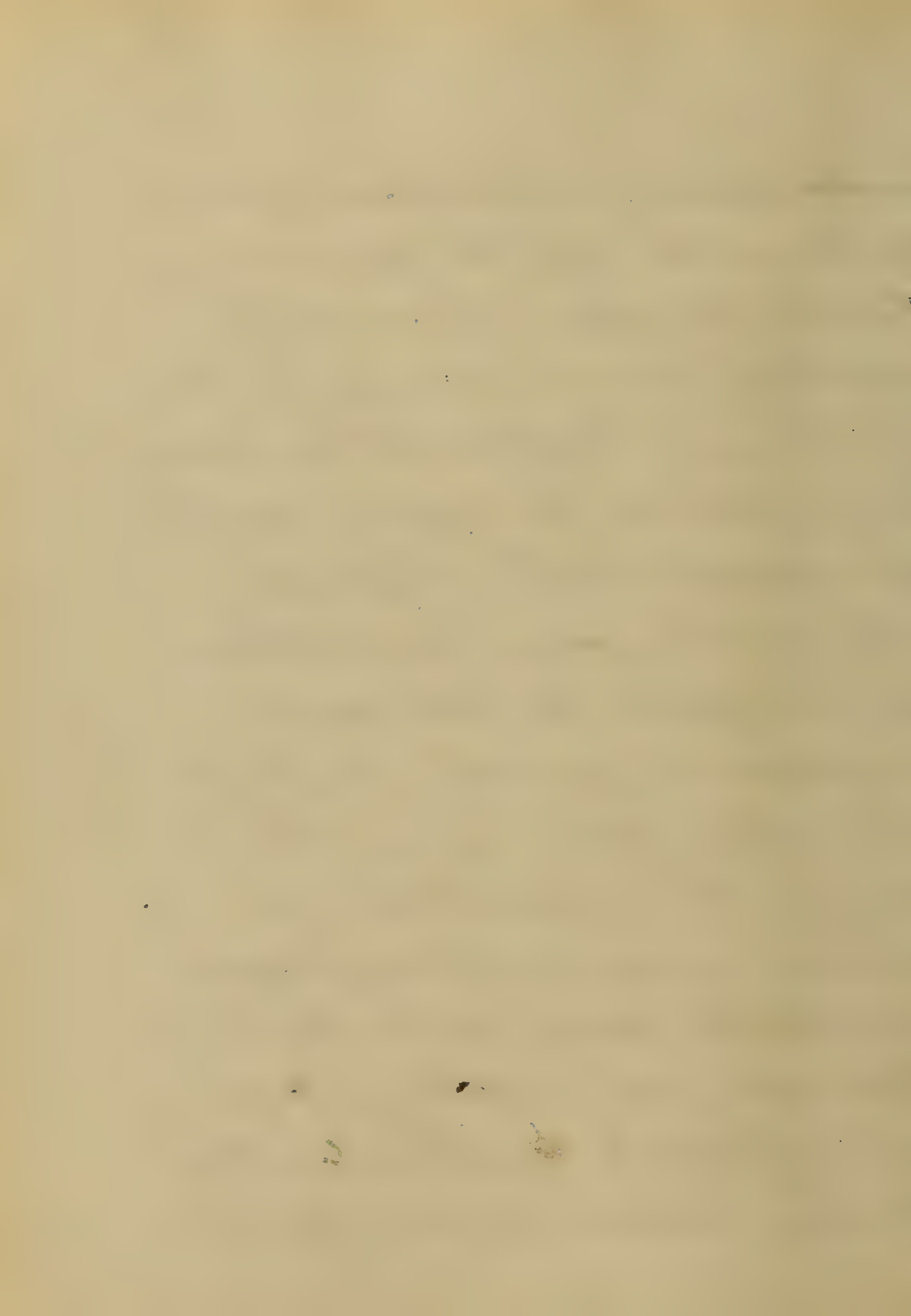
and before scarcely suspected
mode, in producing serious
lesions in the brain. Portions
of the fibrinous deposits or
exudations, as the case may be,
detaching themselves from the
valves or surface of the heart,
appear to be carried with
the current of blood, and are
sometimes of sufficient size to
block up arteries of considerable
magnitude, and thus give
rise, in the parts to which
the obstructed vessel is distributed
to all the consequences of a
defective supply of blood. Softening
of the brain and hemiplegia



have resulted from this cause
Treatment

It is probably more important
in this disease than in pericarditis
to have early recourse to the lancet
and mercury. An important
point in the treatment of
endocarditis is not to consider
your patient safe, so long as
the fallows innumera continue,
and hence the propriety of
continued watchfulness in such
cases. To produce absorption or
resolution of the effused lymph,
and in the mean time to
control the excessive action of
the heart, are the prominent

indications; and these are to be met by the perspiring, but at the same time very cautious use of mercury or the alkalies, and digitalis. These may be continued for many months if requisite with occasional intermissions, care being taken never to push the mercurial influence beyond the slightest observable effect upon the gums. The preparations of iodine may also be employed with the same view. Rest, low diet, and mental quietude are important auxiliaries. But another caution of very great



importance, is that you should not mistake the bellows anæmia of anæmia for that organic aëmic disease; for in anæmia mercury would be injurious and an invigorating instead of a reducing regimen is necessary. It is also important that, in the treatment of chronic endocarditis you should not carry depletion to a point calculated to produce anæmia. Much judgment and prudence are often necessary to enable you to steer a correct course between these difficulties.

1863

An
Inaugural Dissertation
on
Opium,
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
J. J. Griffin.



Opium.

It is not the object of the author of this cursorily written production to attempt to unveil to the medical fraternity, any thing unknown concerning the merits, and demerits of Opium. His aim is chiefly to moderate to some extent what may have already received publicity; together with what personal knowledge he himself possesses relating to all that concerns the drug, worthy of attention.

It would be an unnecessary repetition of much that has already been said of the origin of Opium, were the writer to enter into a detailed account of the sources from whence the subject under consideration has generally

been obtained. Moreover it might prove tedious to parties well acquainted with the concrete juices of the papaver somniferum, were he to attempt an elaborate and minute description of everything that has reference to its uses and abuses.

The writer consequently proposes merely naming some of the sources from whence Opium is obtained and as before observed, intends disclosing part of what little knowledge he himself possesses of the natural properties of Opium when judiciously ~~employed~~ employed, and also has in view the dilating to some extent upon some of its homicidal powers when impropriely made use of.

It is not within the pale of human

to under the medical world, or any portion of it, interested in the history of Opium, capable of affirming at what precise period this important therapeutic agent first received the distinction of a medicine.

It is however declared to have been known, and perhaps used, from the earliest periods of Grecian history. Although, at that early period much less was known of its properties than what is now within the knowledge of the present generation. In a stultic enthusiasm & consequent theoretical fancy of the ancients; much to be cured by subsequent generations; did not so much require the use of the article, and consequently they did not cultivate as extensive and exquisite a knowledge of this important & valuable

part of therapeutics as is indispensably
required of modern generations.

Among the numerous sources from
which opium is obtained, - the following
are most worthy of mention: - Hindoostan,
Anatolia Asia Minor, and Egypt.

But the Turkish, including that
obtained from Smyrna, and that
from Constantinople, and the Egyptian
are varieties much more prized than
the products from any other source.

Hence the article under consideration,
in commonth with many other medical
agents, possessing a number of
varieties, and capable of an equal
contrariety of effects, should be
employed, invariably in their strongest

and purest state; so that they would not give a difficulty in deciding upon a fixed, or uniform dose.

Opium in common with other officinal preparations derived from the vegetable Kingdom, is a concrete substance. The most essential principles in its composition are morphia, narcotina, codeia, thebaine, or paramorphia, papaverina, and opiana.

These are principally alkaline, whereas narcotin, mucosin, and porphyroxin are neutral. Mucous acid and a sui generis odorous principle are also worthy mention.

Quite a variety of less important principles under Opium more conspicuous in its character. Gum, allumen, resin, fixed oil, liquor, caseation are



among the number. The greater the latter
 enter into the composition of Opium,
 the less the quantity of important
 ingredients is to be discovered, and
 vice versa. The more morphia; the better
 the quality of the Opium. This unques-
 tionably explains the reason why
 Opium, derived from certain portions
 of the Globe, is much more to be
 preferred to that, which is obtained
 from different parts of the world.

The hopeful anticipations, attendant
 upon the efforts, to cultivate the opium
 papaver seminiferum, in those sections
 of the world where it is not indigenous are
 but partly if at all realized.

The article consequently is imperfect.



from such oriental parts, from whence
the best varieties can be obtained.

The effects of Opium upon the human
system, like all substances used for
medical purposes, have a primary
and secondary operation, a direct
and an indirect action — both being
diametrically opposite. The contrariety
of these two influences upon the human
frame, is much more marked by Opium,
than by the primary & secondary effects
of a majority of the remaining number
of therapeutic agents. The first or
direct influence, upon the system, is
the one sought after not only where
the therapeutic value of the drug
is desired; but the habitual Opium

take sundry enormous quantities at short intervals, in order to make its indirect influence.

The action of Opium, primarily, upon the Nervous System, as well as, upon most other portions of the body, is, as before intimated, of a stimulant character.

The power it exerts upon this portion of the body, is undeniably greater, than in its action, upon any other, portion or part of the human frame; and much of its influence, upon less important organs, than the cerebrum, is through its action upon the latter.

Opium is justly classed among the cerebral stimulants. It has not the immediate exhilarating effects, which

alcoholic spirits ~~produce~~, but when
 its influence, is once established, it is
 much more prolonged, and evinces a
 much less maniacal character, than
 the former stimulant. Seldom are
 hallucinations, preposterous imaginations
 and ridiculous actions to be observed
 from the effect of Opium upon the
 system. The reverse obtains however of
 ardent spirits. The mental faculties, on
 the other hand, instead of being perverted,
 are raised to their highest point of
 function. Whilst laboring under the
 primary stage of Opium, a strong
 character is developed with bright
 and better ideas. The Orator uses an
 eloquence, with more ease, & of character



far exceeding the result of the similar effects.
 The pleas which the lawyer, when before
 a court of justice, in behalf of an
 unfortunate culprit, do not so ill
 compare with the arguments of a Mansfield,
 a Blackstone, or a Hale. The poet's highest
 fancies & deepest feelings, are equally acted
 upon, in a similar manner. And only
 a Mozart, or Beethoven, or such others
 as approach to a similar degree of
 attainment in music, are superior, in
 having more exalted ideas, in as far as
 the concordance of sounds affects him,
 than the opiate, when he is enjoying
 the primary, or stimulating influence of
 opium. Corresponding to this emotional
 excitation, an increased muscular energy



is cooperative. The ability to bear physical exertion, to undergo deprivations, and particularly to sustain the delirious action of cold, is surprisingly augmented.

Although as before observed, Opium ranks among the category of cerebral stimulants, yet its action upon the system, is, in many respects, different from other substances, placed in the same list, and in some instances quite opposite. The Opium eater is devoid of that erotic feeling; those sensual lusts, which not only are found to a great degree in persons addicted to a great extent, to ~~hopeless~~ drunkenness, but are even found in not a small number of persons, priding themselves



of their exemplary sobriety. His felicity lies at most in his imagination, whilst under the exhilarating influence of Opium, a corresponding extent of misery which is beyond the power of the human intellect to describe, and much more out of reach of remedial measures to overcome, is the result of its sedative action upon the system.

The stomach is the recipient of much of the evils arising from the habitual or prolonged use of Opium. Shortly after the admission of a full or tolerably large dose, this important organ becomes slightly excited but this condition only remains, a short time, to be succeeded by a marked

opposite condition. The want of ability, the impaired condition of the digestive functions, which follows, may possibly be attributable to the power of opium proper in suppressing the secretion.

A diminution in the proper quantity of gastric juice, may perhaps account for the anorexia, and other disorders of the chylific viscera. Its stimulant action upon the nervous centres may also have much to do with its effects upon the stomach. The flow of bile is at first as a general rule suppressed; but the reaction of the remedy upon the hepatic function is in some cases, so great, as to produce a striking

bilious vomiting, and purging.

Constipation is almost a constant attendant upon the use of Opium. The suppression of the functions of the liver to a certain degree, as well as that of the pancreas together with the diminished secretion of mucus, may to some extent, account for this abnormal condition.

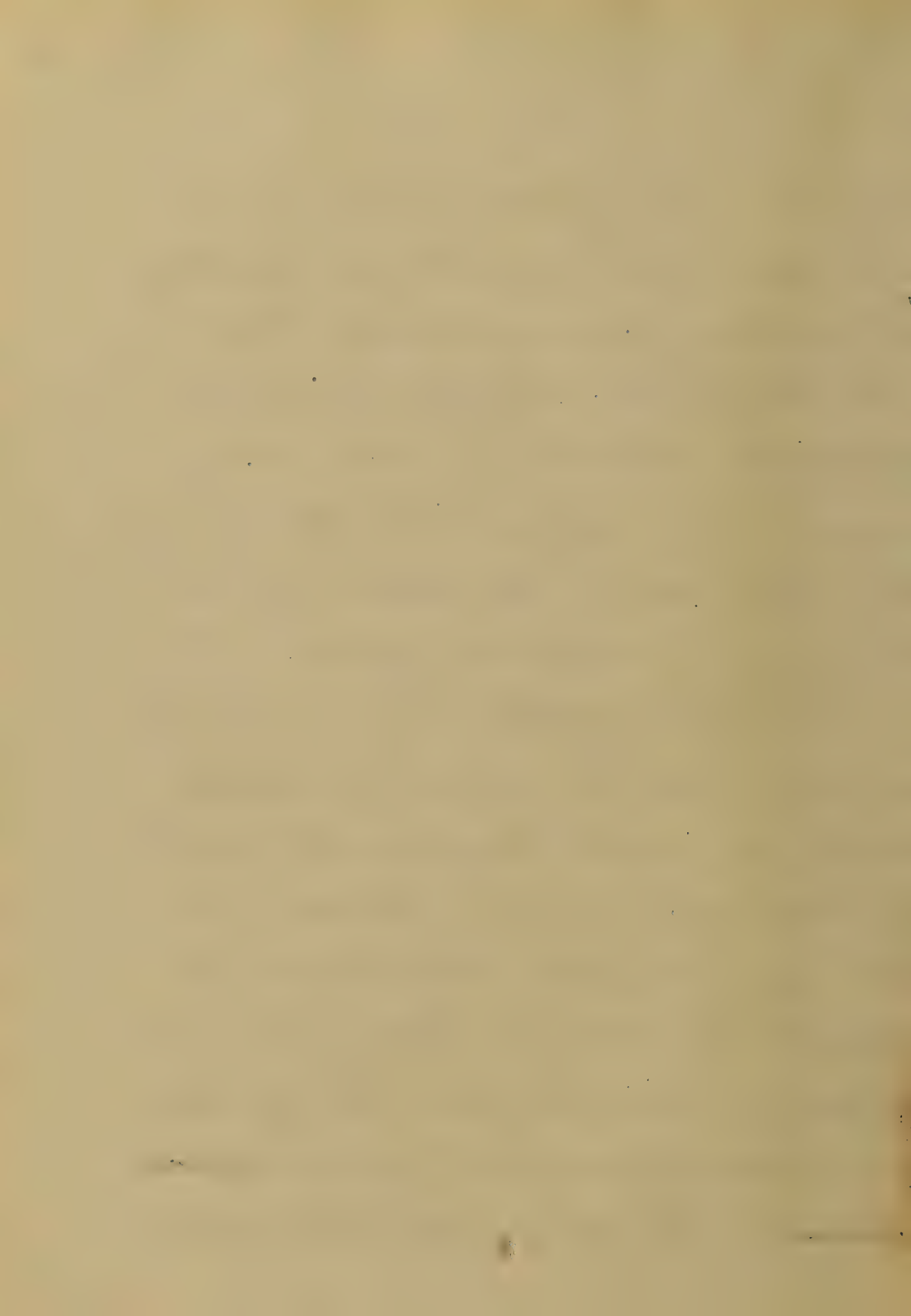
The urinary organs are variously affected. In some individuals it acts as a diaphoretic. But in the majority of instances the normal quantity of urine, is greatly lacking; besides there is not unfrequently a difficulty of micturition accompanying this

renal derangement: Its action upon the skin corresponds with its effects upon the secretory organs. The cutaneous surface under its direct influence, becomes dry & seldom is perspiration to be observed in persons under the stimulating operation of Opium.

The mouth, nostrils and fauces participate in this want of moisture, and even the lachrymal secretion is diminished. Profuse sweating, however, is a constant attendant upon any attempt that an inveterate Opium eater makes to relinquish the habit, no matter how low the temperature of the atmosphere may be.

An immediate effect of Opium upon the skin worthy of notice, is the itching it produces upon any, or all parts of the body. This distressing symptom, attendant upon its exhilarating action, is, very annoying, and in many cases actually prevents the patient from enjoying his nocturnal repose.

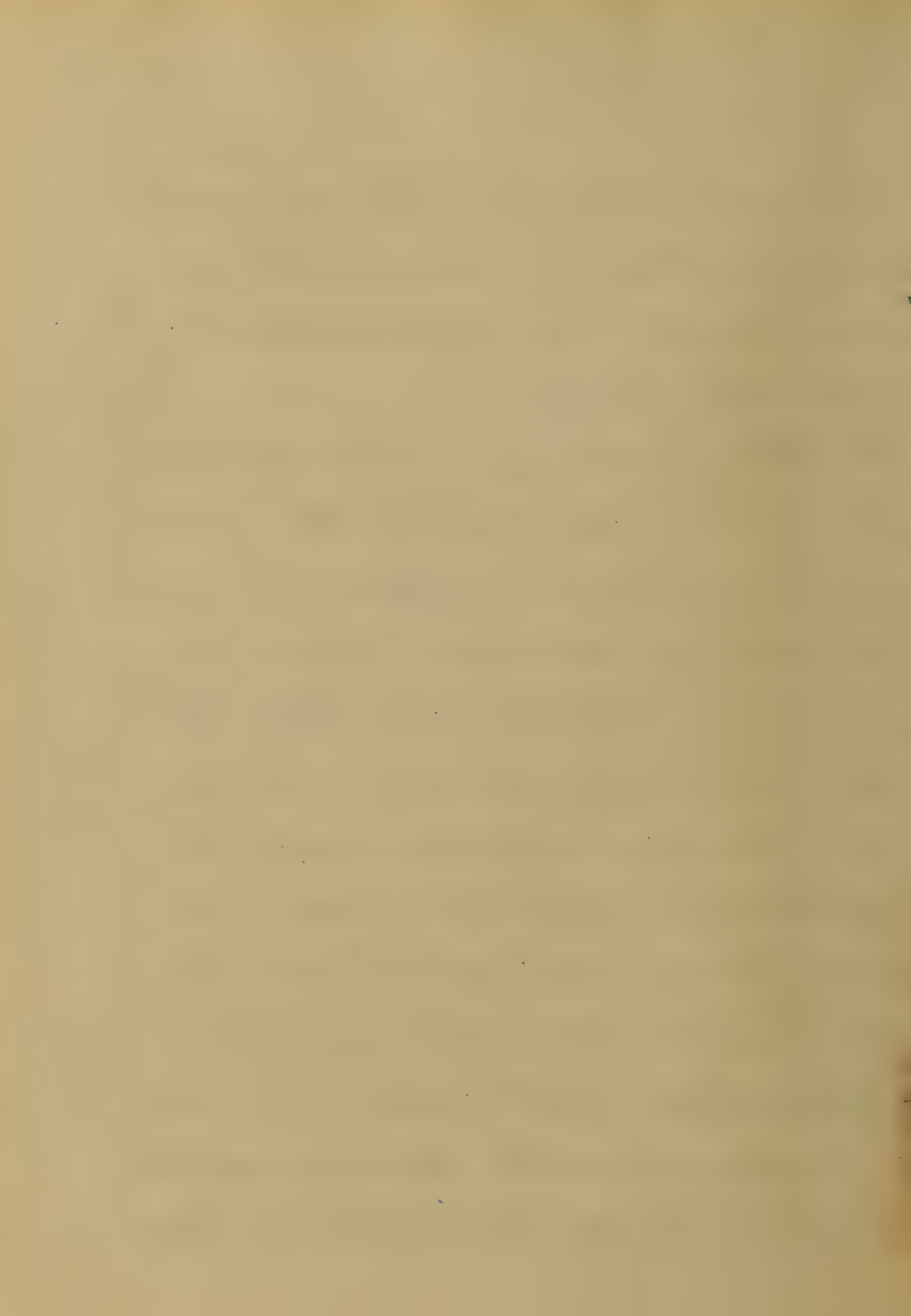
A miliaris erythematosa, or urticaria eruption, has been observed by some writers, by which they account for the cutaneous distress before observed. But the insupportable irritation of the dermal structure, is seldom productive of any eruption, so far as the experience and observation of the writer extends; and if the alledged cutaneous affections,



actually exist, during the use, or abuse of Opium, their presence might more properly be attributable to some other cause.

The therapeutic applications of Opium are extremely various, and the extent of its employment exceeds that of the majority of medicines. There are few diseases to which human flesh is heir, but what present indications for its administration, and few pathological affections exist but what Opium is the chief if not the sole agent called into requisition.

By virtue of its direct stimulant influence upon the cerebral centres it is specially indicated in diseases



having a typhoid character. The depressed state of the brain, indicated by stupor, delirium, low mutterings and flexion, is not a contra-indication; such a pathological state is owing to debility of the nervous centres and being a cerebral stimulant, Opium would not be improperly called for.

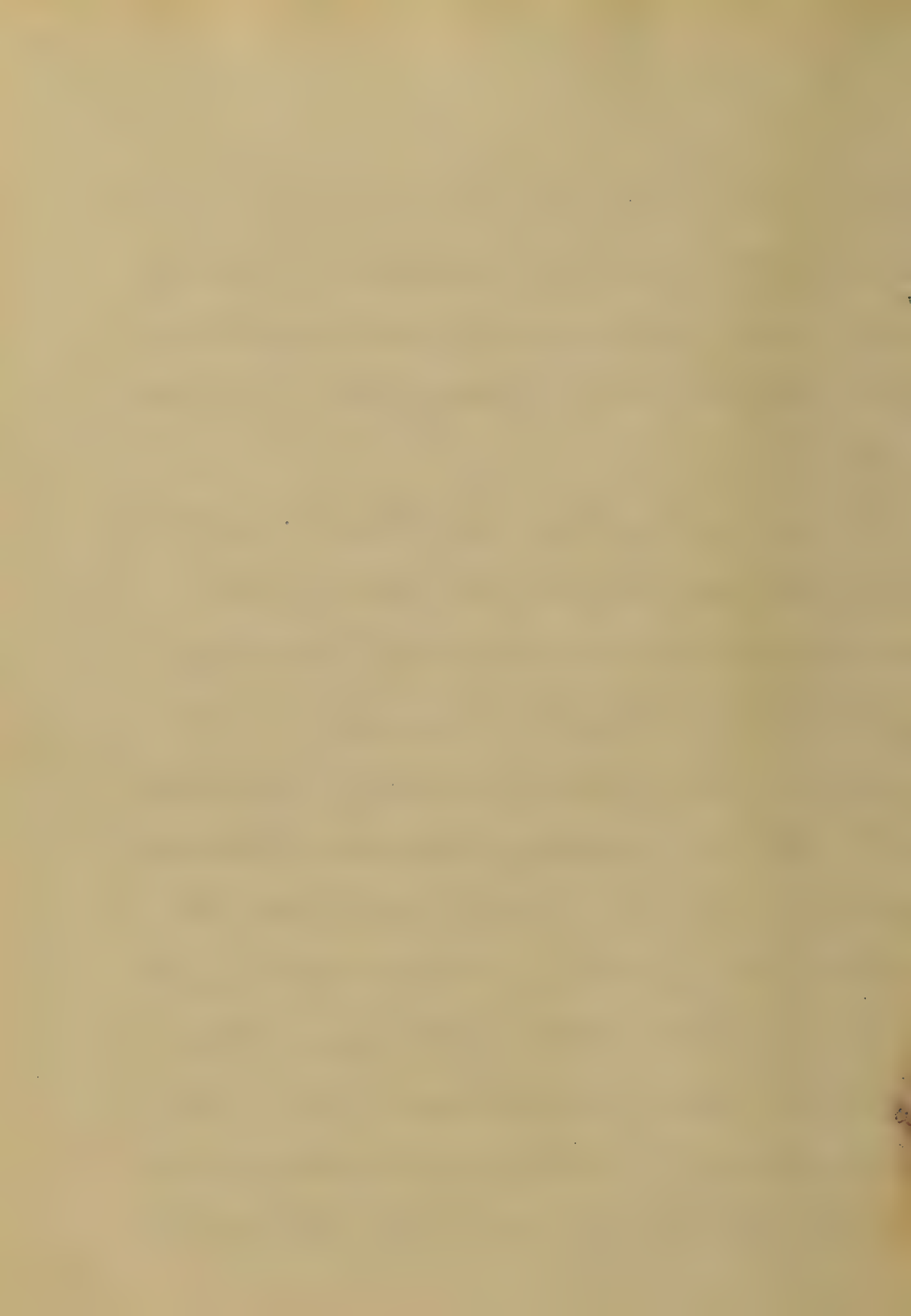
The value of this medical agent, is still more appreciated in fevers, when we take into consideration its power in suppressing those morbid, and debilitating discharges attendant upon a typhoid state.

In insanity, Opium is frequently brought into requisition, and in delirium tremens it is absolutely indispensable. In typhus it is almost invariably employed. But in the last three named diseases, the quantities



given must be enormous, and frequently repeated. and in the majority of instances the amount given must be alarmingly great, and then, often produces but a temporary and moderate influence.

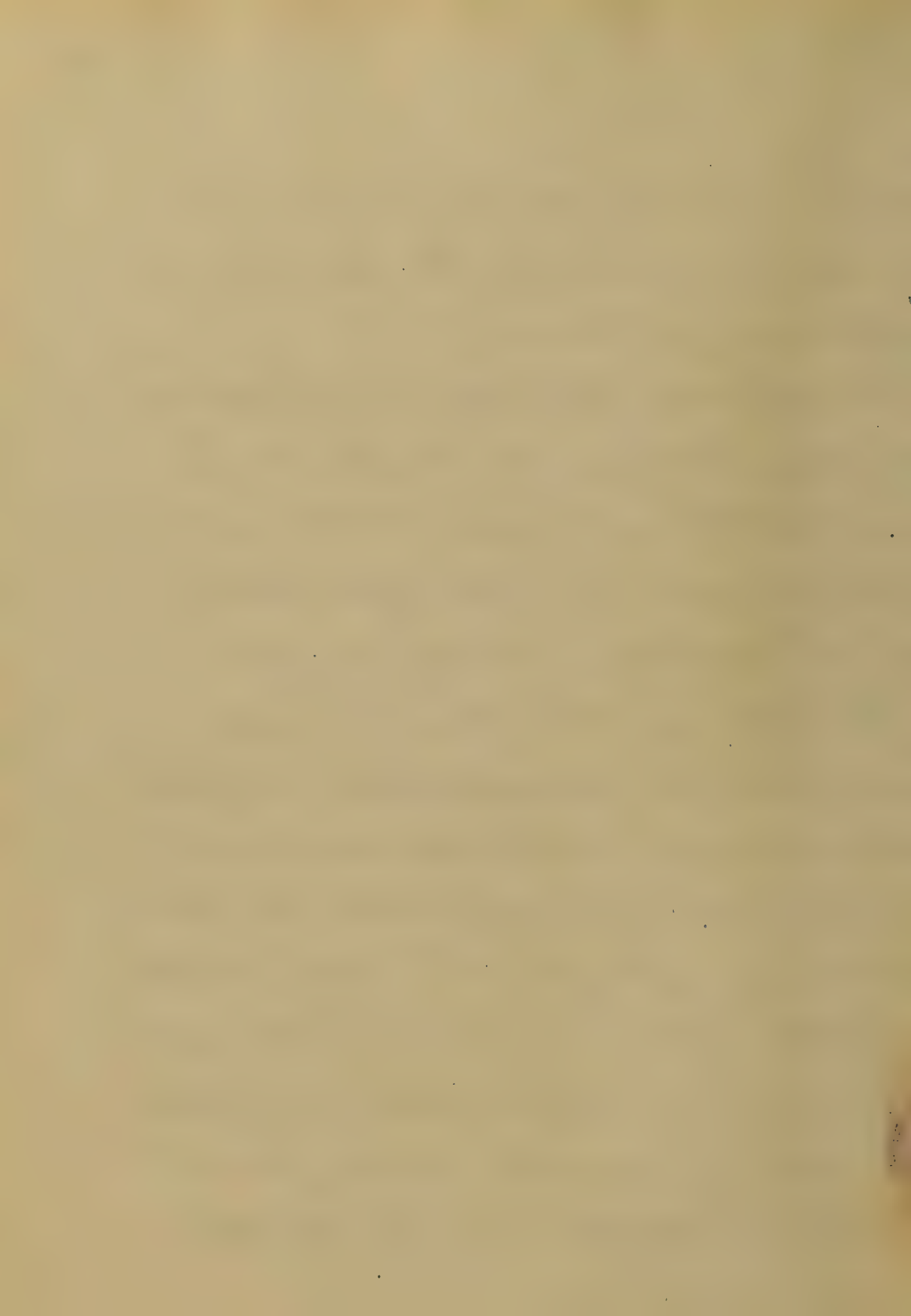
The anodyne power of Opium, ranks among the most important part of its action. Indeed, as a palliative in neuralgic affections it cannot be surpassed, and stands first upon the category. In gastralgia it is the first remedy prescribed. Spasmodic cholera, as well as pain of all kinds to which the digestive organs are subject yields readily to the action of Opium. The intense pain attendant upon the passage of a tertiary calculus, as well as the pain consequent upon the passing



of a similar product through the rectum,
is readily overcome, by the anodyne
influence of Opium.

Its surprising efficacy in suppressing
morbid discharges, renders Opium of
vast utility, in diseases which are
characterized by a deranged state
of the excretory, or secretory organs.

Its control over these functions is so
great that its administration is often
attended with deleterious results. In
such forms of symptomatic diarrhoea
which are often favorable to the ultimate
affection Opium would be contra indicated.
Many other forms of disease accompanied
by injurious excretions would forbid
its administration on account of the



danger attendant upon the retention
of the morbid matter, which nature,
unassisted, would herself expel.

Opium is frequently used in conjunction
with other remedies. It is often given
in combination with ipecacuanha, calomel,
camphor, and also with a number of
other important medicaments. The

object is mainly to prevent the native
expulsion of morbid matter from the system.

A preparation with soap, possesses
the advantage, that, Opium may be
administered without a knowledge
of the patient; when through
prejudice he would object to the
remedy. So numerous are the pathological
phenomena, to which Opium is applied,

that the writer lacks space to enumerate all the uses of the drug.

Occasionally, through a misunderstanding of the physician's directions, or with a view to suicide, Opium has been taken in such enormous quantities as to speedily prove fatal. Under an excessive quantity of Opium, stupor is at once produced which is followed by a heavy sleep, succeeded, if not interfered with, by stupor. The respiration is slow and stertorous; in this stage there is little that differs from moribund sleep; but as the increased action of Opium supervenes, there appears more dangerous, and alarming phenomena. An inability to rouse the individual,

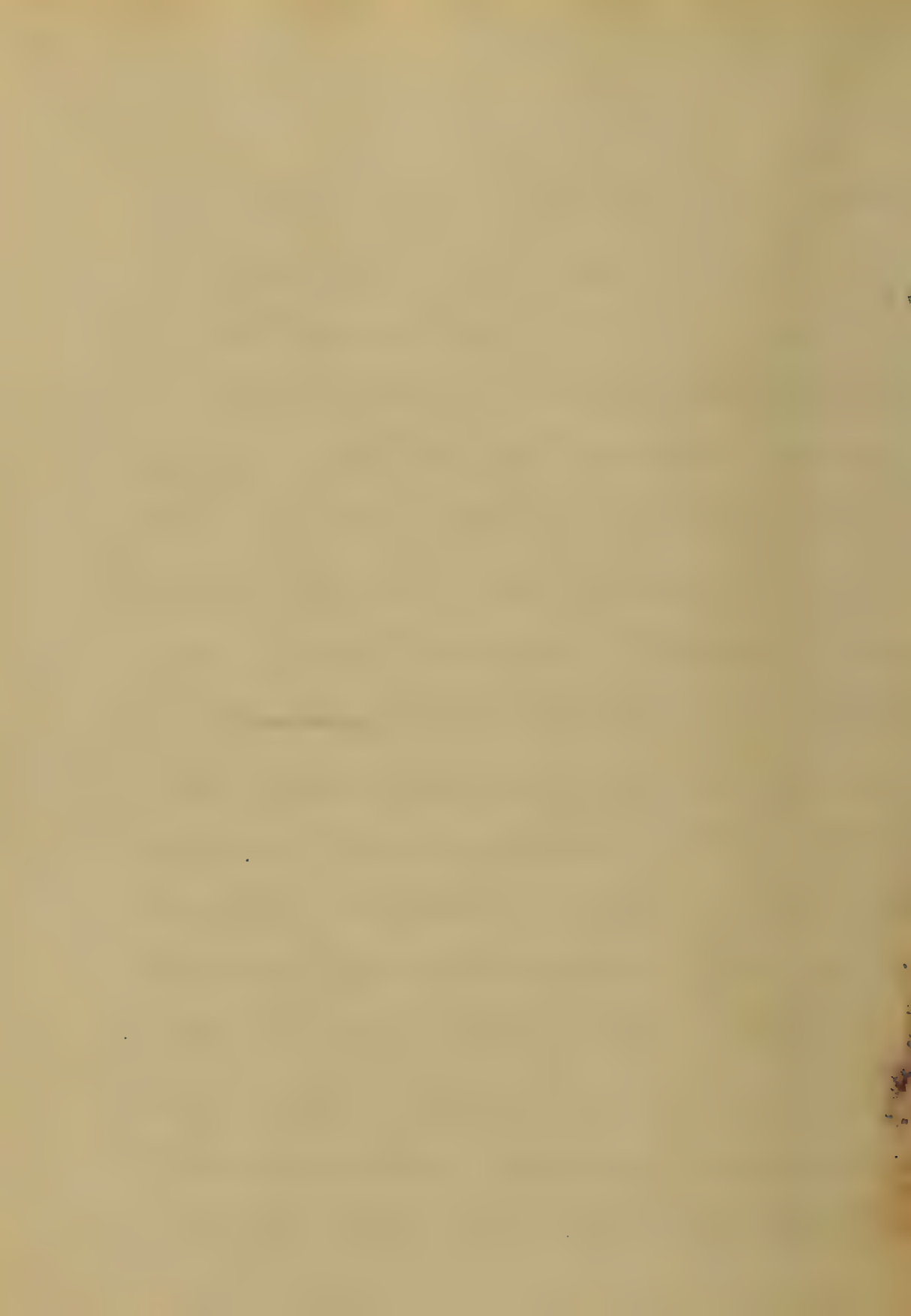
a purpleish hue of the countenance, and a want of expiratory crises; and if active measures, are not immediately employed, death is inevitable. The latter is preceded by a more profound coma, a palid countenance and a marked relaxation of the skin — the breathing becomes so slow, that it appears at times to be permanently suspended, and efforts must be constantly made to arouse the unhappy being, in order to raise the flagging state of the lungs. But in this late stage few recoveries are accomplished. The victim sinks into a deep coma, and when the most powerful means are employed

to rouse him; seldom, or more than a vague, idiotic stare, and a slight degree of uneasiness the result, after which he relapses into a comatose state, attended by great prostration, cold clammy sweat total relaxation of the body, fetid mucus exuding from the mouth, and final dissolution.

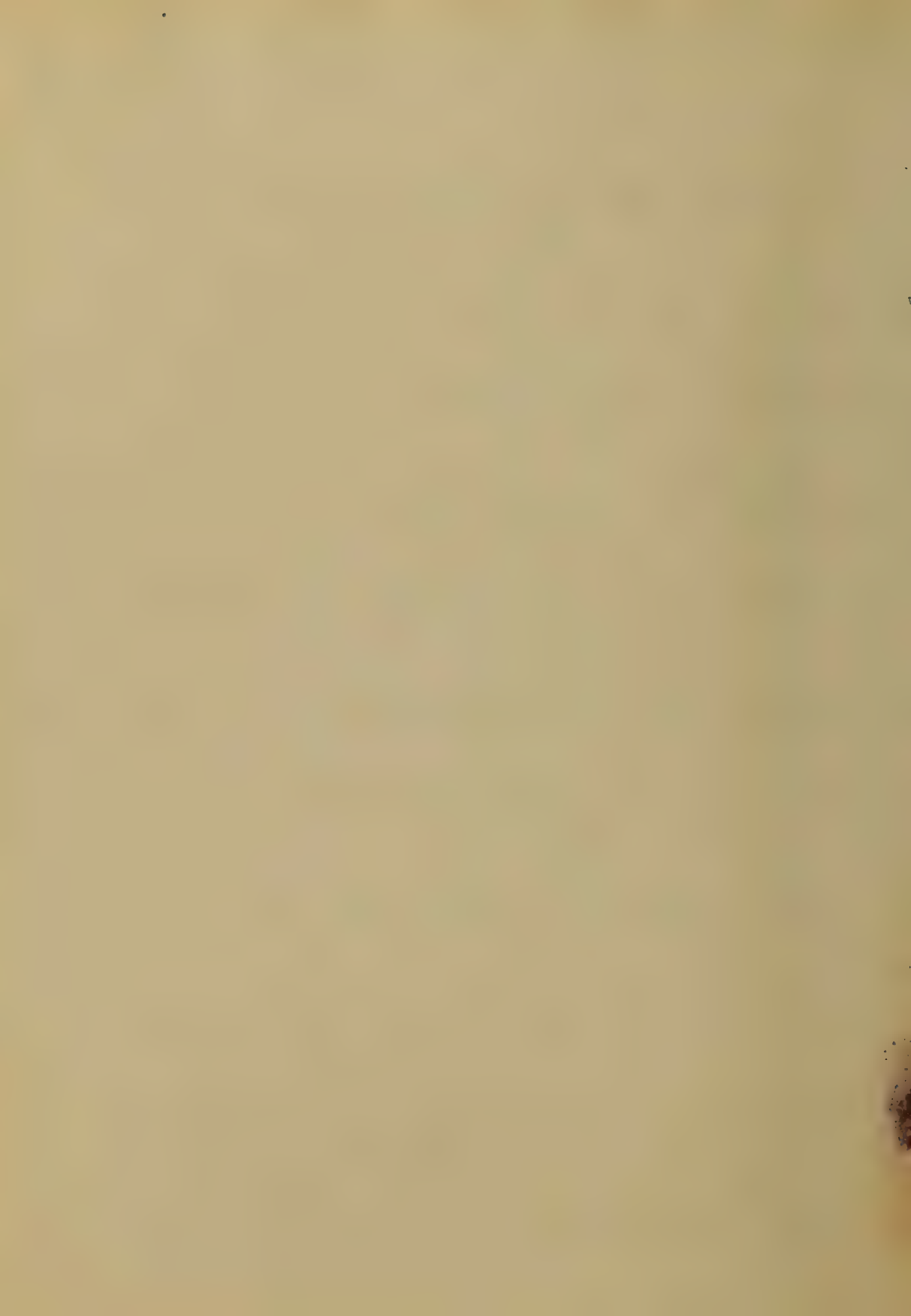
The post-mortem appearances consist in congestion and serous effusion of the brain - pulmonary congestion, and a liquid state of the blood. No organic lesions are discoverable.

The fluid preparations act more speedily than does solid opium; but their topical effects are much easier counteracted, than those of the

crude preparation. Emetics, in poisoning
 by Laudanum, act with more certainty.
 The use of the stomach pump can be
 more advantageously made use of,
~~whereas~~ poisoning by Opium in massé,
 requires powerful doses of the most
 energetic emetics. Besides the employ-
 ment of the stomach pump can
 seldom be relied on; the quantities
 swallowed, if sufficiently large to
 destroy life are seldom small enough
 to enter the tube. Tartar emetic is one
 of the chief remedies used to evacuate
 the stomach; but its prostrating effects
 render the use of sulphate of zinc and
 ipecacuanha preferable. The means to
 antidote the evil effects of an emetic

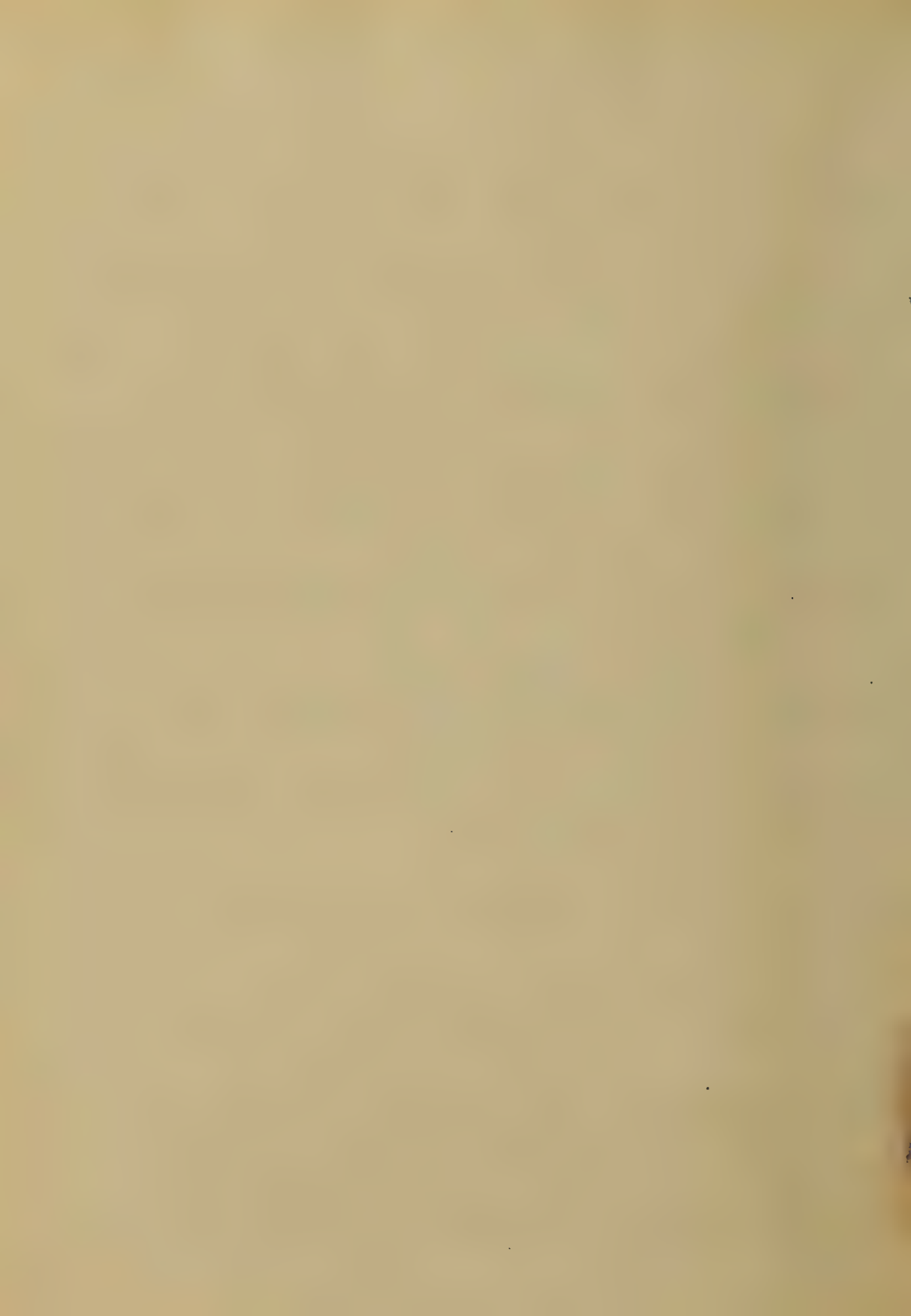


quantity of Opium, taken at one time, consist first in the producing of emesis. After the poison is completely expelled, attention must be paid to the indirect effects. An alarming degree of prostration is frequently the result of the latter, which requires the employment of stimulants. To qualify the ^{with} effects of Opium coffee, vinegar and belladonna have been called into requisition. But before the poison is completely expelled from the stomach, much fluid should not be swallowed, as it would hasten absorption of the poison. The antiseptic powers of vinegar in the topical effects of Opium, cannot be relied on to a great



extent. Indeed it is the opinion of some practitioners, that it even approximates the most alarming symptoms of Opium poisoning. Belladonna is often employed with admirable success. Caution must however be observed in its administration; the quantity given, and the precise period of its exhibition, must be carefully taken into consideration.

Purgatives & galvanism are among the numerous other means employed, to counteract the intermixture action of Opium. They have doubtless been frequently used with good success, but, have as often failed in themselves to restore the sinking

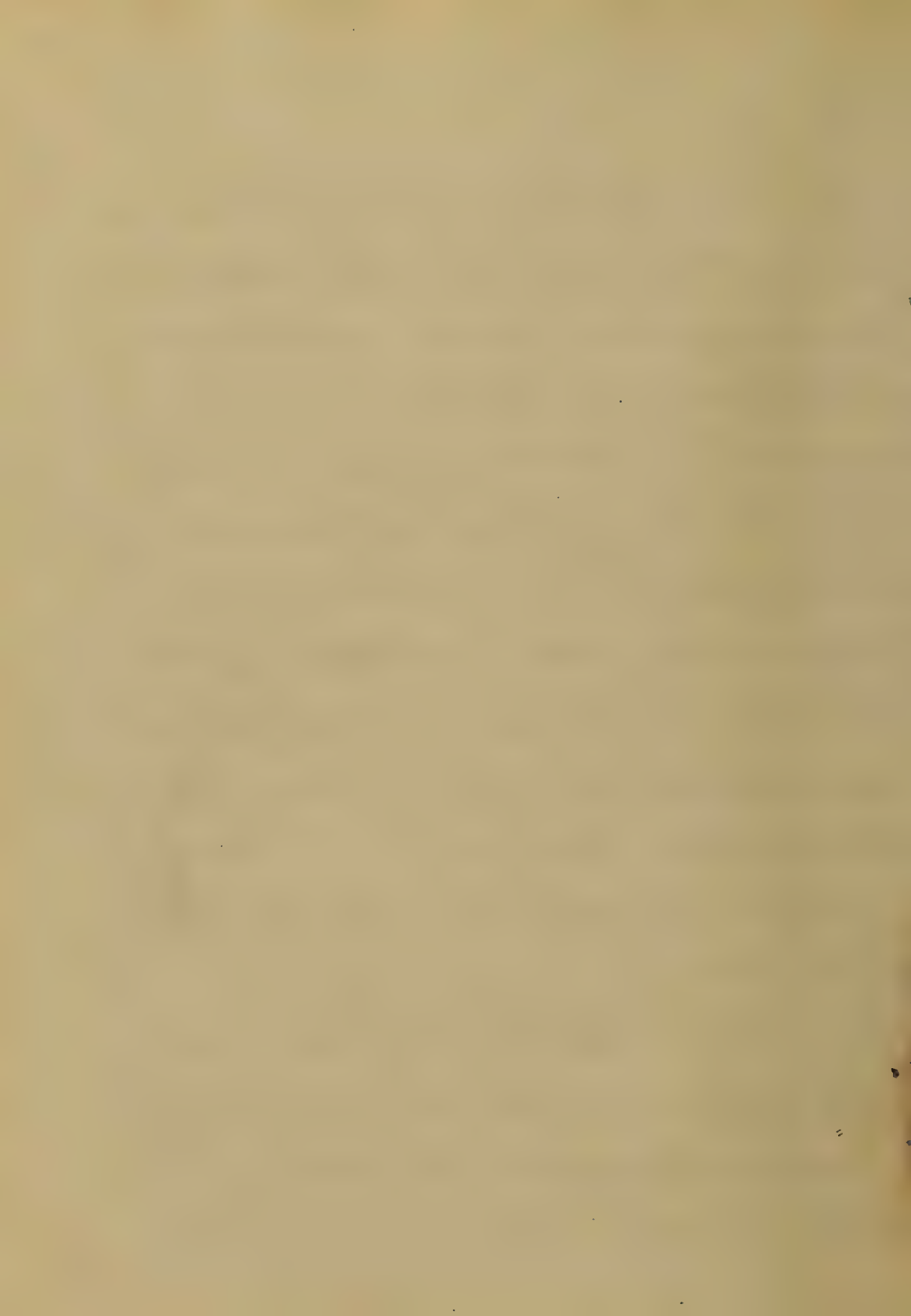


energies, and raise the depressed state of the system to its normal degree of vitality. It has been affirmed & perhaps very truly that there is no antidote to Opium which can confidently be relied upon, and frequently all the resources within the grasp of the physician not only fail to restore life, but even refuse to prove palliative in their action.

Although much can be said of the value of Opium as a therapeutic agent, in addition to what has already been mentioned, yet on the other hand almost as much evil can be produced from its habitual use, as can be said

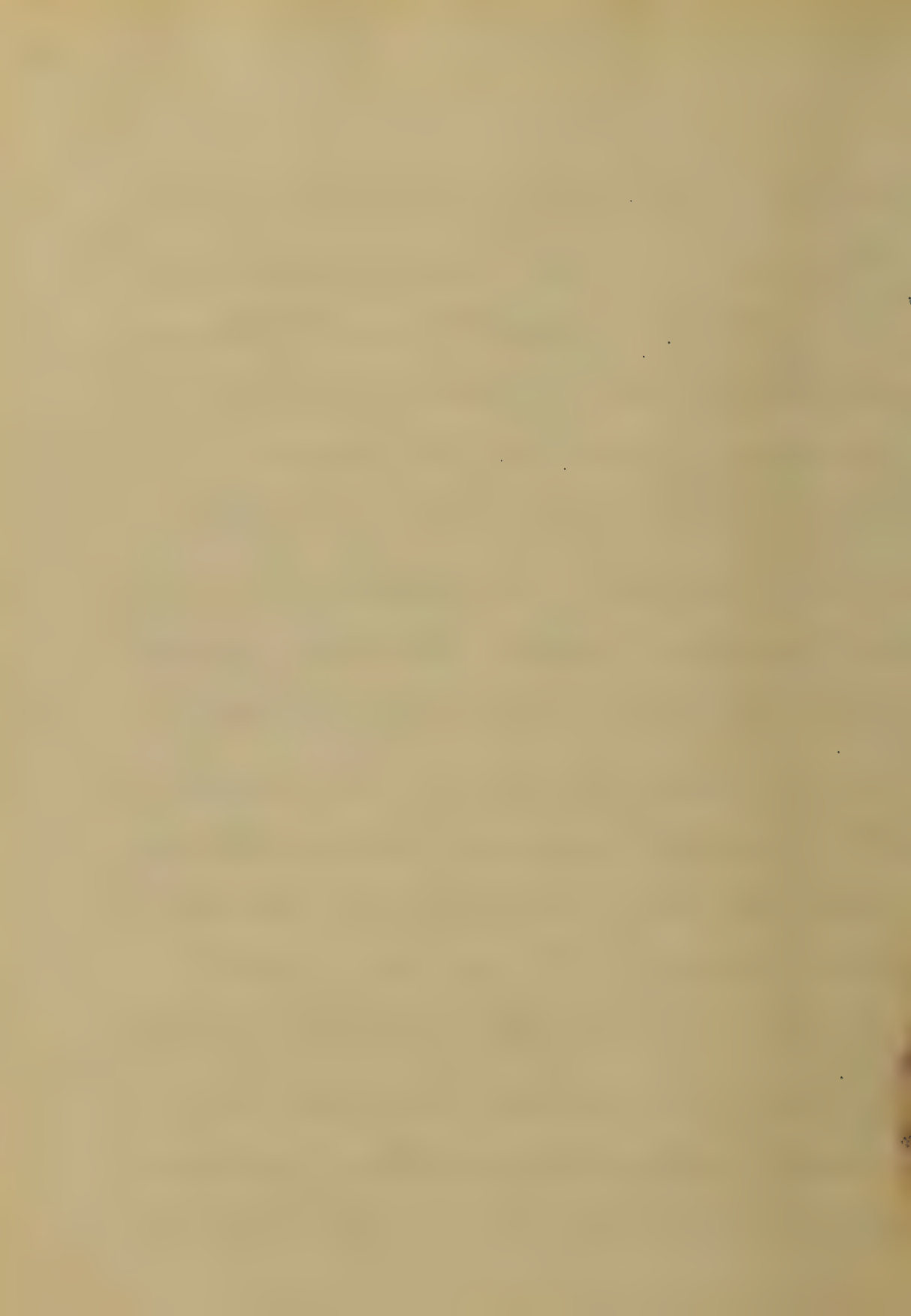
in its favor. Opium eating or the continued habit of taking any of its preparations, principally arise from an insatiable want of its stimulating qualities; or it is incessantly resorted to in order to delay pain. Diseases of a nervous character most frequently produce the vice of Opium eating to an insupportable extent, particularly when such affections have assumed a chronic form - even after those disorders to which the vice is insupportable have ceased to exist the habit ^{frequently} persisted in.

But the exhilarating, or stimulating action of Opium, as its abuse is prolonged, becomes less powerful & its duration shorter. The reverse obtains however of its



seditive, or debasing tendency. Hence the quantities taken must necessarily be progressively augmented, and taken at shorter intervals to produce not only its primary effects, but to prevent its secondary influence — consequently in many instances an enormous quantity, sufficient to destroy the lives of several men, must be taken at one time in order to raise the sinking energies to their normal degree of stimulation.

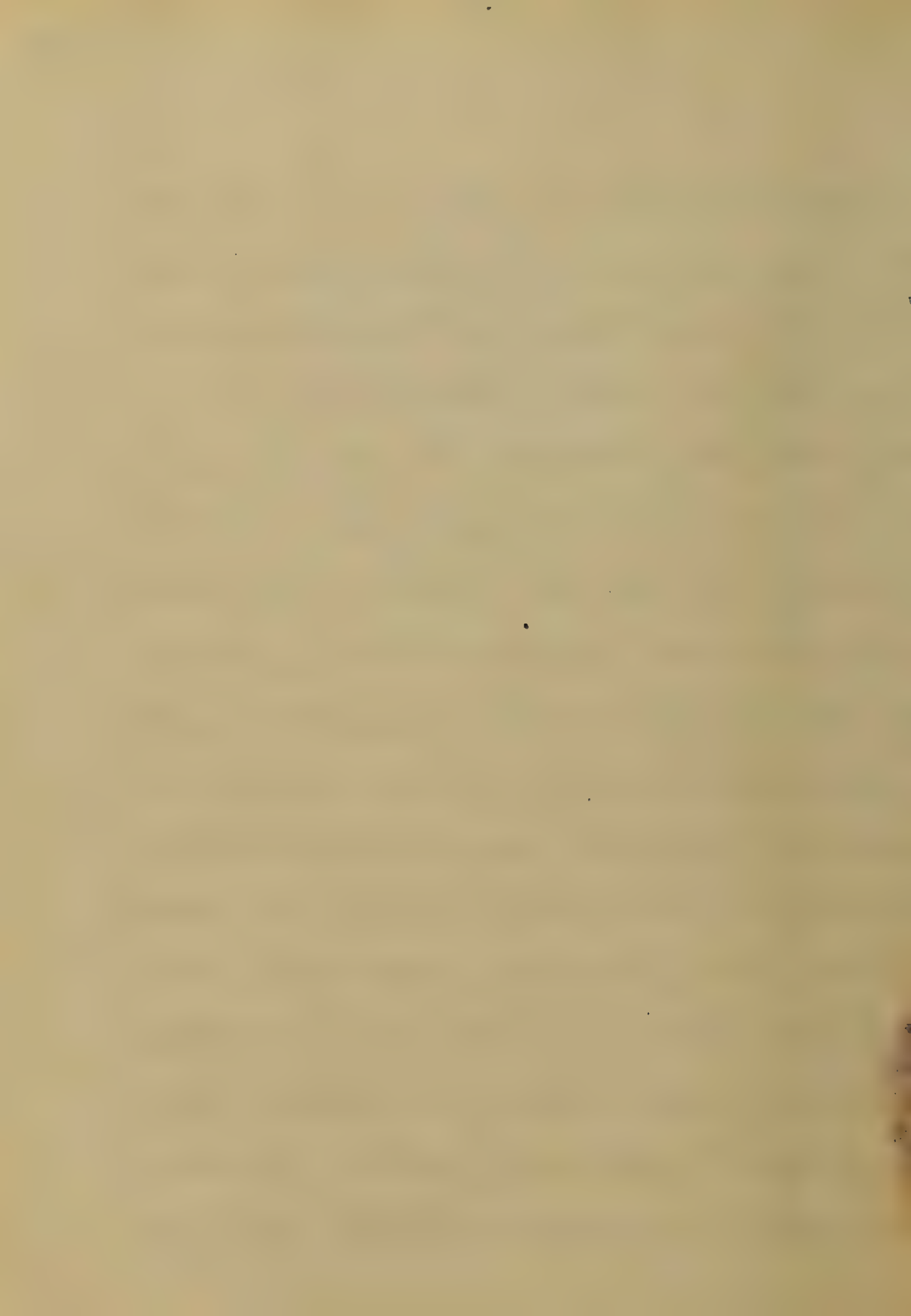
But the evil, at last, succumbs to the interminable effects of this lawful habit: The unhappy invalid becomes attenuated in flesh. He, moreover, presents a withered yellow countenance. His sunken eyes bear a



languid, lined expression. A wound of the solids;
 an impaired condition of the gastric and
 hepatic functions; together with obstinate
 constipation, add to the inexpressible

anguish, the inveterate Opio-phagi experience.

Nor are physical sufferings alone the
 penalty of this baneful evil. The mental
 functions are equally the recipients
 of the derangement consequent upon the
 protracted abuse of Opium. Ennui, or
 mental hebetude, weakness of intellect
 causing an indisposition to perform mental
 labor, loss of memory; and when the
 baneful evil approaches its last stage
 of action, total imbecility, complete loss of
 self respect, defiance of public opinion,
 and, not un frequently, a pitiable state of



dementia precedes final & inevitable dissolution.

In addition to the innumerable bodily infirmities, consequent upon a prolonged habit of using Opium the unfortunate wretched man, suffers also from the censure, contempt, and scorn of a cold unsympathising world.

As the hopeless, insatiate, the inveterate Laudium drinker, as well as individuals visited by similar misfortunes, have doubtless remarked a persecuting disposition, existing, throughout all animated Nature.

"There is a feeling in nature, Sir Walter Scott observes, effecting the instinct of dumb animals. The very deer will butt a sick or wounded buck from the herd.



Hurt a dog, and the whole kennel
will fall on him and worry him.

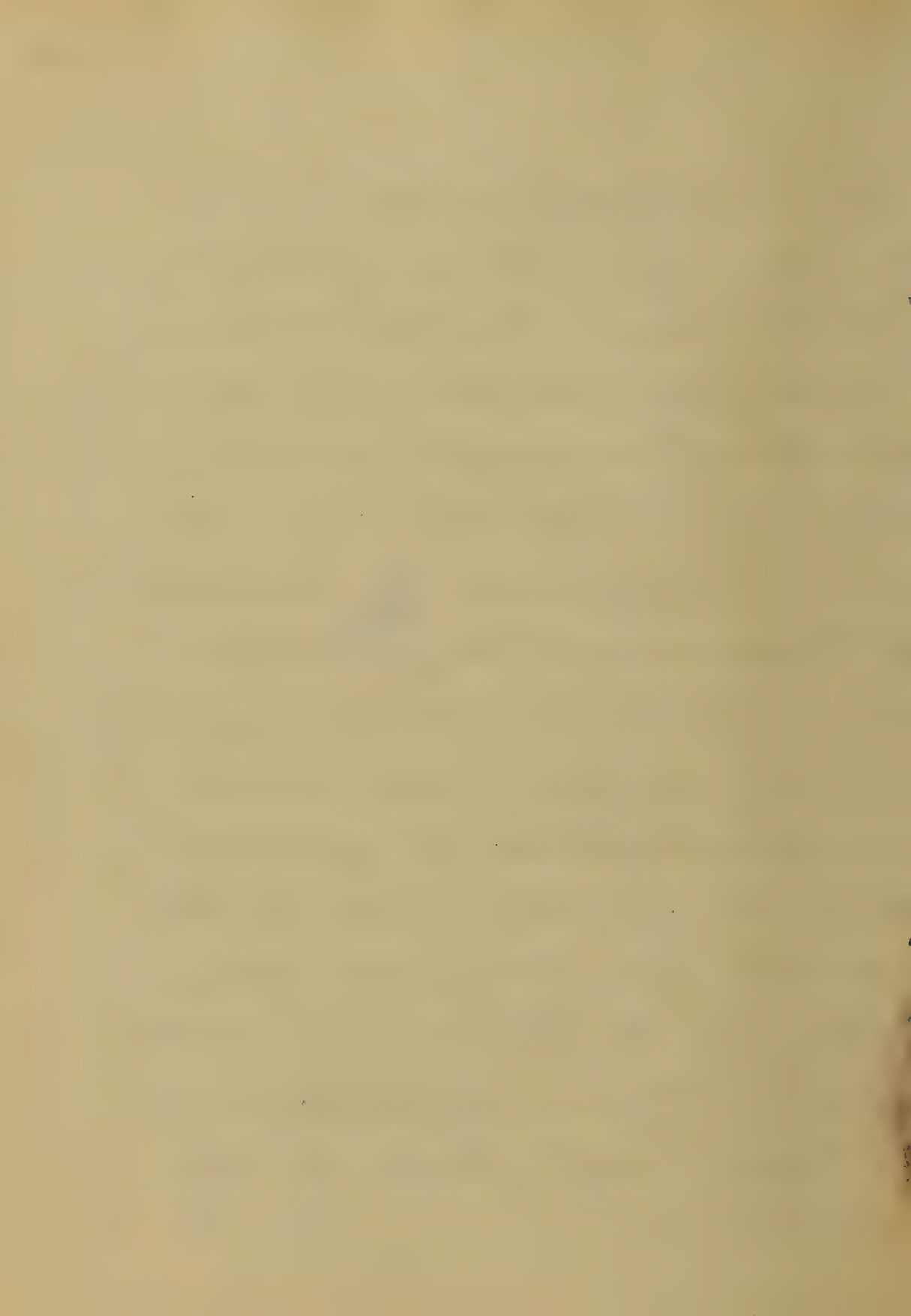
Fishes devour their own kind when
they are wounded with a spear; cut
a crows wing, or break its leg, the others
will buffet it to death."

When this suicidal practice has become
confirmed, it is almost impossible to
break it off. When essaying to abandon the
vice, the torments, of the inveterate Opium-
eater, far exceed the small amount of
pleasure, he usually derives from the
stimulant action of his accustomed
dose; and all the untold misery following
any effort to abjure Opium is not only
greater, than he at first anticipated; but
is much more prolonged in its duration.



His extreme suffering, together with his ardent desire for returned health often calls to his mind the truth of the adage: "Non est vivere, sed vivere, vita." But after his self command, his ambition, and his fortitude, which have been materially weakened by the action of Opium, are apt to fail before the vice can be completely conquered.

In vain he resorts to remedial measures. Inutile are his efforts to relinquish the evil, by pursuing the recorded experience of older Opium-eaters, and the salutiferous and celestial effects of Opium, as related by Thomas de Quincy only prove to him the fact:



"That those eat now who never ate before;
And those who always ate now eat them no
Under such circumstances the
unfortunate invalid, in the majority
of instances, relapses into his former
vice, and persists in the evil
throughout a long course, of incredible
suffering, until death comes to his
relief.

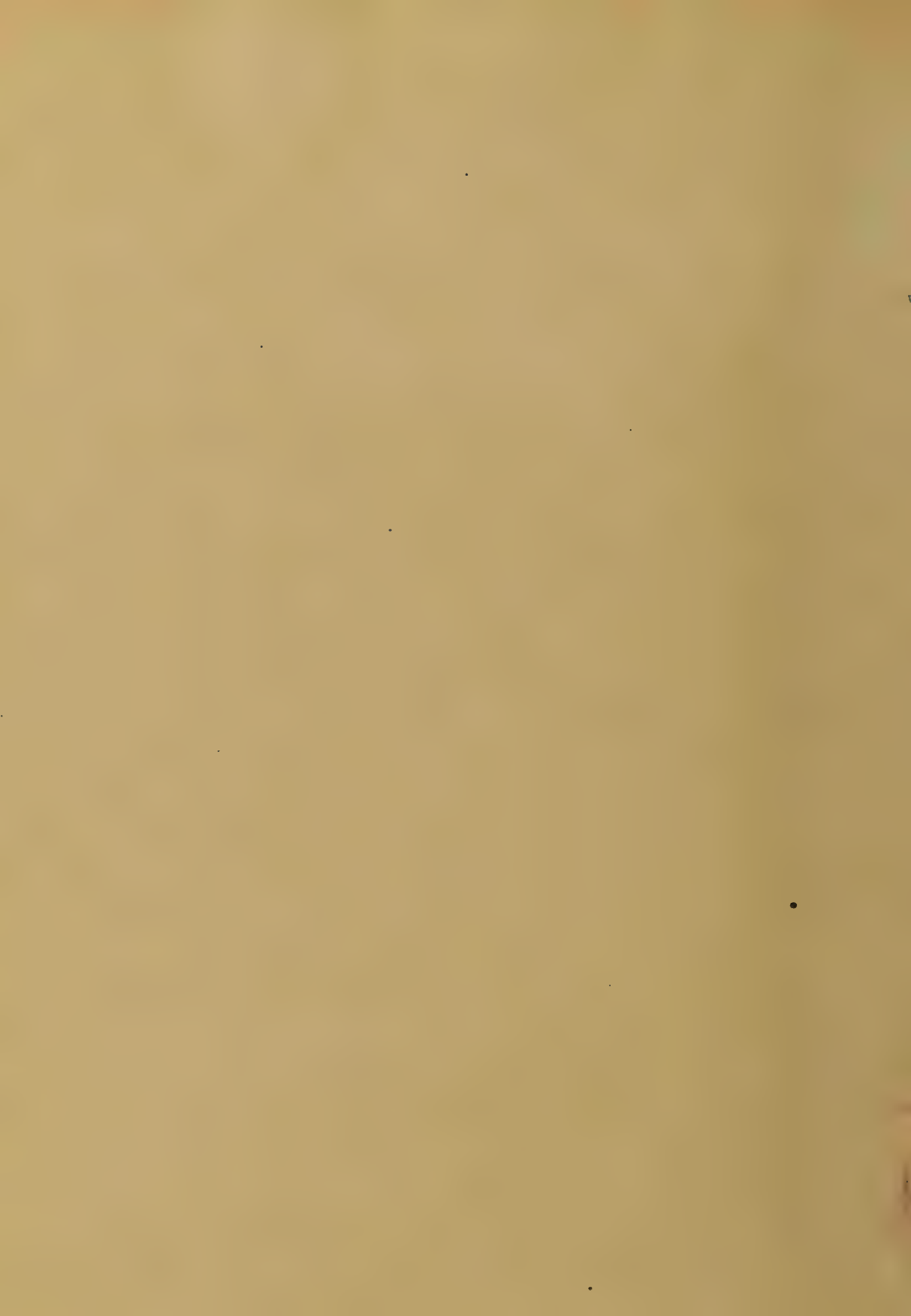


11-17-18
Dissertation
Submitted
to the Examination of the
Faculty of the
University of Maryland
for the
Degree of Doctor of Medicine.

Thos. M. M.
M.D.



Striving and to see
 the left side of the
 abdomen is variously described
 as a weight, pressure &
 Striving, dull or burning
 being the most common
 was to mention in
 addition that death must
 be attributed to the cause
 given. The temperature
 at 9 o'clock is 100.5 and
 pulse is not depressed
 for the breathing is still
 and free.
 The signs of all of any
 disease are absent.
 There has been no
 New signs of pain and
 there is no account of
 it, his body is covered
 with a cold sweat and
 to me a sign of the
 disease, as well as



returning some to the
 authorities, however this
 latter proposition about the
 books may be easily left
 to some and accomplished
 in the end.

The price of the book I found
 to vary considerably in differ-
 ent cases. I have bought
 it once or twice in London
 for 5s. Sometimes 3s. 6d.
 I have seen it in some
 not an unbecoming accom-
 paniment of a paper.
 In many of the best
 and I suspect the
 sensation is totally wanting
 The same may be seen
 being to published statistics
 to be much more scarce
 the other way, it may be
 as though the best
 of the country were

has a cold in
All classes of persons are
liable to this disease by
it attacks some at a
young age than others
But more often it occurs
Plague is not so apt
to attack the young as
the old and infirm, and
more to the latter than
the rich in preference to
the poor.

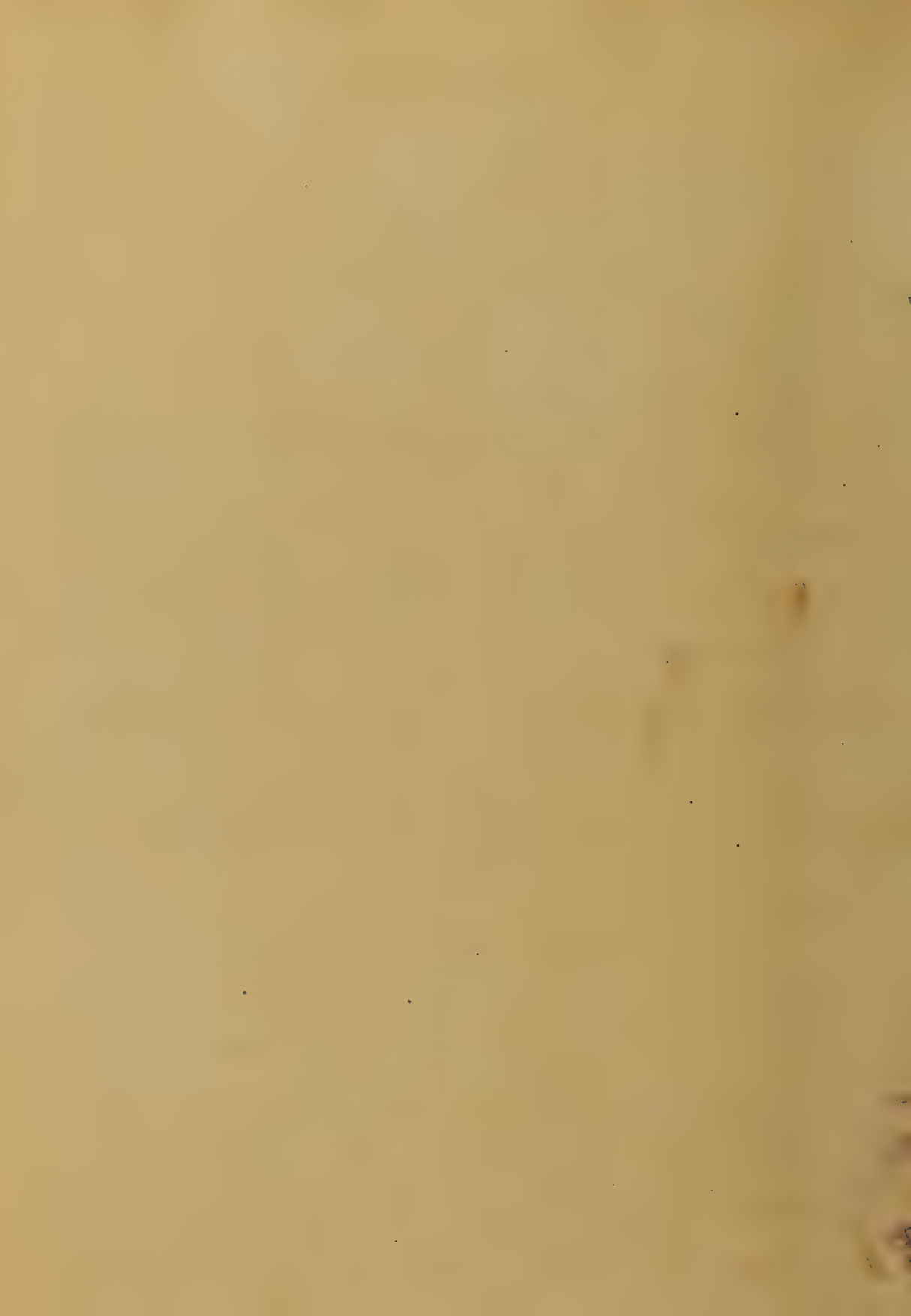
The causes of this inflammation
are heat, wet, cold and
distemper, but may be
in general traced to
such as tend to increase
the flow of blood, or
to obstruct the
habitual motion of
the fluids, the present
may, walking on hills, or
the weight of the body.

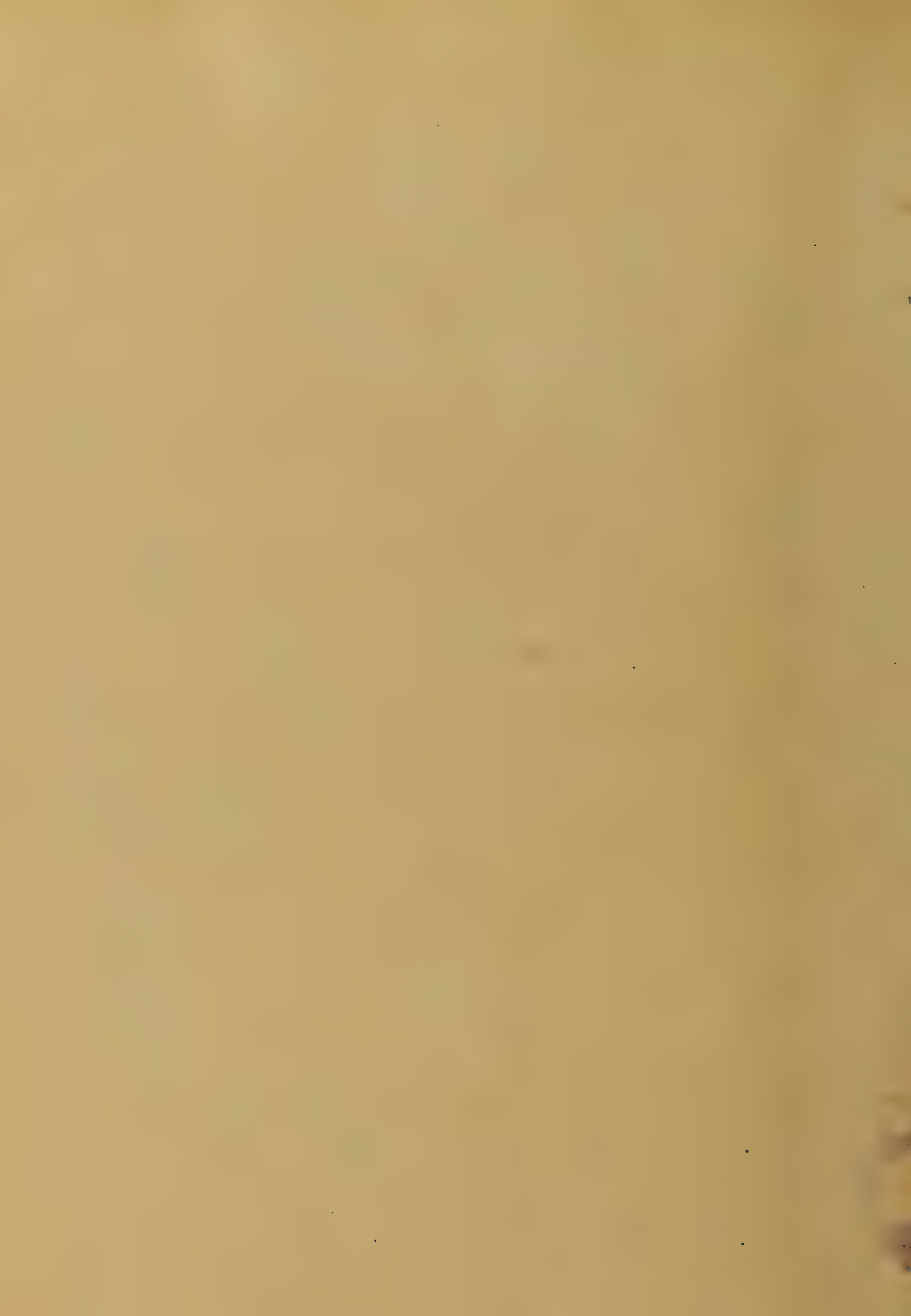


walking, and in some cases,
 sitting in bed, and
 when returning to
 bed they may be affi-
 cted with these distressing
 spasms. The cause is
 never when we can ascribe
 to palpable cause; for
 instance a person who
 frequently when a stroke
 may be attacked, or
 after travelling at a
 night great, in such
 cases we can but say
 the extreme susceptibility
 is the cause. Since patients
 always after the paroxysm
 to the point of the weight
 in some cases, and in
 the sudden termination
 of a paroxysm, and
 in the case of the crisis
 in children & in the

heart being capable of
such a result as was
seen in the case of the
to that organ. It is
consequently the last health
from the condition of the
heart during life, ascertained
by the use of the stetho-
scope, and also by the inspection
of that organ after the
fatal termination. In
a majority of these cases
there has been found
great structural disease
in the heart, in many
of the most delicate cases of
the disease though they
were present and appeared
by healthy appearance we
must not ever lose sight
of all the important points in the
size of the cavity and
position of the heart in







11
rather I come first to be
pounded out the close re-
lation existing between
Anemia and Acute Leucemia
then to undertake a
treatise. The first of these
issues wishes our attention
to a new and interesting
Subject. But for us it is
difficult to see the value of
it. It is a new and interesting
subject. But for us it is
difficult to see the value of
it. It is a new and interesting
subject. But for us it is
difficult to see the value of
it.

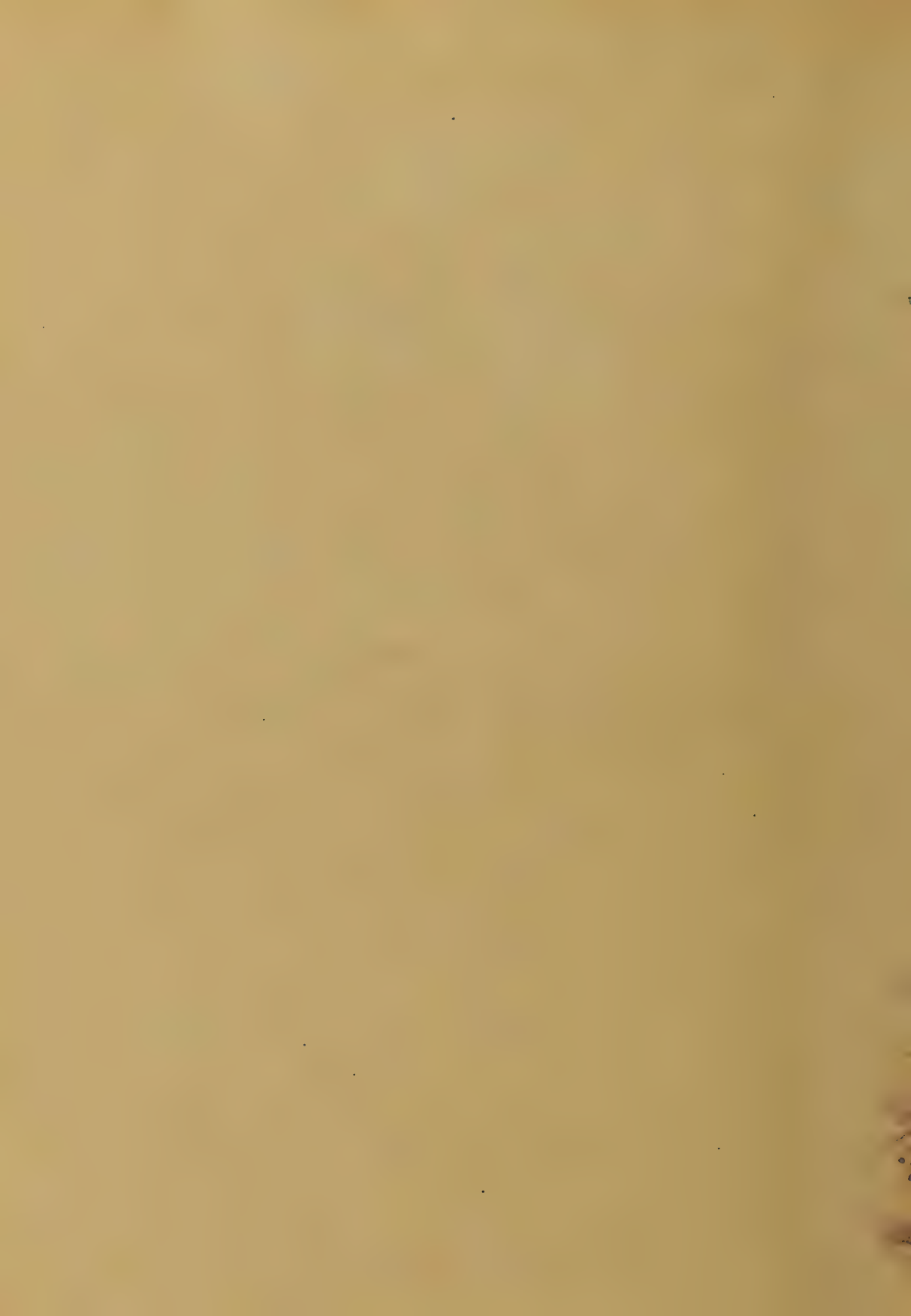
Let us now turn our atten-
tion to the treatment pro-
posing however that the
prognosis of this distress-
ing complaint from its
complications with lesion
of the heart is generally
very unfavorable. It is
a disease of an acute



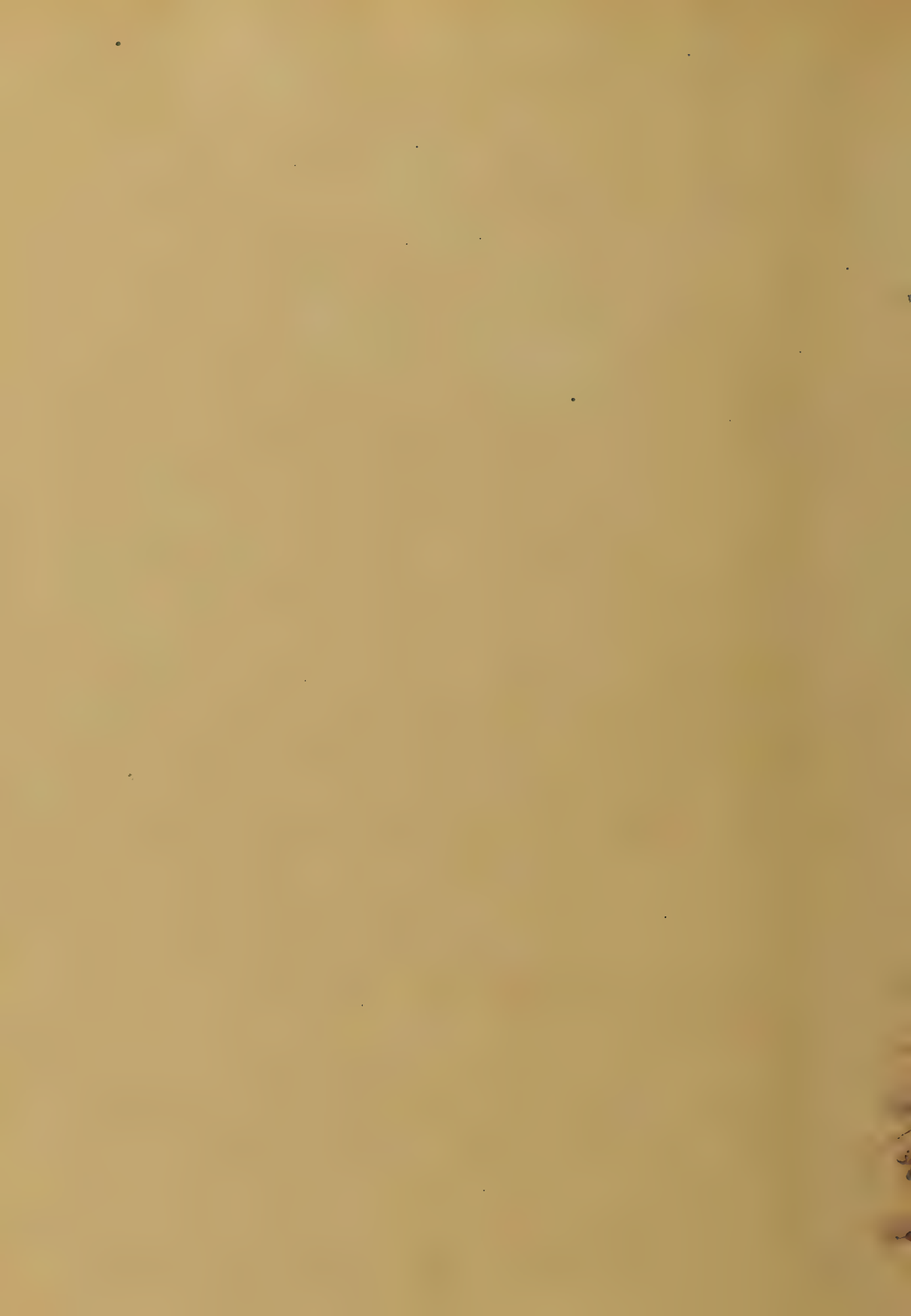
without character we should
treat it in due time
1st During the pregnancy
2nd In the puerperium

I shall now speak of the
treatment of the disease
viz. In the treatment of the
disease in the puerperium it
would be well to know
that this disease arises
under various descriptions
in the system, and that
also often very consider-
able in their immediate
causes or conditions of
the parts affected.

In all judicious treatment
the conditions should be
taken into view, from the
account given of the
of the case. He will take
care that the patient is
satisfied and pleasurable



in another instance a
 case has been subjected to
 various diseases the blood
 also being in a diseased
 condition and a
 in a few days the patient is
 considerably better.
 In some cases a
 a few days the
 location of treatment to
 suit it to each individual
 case. The use of
 medication or
 in part of the practitioner
 has not infrequently
 proved it of a
 in treatment of
 cases but it is
 admitted that it is
 very difficult if not im-
 possible to pronounce with
 any certainty a patho-
 logical condition of the



of the Lungs and
 without pleurisy.

Antispasmodics, Cordials and
 Carminatives are also of
 considerable value they have
 been employed with more
 decided success than common.

It is said they impart the
 virtues especially in these

cases where the stomach
 has been very prostrated by

the cold and violent
 inflammation of the stomach or other

parts of the head & in
 such a case it is as to prevent

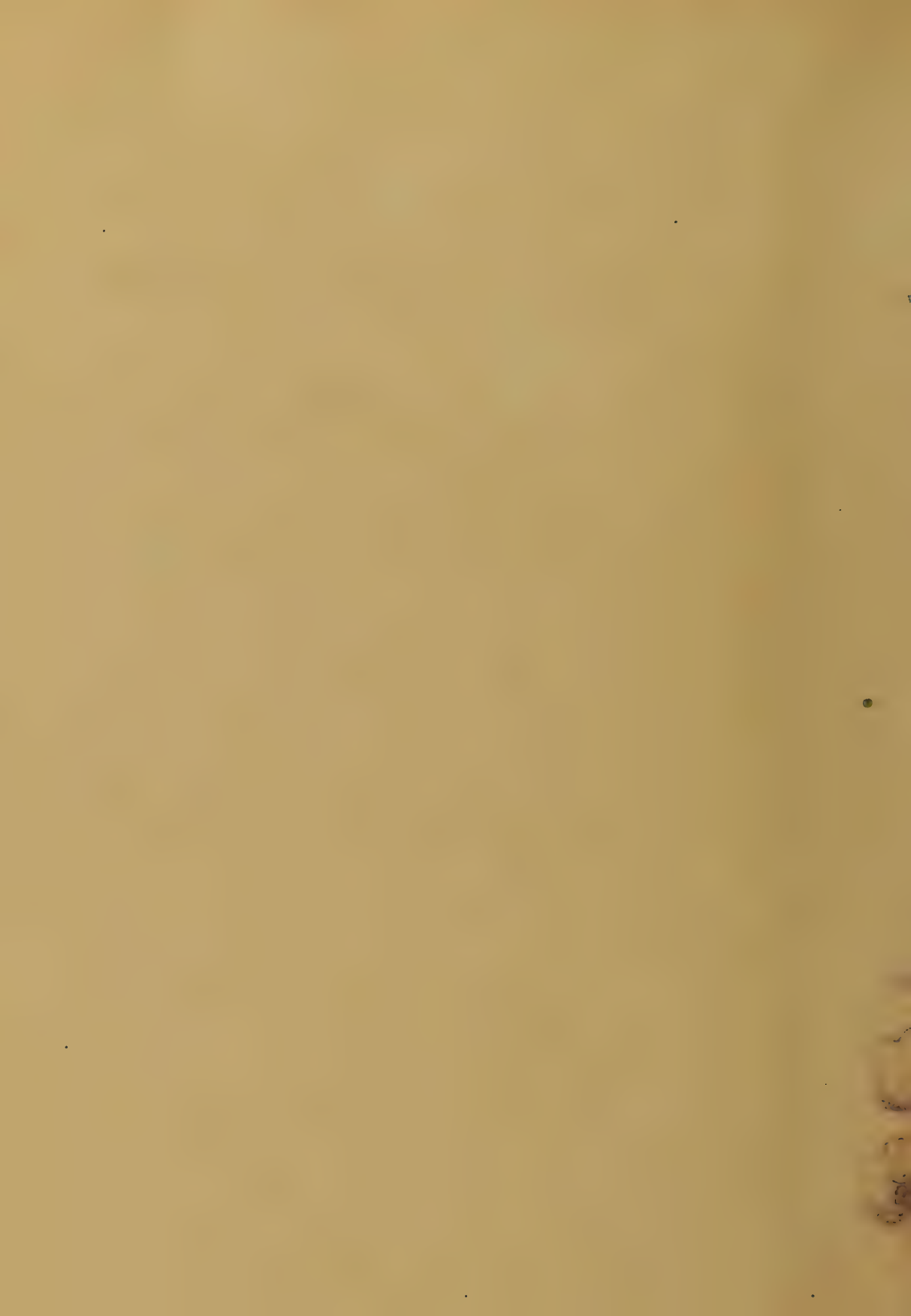
the blood by which it is
 oppressed, or a again it

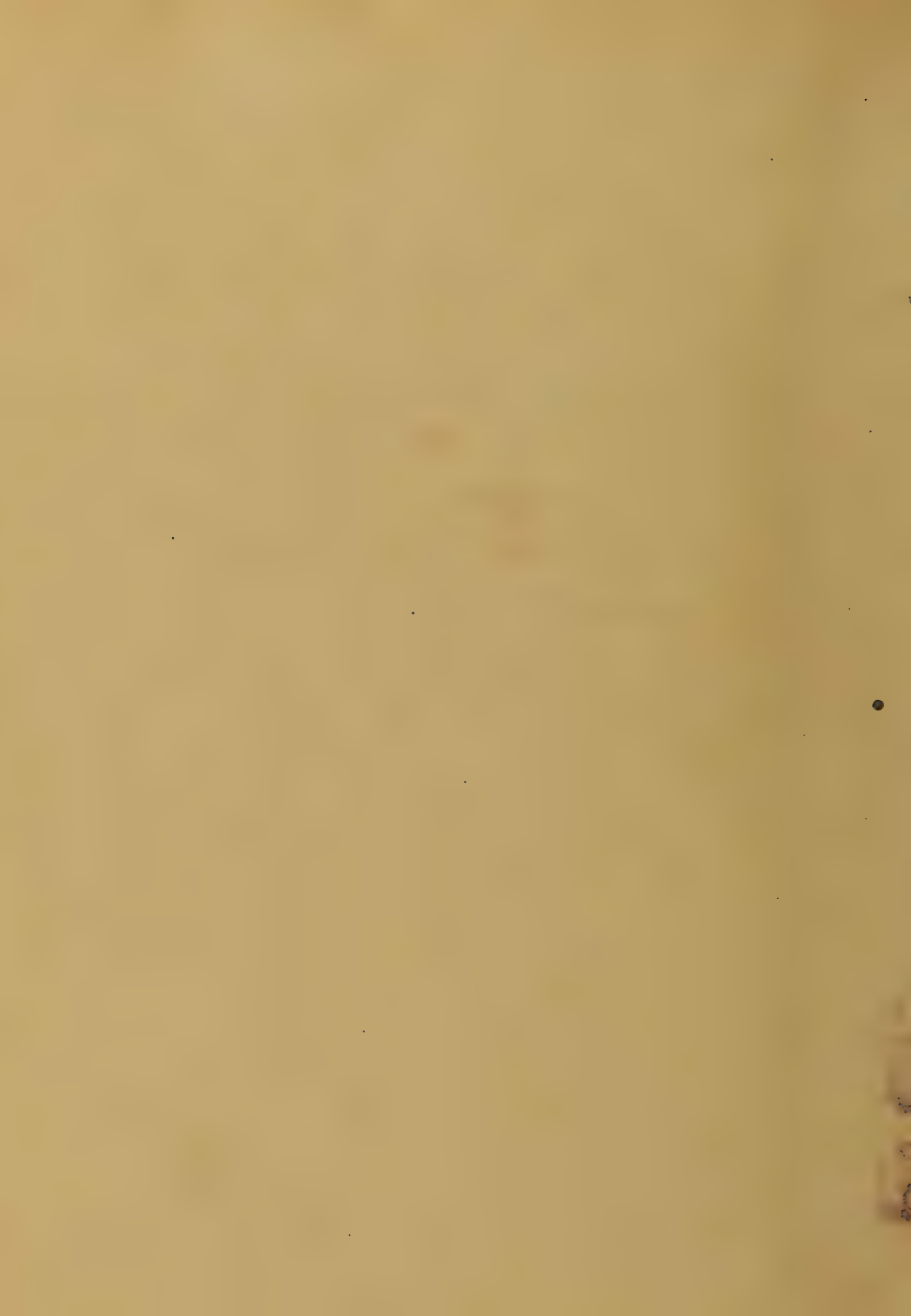
may simply invigorate the
 Stomach so as to enable

it to expel the flatulency
 accumulated therein. The

cases in which these

tinctly exist a plethoric state
 of the vascular system &
 means must be resorted to
 to give the vascular system
 a portion of the blood which
 is beneficial or even safely. In
 most cases a true venesection
 has been employed and
 particularly if carried to
 any extent, a judicious
 combination of
 loss of time in a
 brandy or other stimulant
 may be used with safety
 and benefit. In dyspeptic
 complaints the
 use of a
 account of the
 about in the
 several
 application of
 the process of
 which





or in point of fact he
 should endeavor to ascer-
 tain the nature of the
 When there is great plithor-
 a the patient is a subject
 of a gonorrhoic diathesis in
 this or a similar case the
 first to relieve the overcon-
 vulsed and secondly to
 prevent the inflammation
 from being more extensive
 the remedy is mercurial
 use of purgation, Conium mac-
 luteum is most generally re-
 sorted to in all such cases
 under Conium maculatum, Dr. Sympson
 of Dublin highly recommends
 the employment of it as
 used in St. Peter's in the
 following manner that in this
 case which he made use
 of the remedy it was most
 perfectly successful

81
The same applied direction
is said to be of great
value. The most important
part of the treatment of
Anemia, is to avoid every
thing that may excite
a paroxysm. Great attention
must be paid to the diet
of the patient. Bark, Iron
Acid, instead of Sarsaparilla
the Salt of Copper and
are more frequently used.
It is useful to remark,
the various cases of Anemia
that has been resisted to
in the treatment of
Anemia

