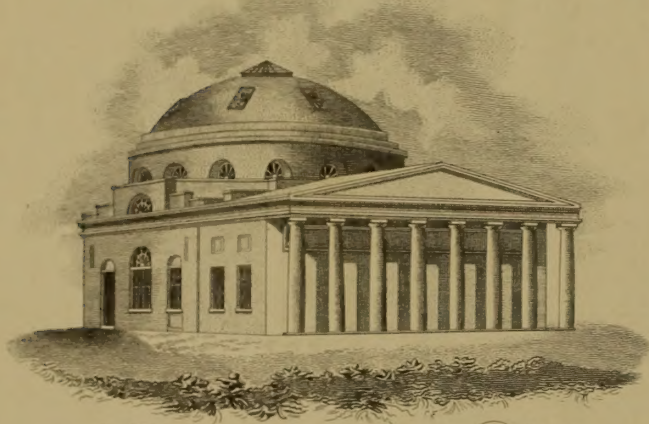
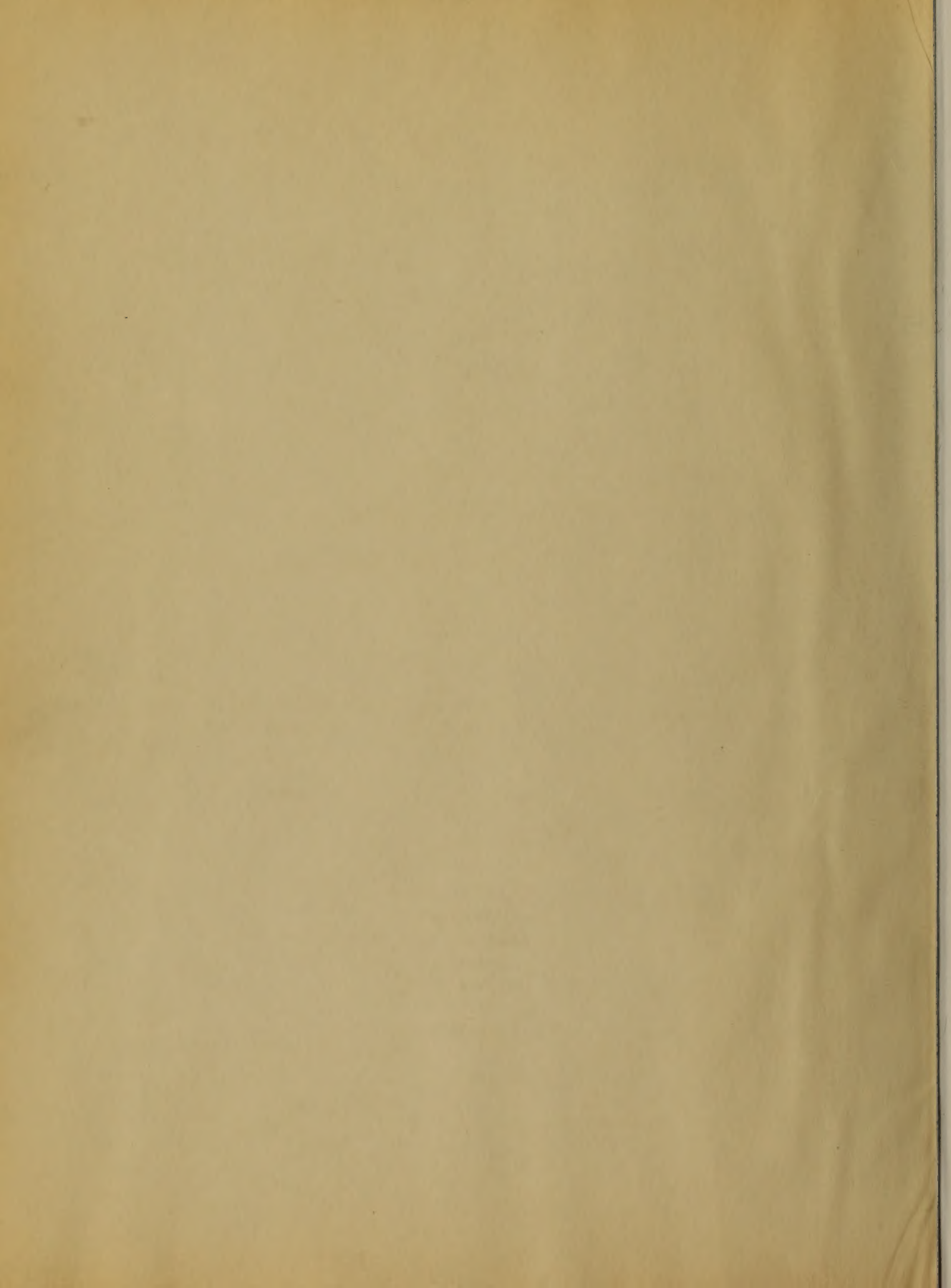


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University of Maryland



University of Maryland Theses

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

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

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

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George Washington University
Department of History

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any other purpose.

(CORRECTED TABLE OF CONTENTS)

UNIVERSITY OF MARYLAND

THESES

1880 (b)

Author	Title
Norris, M. McK.	Pneumonia
Mitchell, Frederick G.	Scarlatina
Cowles, Josiah E.	Puerperal Septicemia
Smith, William M.	Typhoid Fever
Jones, Oliver F.	Acute Parenchymatous Nephritis
Pbostin, Swem	Differential Diagnosis of Heart Diseases
Thomson, M..Augustus	Erysipelas
Flannery, Francis J.	Typhoid Fever
Cleaver, J. Henry	Influences Which Modify the Action of Medicines
Clark, Charles H.	The Physician
Batson, A. F.	Sporadic Dysentery
Giles, Alfred B.	Pneumonia
Shepherd, J. Hopper	Clinical Reports of Six Surgical Operations
Frontis, D. B.	Anatomy and Physiology of the Pneumogastric Nerve
Riley, Charles H.	Caries of the Spine
Allinder, D. K.	Pneumonia

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1950

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THEORY OF BEHAVIOR

1950

THEORY OF BEHAVIOR

1950

Author	Title
Grove, Frank W.	Cholera Infantum
Mendenhall, James N.	Typhoid Fever
McGee, T. J.	Heredity



UNIVERSITY OF MARYLAND

THESES

1880 (b)

Norris, M. McK. Frederick	Pneumonia (faded ink)	55p.
Mitchell, K. G. Josiah	Scarlatina	27p.
Cowles, J. E.	Puerperal Septicemia	25p.
Smith, Wm. M. William	Typhoid Fever (binding issues)	35p.
Jones, O. F. OLIVER	Acute Parenchymatous Nephritis	28p.
Pbostin, Swam	Differential Diagnosis of Heart Diseases (not in cordell)	19p.
Thomson, M. A. Augustus	Erysipelas	20p.
Flannery, R. J. Francis	Typhoid Fever	29p.
Cleaver, J. H. Harvey	Influences Which Modify the Action of Medicines	26p.
Clark, O. H. Charlie	The Physician (faded ink)	22p.
Batson, A. F. Batsan	Sporadic Dysentery (1881) in cordell (previously faded ink)	21p.
Giles, A. B. Alfred	Pneumonia	27p.
Shepherd, J. H. Hopper	Clinical Reports of Six Surgical Operations	31p.
Frontis Fronois, D. B.	Anatomy and Physiology of the Pneumogastric Nerve	23p.
Riley, Chas. H. Charles	Caries of the Spine	19p.
Allinder, Allinder, D. K.	Pneumonia (faded ink)	43p.
Grove, R. W. Frank	Cholera Infantum (fade ink)	19p.
Mendenhall, J. N. James	Typhoid Fever	20p.
McGee, T. J.	Heredity	18p.

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THE HISTORY OF THE

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No. 10 - Estancia de San Juan de los Rios - 1810

Journal of the Expedition

to the North West

by Don Juan de

Alvarez

Pneumonia

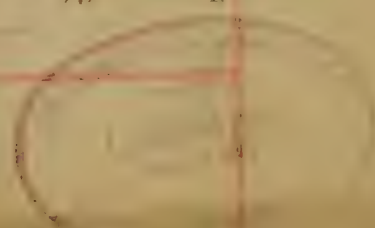
John W. Alden
of Maryland.

Class 330

46

Lesson 1, 877-50

IMb
16983





Ammonia

Ammonia is a colorless, pungent gas that is highly soluble in water. It is formed by the reaction of nitrogen and hydrogen. Ammonia is used in a variety of applications, including as a fertilizer, a cleaning agent, and a precursor for many other chemicals. It is also a key component in the production of explosives and pharmaceuticals. The gas is highly reactive and can form a white smoke when it comes into contact with acids. Ammonia is also used in the synthesis of many organic compounds and as a refrigerant in industrial cooling systems.

1888,
 The first of the month, the
 weather was very fine and
 the wind was from the
 south-west. The temperature
 was about 70 degrees
 Fahrenheit. The wind
 was very light and
 the sea was very calm.
 The wind was from the
 south-west. The temperature
 was about 70 degrees
 Fahrenheit. The wind
 was very light and
 the sea was very calm.
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 south-west. The temperature
 was about 70 degrees
 Fahrenheit. The wind
 was very light and
 the sea was very calm.



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[Faint, illegible handwriting on lined paper]

above

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[Small handwritten mark]

[Small handwritten mark]

[Faint, illegible handwriting on lined paper]

[Faint, illegible handwriting on lined paper]

The first part of the paper is devoted to a general
 introduction of the subject. It is then divided into
 three main sections. The first section deals with the
 history of the subject, the second with the theory,
 and the third with the practice. The first section
 is divided into two parts, the first part dealing
 with the early history and the second part with
 the modern history. The second section is divided
 into two parts, the first part dealing with the
 general theory and the second part with the
 special theory. The third section is divided into
 two parts, the first part dealing with the
 general practice and the second part with the
 special practice. The first part of the paper is
 devoted to a general introduction of the subject.
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 first section deals with the history of the subject,
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 two parts, the first part dealing with the early
 history and the second part with the modern
 history. The second section is divided into two
 parts, the first part dealing with the general
 theory and the second part with the special
 theory. The third section is divided into two
 parts, the first part dealing with the general
 practice and the second part with the special
 practice.

[Faint, illegible handwritten text on lined paper]

The first part of the paper is devoted to a general
 discussion of the problem. It is shown that the
 problem is equivalent to the problem of finding
 the minimum of a certain functional. This
 functional is defined as follows:

$$J(u) = \int_{\Omega} |\nabla u|^2 dx + \int_{\Omega} f(x) u dx$$

where Ω is the domain of interest, ∇ is the gradient operator, and $f(x)$ is a given function. The minimum of this functional is attained at a function u which satisfies the following boundary value problem:

$$\Delta u + f(x) u = 0 \text{ in } \Omega, \quad u = 0 \text{ on } \partial\Omega$$

where Δ is the Laplace operator and $\partial\Omega$ is the boundary of the domain. The problem of finding the minimum of the functional $J(u)$ is equivalent to the problem of finding the solution of the boundary value problem above.

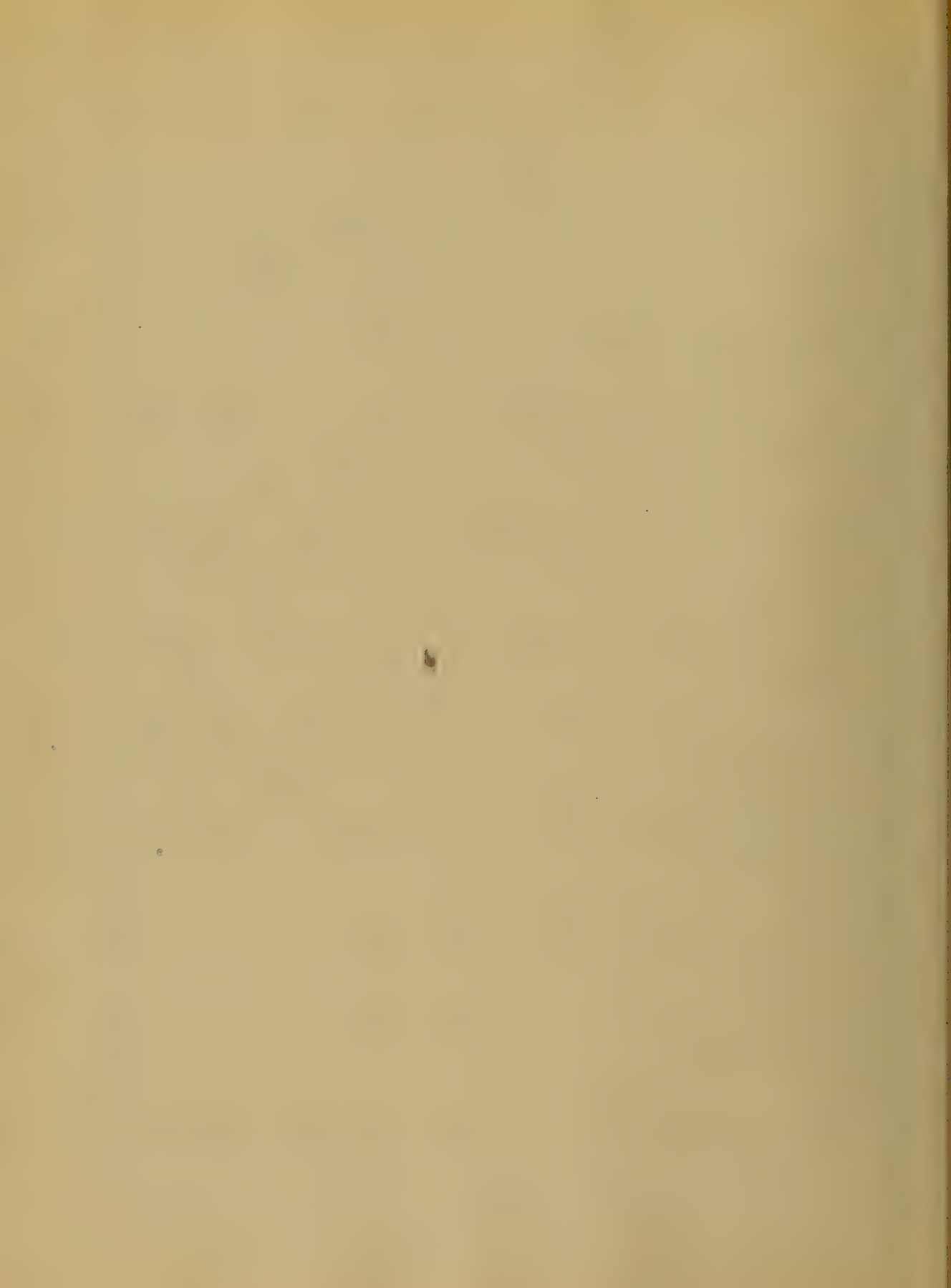
In the second part of the paper, the existence and uniqueness of the solution of the boundary value problem is proved. It is shown that the solution is unique and depends continuously on the data of the problem.

In the third part of the paper, the asymptotic behavior of the solution is studied. It is shown that the solution approaches a certain limit as the parameter ϵ goes to zero.

Finally, in the fourth part of the paper, numerical results are presented. It is shown that the numerical solution converges to the exact solution as the number of grid points increases.

Handwritten text on lined paper, likely a letter or document. The text is extremely faint and illegible due to low contrast and blurring. It appears to be a continuous block of text spanning most of the page.

a. The first part of the document
 is a general statement of the
 purpose of the study. It is
 to determine the effect of
 the new method of teaching
 on the learning of the
 subject. The study is
 designed to be a comparative
 study of the two methods.
 The first method is the
 traditional method of
 teaching. The second
 method is the new method
 of teaching. The study
 will be conducted over a
 period of six months.
 The results of the study
 will be reported in a
 separate report.

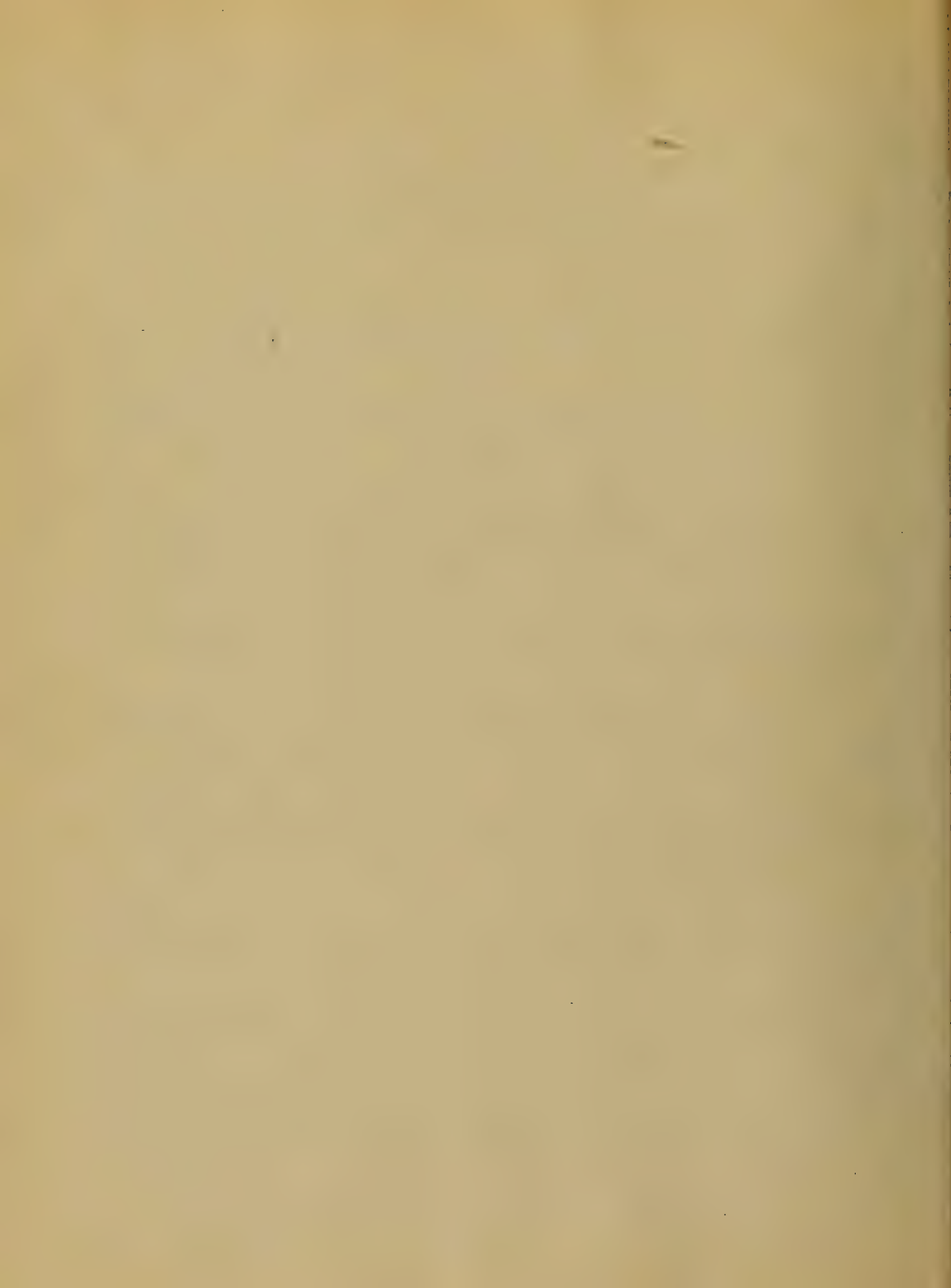


The first part of the
 document is a list of
 names and addresses
 of the members of the
 committee. The names
 are written in full
 and the addresses are
 given in full. The
 list is arranged in
 alphabetical order of
 the surnames. The
 names are written in
 ink and the addresses
 are written in pencil.
 The list is followed by
 a section headed "List
 of names of the
 members of the
 committee." This
 section contains the
 names of the members
 of the committee in
 full. The names are
 written in ink and
 the addresses are
 written in pencil.



I have just received the first of the
articles which you have written, and
will send you the others as they
come, as soon as they are ready.

I have just received the first of the
articles which you have written, and
will send you the others as they
come, as soon as they are ready.
I have just received the first of the
articles which you have written, and
will send you the others as they
come, as soon as they are ready.
I have just received the first of the
articles which you have written, and
will send you the others as they
come, as soon as they are ready.



The first of these is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The second is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The third is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The fourth is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The fifth is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The sixth is the fact that the
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 question of the Irish Home Rule Bill.
 The seventh is the fact that the
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 question of the Irish Home Rule Bill.
 The eighth is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The ninth is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.
 The tenth is the fact that the
 British government has been unable to
 secure a satisfactory settlement of the
 question of the Irish Home Rule Bill.

Handwritten text in cursive script, appearing to be a letter or a document. The text is very faint and difficult to decipher, but it spans across several lines of the page.

Handwritten text in cursive script, appearing to be a letter or a document. The text is very faint and difficult to decipher, but it spans across several lines of the page.

The first part of the book is devoted to a
 description of the various forms of
 the human mind, and the different
 degrees of its powers. It is a
 very interesting and useful work.

The second part of the book is devoted to a
 description of the various forms of
 the human mind, and the different
 degrees of its powers. It is a
 very interesting and useful work.

The third part of the book is devoted to a
 description of the various forms of
 the human mind, and the different
 degrees of its powers. It is a
 very interesting and useful work.

I have been thinking of you very much lately
 and wondering how you are getting on. I hope
 you are well and happy. I have been very busy
 lately with my work, but I always find time
 to think of my friends. I would love to see
 you all again. Please write to me when you
 have a chance. I would love to hear from
 you. I am always with love,
 your affectionate friend,
 [Name]



The first thing I noticed when I stepped
 out of the car was a warm, sun-drenched
 breeze that felt like a gentle embrace.
 The air was thick with the scent of
 blooming flowers and the distant
 hum of a lawnmower. I took a deep
 breath, savoring the simple pleasures
 of a perfect spring day. The world
 seemed to be in a state of joyful
 chaos, with children laughing and
 birds chirping in the background.
 I walked slowly, taking in the sights
 and sounds of the neighborhood.
 The colors were vibrant, the sounds
 were lively, and the overall feeling
 was one of pure happiness. It was
 a beautiful reminder of the joys
 of life and the beauty of the world
 around us.

The first part of the book is devoted to a general
 introduction of the subject. The author discusses the
 history of the subject and the various methods
 which have been employed in its study. He then
 proceeds to a detailed description of the
 various parts of the system. The second part
 of the book is devoted to a description of the
 various parts of the system. The author discusses
 the various parts of the system and the
 various methods which have been employed in
 its study. He then proceeds to a detailed
 description of the various parts of the system.
 The third part of the book is devoted to a
 description of the various parts of the system.
 The author discusses the various parts of the
 system and the various methods which have
 been employed in its study. He then
 proceeds to a detailed description of the
 various parts of the system.

The first thing I noticed when
 I stepped out of the plane was
 a sense of relief. The air was
 fresh and the sky was blue. I
 had been waiting for this moment
 for so long. The ground below
 was a mix of green fields and
 brown hills. The people were
 friendly and the food was
 delicious. I had heard that
 this was a beautiful place to
 visit and now I knew it was
 true. The sun was shining
 brightly and the birds were
 singing. I had found a new
 home.

The second thing I noticed
 was the smell of the sea. It
 was a mix of salt and
 sand. I had heard that the
 beach was beautiful and now
 I knew it was true. The
 waves were crashing against
 the shore and the sun was
 shining brightly. I had found
 a new home.

1880

December 25

Dear Mother
I received your letter of the 19th and was
glad to hear from you. I am well and
hope these few lines will find you the same.
I have not much news to write at present.
I am still in the same place and
doing the same work as before.

I have not much news to write at present.
I am still in the same place and
doing the same work as before. I have
not much news to write at present.
I am still in the same place and
doing the same work as before. I have
not much news to write at present.
I am still in the same place and
doing the same work as before.

Handwritten text, mostly illegible due to fading and bleed-through. The text appears to be a list or a series of entries, possibly related to a collection or inventory. Some words are faintly visible, such as "No." and "of".

Let Shedd, Chas

Handwritten text at the bottom of the page, mostly illegible. It appears to be a signature or a note, possibly related to the name "Let Shedd, Chas" mentioned above.

... a very limited spot in the beginning of the course. The first bottom must be ... having an immediate reference to the port involved. As is stated, by ... what she discovers, the part ... which gives the earliest and ...

respiration which is indicative of
the inflammation, the
respiration is rapid, there is
frequent breathing, there is
shortness of breath, there is
inflammation, and as the inflam-
mation becomes more violent
the pulse becomes more frequent
and the patient more restless.
The patient is more restless
and the pulse more frequent
and the patient more restless.
The patient is more restless
and the pulse more frequent
and the patient more restless.
The patient is more restless
and the pulse more frequent
and the patient more restless.

as it is however not so much as might be
thought upon, from the frequency and
breadth of the surface of a vessel
such as the bladder. When in the
as in the bladder is accounted for by the
high ground, in some of the tubes,

It is stated of the vessel in question
as above is that of its minute apper-
tures. Despite the fact that of the tubes
in some cases no sound at all, or there is
a low tone. In some of the tubes
found or found up against the same
as there is a low tone of sound in
which only the sound of bronchial respi-
ration.

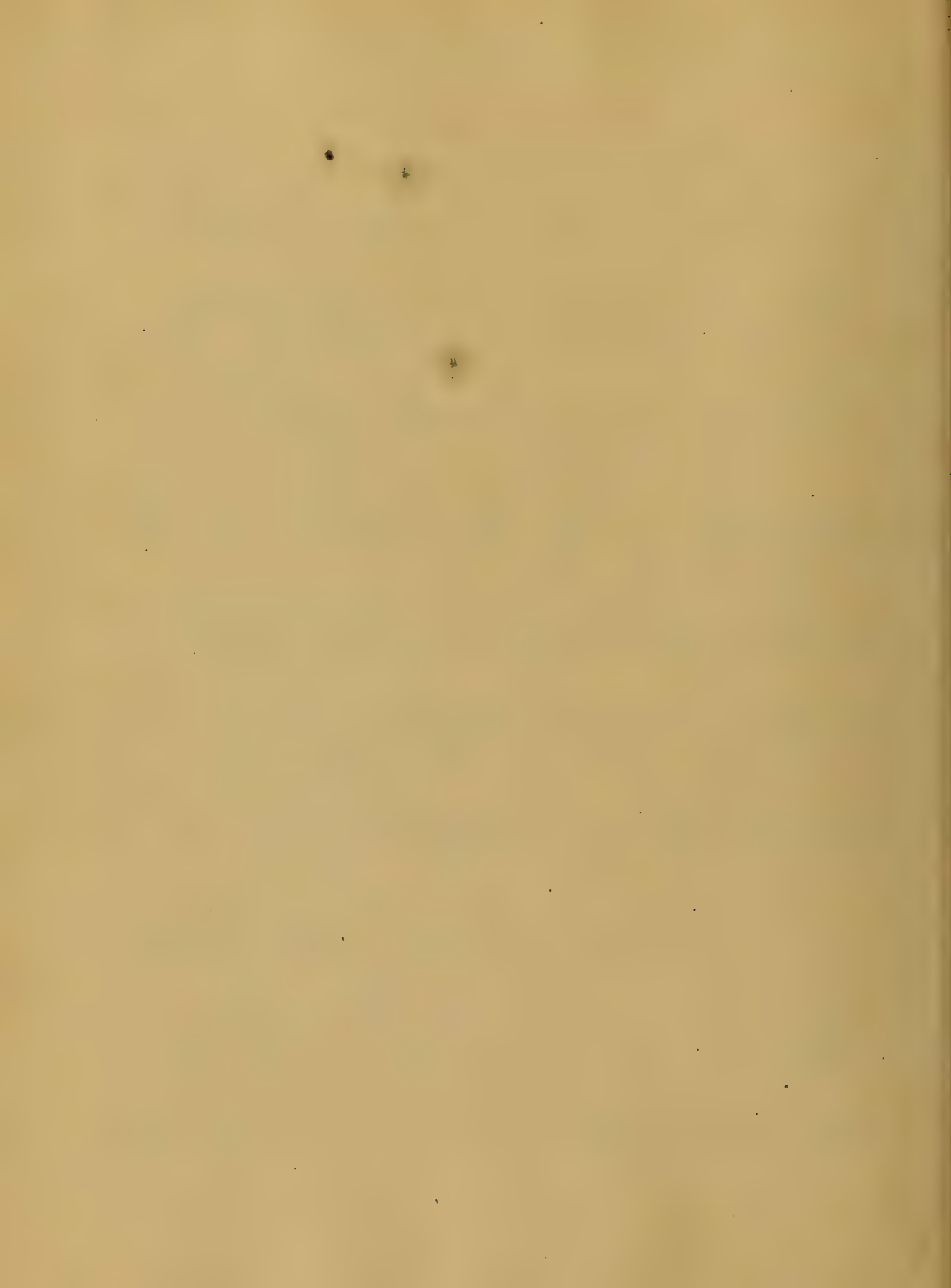
When the lung, and its
and in some of the tubes...

hundreds of the lower part of the throat
the cold, feeling of the tongue against the
and through the cold, covering the throat.

This is what can be detected with
acids in the throat. The patient is requested
to breathe deeply, and when he is told to
breathe, he has been opened in tones, rather
as formerly. They are some amount
not an expansion to the tones on the oppo-
site of the throat. We have thus been made
acquainted with two entirely different
sounds, not heard in health.

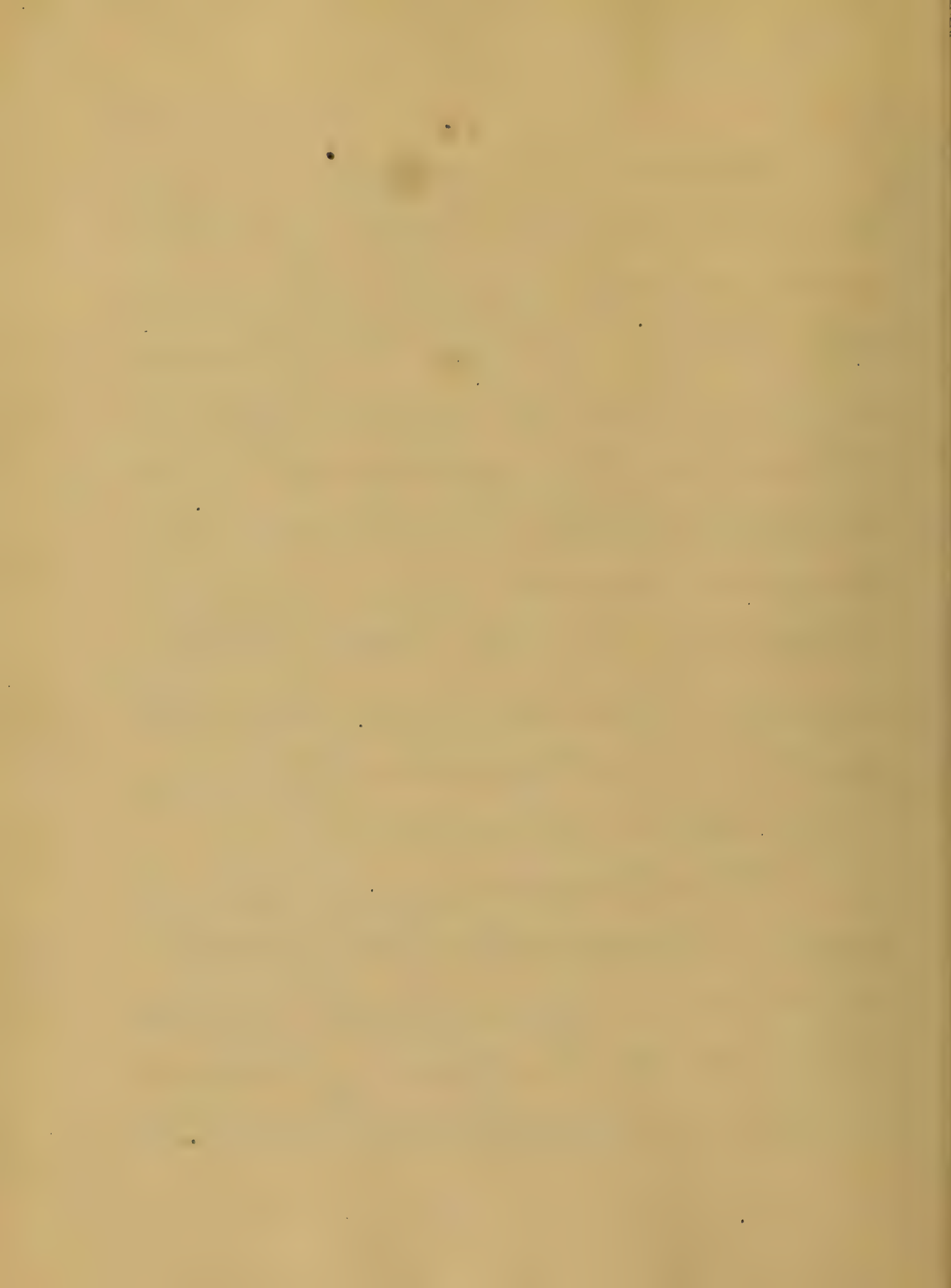
When there is no sound, a little but the
during respiration, is perceived, the
period becomes out of focus, and brief
interest. At this point the physician
is unable to say whether the tongue is

not generally to the extent of the first or second
 when it is passing into the third
 stage that of permanent inflexion
 The first stage will be many
 of the words have been used in the
 first few hundred years after the beginning
 of the world in the third stage and the
 last of the three stages. — The construction
 called the preterite is to be seen through
 the preceding stages. It is well
 doubtless a certainty that he is to be seen
 in the last stage. A further remark
 cannot say whether the language used
 in the stage of legitization or whether
 it has passed into the third stage.
 But says the same matter of the structure
 of the language used in a further stage



In fact, the most of the world
 into which air holds its own, down into
 a lower, however, repetition, there comes
 and returns things which are, how
 with in the land can only be profitably
 studied for a long, sufficient time, as the
 source of a student, with one or more
 completed, about, not on the part of
 the student only, but that of the
 attending physician in teaching them
 seem not to be studied in his daily
 life, though the source

In the physical aspect, that we
 understand, the process here, too,
 we find, we find, we find, it is
 more the higher, training of the mind
 and about, again, the subject left.



The pain in all these forms of the disease is sometimes very great, and sometimes less, it may be little below the points stated, or it may exist in almost any part of the chest. Generally it is most severe in the middle of the thorax, and by degrees may reach all parts of the lungs.

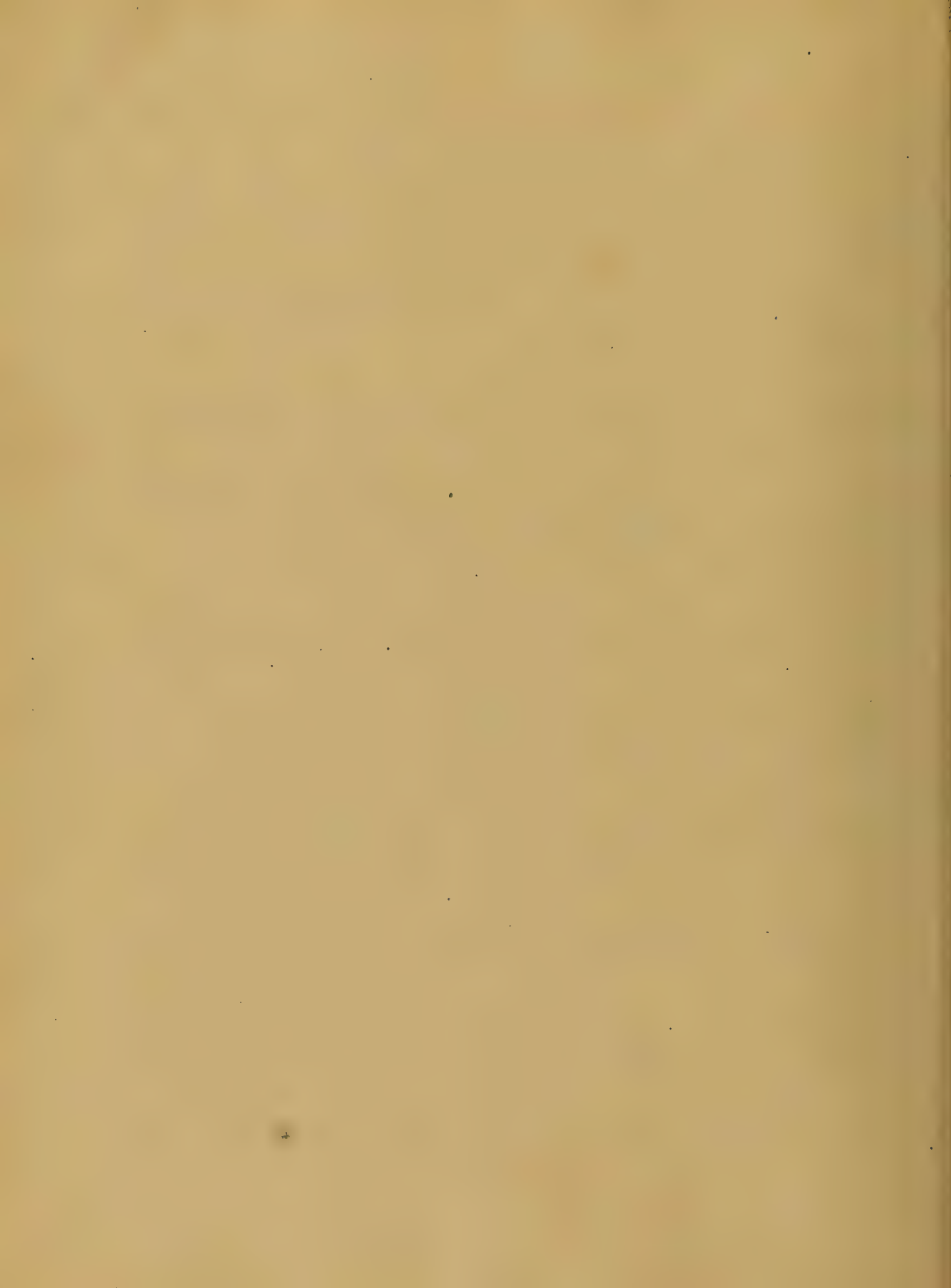
Coughing which is more or less attended with pain is at times very common, and frequently appears before any other symptom, and is more or less attended with expectoration, and is attended with some degree of fever, and is attended with some degree of dyspnoea, and is attended with some degree of prostration, and is attended with some degree of delirium, and is attended with some degree of death.

on the affected side. The disease commences
beginning with the rupture of the
found to be by far with affection in
breath, and found to be by far in
about, - Short Cough, Delirium is common,
Influenza highly infectious, on the 4th or 5th
day sometimes in the evening the temperature
in the thermometer reaching to 100° or
105° F, in the afternoon with a profuse
sweat about the 7th day usually. The
lungs of few patients along the 2d or 3d
day - As above stated, the patient is
found to be unable to lie on the affected side.
The pleura has been found inflamed and
was covered to a limited extent, with
irregular lymph. The bronchus is af-
fected in direct ratio to the extent of

Sometimes the degree of effort is
 regulated by the nature of the work
 of the hand and degree of inflammation.
 The state of the mind is also
 an important factor in the
 control of the voice. In the
 singing and the general aspect of
 the voice are determined by the
 state of the mind. When there is
 an increase of the activity of the
 larynx, when the face becomes pale
 and the pupils are dilated, the
 shoulders are elevated and all the muscles
 which are connected to the larynx are
 stimulated in function. The muscles
 fully exposed and exposed by the
 work of the voice are the muscles of the

the disease bronchitis, *S. olivaceum* is
 a symptom which frequently attends the
 disease, and it may be considered, an un-
 reliable sign. The disease is the result
 of an inflammation of the lungs, which
 will be the consequence of a long
 cough. The external vessels are
 impaired to a great degree.

The expectoration proceeds in a
 disagreeable manner. When the pneumonia
 is more extensive the sputum consists of
 sanguinolent matter, and is
 of a viscid character, and is
 owing to the retention of the secretions,
 it has been allowed to accumulate.
 The color of the sputum is
 that of a dark shade of red.



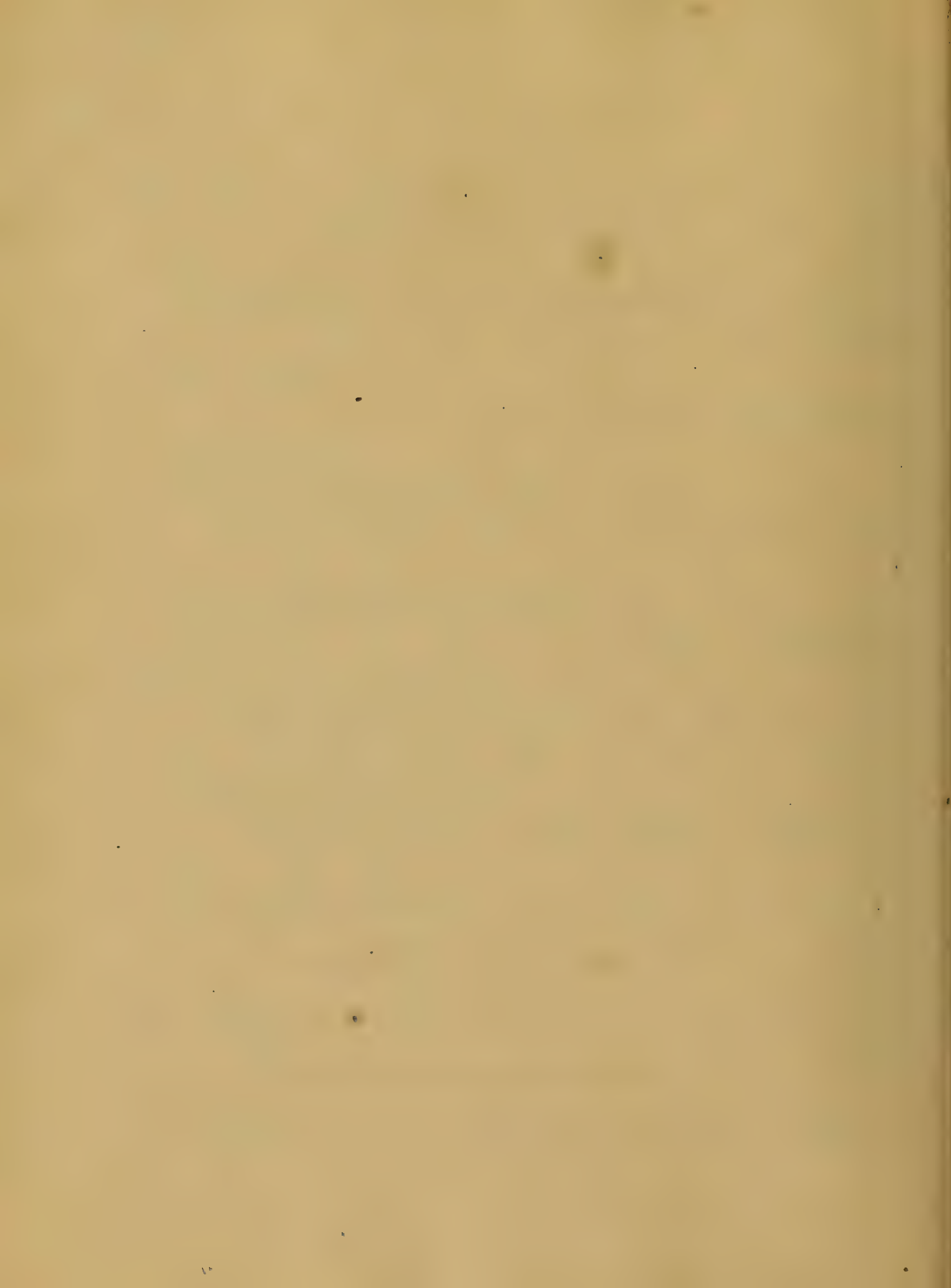
It is a common observation that
a stone, after it has retained its color
for a few days, it loses its color and
becomes a dull gray color and
requires a long time to
recover its color. In some cases
it is said that the color is
lost, this latter change being
due to the presence of a deep reddish-brown
color and at the same time assuming a
dull gray color. It is said that
this is indicative of danger and
a sign of the presence of the
sign of danger is the
sign of danger. In some cases, the
sign of danger is the
sign of danger, which is indicative of danger.

The first part of the paper
is a description from the first to
the last, or there may be only one or two
more or less.

The second part is a
description of the same.

The third part is a
description of the same.
The fourth part is a
description of the same.
The fifth part is a
description of the same.
The sixth part is a
description of the same.
The seventh part is a
description of the same.
The eighth part is a
description of the same.
The ninth part is a
description of the same.
The tenth part is a
description of the same.
The eleventh part is a
description of the same.
The twelfth part is a
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description of the same.
The fiftieth part is a
description of the same.

The entire rapidity associated with

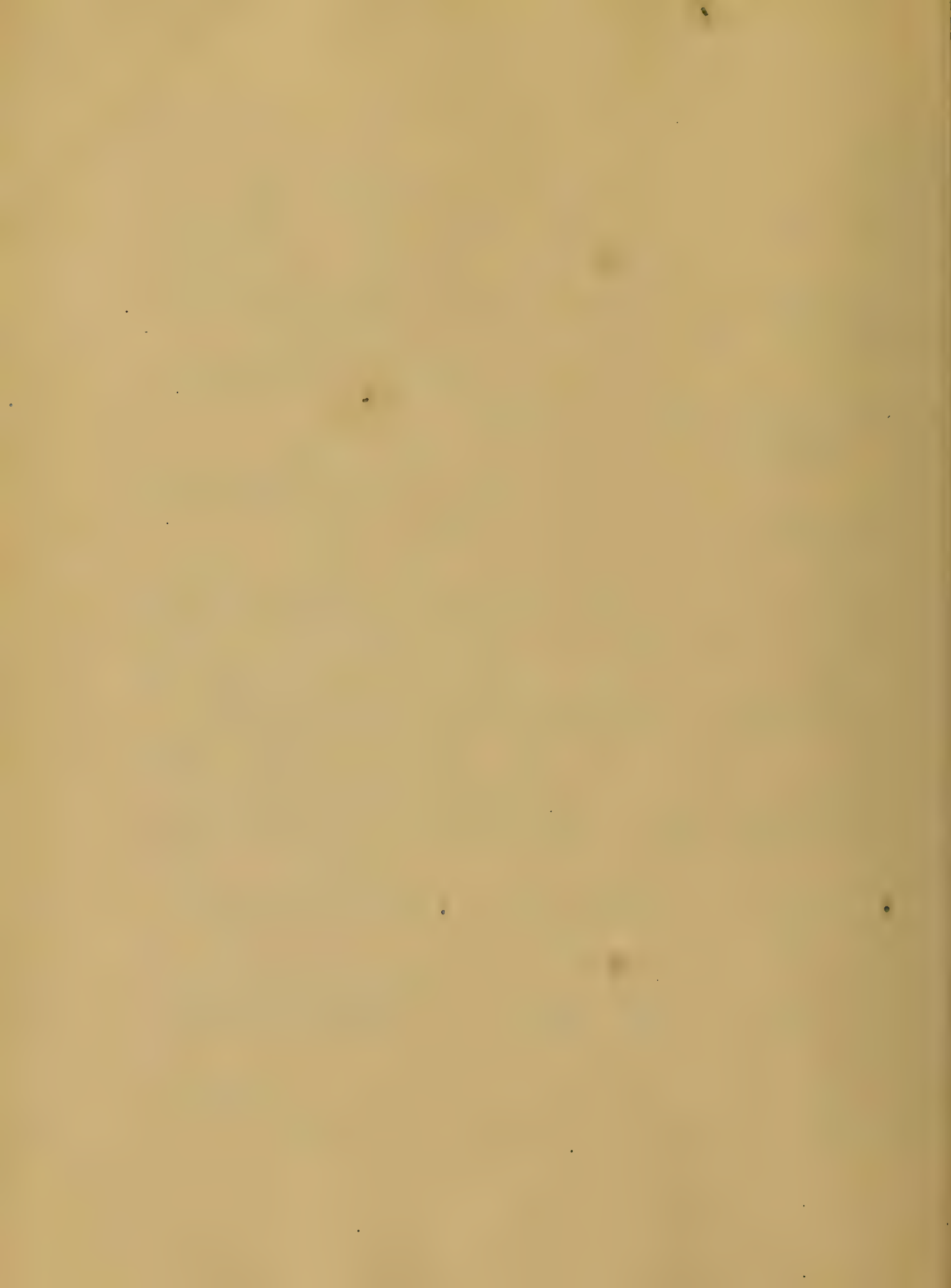


...with the ...
...with the ...
...with the ...
...with the ...
...with the ...

Which ... disease is in progress
... with the ...
... with the ...
... with the ...
... with the ...

The tongue ...
... with the ...
... with the ...
... with the ...
... with the ...

... with the ...
... with the ...
... with the ...
... with the ...
... with the ...



The vessels underwent changes, but
the most important, was the
tendency to a diarrhoeal tendency it was
the most common type.

The wine becomes, scanty, & high-
coloured, of high specific gravity, with a
strongly yeasty condition, & it is
a very common occurrence, & is
the most common.

Structure the wine must contain
the following, hyaline and granular
cells, & some epithelial cells,
the former, is the only part of the disease,
is often the first to appear, & is the
most common, & is the first to
appear, & is the most common,
by the way, it is the most common.

Structure is often replaced by

is often in case; restless at night,
 and he has been in bed, during
 the night, though the latter always
 has his constitution shattered, his intellect
 and his whole system of circulation
 and the frequent loss of
 vitality of the brain to nature.

The temperature of the patient will
 rise from the invasion of the virus
 so that it soon attains to the
 within a few hours. This may vary from
 nothing to 105.

There is at this
 time some difficulty in getting
 and the disease is of the
 kind that is often seen in

such as Syphilis. The Syphilitic, however,
is the only one, says an English Author, we
meet with difficulty in curing unless the
specific Characteristics be in abeyance.

The morbid process is not supervised
after Syphilitic or venereal, & the
various have, however, various degrees
of the disease, & tend to characteristic
form, & are being treated by a variety
of means. The venereal bubo is one of
the other groups, the morbid
process is a disease of consider-

able gravity, though it is being often
found in a comparatively early stage
in the the treatment of being
less in cost, & it is now of some
importance in the treatment

constitutions have been greatly injured
by long continued hot injurious habits
(such as disease).

Treatment.

There is, perhaps no disease for which
a more opposite course of treatment
has been suggested than of hot and
cold in the Pneumonia. This is
a case which perhaps more than any
other has on this case a basis of
water to be found in the change of
life and case. (Bristow) —

It is difficult in the treatment of
this form that in the case of some
cases which retention and excess in
the natural use of the medicine with
the patient. The former course is

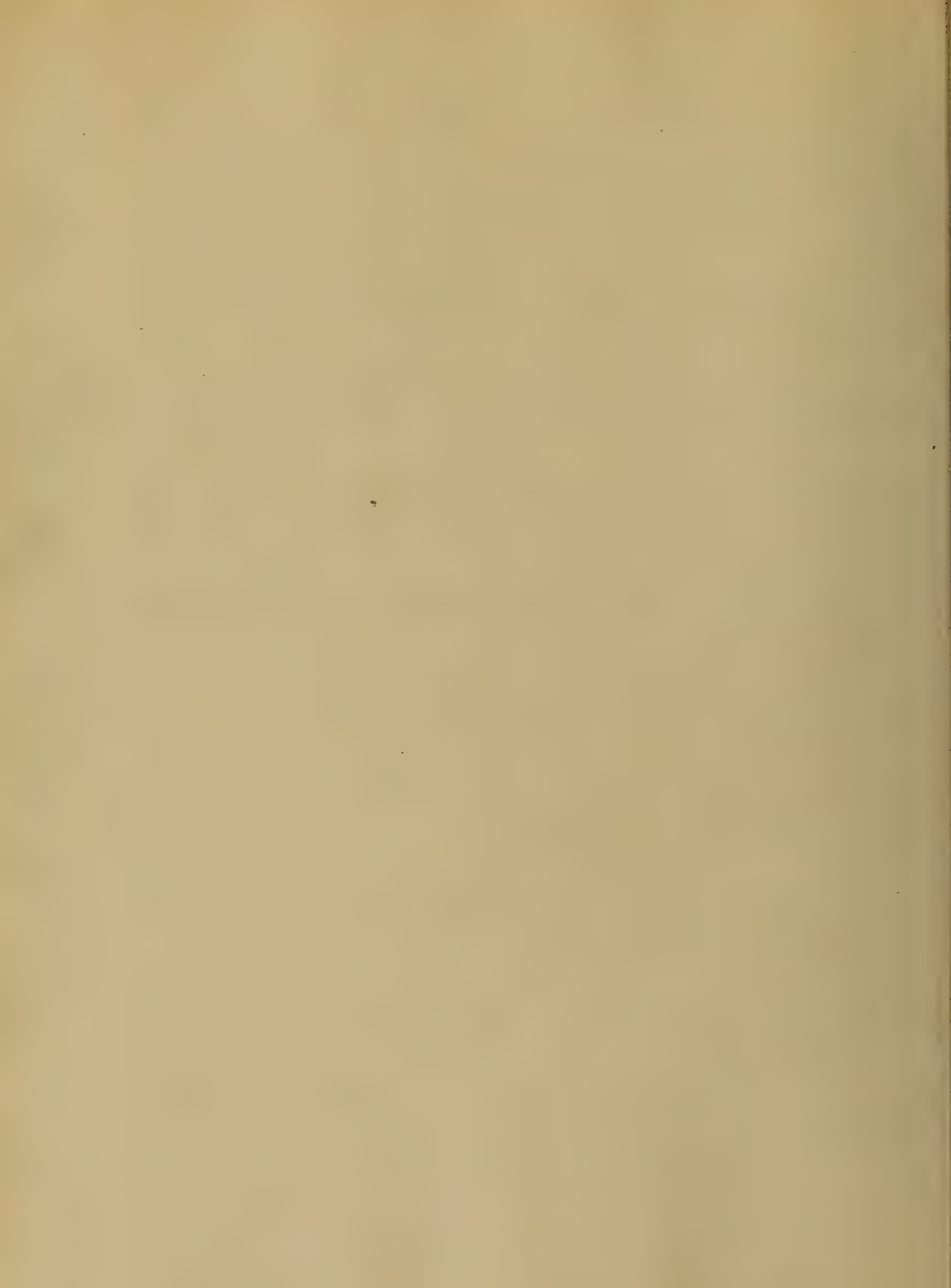
our highly esteemed & venerable Dr. on
 this subject; & in the opinion
 that it will be necessary to us to take
 in this point, and his admirable
 view to us in a paper showing us
 that in any judgment, that the
 cause of the case in hand, we
 must not only have better
 & this be a robust, (ectonic), subject,
 even coming his & must be approved.
 I think that the case will be decided
 in good results. I do suppose you may
 be surprised, and that the
 case will be decided by a
 law the best of the subject, and
 the case is found to be
 that the case will be decided



increasing the least history of medicine in
 fact that I have a great belief of blood -
 being what the power of medicine is if
 it could be used in such a manner - (I
 believe that the medicine is not good
 but that it is very good)

I have been very much interested in what
 you have said about the power of medicine
 and I am very glad to hear that you
 are so interested in it. I have been
 very much interested in it for some
 time and I have been very much
 interested in it for some time. I
 have been very much interested in it
 for some time and I have been very
 much interested in it for some time.

& all others, and so much, Dr. Todd
 says all persons should be treated
 as if they were insane by their seemingly
 excessive efforts to improve and
 preserve the brain, and the excessive
 use of some, such as Acetate, is
 not only useless, but dangerous and
 some Physicians say that in the majority
 of cases of Insurrection, no medicinal agents
 are necessary after the first stage is
 passed. What the most profitable
 treatment is, is a matter of opinion, but
 our rights, and the Reform Association
 are on our side, and we will not
 be deceived, and that is the best
 & truest to be treated with the most
 freedom.





The same that I suppose have been
 in your hands. But as the
 treatment of this disease in children
 involves the same principles as the
 treatment of the disease in adults with
 due modifications till the disease
 recurred again in later application to
 infantile life. ————— the beginning
 of the fever is acute and the
 first act of vomiting is the first
 food is not to be administered to
 be continued until the patient
 is almost exhausted with disease. The
 application is not to be used. So as in the
 last part of the fever it is not to be
 stopped. I can affirm that he is a
 devoted and able physician. His

death...
...
...
... trusts which it may be treated
...
... of your personal.

John D. ...
S. ...
... Co.
...

Entered

...
...
...

X

X

A

Thesis

On

Scarlatina

By

Fredrick G. Mitchell
Maryland.

Dec. 1st 1861.

There are many more of these
of the kind which are
more fully described in Dec
Col. 1, which we consider as
the same type as which it is
used to be, and we have
character of its complications
and second.

Substantive as it is to
the Publican its violation is
additional, and it is
regards the general type of
the id. is, but the immense
difficulties attend a case
of course. In the Community
admission is a second year,
since its first visit is in a

late of distant views, a certain
manner.

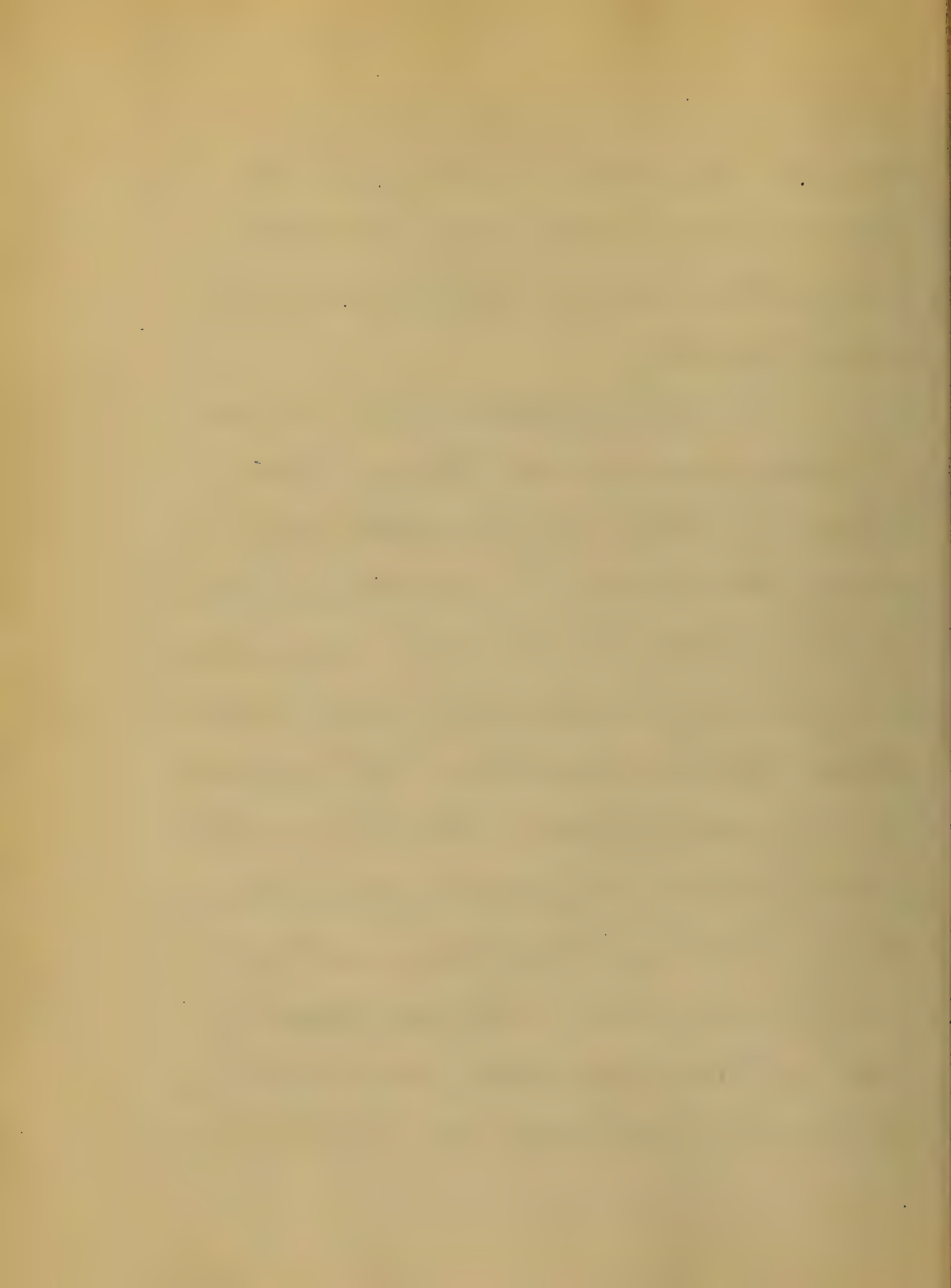
Ominent Authorities declare that
it is measles and lanced around the
eye, the nature of the affection, always
forming their characteristic features,
and in the same manner occurring, from
the course of the disease, some of
these peculiar characters, Scarcely a
disease presents an exception, since
it may occur without an Eruption
on the skin, the course of the dis-
ease being in various instances
by this circumstance.

Another marked
peculiarity is the running together
of the disease, or else its being re-



and as to some medicine but
hygienic treatment, and others
as to the use of taffet and some
diat agents.

In selecting this disease
for an inaugural thesis I am
aware of the difficulties atten-
ding its history, since its origin
is involved in much obscurity,
and as it is said to have made
its first appearance in Hippocrates
in the case of Greeks or Romans etc.
An Arabian, Susrana, who was
an Epidemic which prevailed
in Rome, about the middle of
the 17th Century. With a re-
spected Dutchman and others.



It, but never drawn upon as
to give rise to the supposition that
scarlatina, measles, and the exanthem-
atous fever diseases, —

Dr. Hithering was
the first to accurately
describe scarlatina, a distinct
disease 1743, various tracts and
treatises have since been published.
In giving a description of Scarla-
tina, I shall endeavour to present
the character attending upon
a typical case — at the same
time trace the various types
of different epidemics, the Cause
as far as we are able to ascertain, the
Diagnosis, Prognosis, and Treatment.

lacks with the same, suc-
cessful management,

Decidua is divided
by Anstetter into three vari-
ties - Simple, Compound, and In-
complete, the last after a rather a
period of incubation, is united
in with some vascular follicle
formation, blood, and heat of skin,
the first being by no means in-
frequent, sometimes being noticed
as to attract but little notice,
then is associated with Cephalo-
suffused Lac, sometimes a d-
indeed. The usual accompani-
ment of pain, on the 2nd day of the
labor the rank generally is water

its appearance, although it may be
extended till the 3rd or 4th day, a cir-
cumstance usually ascribed to some
peculiarities in the constitution of
the patient or disease, - the spots
concentrate its appearance on
the neck, face, and chest, and after-
wards diffuses itself over the body,
so that on the 3rd day of the erup-
tion the entire surface is covered,
the skin being frequently hot
and dry.

On the extensive eruption
of the eruption is continued,
while on the body it forms the
appearance of irregular patches,
the redness being most prominent

the character of the white coat.
The ^{white} coat is the eruption confined
to the exterior - since we find the
mucous membrane of the tongue,
fauces, pharynx, nostrils, also
involved - while the papillae
of the tongue, & a ^{large} area
developed, penetrate through the
white coat, which is ^{absent} ^{at} ^{the} ^{first} ^{few} ^{days} - a very characteristic
feature is this, that ^{at} ^{the} ^{first} ^{few} ^{days} ^{we} ^{frequently} ^{to} ^{diagnose} ^{the} ^{disease} ⁱⁿ ^{the} ^{absence} ^{of} ^{other} ^{good} ^{characters} - especially when
the removal of the coat leaves the
tongue ^{markedly} clean, red, and
strikingly ^{like} ^{an} ^{abscess}.



The eruption itself is not a uniform
blush as in Erysipelas, but is formed
by an infinite series of small red
elevations of the skin, Analogous to
the vesicles of Erythema, placed close
together on a very laxament,
giving to the touch a sense of rough-
ness when the hand is placed on
it. In ordinary cases the Eruption
may be regarded as its height on
the 4th day, on the 5th it begins
to decline, and continues to
disappear finally vanishing by
the 8th day. Such is the course
of the disease in a mild Epidem-
ic, but another variety in which the
symptoms are more active with

great tenderness, and a great disten-
sion, or prominent heat of skin,
great acceleration of the pulse,
great delirium and derangement
of the nervous system, with the ad-
dition of complication of swelling
and great soreness of the throat
constituting the 2^d variety of Scar-
latina Anginae -

The stress of the disease
seems to have fallen upon the
throat, there is stiffness of the
neck, and, about, the angles
of the jaws, roughness and sore-
ness of throat, difficult degluti-
tion, hoarseness, inflammation
of the throat, and the palate,

The bowels red and swollen, and in
que the curved with exudations—
while the tenacious mucus secreted
copied with the efforts attendant
upon its expulsion add to the
discomfort of the sufferer.

As this condition develops
there is a corresponding increase of
fever, with some degree of dyspnoea
less marked, and usually a
great elevation of temperature, the
latter being a marked character-
istic of the disease. It is said in the
earlier forms of this variety, the
eruption is somewhat more tardy
in making its appearance. Actual
in exceptional instances it anticipates

its coming by 12 hours - under these
circumstances it is said to show a
greater disposition to recede, and of
pass irregularly, thus postponing
its course, and delaying deforma-
tion, the latter process is frequent
in the skin of the hands
being thrown off like a crust.

In this granular state, there is
a great swelling of the sebaceous and ceru-
menal glands, with extension of disease
to Schneiderian membrane, accompan-
ied with acid discharges, while
the ear also becomes involved.

In this stage there is said to be a great
aptitude to inflammation of internal
organs, and by far the most common

cavities, and Eruptives.

The 3^d division, or *Scorbutica* *Maligno* constitutes the most serious of all the types, and is correspondingly dreaded, in view of the fact that in some of its phases it is wholly uninfluenced by treatment, in this form there is super added to many of the other accompanying symptoms great cerebral disorder, marked frequently by violent delirium, or that of a low mulling order, great restlessness evidencing a profound interference in the nervous system, while the pulse is small and more frequent, the rash also presents some variations, sometimes passing away a few hours after its appearance.

showing itself again several days
after, the color being changed from a
bright rose hue, to a dark livid red, and
mottled, or in the worst forms being in-
fused with petechiae, the temperature
of the skin cool, and Countenance expressive
of anxiety, the tongue dark brown and
fissured, while the breath is fetid
in the extreme.

In other instances, the
patient falls into slow muttering
delirium, which passes quickly
into Coma, the face of the patient
seeming to wear upon the nervous
system at once, in these cases
no eruption appears, the patient
quickly sinking from exhaustion.

the condition of the chest in the latter types adds much to the general character of the disease, not only from the mechanical obstacle to breathing and introduction of proper treatment in the stomach, but also through additional blood poisoning arising from absorption of vitiated secretions which the patient vainly endeavours to expect.

In the above description I have only sought to give the leading symptoms marking the 3 types, these being modified by the governing epidemic and presenting many shades of difference. As regards Cause, Coma, Truss, Pleurisy, and other details

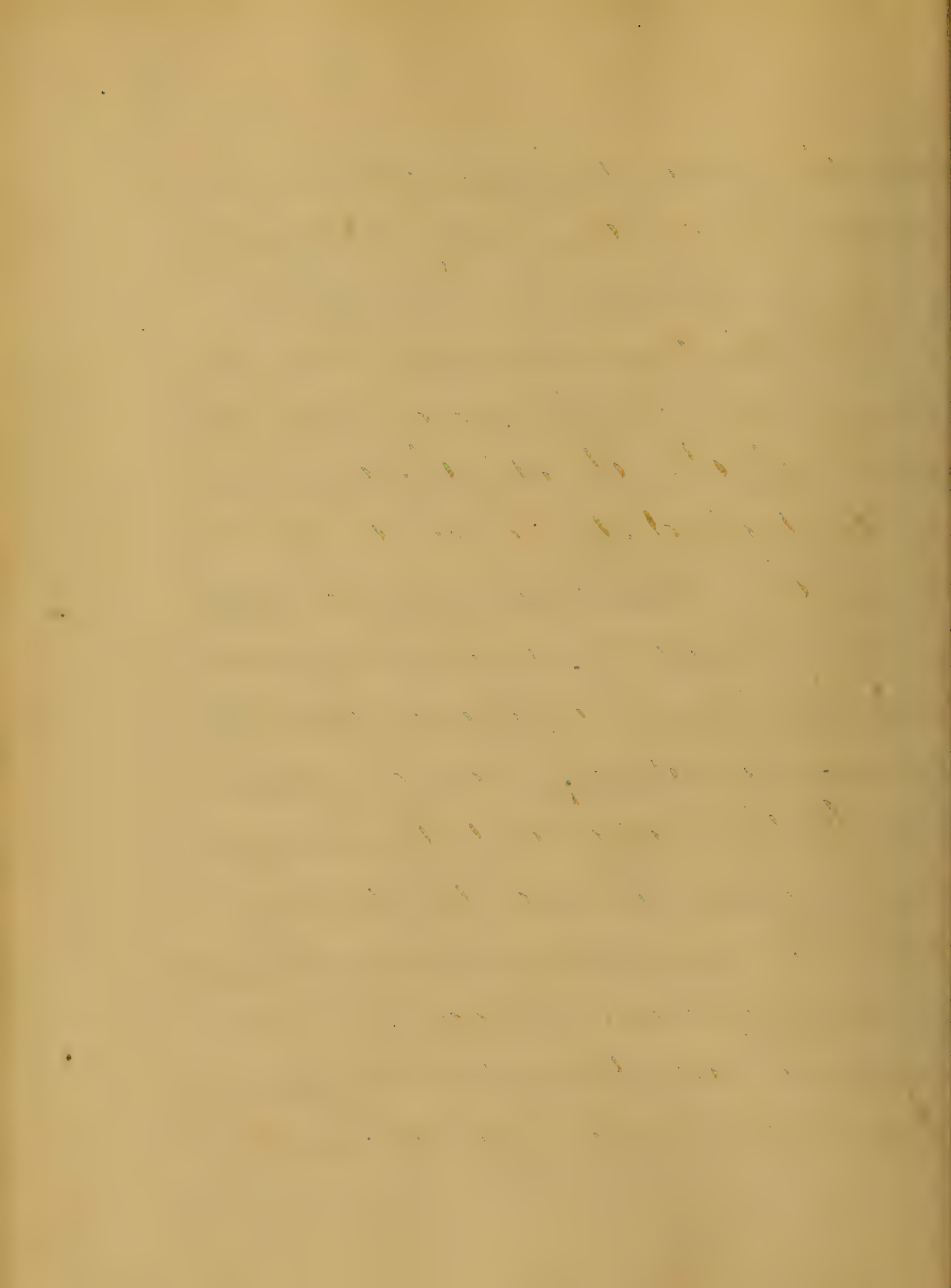
that it is true as to the infection, and
innumerable instances could be
cited in proof of its transmission
to remote and healthy sections from
an infected locality. Nurses and at-
tendants upon the sick, human in-
tercourse, the medium in clothing or
other articles - it is fair to assume
that bad hygienic conditions in cer-
tain localities, may so impress the
prevailing type, as to give rise to
cases of a very grave character,
even when, a mild Epidemic is
prevailing.

In ordinary cases, the Diag-
nosis is not attended with much
difficulty, the febrile, febrile -

the case - the possibility of a primary
to infection, the character and appear-
ance of the eruption on the 5th day,
the great increase of temperature, sore-
ness of throat, fauces, and character-
istic appearance of tongue, will enable
us to exclude Measles, Varicella, and
Roseola, when however an irregular
type presents itself, with absence of
the peculiar features, the diagnosis
becomes more difficult. In the early
stages, indeed in the exceptionally
malignant types, in which we find
the patient in a low typhoid con-
dition, when the poison seems to have
overwhelmed the Nervous System,
with no appearance of Eruption.

of the guiding symptoms, I should
shrink a diagnosis extremely difficult -
our chief reliance under these cir-
cumstances would be based on the
probability of exposure, coupled with
the suddenness of the attack and
its extreme gravity -

The Prognosis is usually
good in mild Epilepsies, which we
are bound not to forget that the
type of the Epilepsy may suddenly
change - that, at any given case
may suddenly occur - not only
this, but complications, may unex-
pectedly arise, while when taken in con-
nection with the well known sequelae,
sometimes following in the wake of



even the mildest form, all should
make us cautious in following the
issue.

In the Anginae variety, the prog-
nosis will be influenced by the con-
dition of the throat, the amount
of Central disturbance, the charac-
ter of the fever, and the occurrence
of complications, and must nec-
essarily be more guarded, as the
dangers are correspondingly increased.

In the malignant types, espec-
ially when a condition analogous
to Low's Systemic suppurations, the prog-
nosis is decidedly bad but few
occur under these conditions.

I have thus endeavored to give the

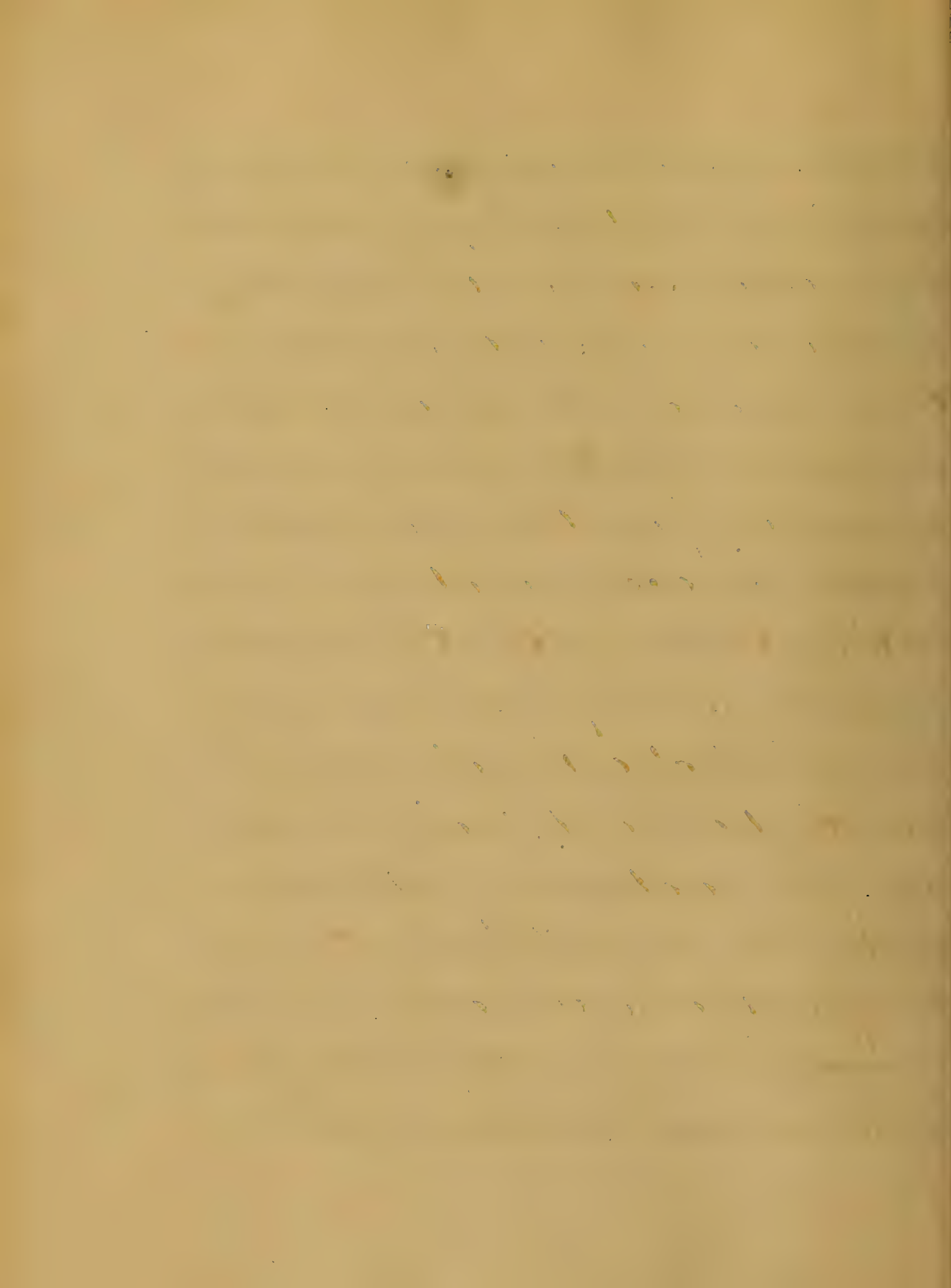
gone at outbreak of scarlatina.
I want discuss the subject yet
further by describing more minute-
ly morbid appearance, and the
application of Claude Bernard's
experiments on the anal sympa-
thetic nerve, in explanation of the
great elevation of temperature.
I cannot give the conflicting views,
as regards the specific nature of
Belladonna, - Swedish statistics
showing the greater frequency of
children, and diminished sus-
ceptibility, as age advances, point
out also the general immunity
secured by a single attack,
while at the same time we notice

The operation of the poison, during the
presence of an epidemic, or the pro-
duction of Sore Throat, & Scarlatina, & other
circumstances, in cases frequently, who have
previously suffered.

To analyze the subject
further would extend the article
beyond the limit assigned to a
review. Hence I will give only a
description of the more frequent
complications, and sequelae,
and conclude with the treatment,
for, after all this business, the
most interesting question to a
"Minister of the Healing Art" for
very appropriate is the language
of an old Practitioner—

1st "What is the disease, 2nd What is
good for it." Among the most important
Complications may be mentioned
Convulsions, renal diseases, and
Haemuria, Haematuria, and inflam-
mation of either the viscera or the
serous Coverings - sometimes Rheu-
matism, and Extensive Enlargement
and inflammation of the Cervical glands
(Scrofulous Buboes as named).

The most serious Complication is
Uræmia, the presence of which
would be suspected by the occur-
rence of Convulsions, delirium, and
Coma, with embarrassed respiration
occurring without disease of lungs
or Bronchia, Cephalalgia with -

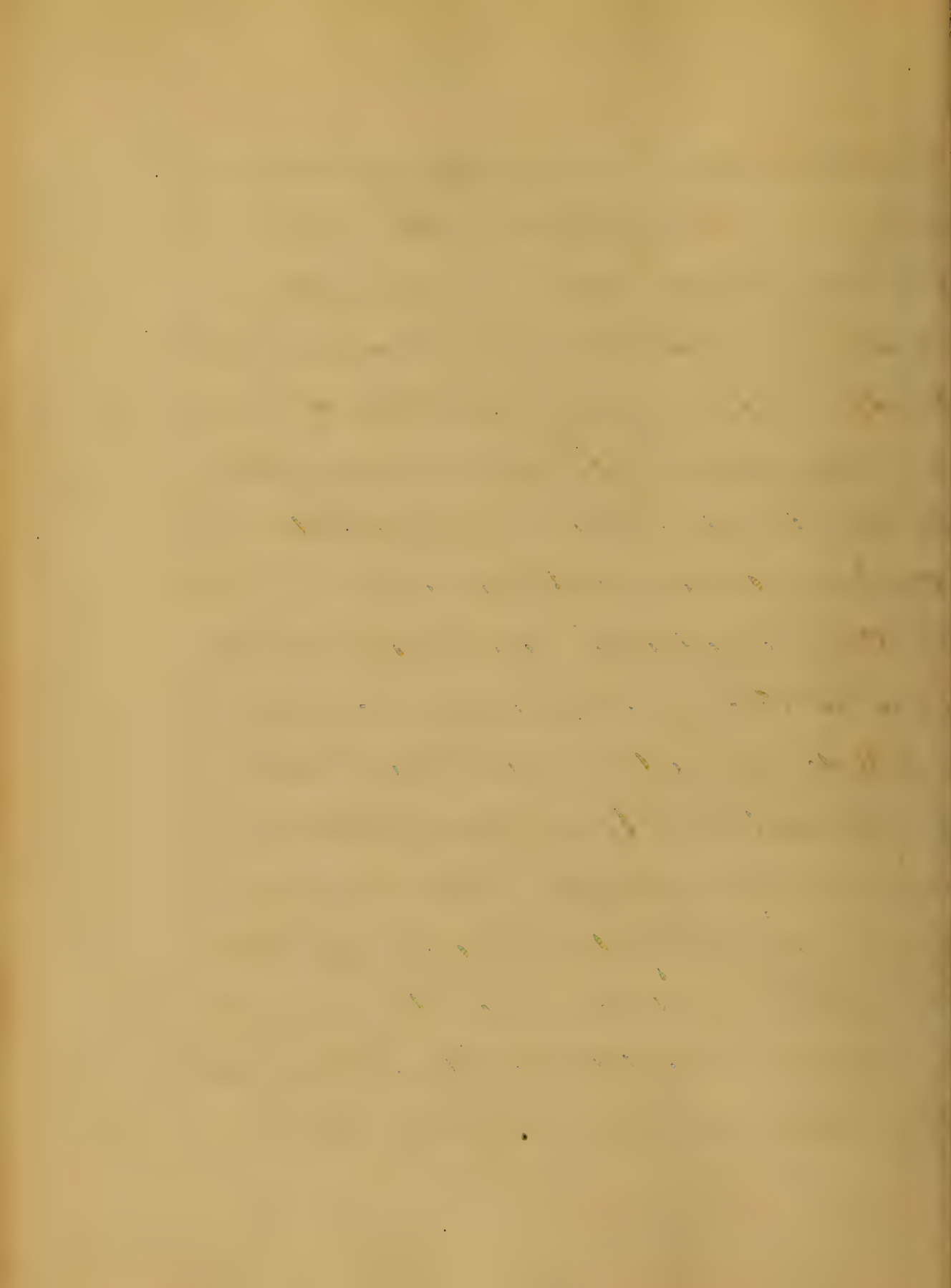


involving or diarrhoea, and a considerable amount of urine with low specific gravity. As regards sequelae, the most conspicuous and serious is anasarca, with Albuminuria, not only as regards immediate effects, but it may embarrass the ^{ly}function of internal organs by accumulation of fluid within the serous cavities, but also in view of its dependence on renal trouble, which although most frequently transient, may yet lay the foundation of future chronic trouble, and terminating in Bright's Kidney disease.

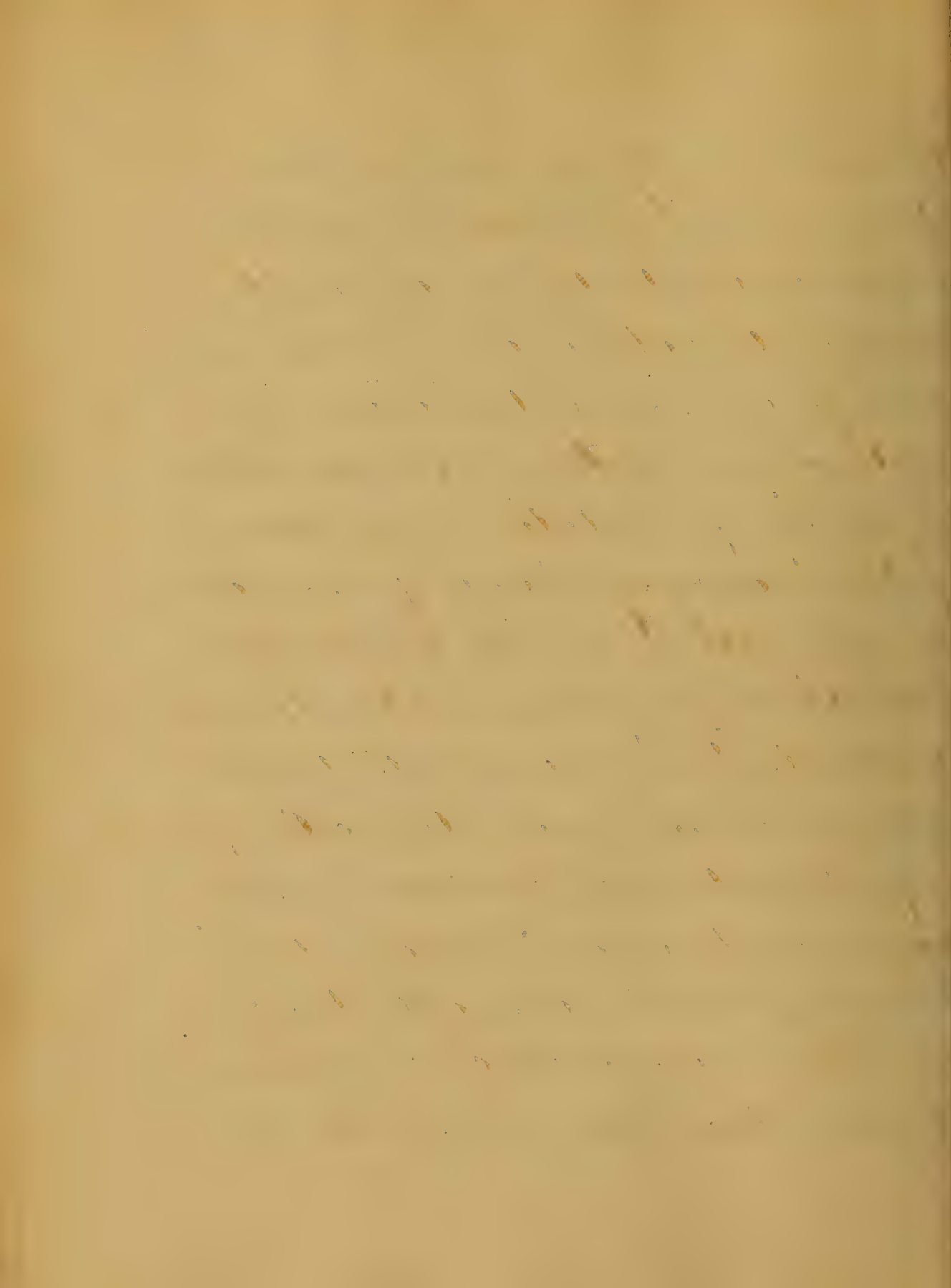
Treatment of mild forms of Catarrh, vesicles, etc., of the urinary

watching its progress, and abstain-
ing from active medication, and a
suitable measure may be resorted
to - well ventilated apartments -
the exhibition of cooling acid drinks,
gentle saline diaphoretics, keeping
limbs in a relaxed condition and
light unstimulating diet -

In the more active grades, in addi-
tion to these measures, we either
sponge the body with cold water
to reduce the high temperature, or
recort to cold affusion, or what is
now preferable the "wet pack", wrap-
ping the patient in a wet sheet
and covering with blankets, repeat-
ing these means as required. -



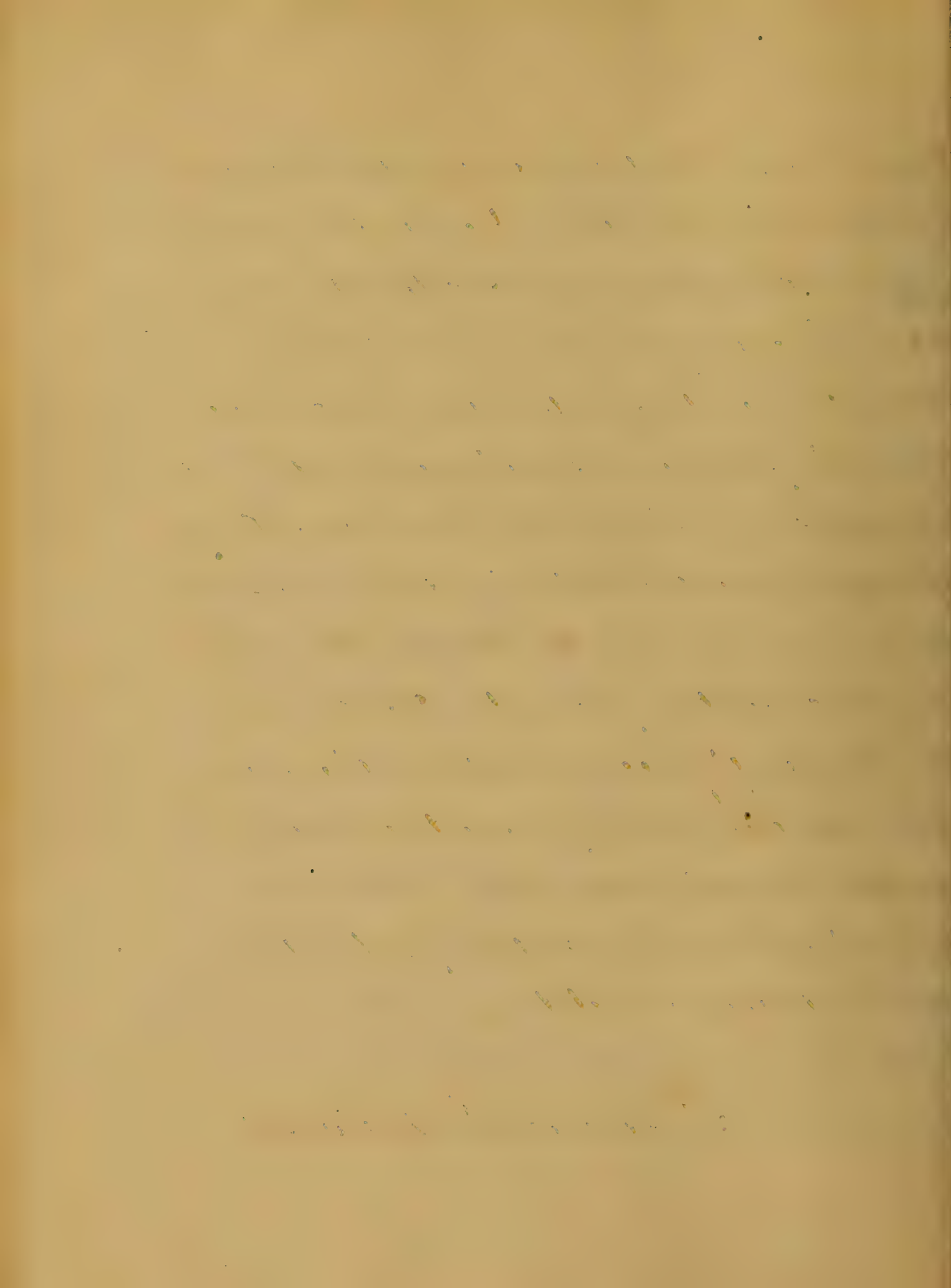
If the throat is seriously affected,
the exhibition of Potassa Chloride, in
quantity with ice given, and likewise
we also use gargles of some disinfectant
tants, in the event of its conditioned
appearance of throat, such as Chloro-
Potass solution, with the addition of
Carbolic Acid and Glycerine, or solution
of Chlorinated Soda, or Ferric
Potass &c. if delirium occurred
while temperature was high, ice
applications to head, and
while if prostration occurs, with
Typhoid symptoms - quinine, Carb
Ammonia, and Alcoholic Stimulants
should be substituted, and Animal
Bros given, if Convulsions or other



Central symptoms should present
themselves, I would make careful
inquiry as to the renal function,
and if the threatenings of Uræmia
were plain, seek to ward it off by
exciting free action of the skin, and
absolute rest, forcutaneous emphysema
of the kidneys, which if present and
pronounced, I would give Elixation
with the hope of Elimination through
the bowels. These means with the Ex-
siccation of the Bronchides, Aqua Camphora
or preparations of Belladonna. Hy-
peræmias, to allay morbid irrita-
tion - to relieve draughts, to allay
nausea, Embrace the chief indica-
tions of treatment, while the -

Empirical treatment should be treated
as they arise according to the estab-
lished rules, not forgetting the fact,
that we must avoid such a treat-
ment as might conflict with the pro-
per course of the disease, for as Traverser
observes it has a determinate course
to run, which should not be marred
by unnecessary interference—
during convalescence an important
point consists in the avoidance
of Exposure until desquamation
is completed—during and prior
to this period a very important
item of treatment consists in an-
nointing, the surface with
lard or oil—it allays the pruritis,

and I have heard it said, that
patients so treated, were not so
liable, to subsequent anasarca,
In the malignant typhus, the
indications, are, to support, the
powers of life, when yielding by
keeping up external warmth, and
the administration of stimulants,
quinine, and Concentrated broths,
giving such attention, to the
throat, as is required, Among
the sequelae, the most frequent
is, albuminuria, rich & profuse,
which is, to be treated, by such pur-
gatives as excite serous discharges,
Elateium, Bi Part. Potassa, And a
later period, when we have no means



to suppose, that, the kidneys are engaged
almost to ordinary diuresis, alternated
with such measures, as excite cutaneous
action, for example hot air bath or vapor.
Otitis, degenerating into a chronic charac-
ter, with purulent discharge, together with
enlargement of the submaxillary, and parotid
glands, frequently follows in the water-bath
inflammation of, the serous coverings,
as pericarditis, pleuritis &c, are not
unfrequently seen. Each of these de-
mand, an appropriate treatment,
suited, to each case, but of course
modified, to meet, the patient's
debilitated condition.

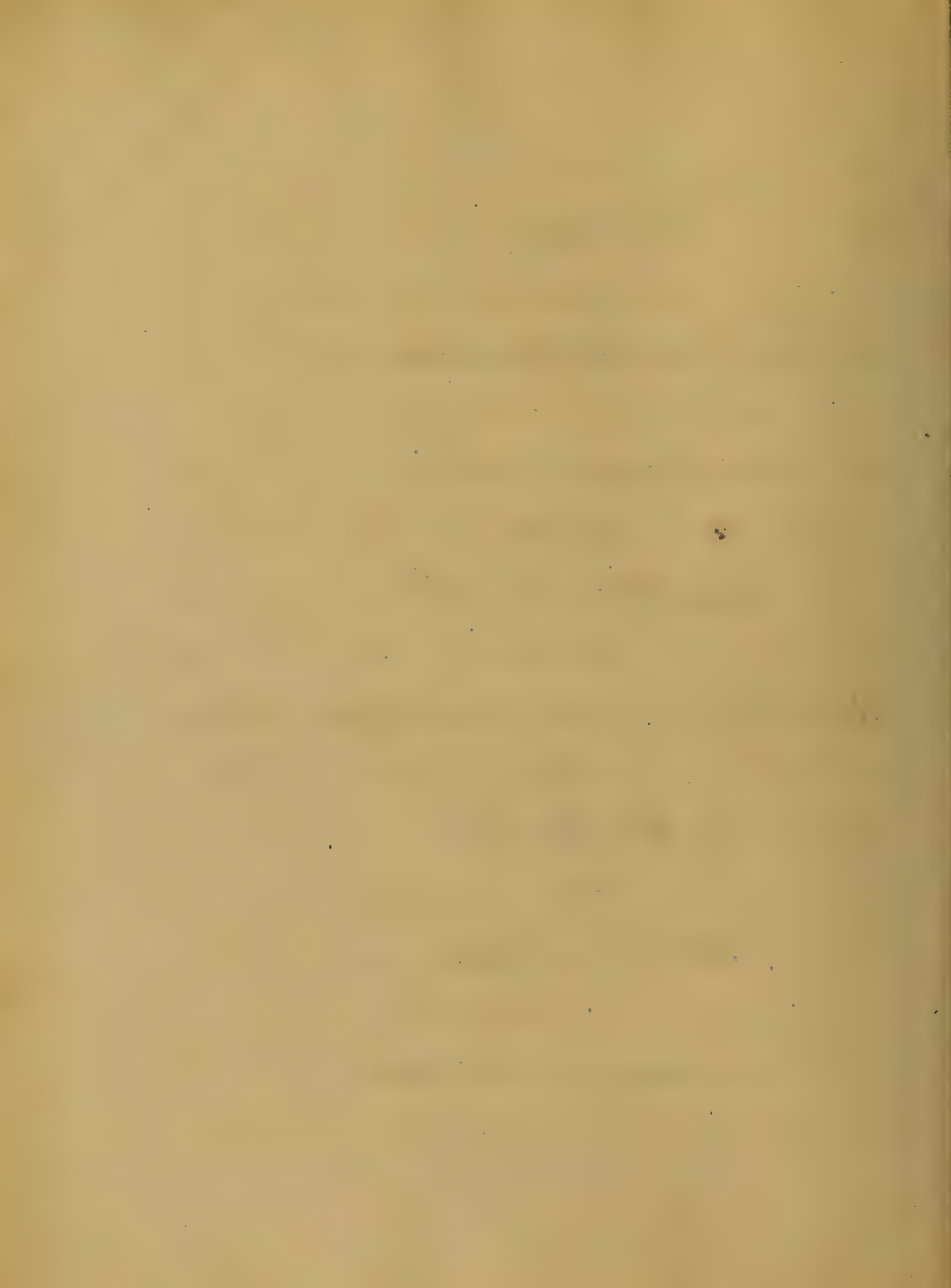
Frederick G. Mitchell,



A Thesis
on
Puerperal Septicæmia.

Respectfully submitted
to the
Faculty and Provost
of the
University of Maryland Medical School,
by
J. E. Cowles,
of
North Carolina.

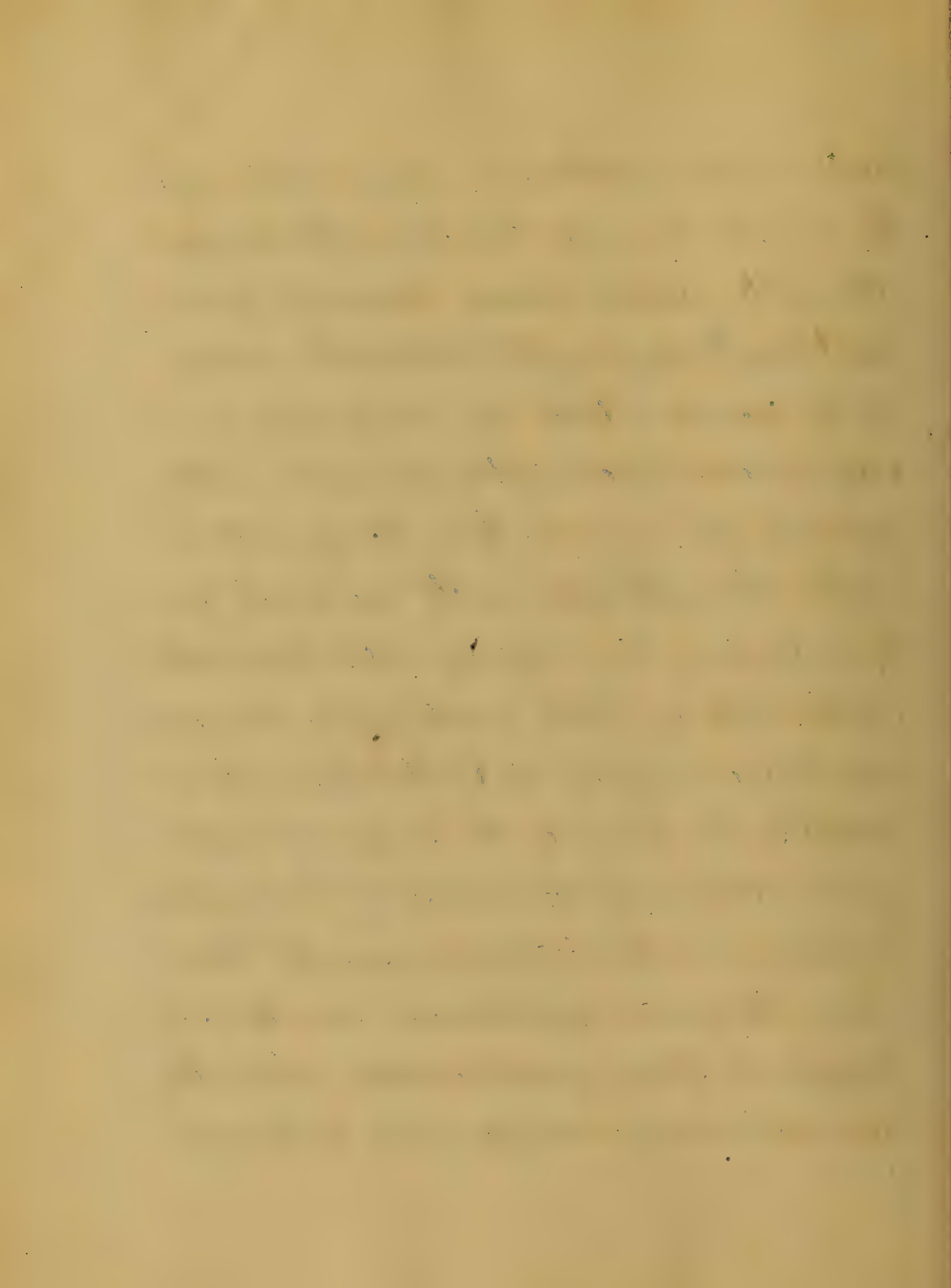
Session of 1879-80.



From a review of the most modern literature upon the subject, I would thus define this disorder:-

An acute febrile disease, occurring from one to eight days after childbirth, usually on the second or third day, nonspecific in origin, due to absorption of Septic matter, generally from some part of the generative tract & characterized in its malignant form by a tendency to a rapidly fatal termination.

In the light of recent investigations, it would seem that a majority of Obstetricians have accepted the theory of the nonspecific nature of this disease & its similarity to surgical Septicaemia, giving preference to the name Puerperal Septicaemia, over that of Puerperal Fever, formerly used, which they urge, with reason, would imply a specific



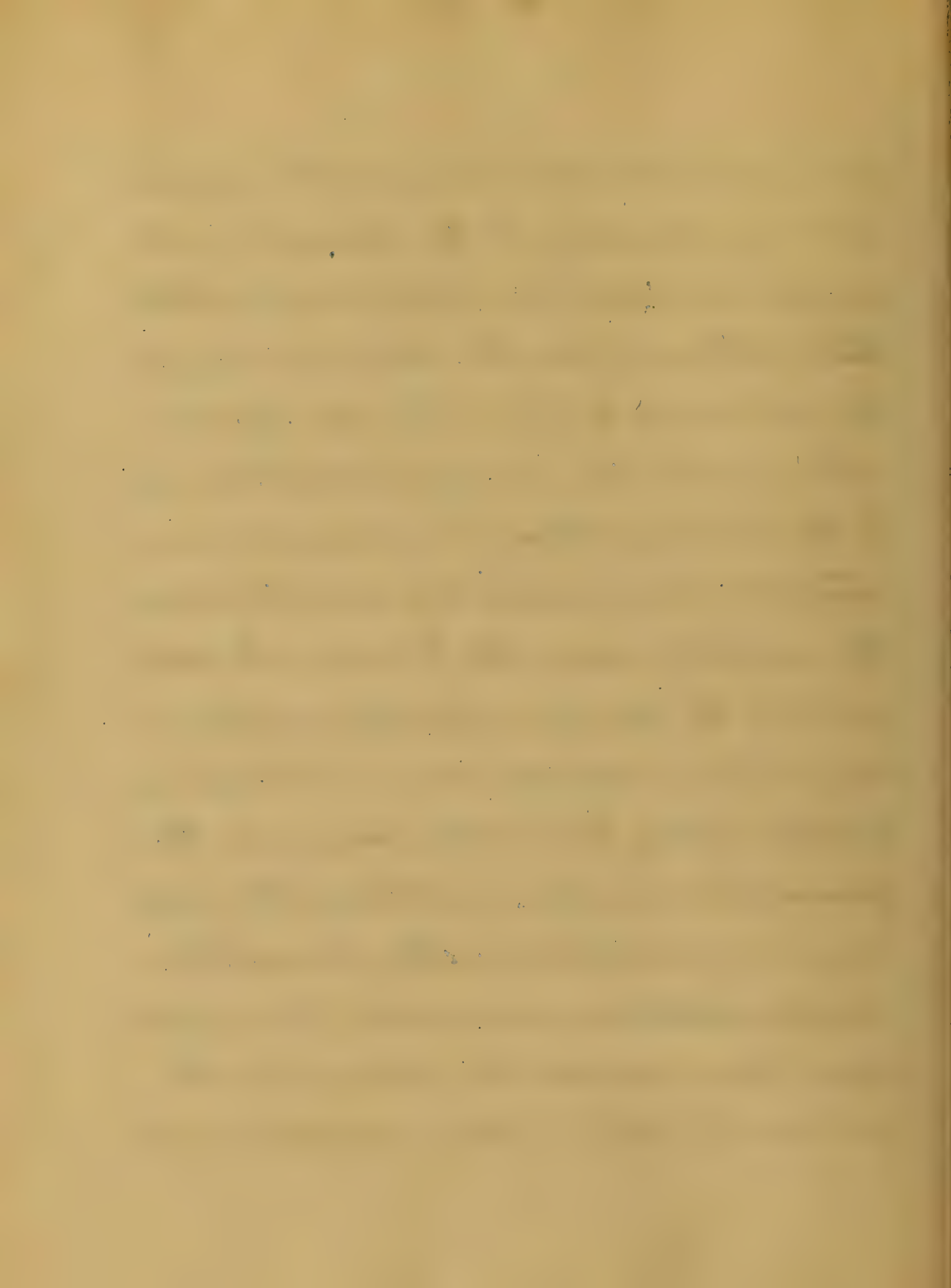
character, similar to that of Zymotic diseases.

There are, however, not a few, who believe that it is an "essential zymotic fever, peculiar to, & attacking only puerperal women & which is, as specific in its nature, as Typhus or Typhoid & to which the local phenomena, after death, bear the same relation that pustules on the skin do to Small Pox or the ulcers in the intestinal glands to Typhoid Fever." The most prominent exponent of this view, on this side of the Atlantic, is Prof. Fordyce Barker, who disposes of the self-generated variety of the disease, by calling it Simple Septicæmia.

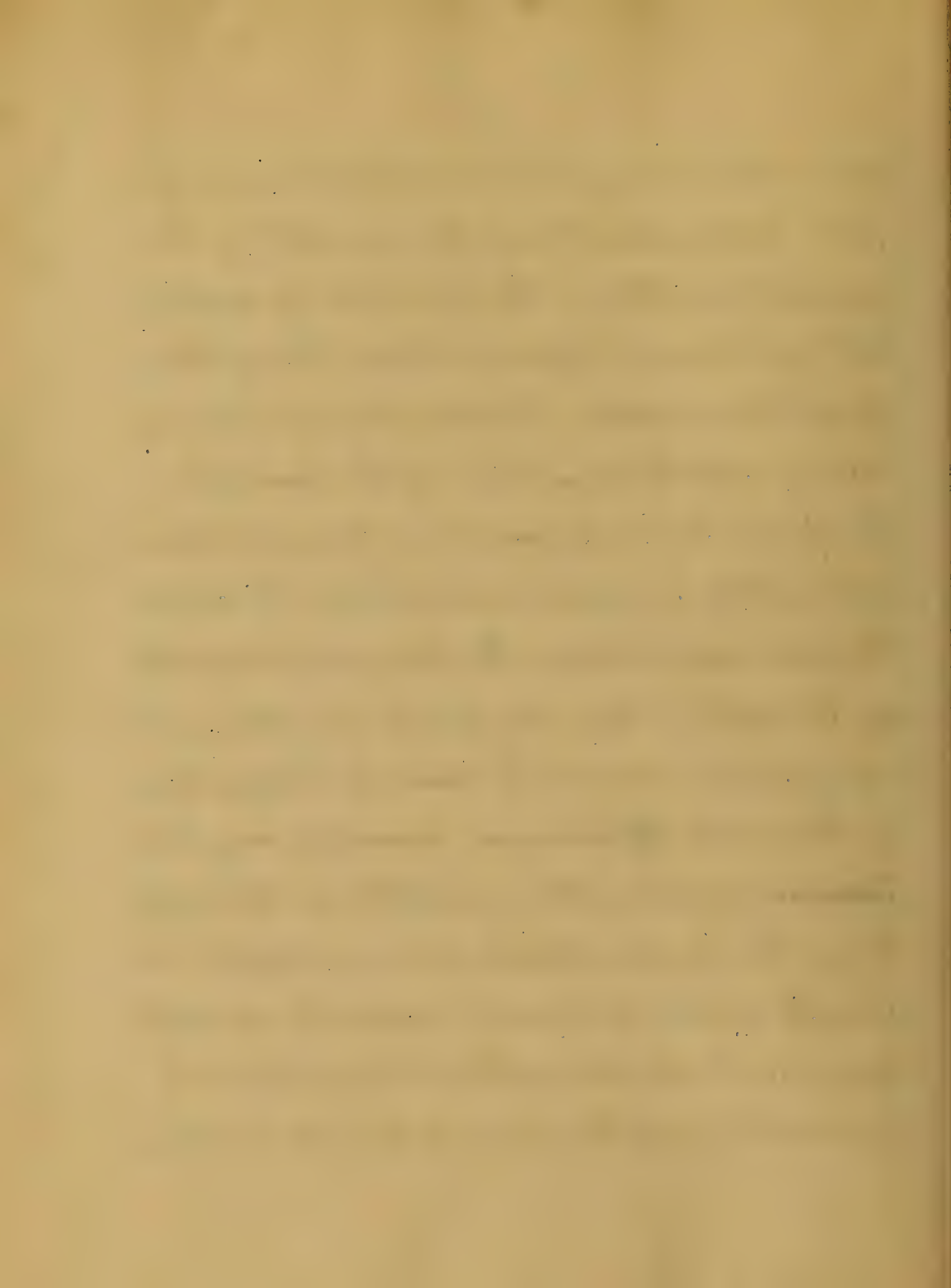
The disease may arise in 2 ways: First, as just hinted, by auto-genesis, that is to say, where the poison is produced

within the patient, from decomposing placental
 -al fragments, clots, foetal remains &c, in
 which case, absorption wd be likely to
 take place, from the placental site of uterus
 or a laceration of the cervix: Secondly by
 Heterogenesis, where the septic matter is in-
 -troduced from without, being conveyed usual-
 -ly by direct contact from medical attend-
 -ant or nurse, more rarely from bedclothes
 or other material + sometimes, doubtless,
 from the air itself, absorption taking
 place at any solution of continuity along
 the vulvovaginal tract or possibly from
 the unbroken vaginal mucous membrane,
 as in certain cases occurring before delivery
 takes place. As in a healthy individual up-
 -on the introduction, into the system, of any

foreign substance, the violence of the symptoms will vary according to the character of the poison introduced, so in the puerperal state, that obtained from the cadaver, being of the most virulent type. This was specially noted in the Vienna Lying-in-Hospital, where in the division attended by medical men & students, who frequented the dissecting rooms the mortality amounted to one in ten cases, while in the division attended only by women, it never exceeded one in 34 cases, immediately falling to the latter figures, in the former division, upon instituting the proper use of antiseptics & other precautions. Numerous instances are on record where physicians have carried the poison from the post-mortem table to their next confinement

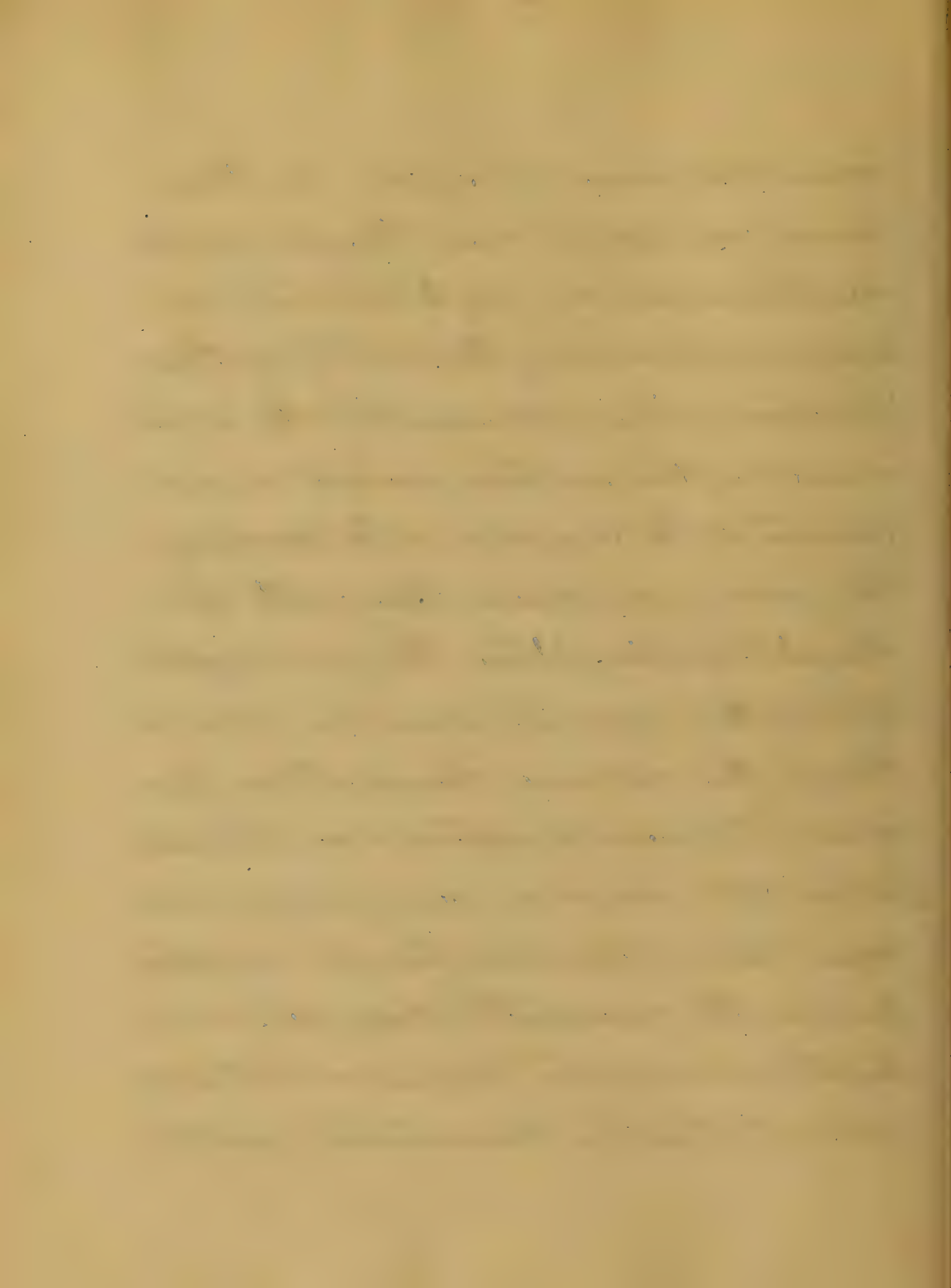


cases, which many times eventuated in death from Septicaemia, hence the necessity of the greatest precautions + the free use of antiseptics after such exposures, before taking charge of a labour case. Another class of poisons, causing all the symptoms of the so-called Puerperal Fever, is found in Zymotic diseases, notably Erysipelas, Scarlatina, Variola &c. In such cases, whether the specific poison sets up a metritis, then absorption of inflammatory products + so on to cause a simple case of Puerperal Septicaemia, as would any non-specific septic matter, or whether on the other hand, the specific disease is so modified on account of the puerperal condition, as not to give rise to its characteristic symptoms + to be indistinguishable from a simple Septicaemia.



-ic attack, being nevertheless the special Zymotic disease, slightly modified but capable of reproduction with its characteristic symptoms, in a nonpuerperal subject, doesn't appear to have been conclusively determined. Dr B. Hicks reports seventeen cases with all the symptoms of Puerperal Fever, clearly traceable to the contagion of Scarlet Fever, which Playfair is inclined to cite as modifications of the latter, mentioning also a case in his own practice, in which a lady, a few days after delivery, had a serious attack of Septicæmia, without Diphtheritic symptoms, her husband, at the same time, being attacked with Diphtheria of a most marked type. Here the two attacks were probably dependent upon the same *Materia Morbi*.

Again, the poison of Erysipelas has been known repeatedly to cause Puerperal Septicæmia, the woman dying of it + her babe of Erysipelas. If we deny the identity of these two diseases, it would seem that the Septicæmia, in this instance, was but a modification of the Erysipelas, still possessing the power of reproducing itself with its characteristic symptoms. Playfair suggests that if the zymotic poison be absorbed through the ordinary channels, it may produce its special symptoms + run its usual ^{course} as has often been observed in puerperal women. While if absorbed through any abrasion in the generative ^{tract}, it may act more directly as a septic poison, or with such intensity that its characteristic symptoms

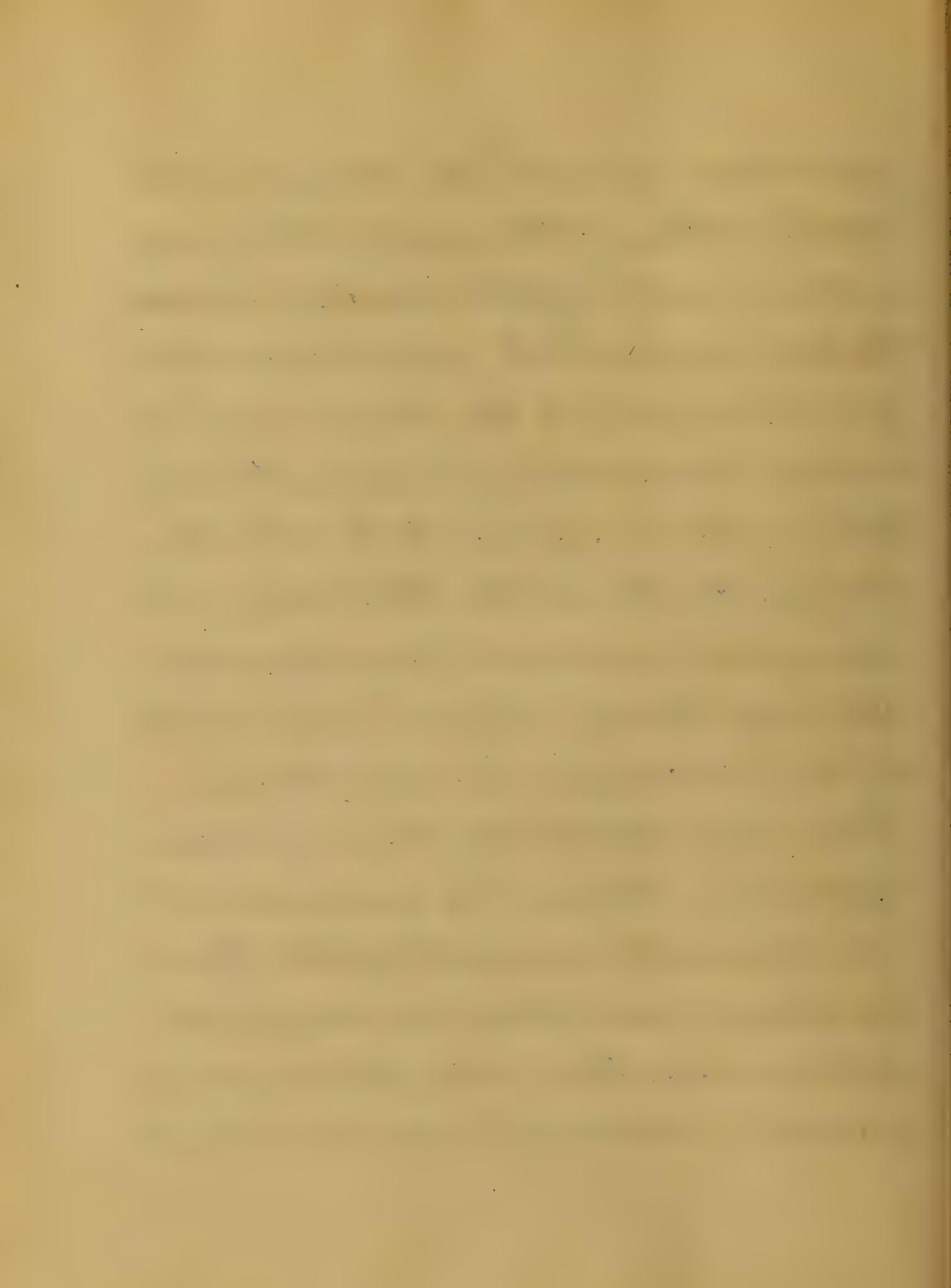


are not developed. That still leaves the main point an open question, & until we have positive proof, that Puerperal Septicæmia, traceable to Scarlatinal or other Zymotic poison, as cause & effect, is incapable of reproducing that specific disease from which it was derived, we should certainly not neglect proper precautions and preventive means. As to the nature of the Septic poison we know nothing of certainty. By microscopical examinations pathologists have found bacteria in the veins, lymphatics & various organs of many women dying of this disorder: But whether they are the poison or merely carriers of it or yet have nothing to do with it, is a problem still unknown.

Probably the most-common channel of absorption is through the lymphatic system, as seems proven by the occasional arrest of the poison by the glands & its prevention from getting into the general circulation, as in Phlegmasia Dolens &c.

The post-mortem appearances are very variable. In the most intense & rapid form of the disease, no appreciable local changes may be observed: though it is evident, that in such a vital derangement of the whole system, serious morbid changes must have taken place. In cases of the most malignant type, Dr. Lepeland observed at post-mortem examinations, a peculiar faint odor, a very dark hue & a want of proper coagulability of the blood, the clot forming a large, loose,

gelatinous mass, with the coloring matter at the bottom of the vessel, in the form of a dark brown precipitate-like coffee-grounds. He also remarked that when leeches which had been applied to the abdomen, were removed, it was with great difficulty + sometimes almost an impossibility, to stop the bleeding. He observed too, that ecchymoses were found in various organs, especially the lungs, kidneys + spleen. More recently the microscope has revealed in those cases cell disintegration + granular infiltration, showing the commencement of inflammation in most of the tissues. In ordinary cases lesions are conspicuous and numerous. There will often be found ulcerations and sometimes gangrene about



any abrasion of the generative tract. Inflammation of serous membranes, of the lung, eye or any tissue of the body may occur. Therefore this disease is liable to many complications, the most frequent of which is Peritonitis. To such an extent is this present, that with some practitioners, Puerperal Fever & Puerperal Peritonitis are almost convertible terms.

Among other complications may be mentioned Pleuritis, Pericarditis, Pneumonia, Phlebitis, Lymphangitis &c. modifying the symptoms as they are one or severally present.

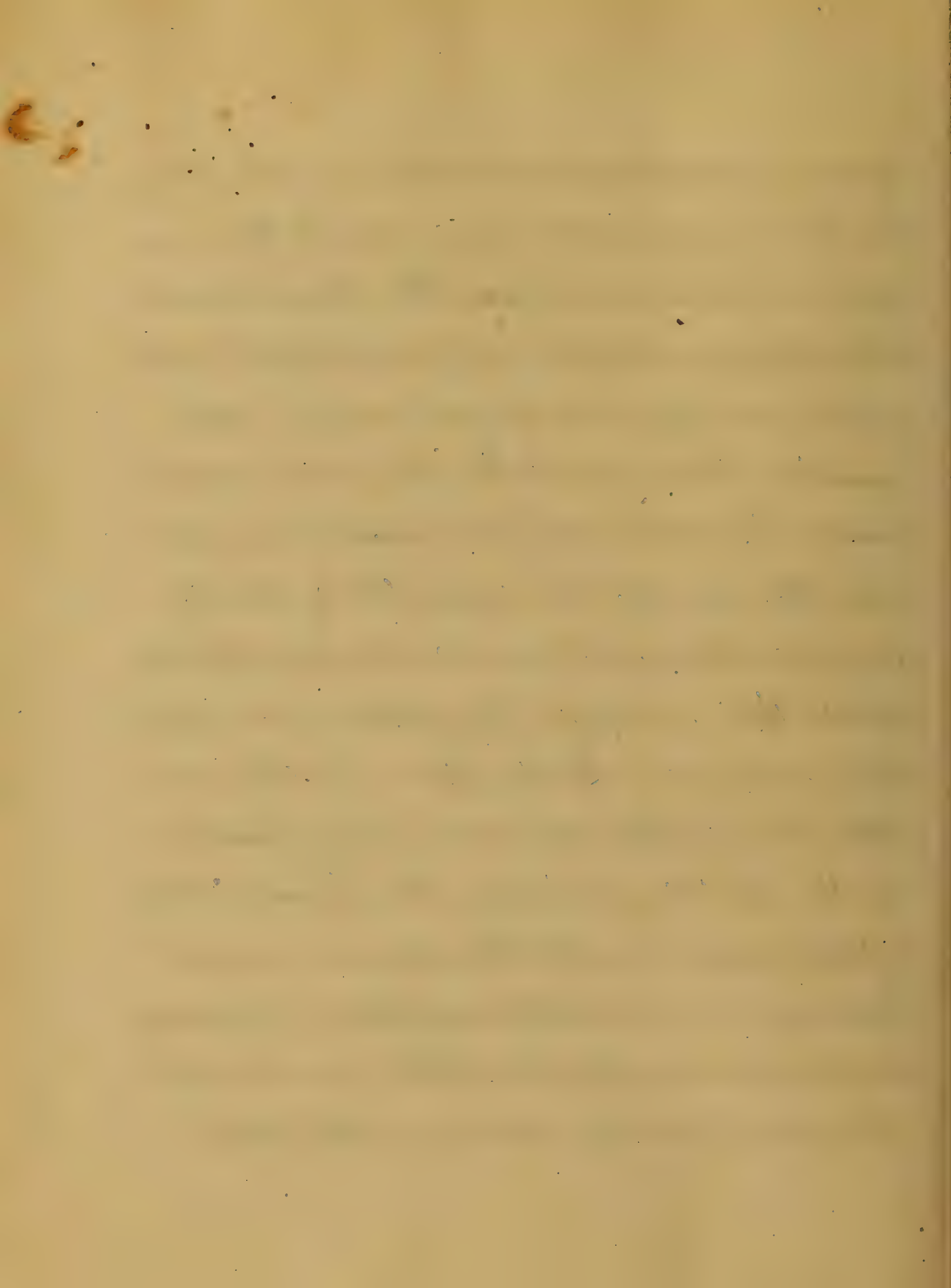
Symptoms: The disease is generally ushered in with a rigor, the violence of which is not at all in proportion to the intensity of the disease. There is a feeling of great depression, accompanied with headache & uneasi-

-ness at the præcordial region. The pulse is rapid, being from 120 to 150 beats per minute, & compressible, and the temperature high, ranging from 102 to 105°F. The intelligence, as a rule, is unaffected, although there may be low muttering delirium in the worst cases. The countenance is sallow & haggard, wearing an anxious expression, as of impending calamity. The skin is usually hot & dry, becoming, as the case approaches a fatal termination, cold, damp & clammy, the tongue at the same time changing from its moist coated condition, to a dry & dark state. Diarrhoea and vomiting are not infrequent, the former being sometimes profuse and uncontrollable & the vomited matter being of a dark coffee-grounds color. The lochia are

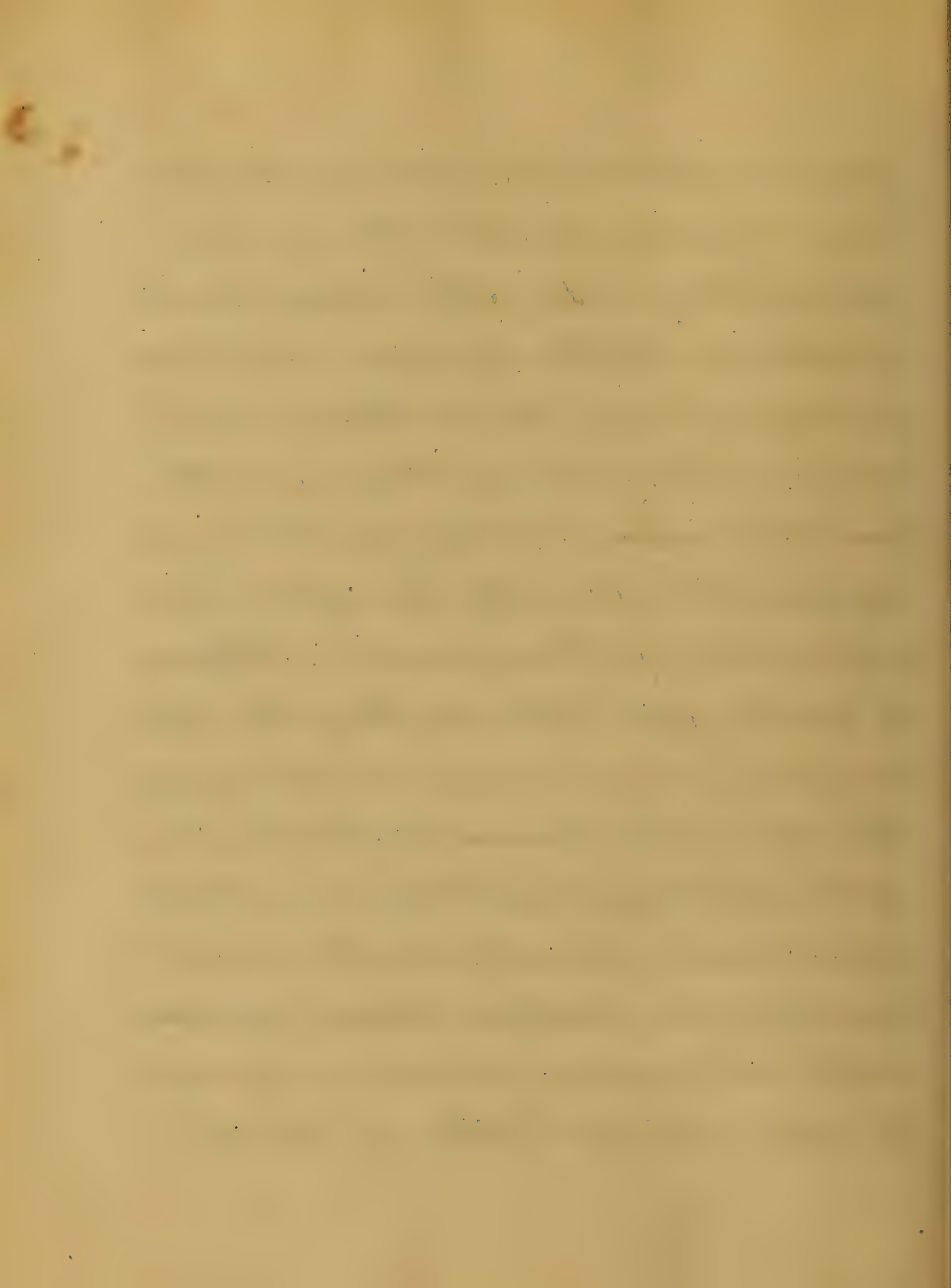
generally suppressed or if present are highly offensive or purulent where there is marked metritis. The breathing is hurried & panting & the breath itself has a peculiar, sweetish odor, very characteristic of Septicaemia and often likened to the smell of new mown hay. At the onset of the attack there is usually a vague sense of pain in the hypogastrium, which, if Peritonitis supervene, is rapidly increased to positive agony, the patient lying with her limbs drawn up & screaming at the slightest touch of the bedclothes. This condition should not be mistaken, as its treatment differs very much from ^{that of} Acute Tympenites or False Peritonitis, which closely resembles & is apt to be confounded with it. As before stated these symptoms may be

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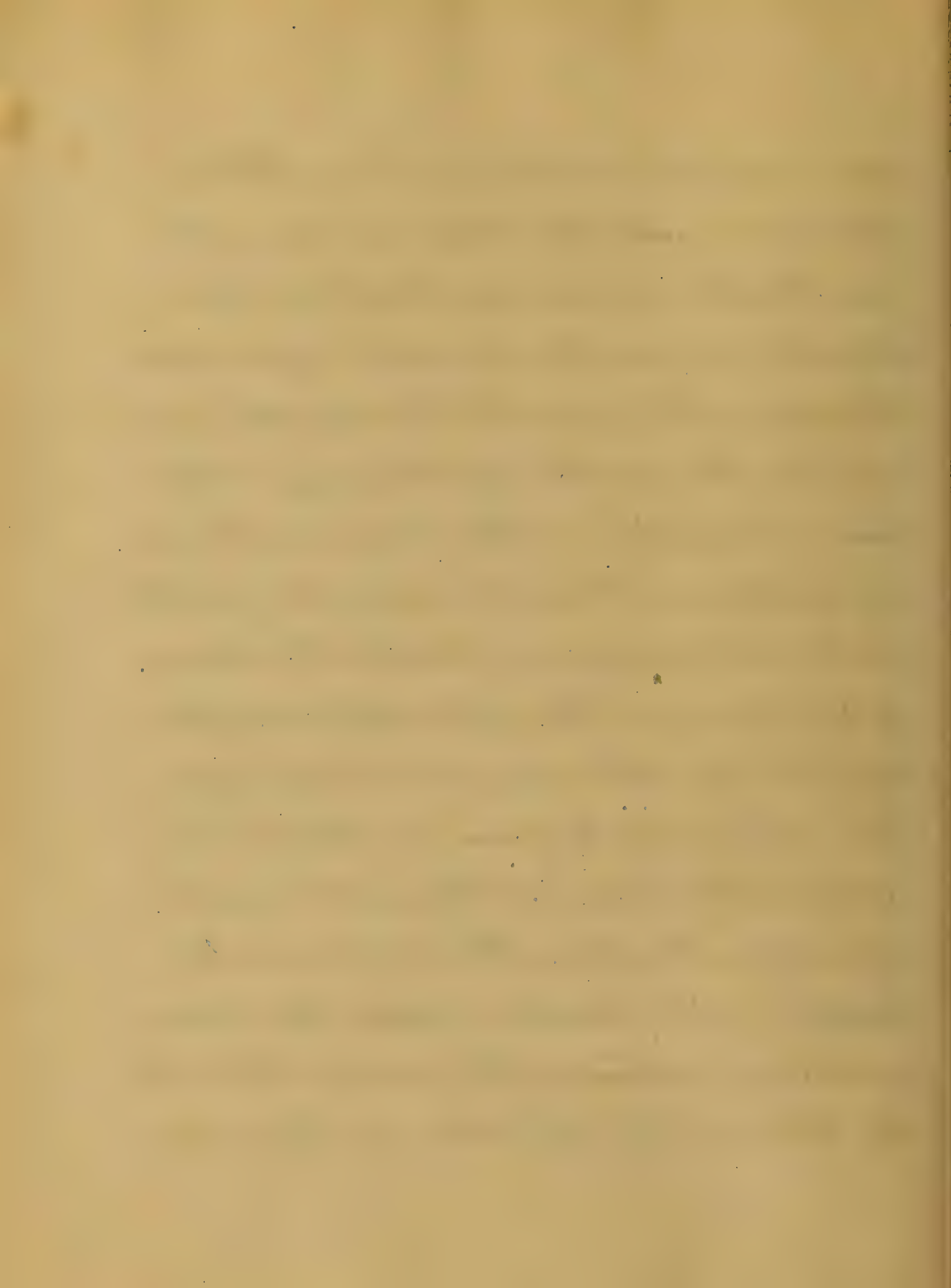
modified & combined with others on account of the local complications giving rise to their own special symptoms & signs, thus Pneumonia would add dyspnoea, cough, rusty-colored sputa, dullness on percussion over lungs & increased vocal fremitus, Pericarditis & Pleuritis would each be marked by its characteristic friction murmur and other peculiarities, Nephritis by scanty urine containing albumen, casts & disintegrated blood, thus multiplying symptoms as complications arise. — Treatment. — In this as in all other fatal maladies, prophylaxis is of the first importance. As blood deterioration predisposes to this disease, marked hydraemia, in the latter months of pregnancy, should be counteracted by the free use of Iron, combined if necessary with tonics.



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A generous diet should also be ordered & excess of fibrin reduced by the use of vegetables & their acids, with a proper amount of exercise. Mental depression, a well known predisposing cause, should be overcome by change of scene, cheerful company or other available means. An offensive uterine discharge is to be corrected by injections of a weak solution of Permanganate of Potassium or Carbolic acid. Above all things the most scrupulous care of avoiding all risk of infection, should be observed by the accoucheur. He should therefore omit being present at all autopsies &c. Specially where the subject has died of any contagious disease and contact with cadaveric poison from any source should be followed by thorough ablutions

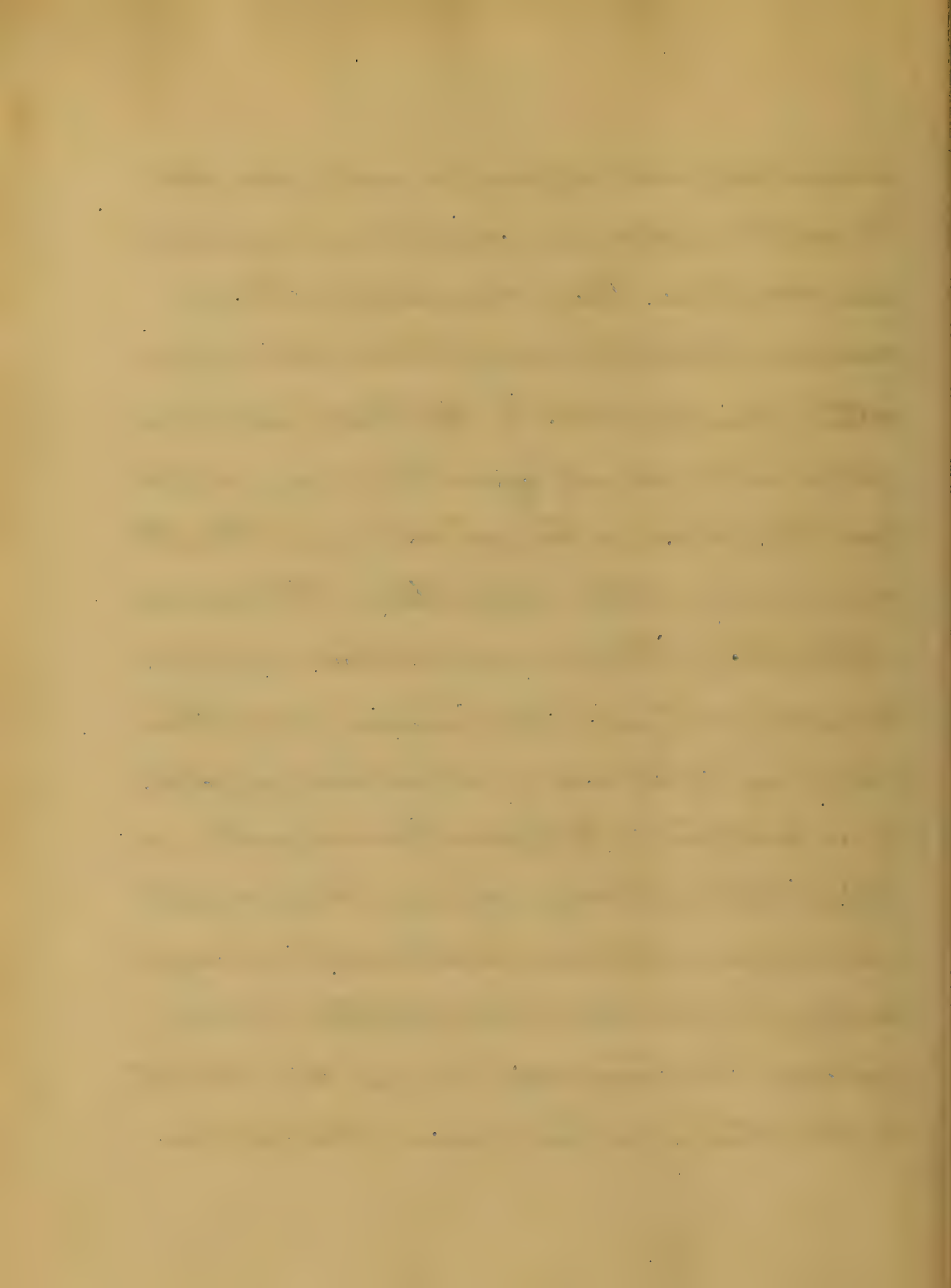


with antiseptic solutions. It is stated upon good authority, that no one who has attended a case of Child-bed Fever, should perform the functions of an accoucheur, until a month has elapsed, and not even then, until after thorough cleaning & disinfection. After diagnosing Puerperal Septicæmia, the first indication for treatment is to discover, if possible, the source of the poison, whether it be auto- or Hetero-genetic. In either case intrauterine injections, when properly given are likely to be followed by none, but the best results. Specially is this so in the self-generated variety of the disease. Indeed this means is so highly esteemed at present, that at the late meeting of the American Gynaecolog-

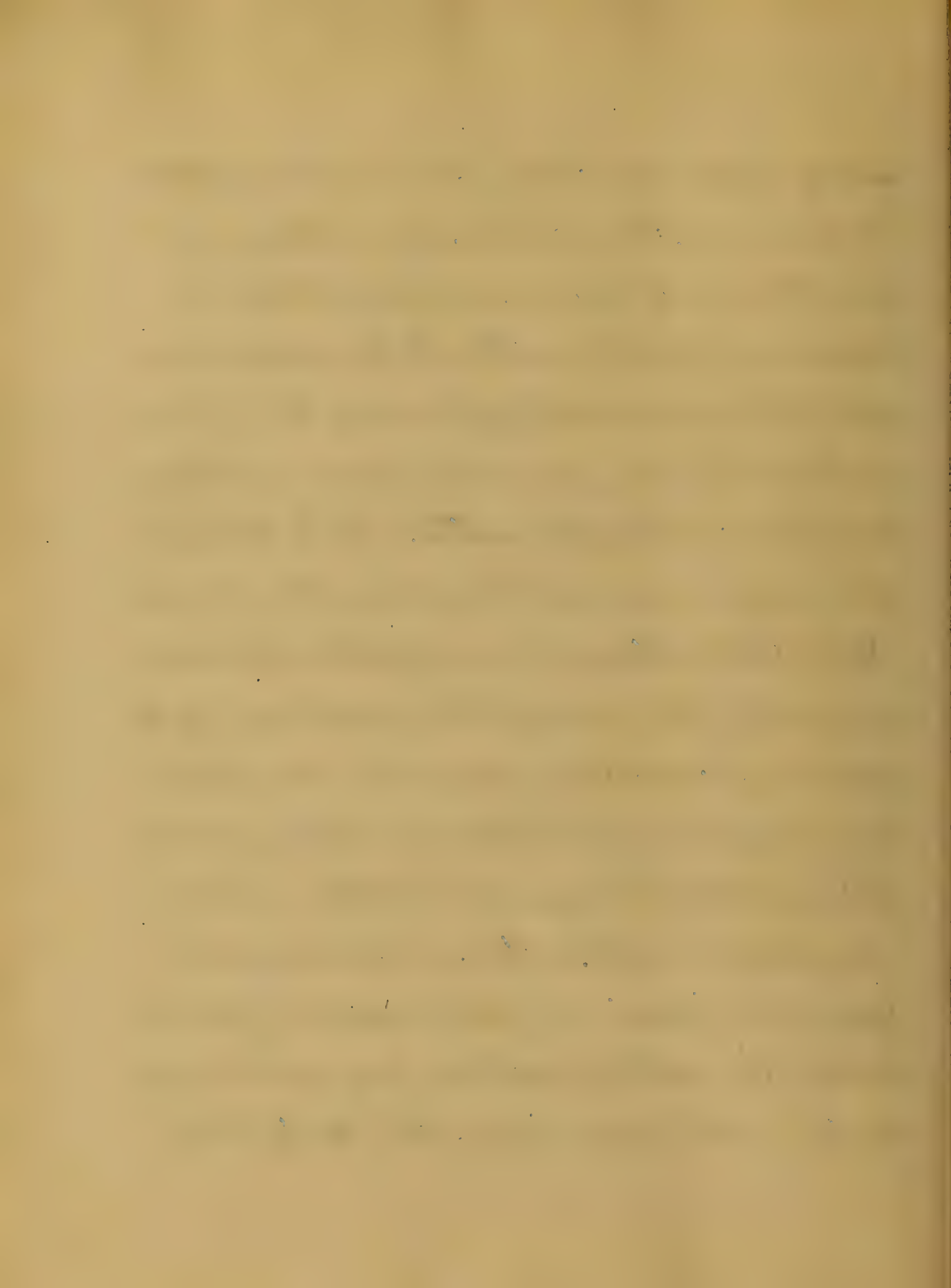


ical Association in this city, its President Prof. J. G. Thomas, than whom I could cite no higher authority, stated, that he considered intrauterine injections our great sheet-anchor in the treatment of Puerperal Septicæmia. Quite a number of the most prominent members of that learned & practical body of men spoke in like terms of the method, in fact all who had anything to say on the subject, with a single exception. I refer to Prof. Barker, who accorded to the means only his partial support. He stated, nevertheless, that he thought intrauterine injections very valuable, in a limited number of cases & that by this means alone, he had several times markedly & permanently reduced temperature. In one case he cited, the

temperature was rapidly lowered from 105 to 103°F, pulse from 160 to 120 + respirations from 44 to 20. Prof. Thomas also cited a case, in which they brought down the temperature from 107 to 103°F. He thinks more benefit is to be derived from their early use, before the poison is transferred from the uterine cavity to the lymphatics. At this same meeting Dr J. R. Chadwick of Boston reported five cases of Autogenous Septicæmia, all of them recovering by the use of intrauterine injections of a solution of Potassium Permanganate, no definite strength being required. A few crystals are dropped into warm water until it acquires a deep purple color + the solution is ready for use. Dr Chadwick prefers this solution to all others, for two reasons, besides being



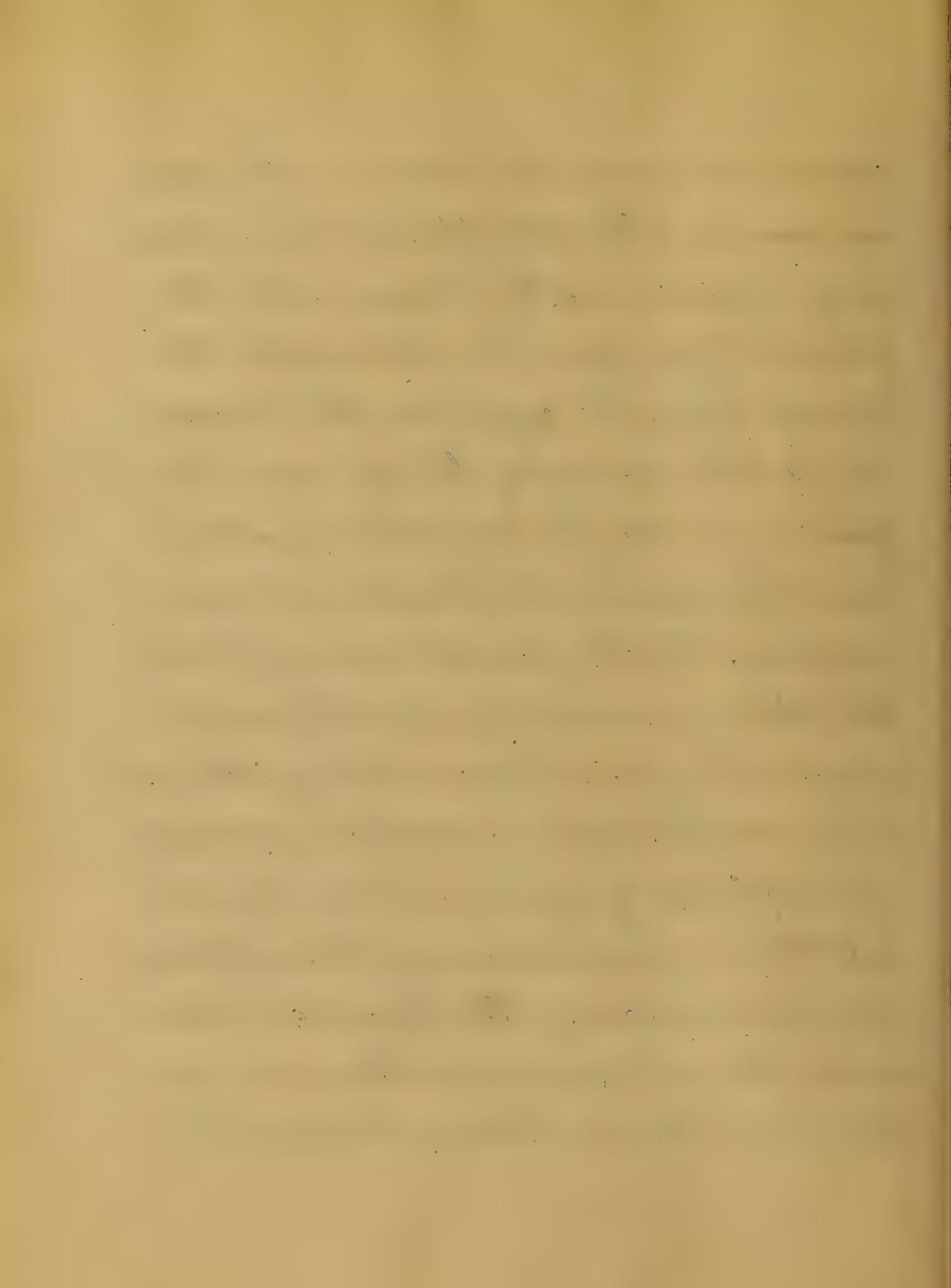
equally efficient with any known disinfectant, it gives valuable evidence, by a change of color to a dirty yellow, so long as there remains any putrid matter to be rendered inert. It is also astringent & may thus prevent the tissues for a time from further absorption of septic matter. Dr E. W. Jenks of Chicago in a recent paper on this subject states that intrauterine injections should invariably be used, if there exist any of the following conditions: (a) If there is a premature separation of the lochia with any constitutional disturbance: (b) If there exist a purulent or fetid uterine discharge: (c) And when there are good reasons for believing the uterus contains fragments of placenta or clots & is imperfectly contracted.



He also states that they should be more generally used, than heretofore, in the prevention & treatment of puerperal diseases.

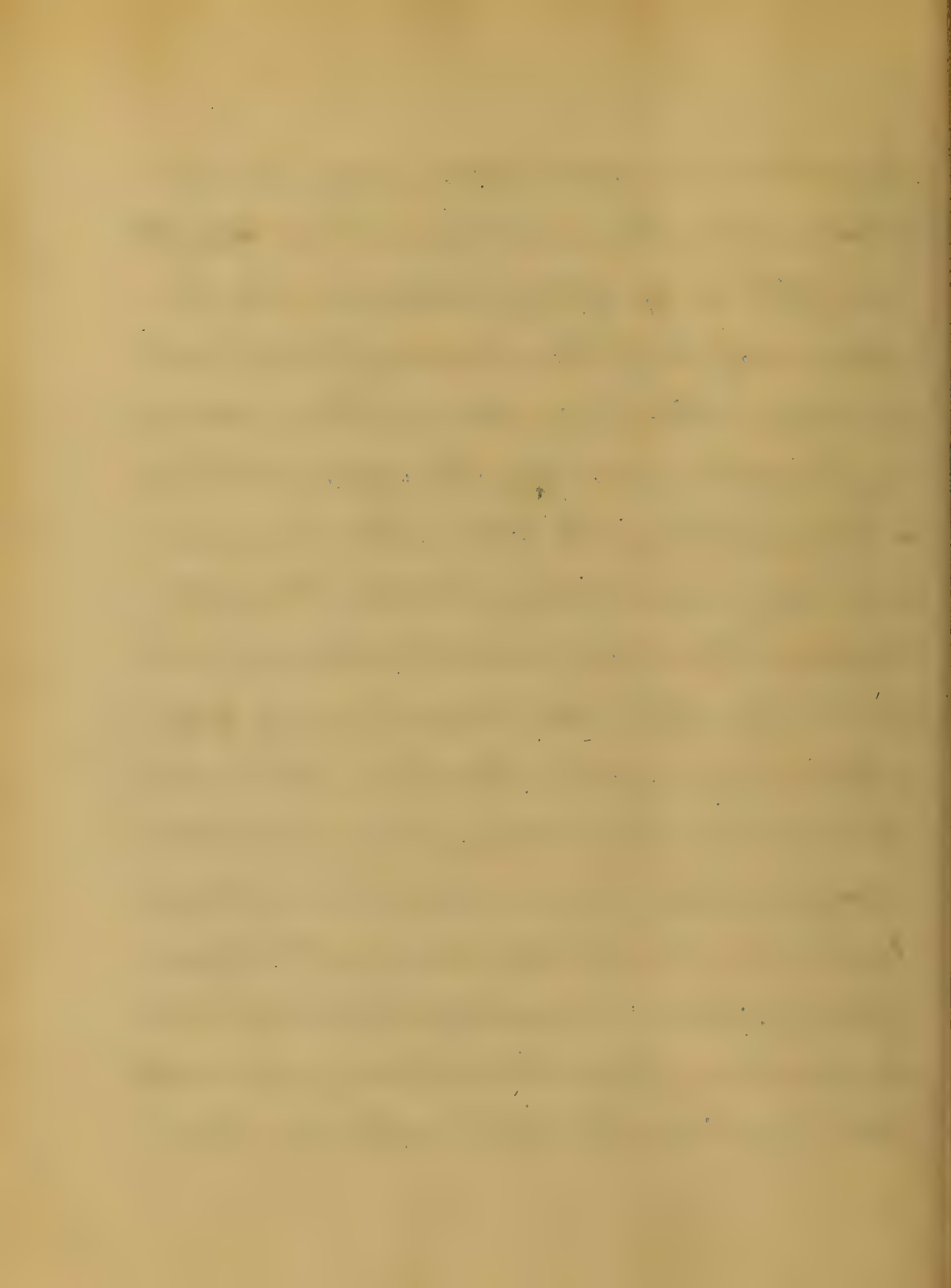
because: (a) They are devoid of danger and capable of great good, if properly used: (b) There are no other remedial agents which act so speedily in lowering the temperature of Puerperal Septicæmia: (c) They are peculiarly serviceable in causing the expulsion of clots or fragments of placenta & aids in subinvolution: (d) They have averted a number of deaths from septic poison. As the only danger from their use is the getting of air in the uterine sinuses, this may be reduced to a minimum, if not entirely avoided, by Dr Chadwick's methods of injecting,

which he advises to be done in the follow-
 -ing manner: The antiseptic solution is care-
 -fully injected into the vagina, with the
 patient lying upon her side, until the
 fluid begins to ooze from the vulva,
 she is then gradually turned upon her
 face, in a slight knee-elbow position
 and the injection continued, as long as
 necessary. By this plan it is evident, that
 the uterus gravitating into the ^{abdominal} cavity,
 allows the fluids to flow through the fat-
 -ulous os into its own cavity, by simple
 atmospheric pressure, any air forced
 into the vagina remaining there floating
 on the surface of the liquid. I have
 dwelt thus at length upon this mode of
 treatment, because I think it of great

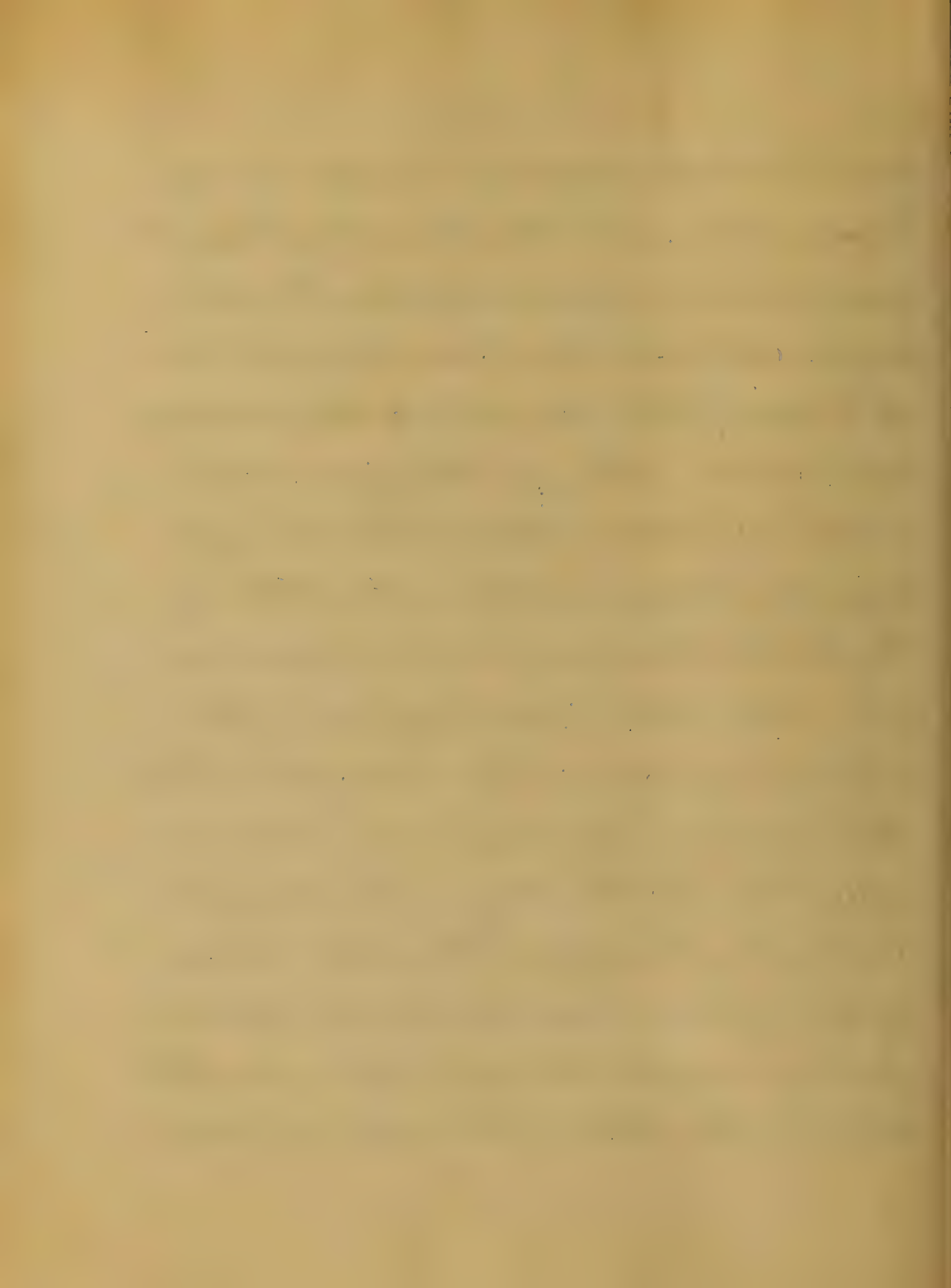


importance & not sufficiently practiced. Temperature may also be reduced by large doses of Quinine, gr x-ij, three or four times daily, well combined with Hydrobromic acid to prevent annoying head symptoms. Salicylic acid may be substituted as cheaper & little less effective than Quinine, although larger doses are required to get the same effect. To gain time & have certainty of action, the Quinine may be given hypodermically by injecting mxx or griv of a solution of the Hydrobromate. Used thus it is reputed to be equal in effect to three or four times as much given by mouth. If a nearly neutral solution be used & the injection be given "deeply", no fear of resulting abscess need be had. When great prostration, marked

by a small, irregular pulse, profuse sweats
 + cold extremities, is it present For Acute
 root grt; in ℥j Spts of Mindererus may be
 given every half hour carefully, ^{making} result and
 increasing interval of administration, accord-
 -ing to effect produced. Ice applied, to head
 + Sponging body with cold water + vinegar,
 are very useful antipyretic and comforting
 measures. Pain from Peritonitis should be re-
 -lieved promptly by the bold + free use of Opium,
 which, as advised by Leishman, should be
 continued in small doses, for sometime after
 disappearance of severe symptoms. A dozen
 leeches may also be applied over the hypo-
 -gastric region. Turpentine Stupes to the ab-
 -domen and turpentine internally in xv-xx grt
 doses, especially when there is tympanitis is

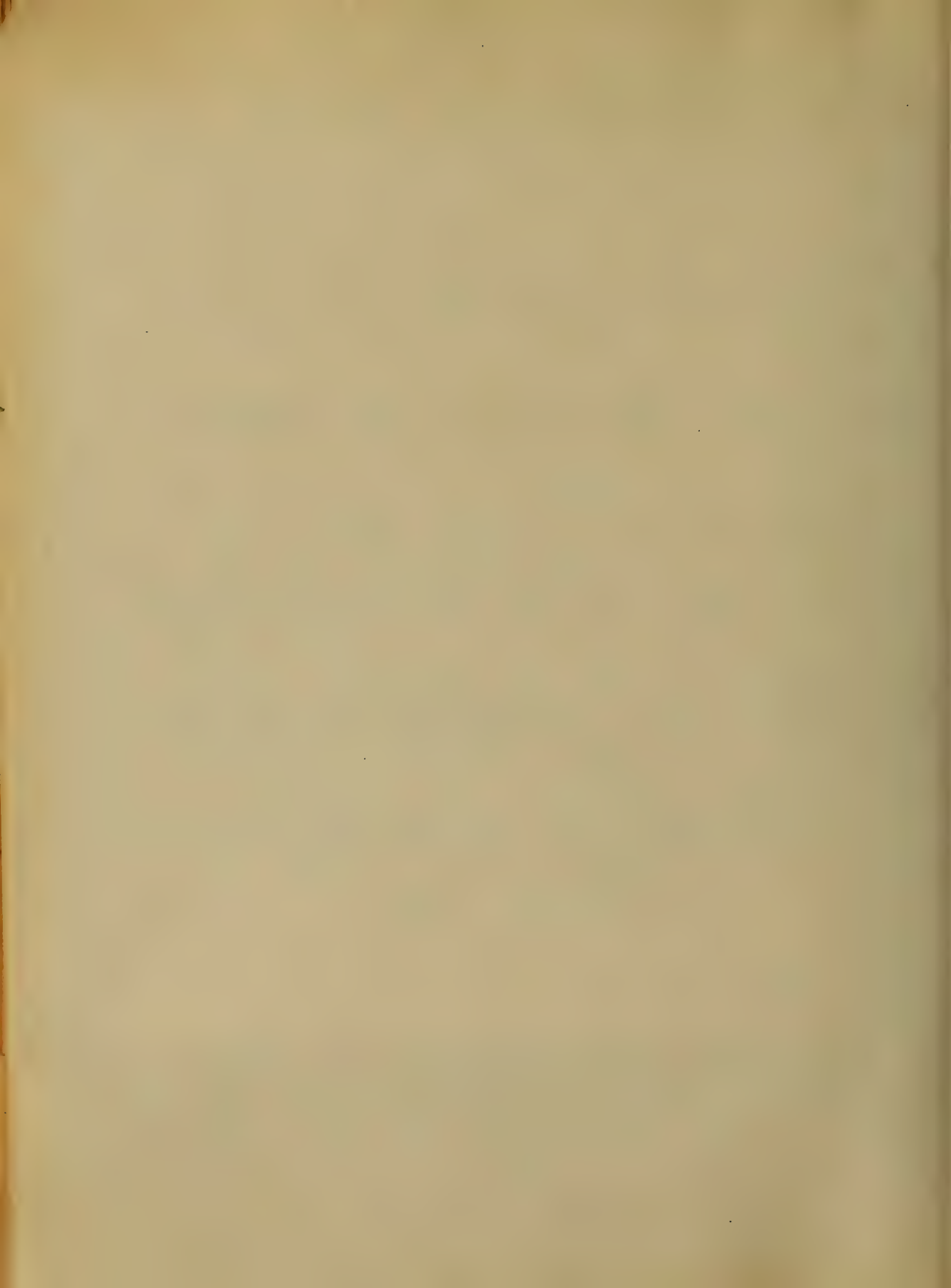


said to be useful treatment. Constipation may be relieved by a mild aperient, as \mathfrak{fj} of Gregory's powder, consisting of Calomel, Magnesia, Rhubarb & ginger. Exhaustive diarrhoea should be checked by appropriate remedies and local complications treated, as they are recognized. Antiferments, as the Sulphites, Carbolates &c, have been suggested, to counteract the septic state of the blood & such may in time be found useful, as the nature & modus operandi of the septic poison, becomes better understood. \mathfrak{fj} of Chloride of Iron, by analogy, would also seem indicated. But the chief indication for treatment is to support the vital powers of the patient, hence Stimulants & concentrated nourishment should be given from the outset of the attack. Dr Sinclair, of Boston



recommends that Oij of the best French Brandy and Oij of milk be given during the twenty-four hours, the one in \mathfrak{zj} , the other in \mathfrak{zij} doses every hour. Of course, this amount would only be needed in very adynamic cases of the disease. If the stomach reject food, resort must be had to nutrient enemata, Stimulants being also given per rectum or hypodermicall-ly.

A Dissertation
on
Acute Parenchymatous Nephritis
by
O. F. Jones of Pa.
Submitted to the Regents and Faculty
of
The University of Md.
For
The Degree of M. D.
Feb. 14. 1880



Diagnosis of the Kidney.

In stating of a disease which attacks such an organ of the kidney, it might be well to ob-
literate briefly first to the struc-
ture of the organ, and as may be
seen of the other viscera that each
has its own peculiar structure,
any part of which may be the pri-
mary seat of disease affecting the or-
gan and the part affected gives
name to that disease, as with the
kidneys.

The kidneys are glandular organs
the chief parts entering into the for-
mation of them being, beside the
the blood vessels, afferent and efferent
the uriniferous tubules & the

...of which may
be the primary seat of disease, or
they may in time become involved
in the same disease.

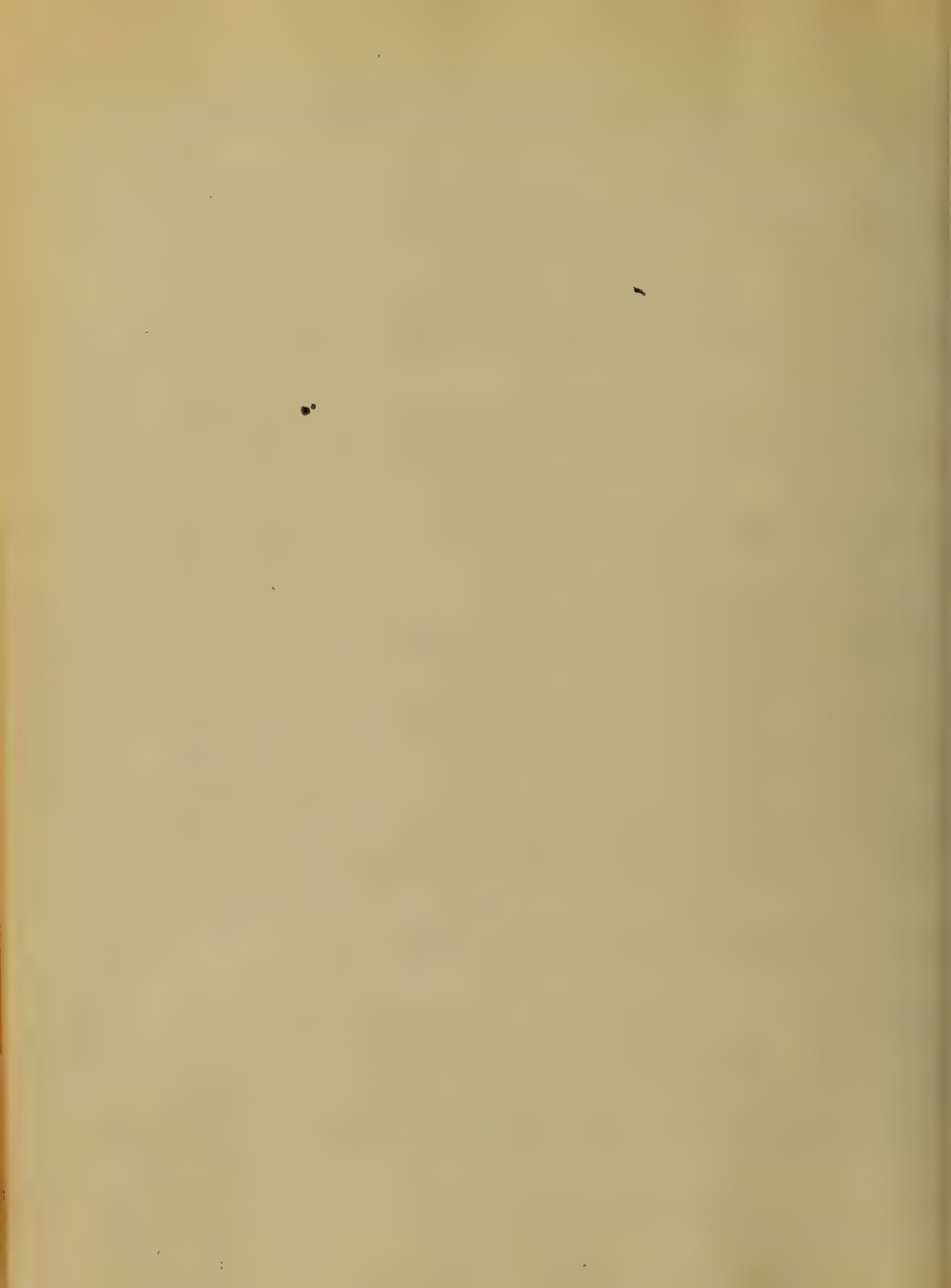
The term "Bright's Disease" has been
used in a general way to include all
affections of the kidney of an inflamma-
tory character, and made known by
certain signs and symptoms, the prin-
cipal of which, have been hæmaturia
or hæmaturia and albuminous urine,
since the days of Dr Bright,
who made the first systematic in-
vestigations in the extensive field
of pathology in the early part
of the second quarter of the pre-
sent century.



Over the time of bright horizon
 now, extensive research has been
 made in this direction throwing
 much light upon the subject,
 so that at the present day the
 edge of this class of diseases is begin-
 ning to assume somewhat more
 just proportions.

Authors of the present day make
 various classifications of diseases of
 the kidney, but the one which is
 probably the most intelligible is
 that which is based on the differ-
 ent structures of the organ.

Under this classification we have
 taken, all may be seen by the
 title the one which just attacks



The parenchyma is the subject of the
process.

Pathology.—

The pathology of this form of the
disease is somewhat obscure.

The secreting cells of the kidneys are
regarded ^{as} the primary seat of the
local morbid manifestations, these
depending on an effort made by the
cells to eliminate from the blood
some abnormal product.

Accepting this view we are obliged
to submit to the statement that
the disease is always due to some
irritant product in the blood
which in itself is hardly sufficient
to explain every the cause of it.

attack of nephritis, or so much
as is often the attack of
the calcification of a secretion
his or dilatation of arteries, con-
traction of the lithotrite &c, &c.

Hence we think that, ^{it} is sometimes due
to the reflexion of the nervous sys-
tem, and is therefore sympathetic in
origin, or in other words not al-
ways due to a morbid element
in the blood.

The microscopical appearances of
a kidney attacked with this disease
will vary with the character of
the inflammation, which may be
either catarrhal, suppurative or
inflammatory.

The large brown tubercles often
to more than twice their normal
size and weight. The capsule is
consistently adherent, the surface
smooth and presents a mottled ap-
pearance, they may appear congested
throughout, or may be irregularly
congested mixed with spots of a
natural color.

On section, the cortical part is
usually found to be relatively in-
creased in volume and the outer cut
surface is found to be covered with
dark red spots which correspond to
the situation of the Malpighian
tubules. The medullary portion will be
darker than normal and may present

a striated appearance of alternating
dark and light lines, the light
ones corresponding to the changed
uniform tubules.

If the uniform tubules be exam-
ined more closely they may be found
to present different appearances.
First they may appear to be the
seat of a simple tubular inflamma-
tion, when the epithelial lining
may become partly or entirely lifted
from its normal situation, disappear
and the tubule become more or less
filled with cells which correspond to
the new-cell formation.

described as existing in con-
tact with inflammation affecting the

masses of fibrin.

In another class of case there may be
found in the center of the tubes a
hyaline or coagulated material
which by some (Stromper) is said to
be a compound of fibrin.

Again in another class of case all
the inflammatory changes commence
in the epithelium cells of the mu-
niferous tubules, and they become
distended and cloudy, their nuclei dis-
appear. As degeneration begins, the tubes
become filled with broken down epi-
thelium or fatty matter. This process
has been called "chronic degenerative
nephritis" by some but is said by
Stromper to have a hard



interconversion regions.

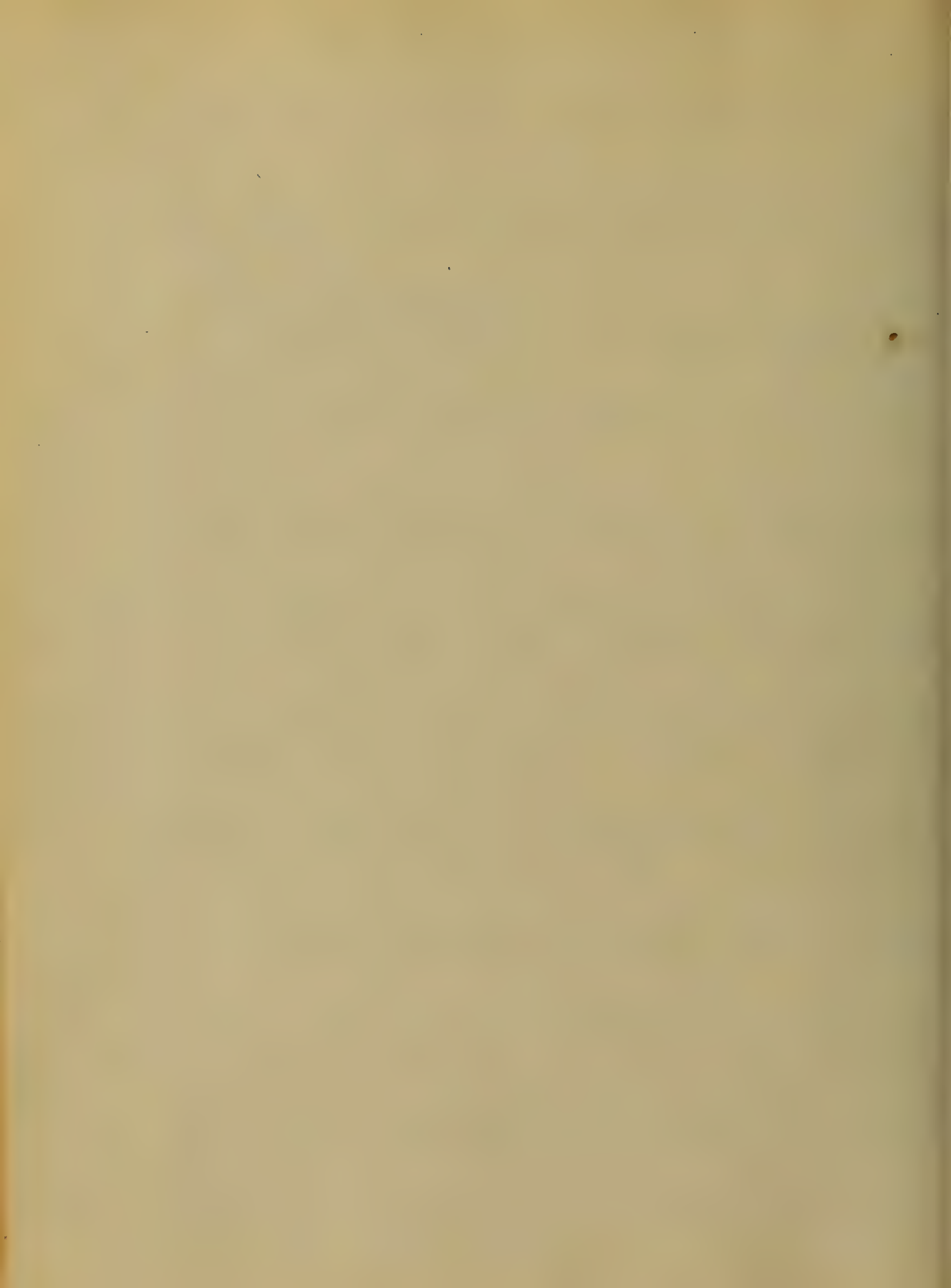
There are three pathological conditions
to be noted; first the congestion with
cell hypertrophy, and secondly
with blocking up of the tubule with
these materials,

second the venous congestion may refer
are the capillary vessels allowing blood
corpuscles to seep into the tubule
and mix with the excretum,

and third the interrupted circulation
may cause an effusion of fibrinous
material in the tubule and mix
up with the epithelium cells.

Causes

Among the main causes of this dis-
ease are the following; viz;



Exposure to sudden changes of tem-
perature, continued exposure to damp
atmosphere, & some articles in the
use of alcohol are very liable to

The disease, not alone from the
direct effect of the alcohol but
also from the exposure to which they
subject themselves while under its
influence which is but the legitimate
result of such indulgence.

It is not to be lost sight of the
primary effect of alcohol in this di-
rection, as it may also be a partial
cause of the disease.

When taken into the system in
larger quantities than can be ta-
ken up by the circulation or than

can be affected by the organ
it is eliminated by the kid-
neys, thus giving them an increased
amount of labor, and also sets in
motion the system of excretion
rather. Other irritants, as cathartics,
bits of nuxvomica, opium &c. and
emetics taken internally are im-
mense substitutes and probably more
or less of the same of the disease.
Butter and probably the most com-
mon cause of the disease is the cir-
culation of specific viruses in the
blood, such as we find in the
acute exanthematic as scarlatina
typhus fever, diphtheria, measles, the
disease pneumonia, &c. Frequency is

the cause of the disease.
 It was formerly supposed to arise
 at the entrance of the small
 intestine by pressure upon the renal
 vein but a better explanation is per-
 haps this: that there is an abnormal
 amount of experimental matters to be
 eliminated coming on the
 activity of the ~~the~~ organism that the
~~the~~ we somewhat more ~~the~~
~~the~~ various stream ~~the~~
~~the~~ at ~~the~~ ~~the~~ ~~the~~
~~the~~ ~~the~~ ~~the~~ ~~the~~
~~the~~ ~~the~~ ~~the~~ ~~the~~
~~the~~ ~~the~~ ~~the~~ ~~the~~

It has been claimed that enlarge-
 ment of the internal organ is
 by enlarging the surface ~~the~~

relates the same as it might in case
of jaundice.

Again it has been given as a cause,
that the deficient action of the skin
caused by the effluvia of the body &
with the eliminative power is lessened
and allows certain excrementitious mat-
ter to accumulate in the blood, the
elimination of which is thrown upon
the kidneys and causes increase of ac-
tivity and also irritates the tubules.

Another theory is that it is due
to reflex action of the nervous sys-
tem. The sympathetic system and
skin being intimately connected.

The disease occurs more in women
than in females, which is probably

due to the greater amount of exposure
to which females are subjected
in their various occupations.

It may occur at any period of
life. It occurs most frequently
in children, owing to the fre-
quency of falls upon the feet or
on the hands.

Symptoms.

The symptom which usually first
attracts the attention of the patient
is oedema of the feet. There are
sometimes some gastric symptoms
or disturbance noticed previous to
the oedema, but they are not
generally distinctive. The gastric
disturbance is thought by some to be

brought about by the effect of the
same to eliminate the abnormal
amount of urea.

There may be some elevation of the
residual constant fixed-solid
value in the lumber region.

If questioned closely the patient may
acknowledge to have noticed a fre-
quent desire to urinate and that
when passed was scanty in amount
and of a light color.

Characteristics of the urine.

As already stated the amount of urine
below normal & color increased.

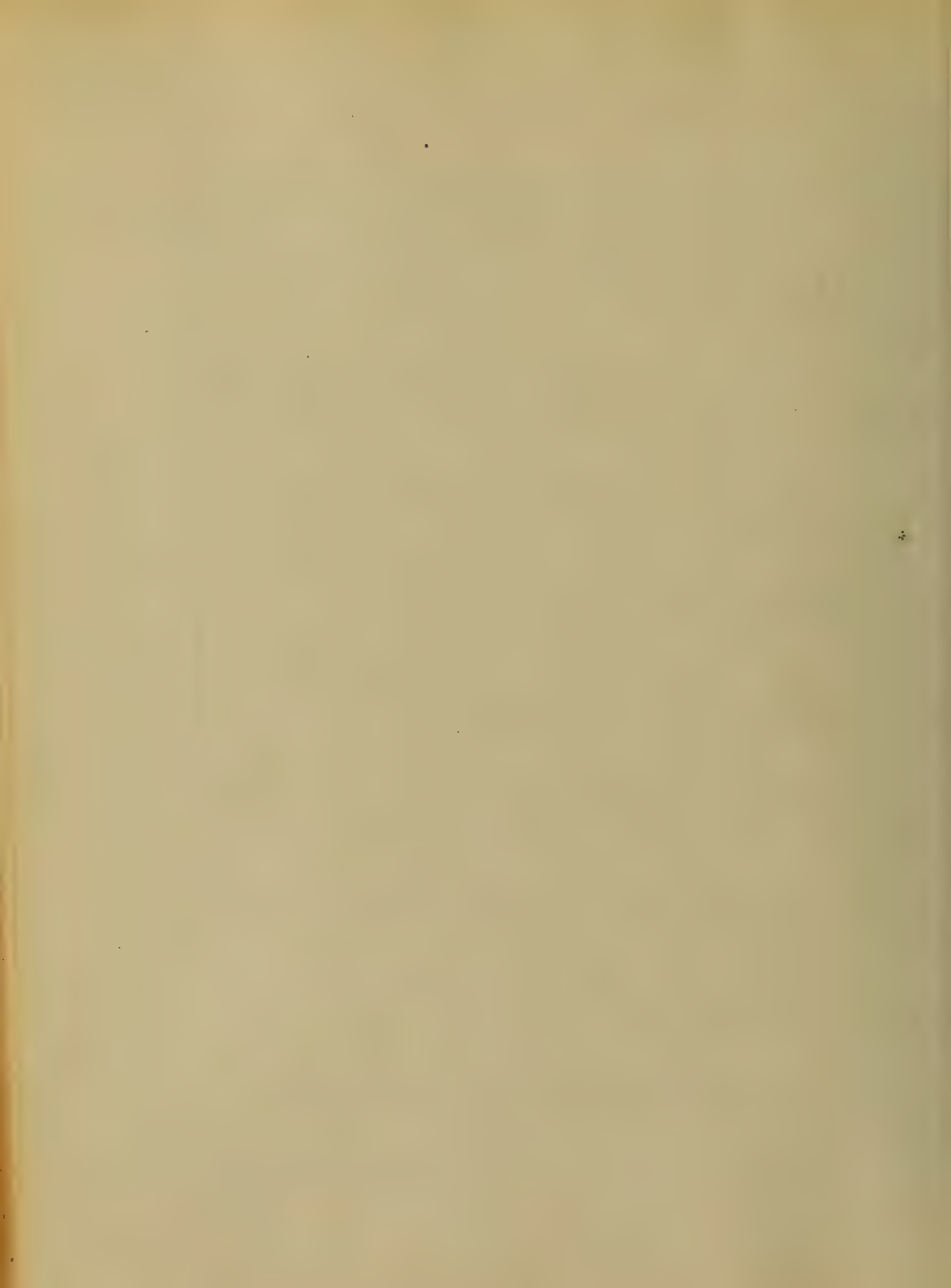
Specific gravity is general above the
normal, usually contains albumin
may be small in amount & may

some amount to the urinary excretion,
but may be found to contain some
blood corpuscles.

The sediment when examined with a
microscope is found to contain some white
cells. Blood corpuscles are

In the present number of cases the
patient presenting the condition has
been treated by the above symptoms began
to enervate, the urine increases
in amount and returns to normal
condition, the edema disappears
and the patient's condition gradually
improves.

A certain proportion of the cases have
been so not infrequently so severe,
the edema may spread to the



some amount of ...
and may be found to contain some
... cells.

The sediment when examined will be
found to contain ...
cells. ...

In the great number of cases the
patient presenting the condition will be
suffering by the above symptoms. In
the ... the urine increases
in amount and ...
condition, the ...
and the ...
improves.

A certain number of the cases have
...
The ...

the entire body, may extend to the
lungs, and in this way cause dys-
pnoea. This may not always be the
result of an oedematous condition
of the lungs when it recurs with the
disease. It may sometimes be brought
^{on} by the effects of cold upon the nerve
centres.

Finally we may have cerebral oedema
and convulsions developed, some have
not caused by the poisonous effects
of the recurrent cold upon the
nerve centres, others say it is caused
by the oedematous condition of the
brain, & pressure from any other cause
exerted upon the brain may produce
these results, it is thought to be a

sufficient operation on the case.
Death may follow almost on the
instant, but if the patient recovers
them for a sufficient length of time
then complications may arise, the most
common of which are inflammation of
the meninges, peritonitis, and
abscess, lungs and of the other viscera
etc.

Diagnosis

The diagnosis of the disease is made
chiefly on the examination of the urine,
which if carefully examined will al-
ways fail to give sufficient evidence
to justify a positive conclusion.
The prominent facts are that the
urine contains epithelial fibrines.

and muscular effusions. History of the
disease not clear and symptoms
confused. If the disease were inter-
stitial nephritis the urine would
be found to contain pus-corpuscles
and more or less bacteria. If it were
degenerative disease of the kidneys
the urine would be found to contain
mucus and fatty cylinders and degener-
ated epithelium. The uric acid would
also occur late in the disease.

Prognosis.

The tendency of the disease in the
first stage to recovery, which under
favorable circumstances is the usual
course. A certain proportion of the
cases however succumb to either

The poisonous effects of the accumulated urea upon the nerve centres or to some of the numerous sympathetic organs. Except from these causes however the prognosis is favorable.

The affection is not to be distinguished from the kidney. It is self limited. It sometimes but seldom assumes a chronic form.

Treatment.

The indications in every case of the disease are first to prevent the increased structural change which may take place in the kidney. Second to prevent uræmia or if it has occurred to promote the elimination of urea. Third to treat concomitant

21
symptoms and conditions as they may
arise.

The first thing to be attended to in the treat-
ment of this or in many other diseases
is to remove the cause or the condition
which are supposed to have led to
it. Under this head would come hygienic
management, avoidance of an over-
pressure of cold wet or great fatigue,
from intemperance if it has related
and all other excesses.

If uremic symptoms appear, the elimi-
nation of the urea should be attended
to and promoted. This may be done
in various ways. If the symptoms be
not urgent or indications of immediate
danger, mild diuretics diaphoretics, and

could be employed, cathartics may
 be used, if the symptoms are
 more urgent or indicate great dan-
 ger from the accumulation of mucus
 and the disturbances caused by the
 discharge, more active measures may
 be called into requisition. The
 most efficacious of the most expeditious
 ways to eliminate the mucus and de-
 terminate the toxic action at
 the same time without causing so much
 exhaustion is by producing profuse
 diaphoresis, which may be done effect-
 ually by the hot air or hot steam
 bath, the patient being placed in bed
 and thoroughly steamed is allowed to
 cool gradually with a covering

temperature of about 100 degrees F.

If this process is not found to exhaust the patient temporarily it may be repeated after some hours have elapsed. This may also be aided by the so-called diaphoretics as 'potarand' or its active principle, 'sweat' etc, etc.

While this is being done, measures should also be taken to remove the inflammatory products from the uriniferous tubules, if the secretory function of the kidneys can be increased to such an extent as to wash out these products much will have been accomplished & further preventing further accumulation of

and not want the prevention of the
 reflex. Great care however must
 be exercised in the selection of
 remedies for this purpose and none
 of the so-called diuretics which
 possess any irritant properties
 ever should be used.

The most valuable agent we possess
 for this purpose is digitalis. It
 possesses an agent which is neither
 stimulating nor irritating to the kid-
 neys. It has its beneficial action
 through the increased force of the
 heart's action and increased blood
 pressure, thereby removing the
 impediment to the renal circulation
 and thus causes an increase of

of the outer part of the heart through
the malpighian tufts.

To experience the full effects of this
treatment should be given in large
doses and frequently repeated.

Probably a large amount of fluids taken
into the system would wash in this wash-
ing out as it were the tubules, so the
patient should be allowed to drink all
the water that he may desire.

A combination of the above remedies
will also tend to remove the dropsy
which usually accumulates, but in cases
in which it collects in such quantities
as to be detrimental in any way, other
means may be resorted to, such as
the free use of drastic purgatives

among which may be named gamboge,
 podophyllum, elaterium &c. The last
 named is the one which is supposed
 to have the most active influence in
 this direction. Great care must be ex-
 ercised in the use of cathartics not to
 carry the purgation to such an
 extent as to exhaust the strength
 of the patient or the very means
 which have been used with a
 good intent may hasten dissolution.

The free use of diaphoretics may
 also aid in diminishing the temp-
 erature. Probably of this class of medi-
 cine the best that can be used is
 zaborandi or its active principle
 pilocarpine, either of which when

administered causes an enormous amount of perspiration and in this way eliminates a vast amount of urea. It also increases the salivary secretion and may produce or cause a watery diarrhoea.

Other milder diaphoretics may be beneficial.

Some care may also be necessary in the use of diaphoretics, as they may be used to such an extent as to exhaust the patient.

When the uræmic symptoms become so marked as to demand immediate attention, or to threaten coma and convulsions the hypodermic use of morphia will often prove to be

extremely beneficial.

This treatment of these conditions is highly recommended by Gomis and others.

The almost uniform action of quinine in these conditions, as observed by Gomis is to arrest the muscular contractions by neutralizing or rather by counteracting the effects of the urinic poison upon the nerve centres. Second to establish profuse diaphoresis; third to facilitate the action of the diuretics, and cathartics, more especially the diuretic action of digitalis.

Chloroform has been recommended by some but it does not appear to have been proven to be successful treatment.

- Thesis -

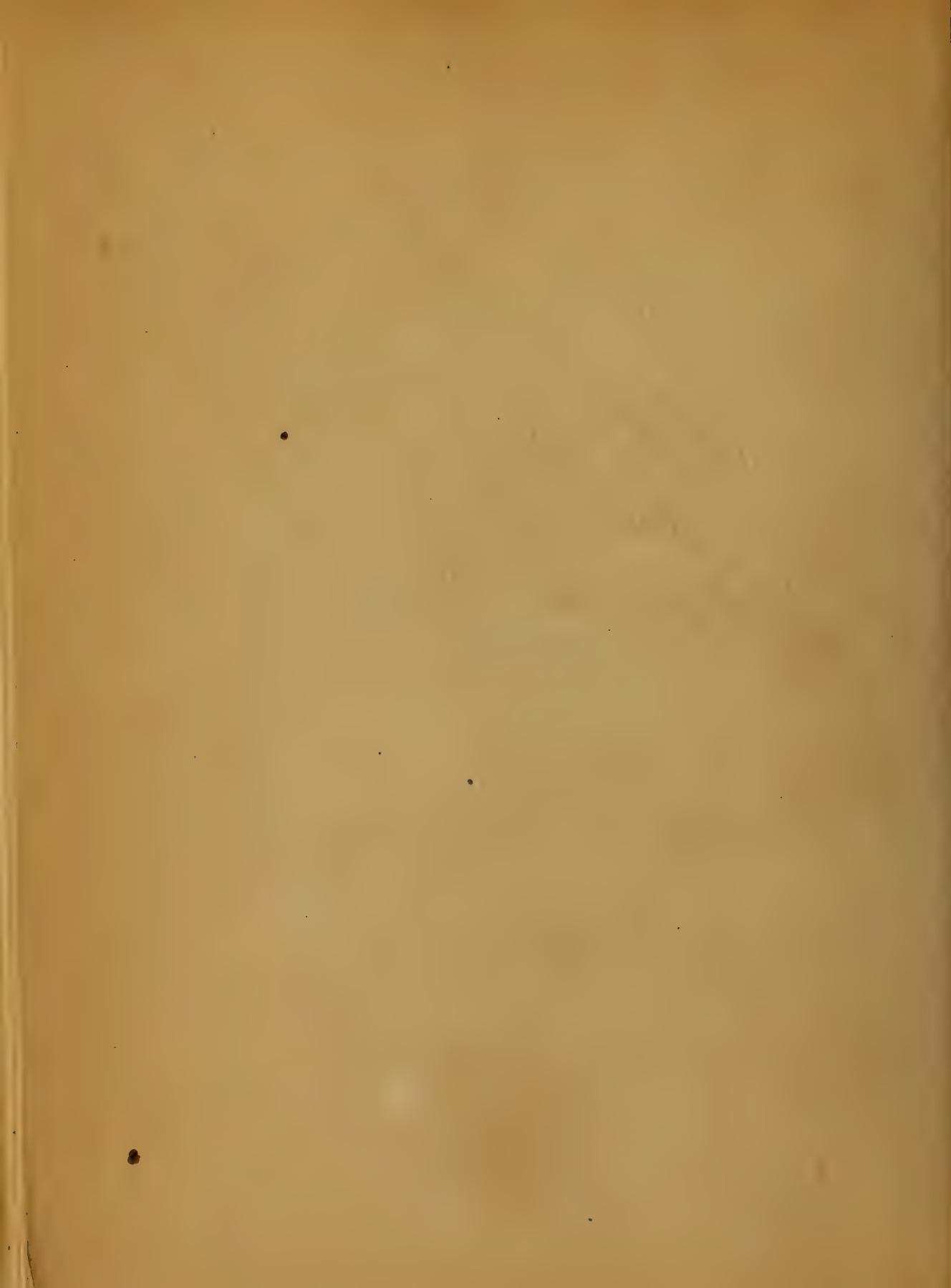
on
Differential Diagnosis
of Heart diseases.

For degree,
of Doctor in Medicine.

By
Swen P. Postin -

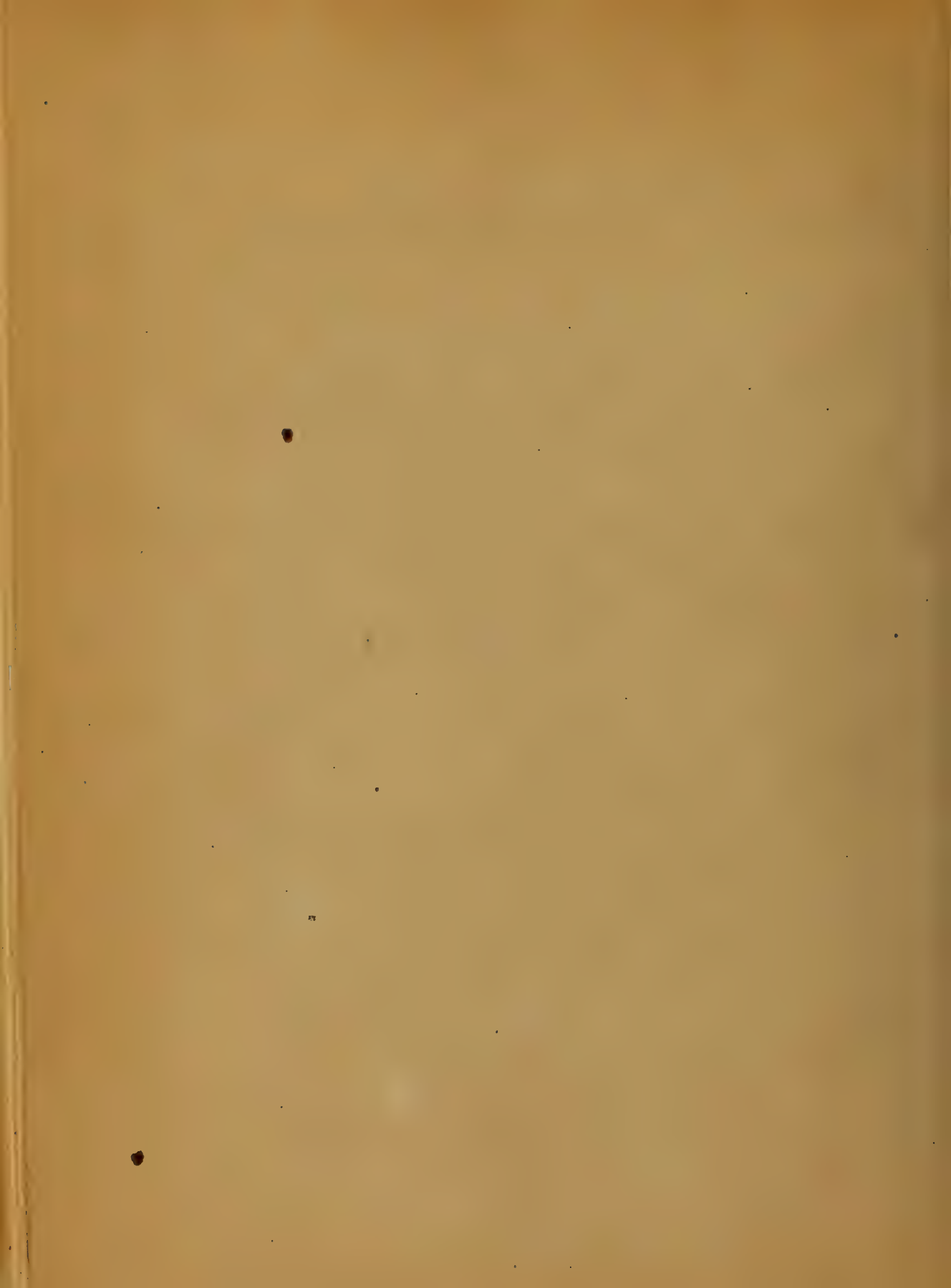
- Virginia -

- February 14th 1880. -



Differential Diagnosis of Heart Diseases

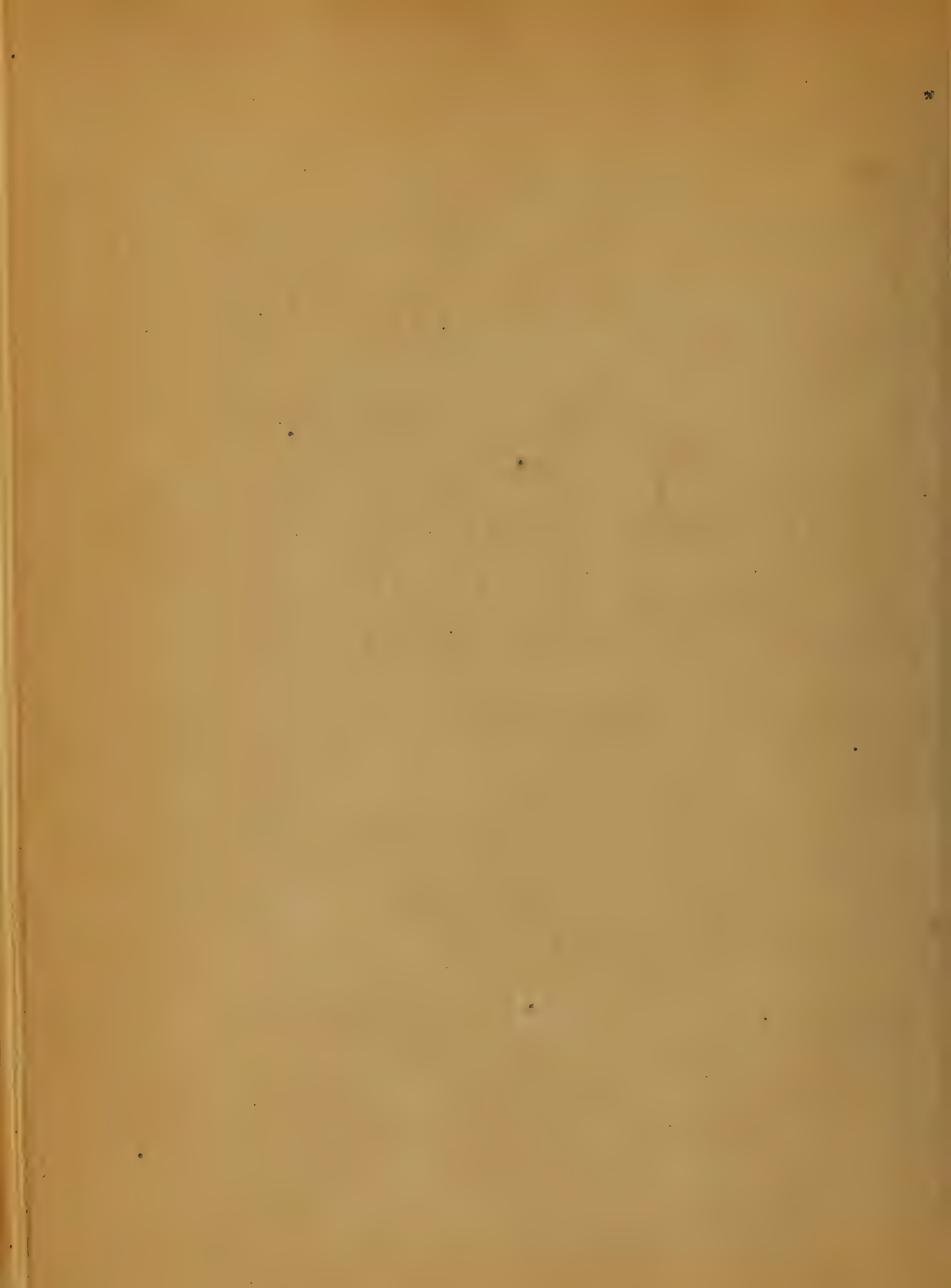
As time passes, and the world grows old + sciences progress, the more it seems we cling to some ancient customs, and time honored ideas. From the early days of medicine and medical students a Thesis I suppose has its origin. Perhaps then it was an 'Dissertatio seu ^{pro} Diastatio' the unfortunate possessor of which had to publicly defend - But now during the progress of science + improvement of ancient ideas, it is only an



form, a useless expenditure
of a student's time, being never
afterwards regarded by super-
visor or professor. But! I pro-
pose to be a Doctor in Medicine
so must conform to its requirements.

What must I write on? I would
prefer to discuss the usefulness of
a Thesis, but that I believe is
not allowed. So something more
difficult, must occupy our time.

I shall try to give a few prac-
tical points in diagnosis the
surest anchor of success in our
practice. And as we are limited
in space my say shall be on
Heart Diseases



Its position, size, and relation to other parts & organs; together with the normal sounds & murmurs are far too ultimate to require any suggestions. But as the pericardium will require many serious considerations, being subject to diseases that affect all serous membranes. It must be well understood both its Anatomy & Physiology

First then we will consider, Pericarditis - an inflammation of lining membrane of the pericardium.

Divided into three stages

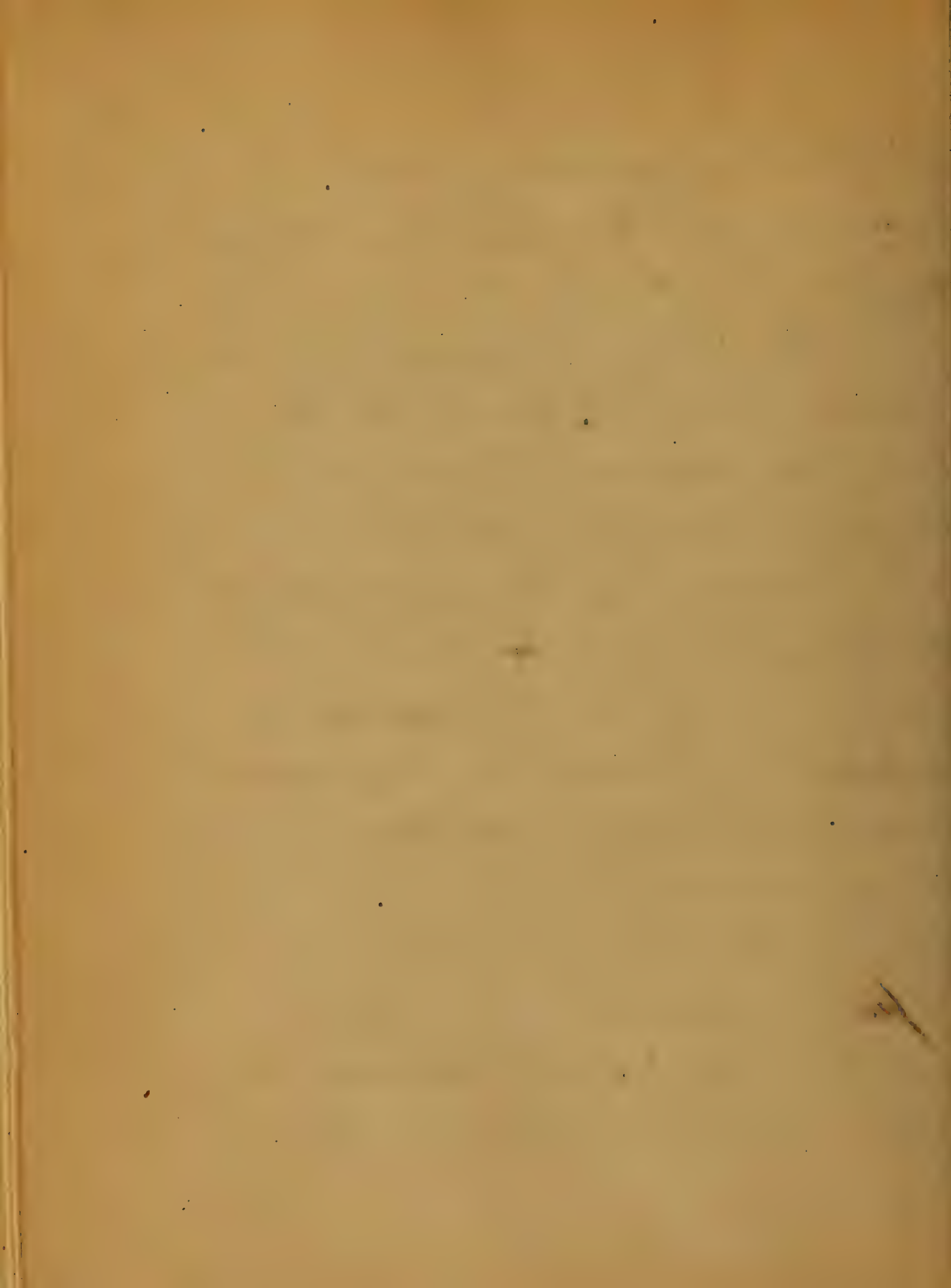
I - Stage of congestion, constituting the same history & theory of all acute inflammation the migration

of white corpuscles. With the beginning of the effusion & sticking together of sides of the membrane.

Physical diagnosis of pericarditis must be based on the friction murmur - which in this stage is always present.

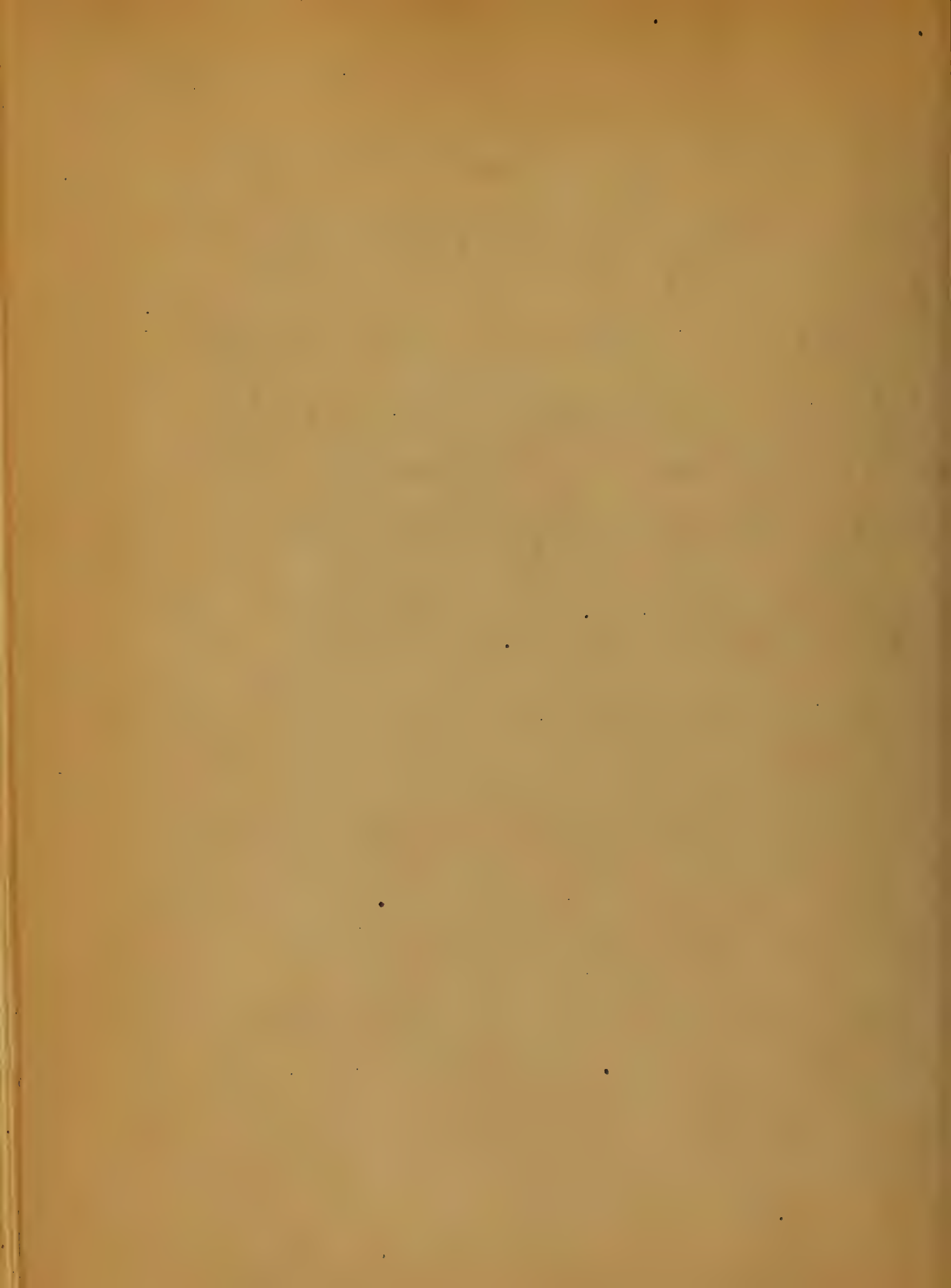
It is caused by the small effusion of lymph & the separation or rubbing together of the thus roughened surfaces. It must be diagnosed

from endocardial murmurs, and the first & main point is that it is a double sound & must be principally diagnosed from aortic direct & regurgitant murmurs coexisting. As has been said it is if



a rubbing or friction character and is not necessarily in direct accord with the heart sounds.

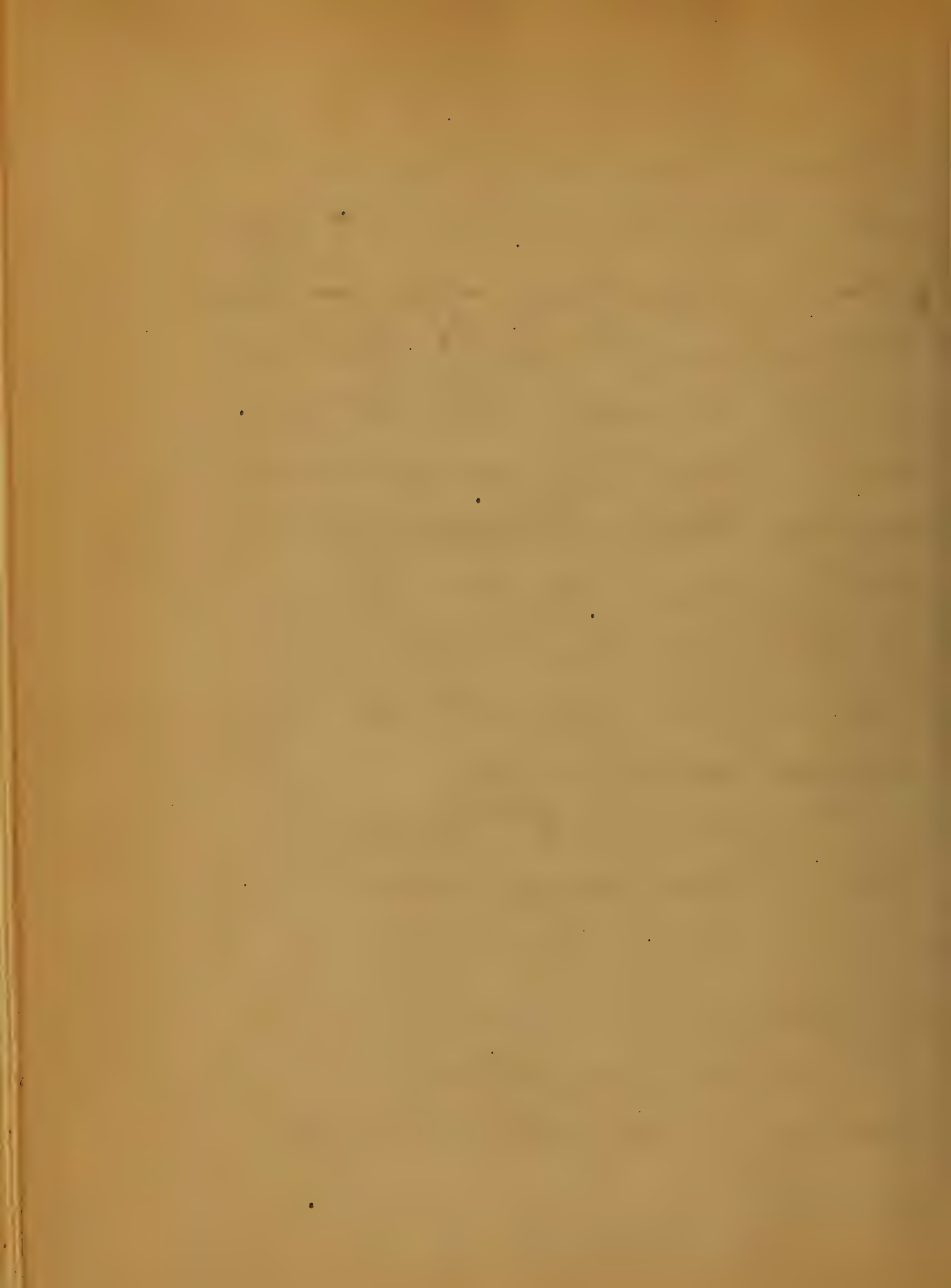
Moreover its intensity varies with the same sound, a most notable point. It may be better heard at the apex & will decrease as you go up. It is not heard without the precordia - whereas many endocardial murmurs are heard some distance away, as mitral regurgitant. Again firm pressure with the stethoscope will increase its intensity. Finally it is superficial, whereas the endocardial murmurs will be ^{deep} deep in the chest - an important point.



Close observation to all these points should enable us with little trouble ^{to} differentiate & say positively to our anxious patients that no organic disease of the heart is present. and by cheerful word's encourage them on to recovery. and a relief from a mental agony that has made miserable the lives of multitudes & brought not a few to an untimely grave.

2- We must look ^{for} Pleurisy.

The friction murmur may be caused by the rubbing together of the outer surfaces of the pericardium against the pleural surfaces roughened by effusions. This may be double



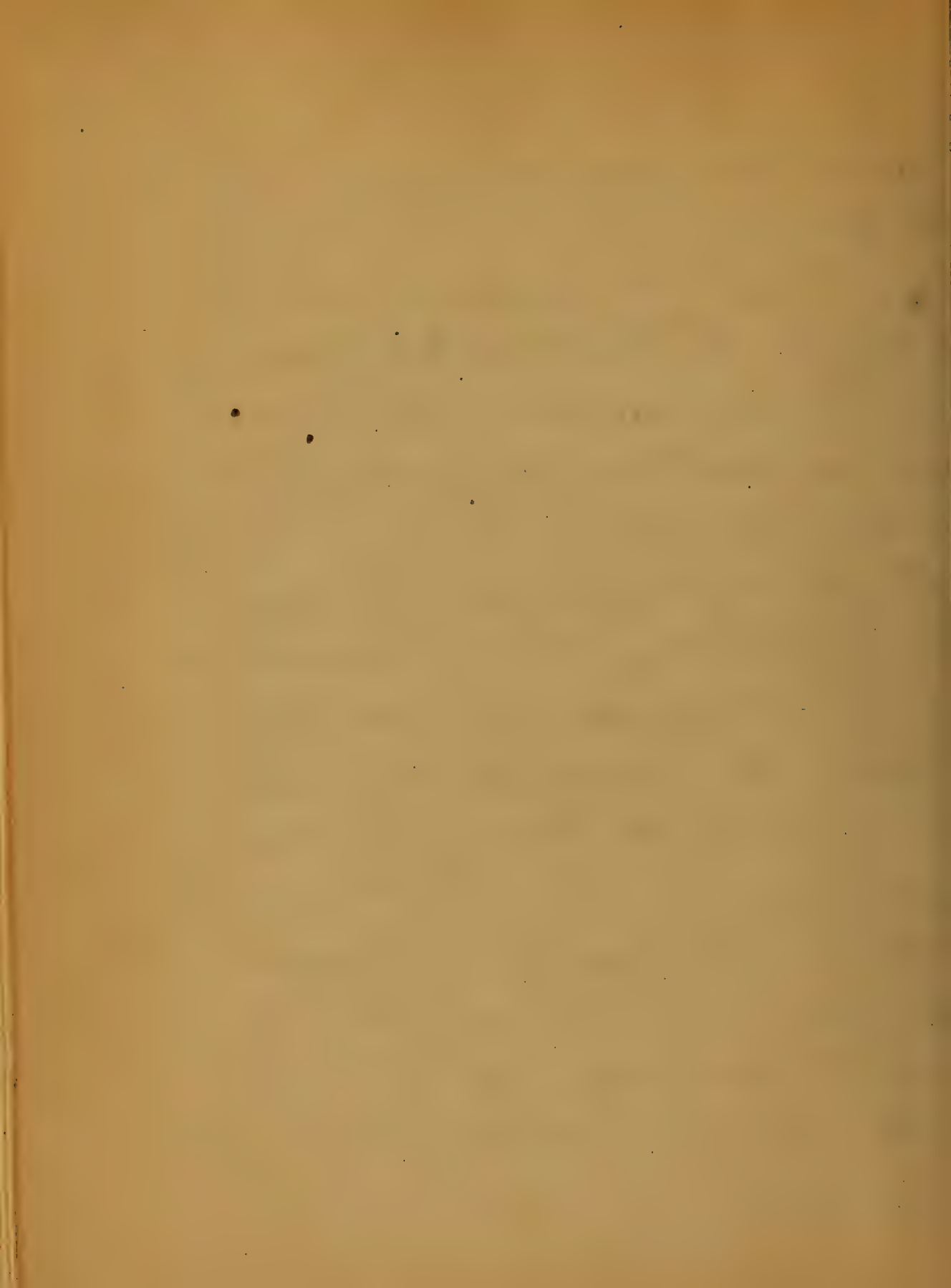
& will then resemble very much
the true friction sound of pericardi-
tis. Extent of pleurisy & non-ef-
fusion in the pericardium occurs

This may also occur with pneumo-
nia & we must be on our guard for these
& like complications.

II- Stage of effusion from slight
amount to filling of the pericardial sac.

The diagnosis now must rest
almost with percussion & palpation

A pyriform tumor may someti-
mes be made out. This tumor
will have its base at the apex of
the heart. The heart will be
raised & some what pushed to left
side & the apex beat may be felt in



The fourth intercostal space.

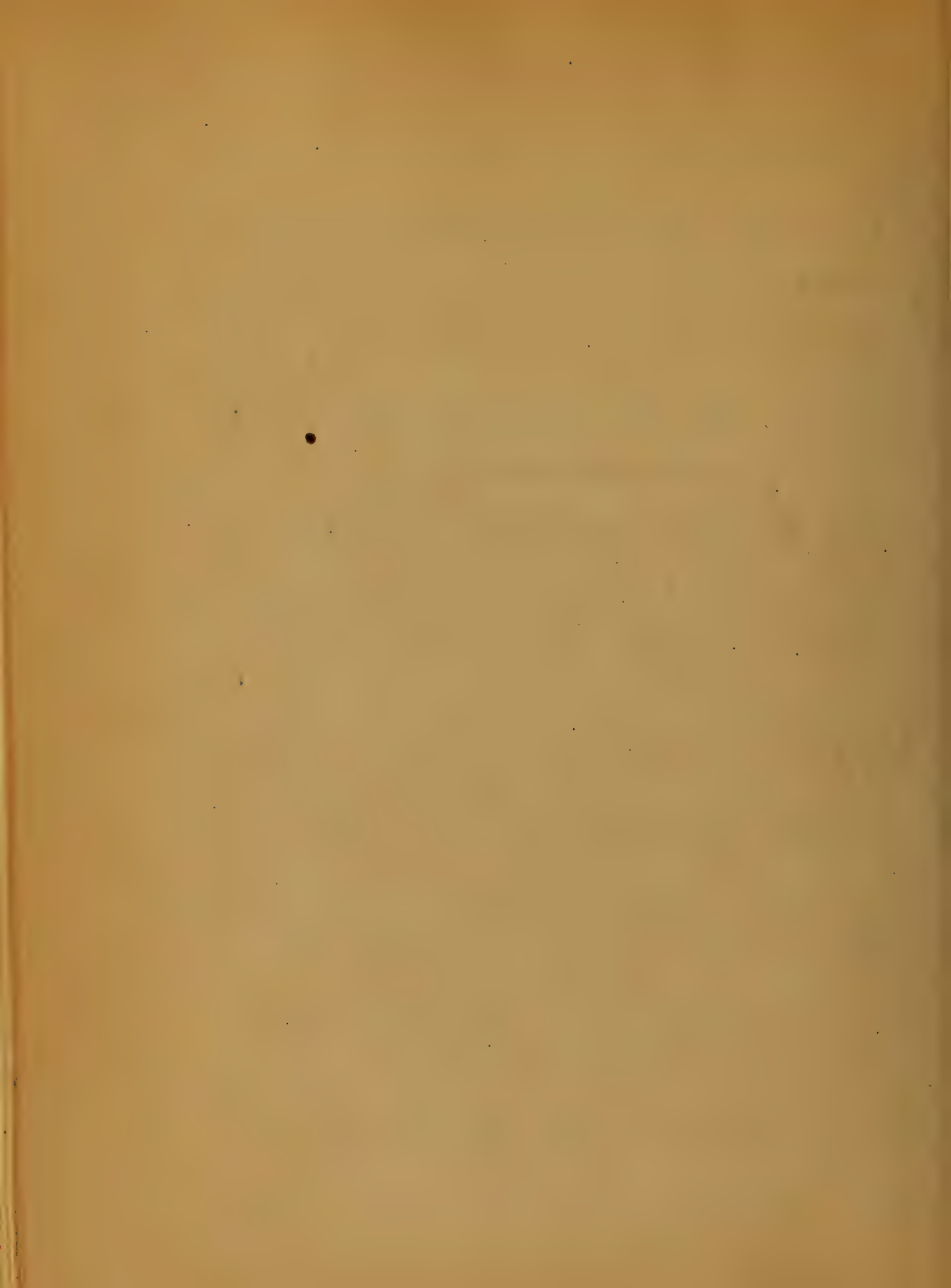
The situation must be made out by percussion, giving at times perfect dullness or flatness.

Auscultation shows respiratory murmur + vocal resonance,

With considerable effusion the apex beat may be lost, and the sounds of the heart are feeble and distant.

With marked diminution of fluid the friction murmur will return & remain until the surfaces become agglutinated or the liquid be absorbed.

and thus pass in the third stage so called. But the line is with difficulty drawn & for this reason



I should prefer to describe but two stages. The end of second stage being recovery of or demise of patient. In diagnosis the etiology of pericarditis should be considered. As acute articular rheumatism Bright's disease & Pleurisy. For as an idiopathic disease it is extremely rare.

Endocarditis, an inflammation of lining of heart walls, causing more or less roughness & thickening of the chord-tendinae, leaving the valves weak & incompetent of performing duty. Causing regurgitation of the blood currents.

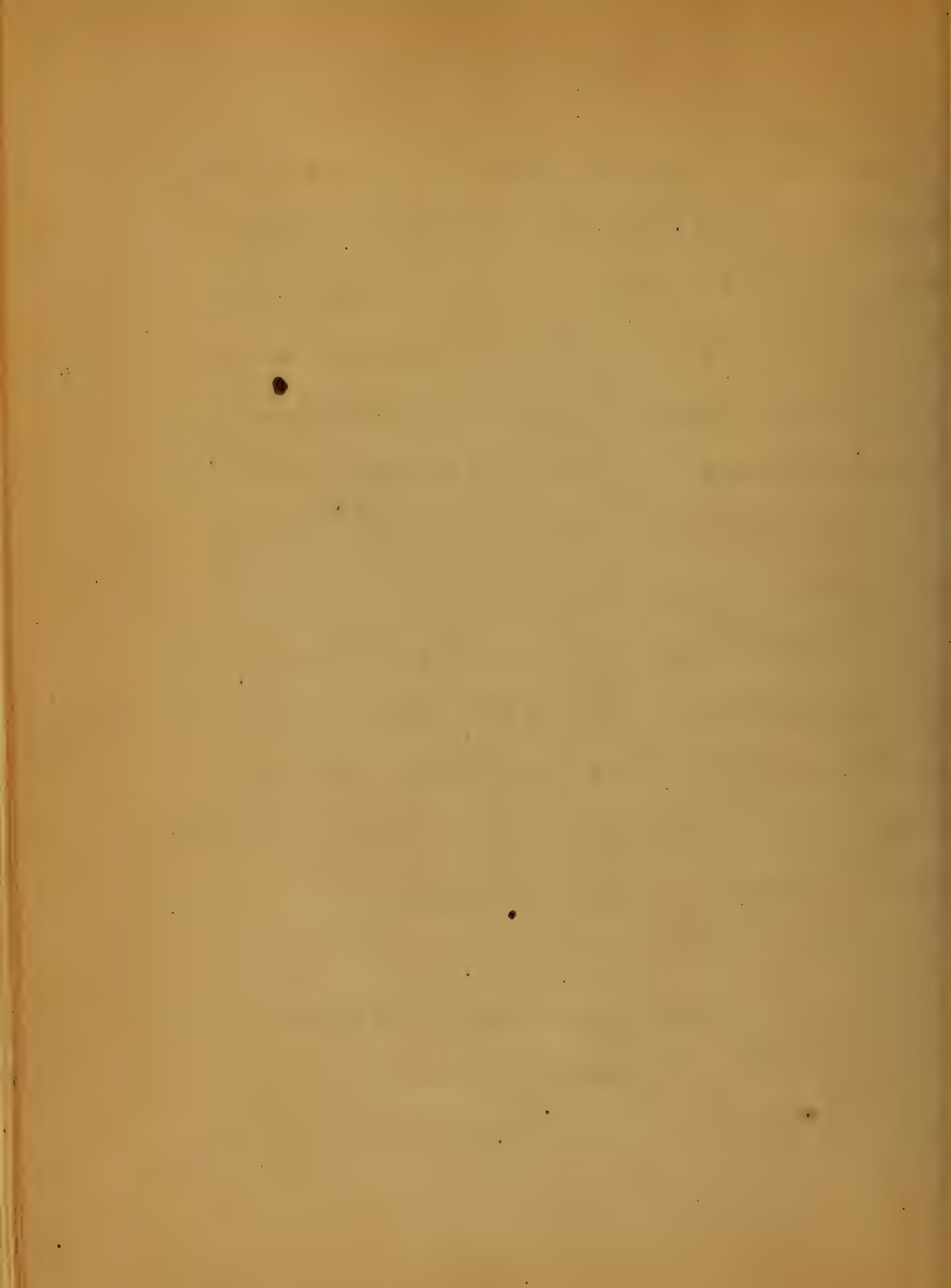
The diagnosis (differential)



has been pointed out in describing pericarditis & will require little more to be said. It is some time found with pericarditis & is nearly always due to acute articular rheumatism. Its presence should excite our suspicions, & demand an examination.

Percussion generally shows compensative hypertrophy. The history of the case should be carefully ascertained as it gives us important points in diagnosis.

With these points we should be able to diagnose some lesions inside of the heart. These are varied & will now be briefly considered.



Valvular lesions-

These are necessarily of a varied character & involve points of diagnosis at once differential & difficult

We will divide into three groups

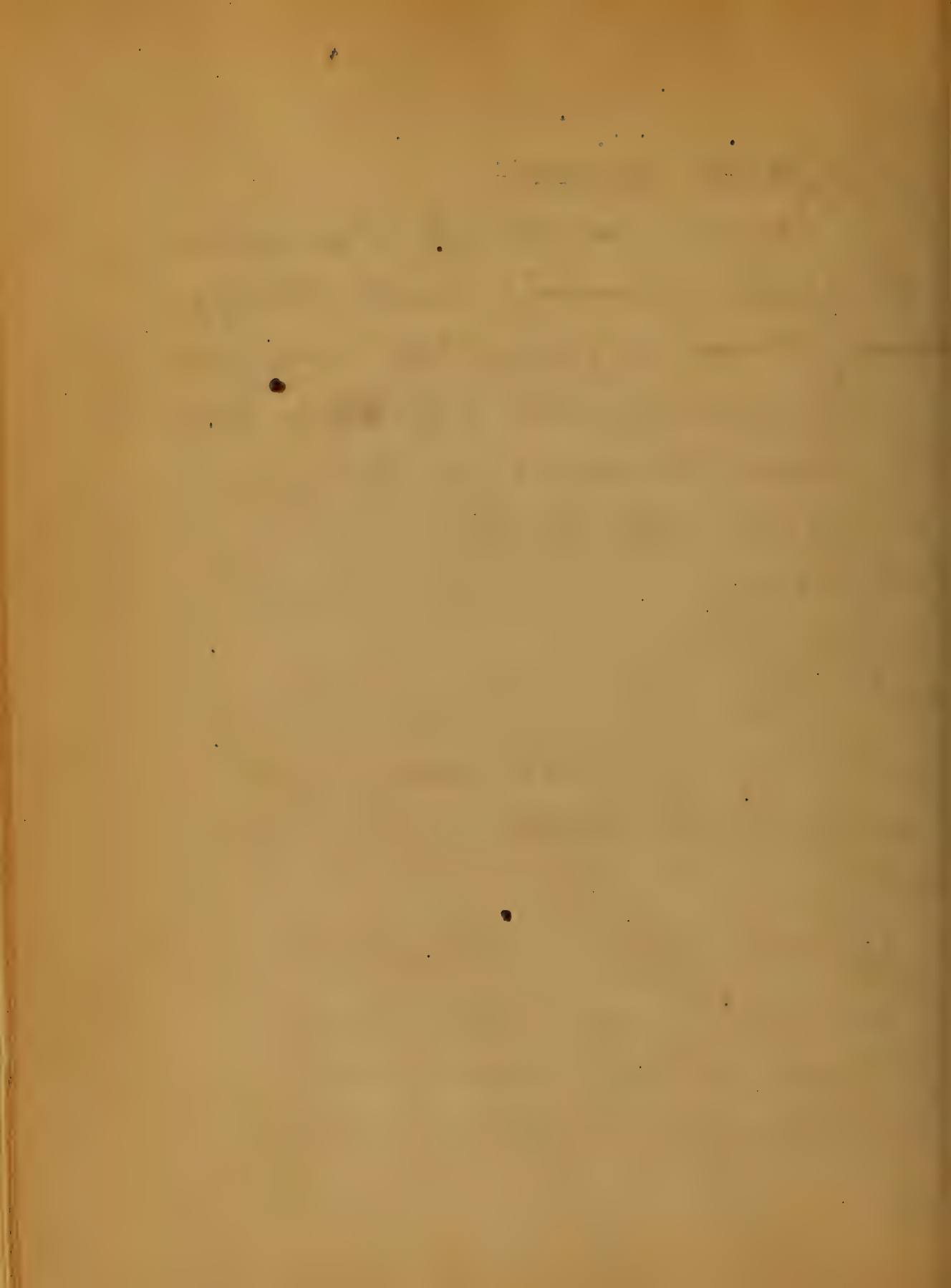
1st Lesions diminishing the size of the orifice obstructive

2nd Lesions enlarging the orifice regurgitant

3rd Those that roughen the surface over which the blood moves & not causing either obstructive or regurgitant

Obstructive - Mitral direct

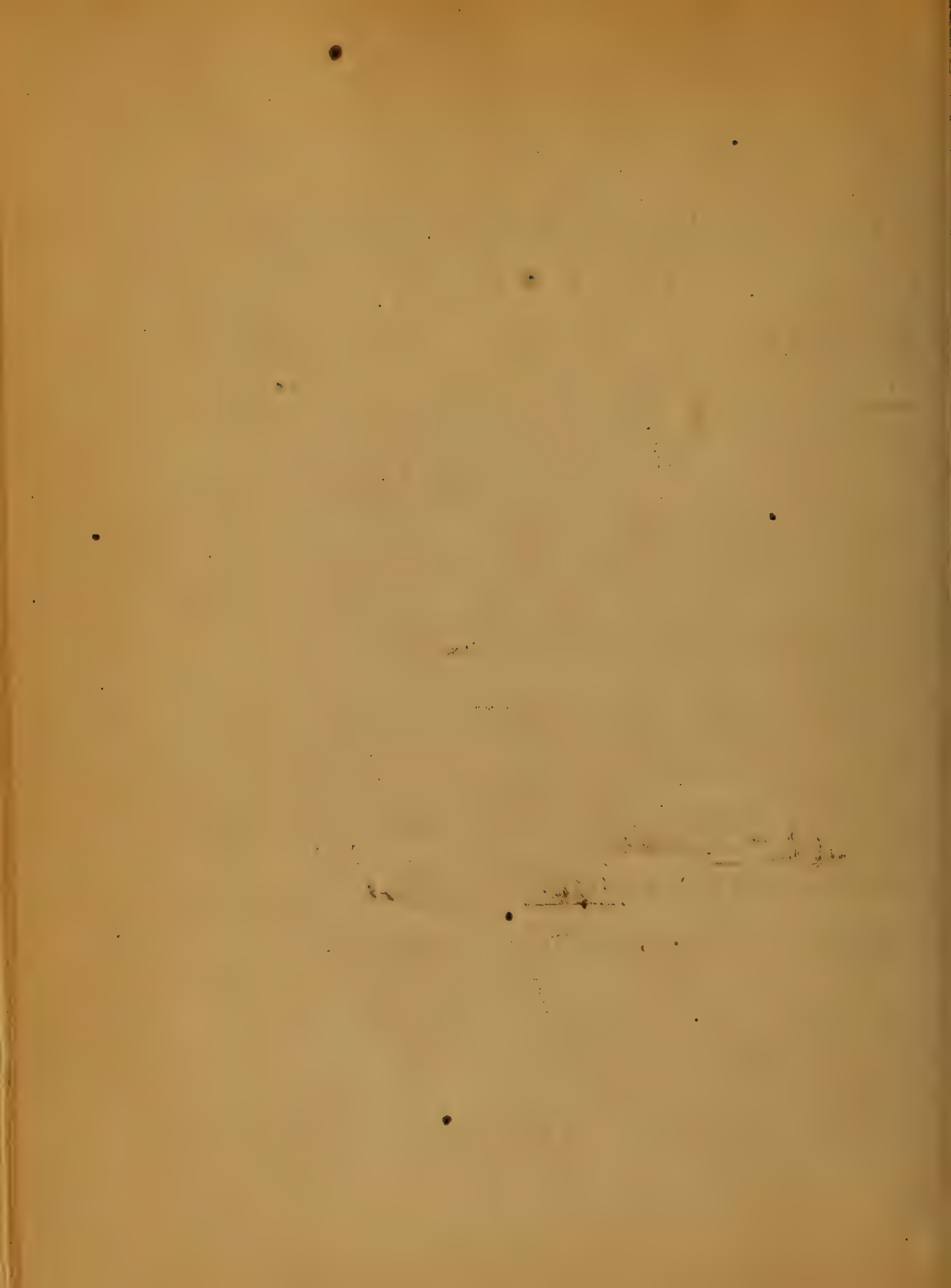
This is a pre systolic murmur beginning after the second sound & ends promptly with the systole,



It must be diag noise for aortic regurgitant if the position and place best heard should give all the necessary points. It is often limited to a small area around the apex. It is a rough murmur & may be quite loud. It is caused by vibration of mitral curtains when they are united at their sides.

Again this murmur is very limited & as we leave the apex it is less audible Aortic direct. - This murmur is synchronous with mitral regurgitant; that is it is systolic and this should be sufficient diagnosis for mitral direct.

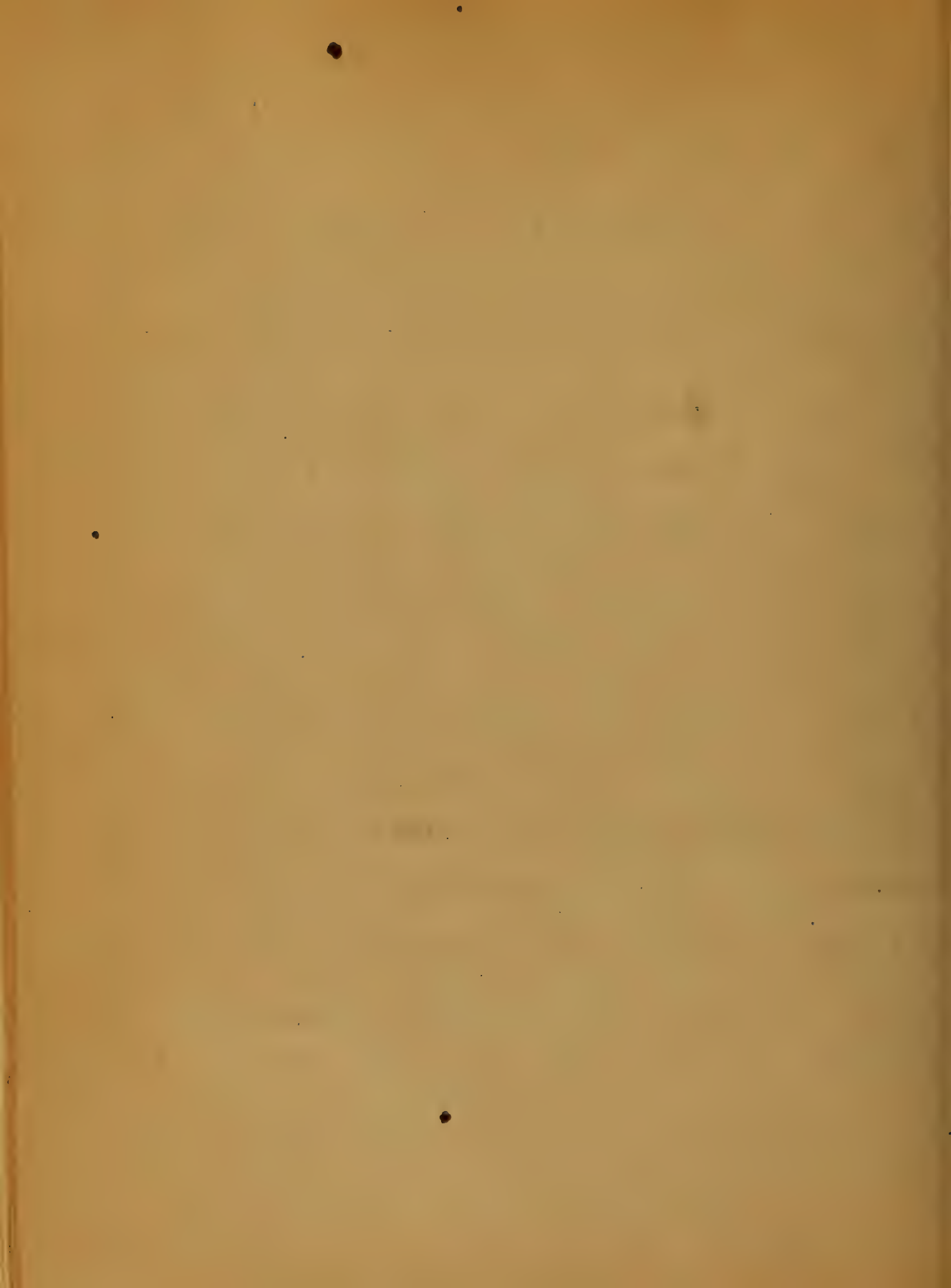
From mitral regurgitant by



by situation. It is heard best
at base of heart & in second inter-
costal space, near the sternum
& is often louder on right side

From Tricuspid regurgitant
by being transmitted better to the
right. A venous pulse synchro-
nous with the systole points to tri-
cuspid regurgitant. It is often
absent, but when present may
be considered corroborative.

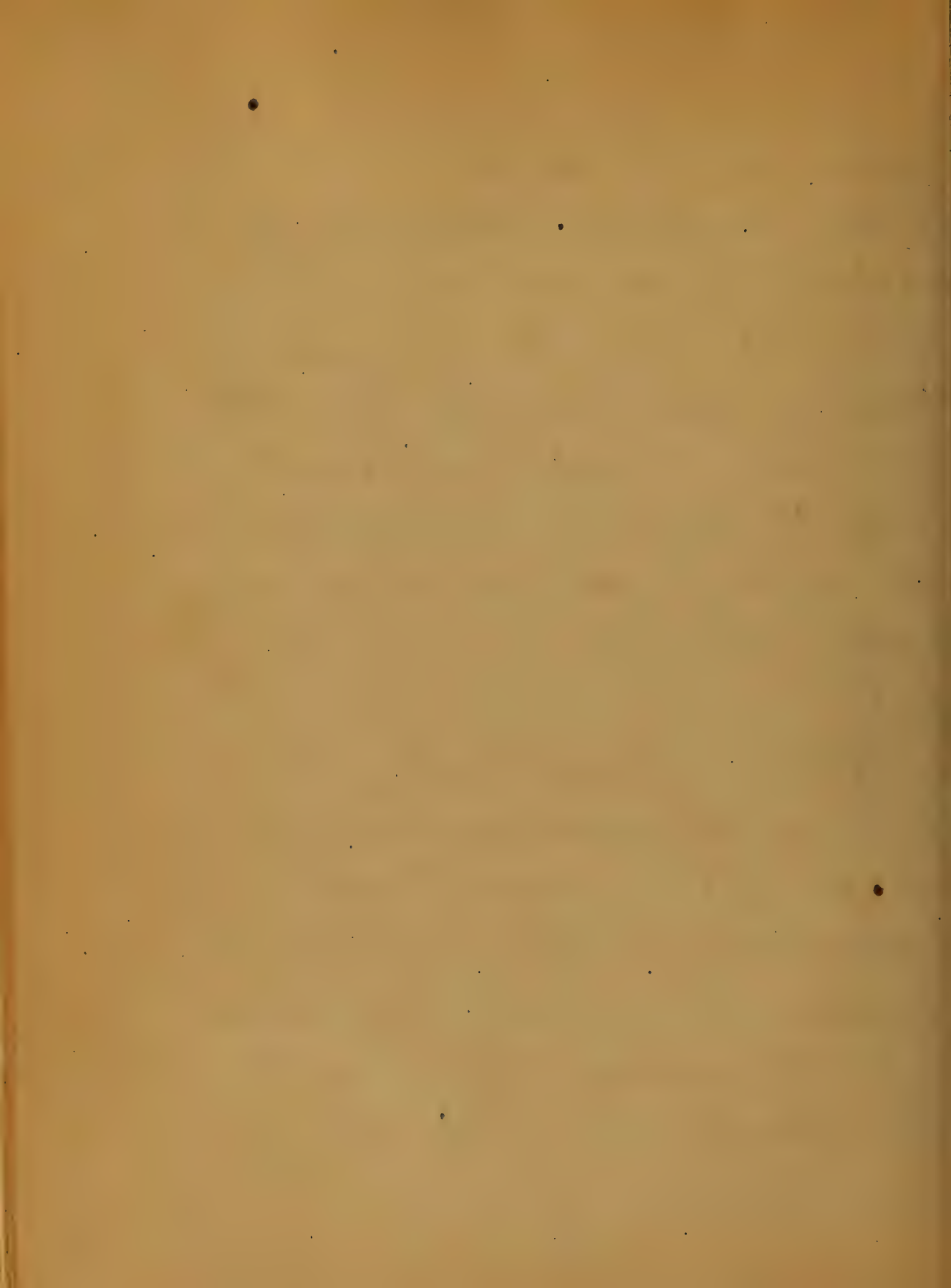
II- Regurgitant murmurs
forming a large number of heart
diseases & often with a grave prog-
nosis. Should be perfectly under-
stood. And their differential
diagnosis is ^{of} all importance



our our success in the treatment
of such maladies. We will first
consider the one most commonly
met with. Due to the excessive
muscular effort to send blood thro
our bodies. Having been present in
fully $\frac{2}{3}$ of the cases of heart trouble
at our clinic, and so well dem-
onstrated by our eminent Professor
of that branch.

Mitral regurgitant

A systolic murmur heard best
at the apex, may be soft rough
or musical its intensity being
varied. It is best transmitted
laterally around the left side
Posteriorly it is often heard

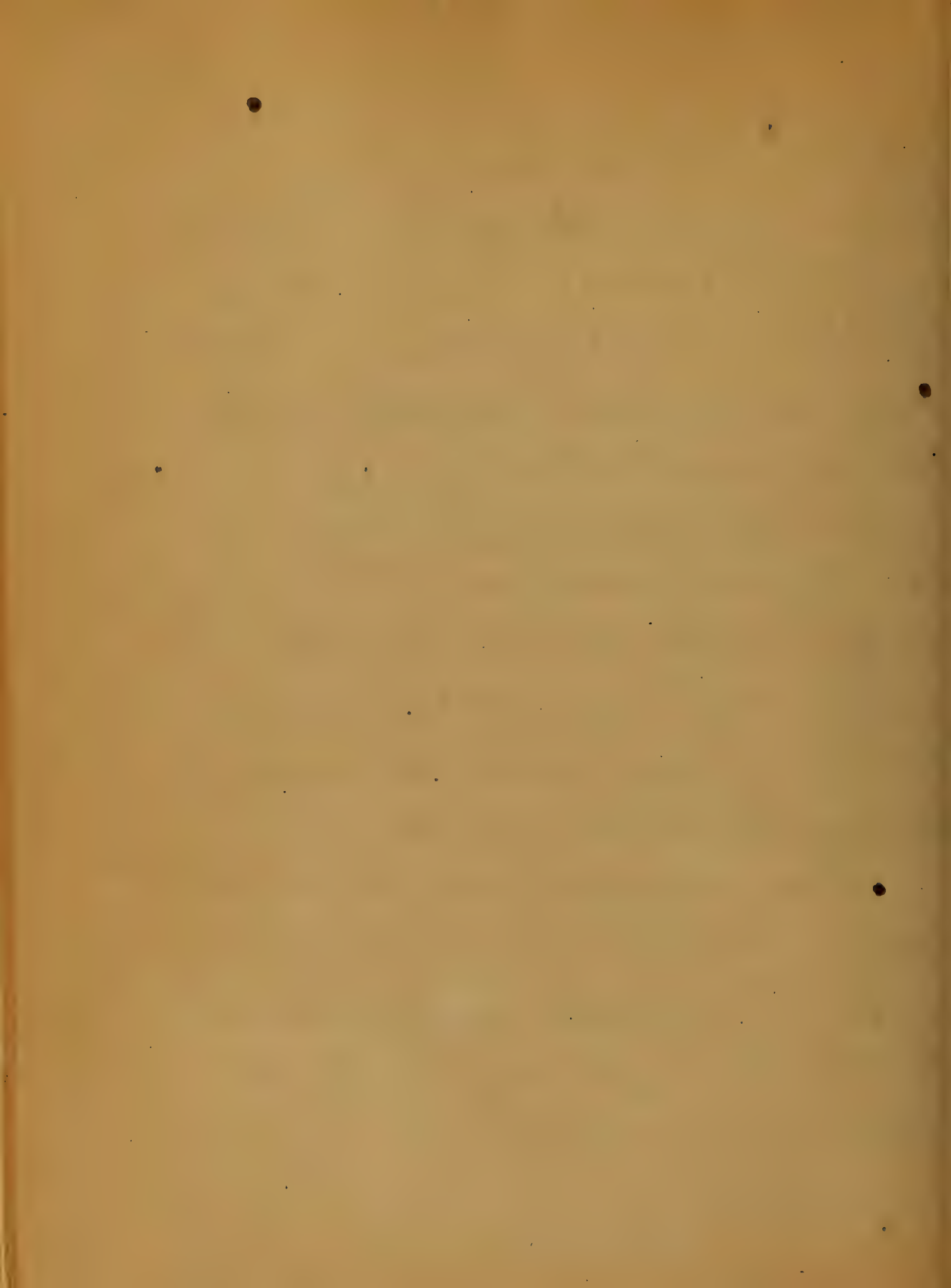


at lower angle of scapula
not infrequently at same place
on right side. If heard at
the back it is diagnosis complete
from mitral murmur with-
out regurgitation.

From mitral direct by rela-
tion to heart sounds. The direct
stops promptly with the systole.

From aortic direct by position
having as before said its maximum
intensity at the apex.

These constitute the principle
lesions likely to be confounded
& the above points closely attended
to should be sufficient for a
correct diagnosis.



Aortic regurgitant

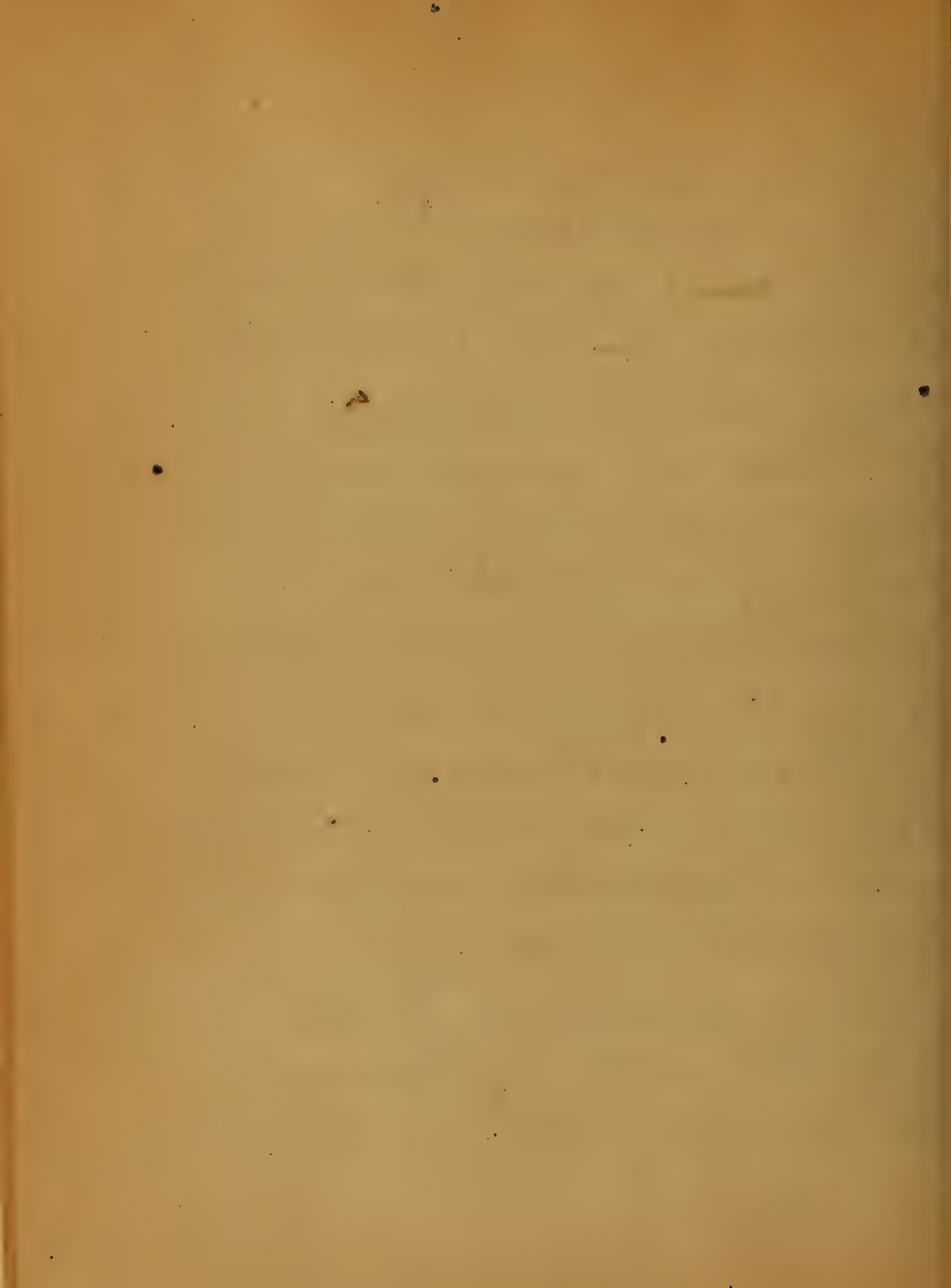
This murmur is caused by insufficiency of semi-lunar valves it is regurgitant in to left ventricle, so must be diastolic

It is the only organic murmur having this relation to heart sounds produced on the left side

It is therefore easily discriminated from all other murmurs

It is almost always heard best at the base near the sternum may be transmitted downwards but is not laterally.

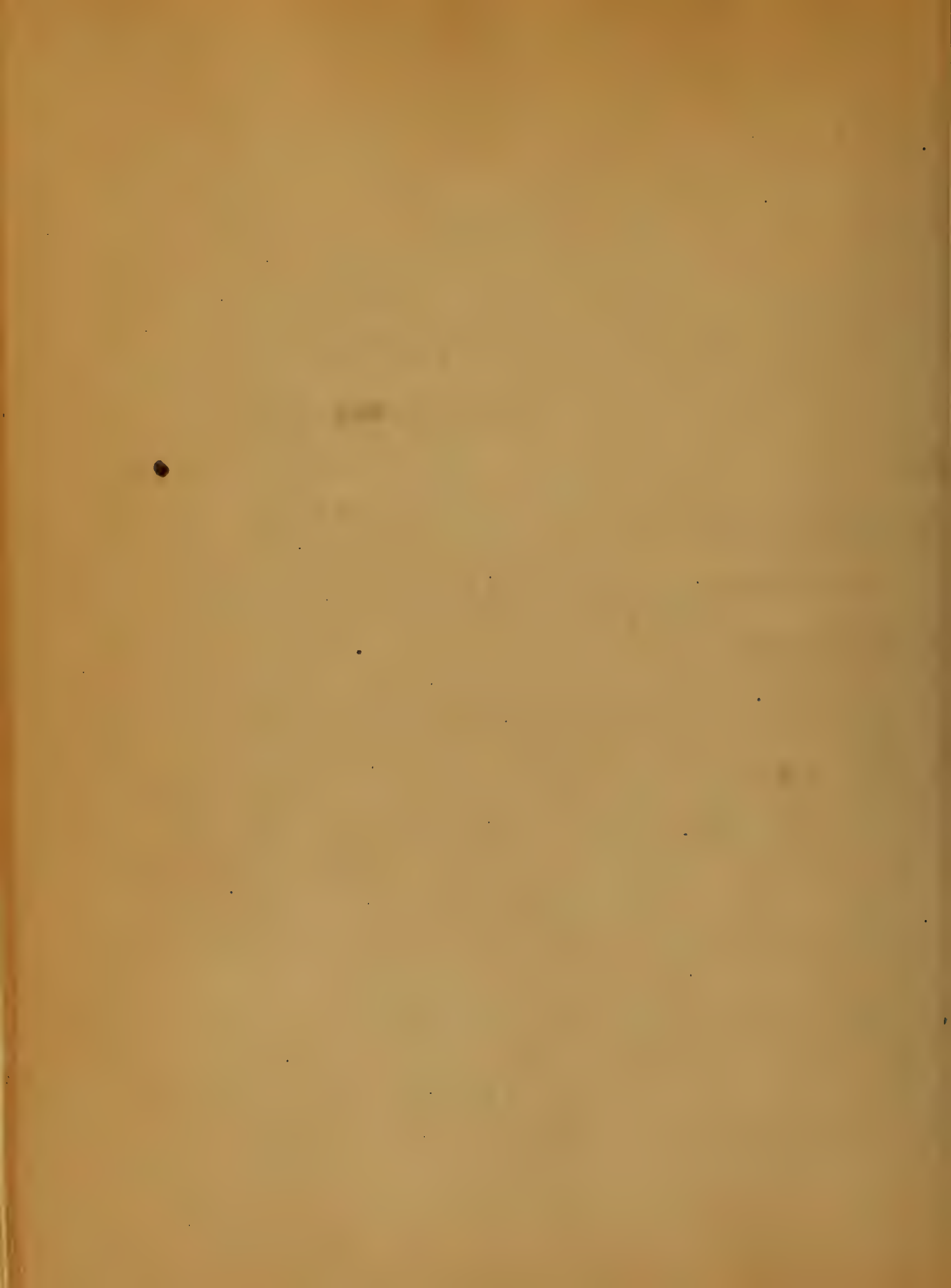
So far, murmurs of the left side have only been considered forming a large majority



Lesions of the tricuspid
and pulmonary valves are ex-
ceedingly rare & will require
only a short consideration

Tricuspid lesions are direct
and regurgitant. The former is
exceedingly rare. It may be
diagnosed from mitral direct
by situation -

Tricuspid regurgitant
while rare is much more common
than the direct. It may arise
from dilatation of right ventri-
cle without lesions. It is of
course systolic as mitral regur-
gitant & must be diagnosed princi-
pally by localization. It is near



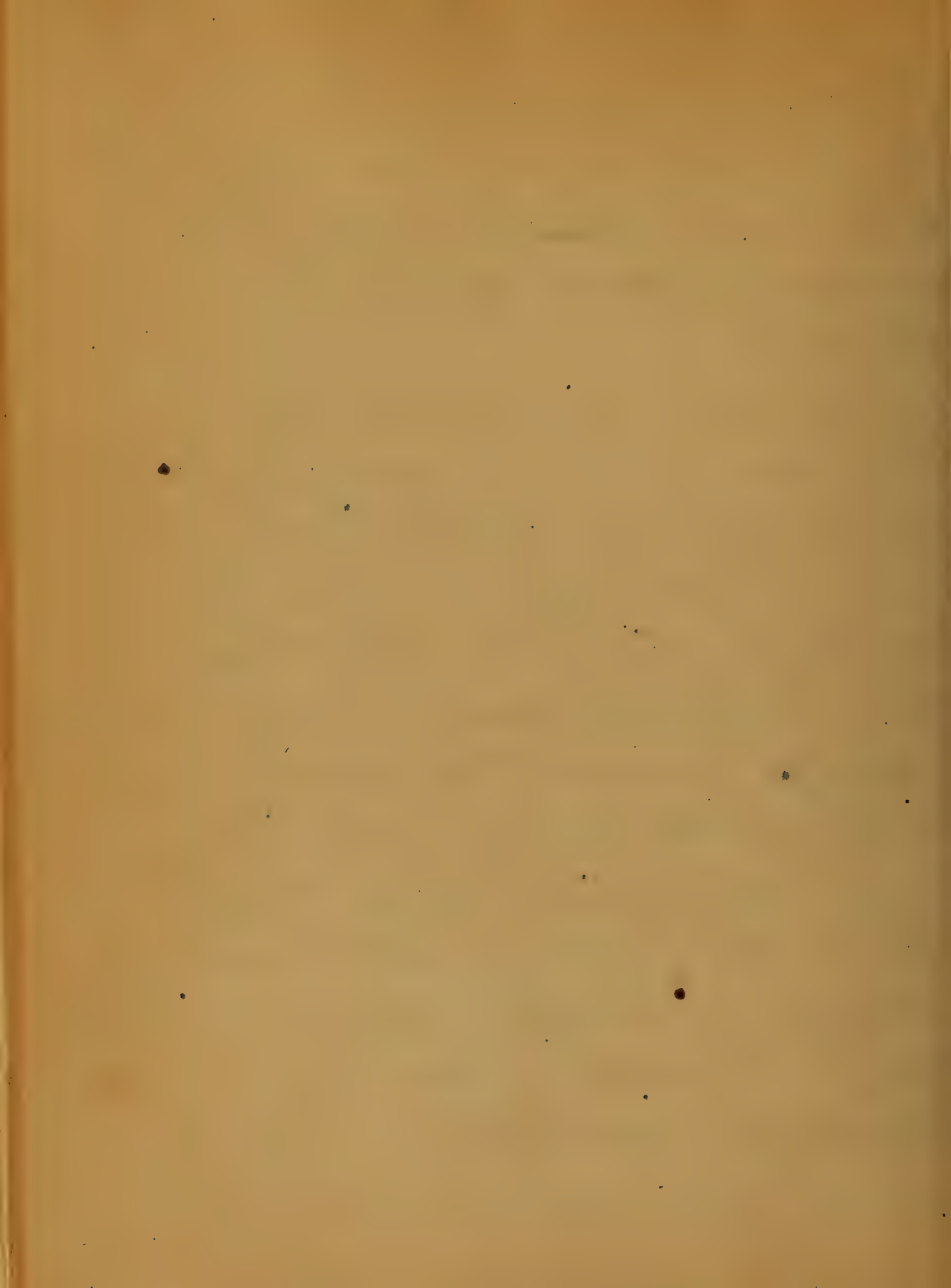
At base and at right margin
of the heart - again a venous pulse
synchronous with the systole is cor-
roborative -

Pulmonic lesions only remain
to be considered - They are rare.

Pulmonic direct, is after congeni-
tal. It must be diagnosed well
from aortic direct & as both are sys-
tolic, the position nearly the same
or may be the same, they will in-
volve points difficult to make out

The essential point is that
a pulmonic direct is not trans-
mitted to the carotid artery -

while an aortic direct is
always transmitted.



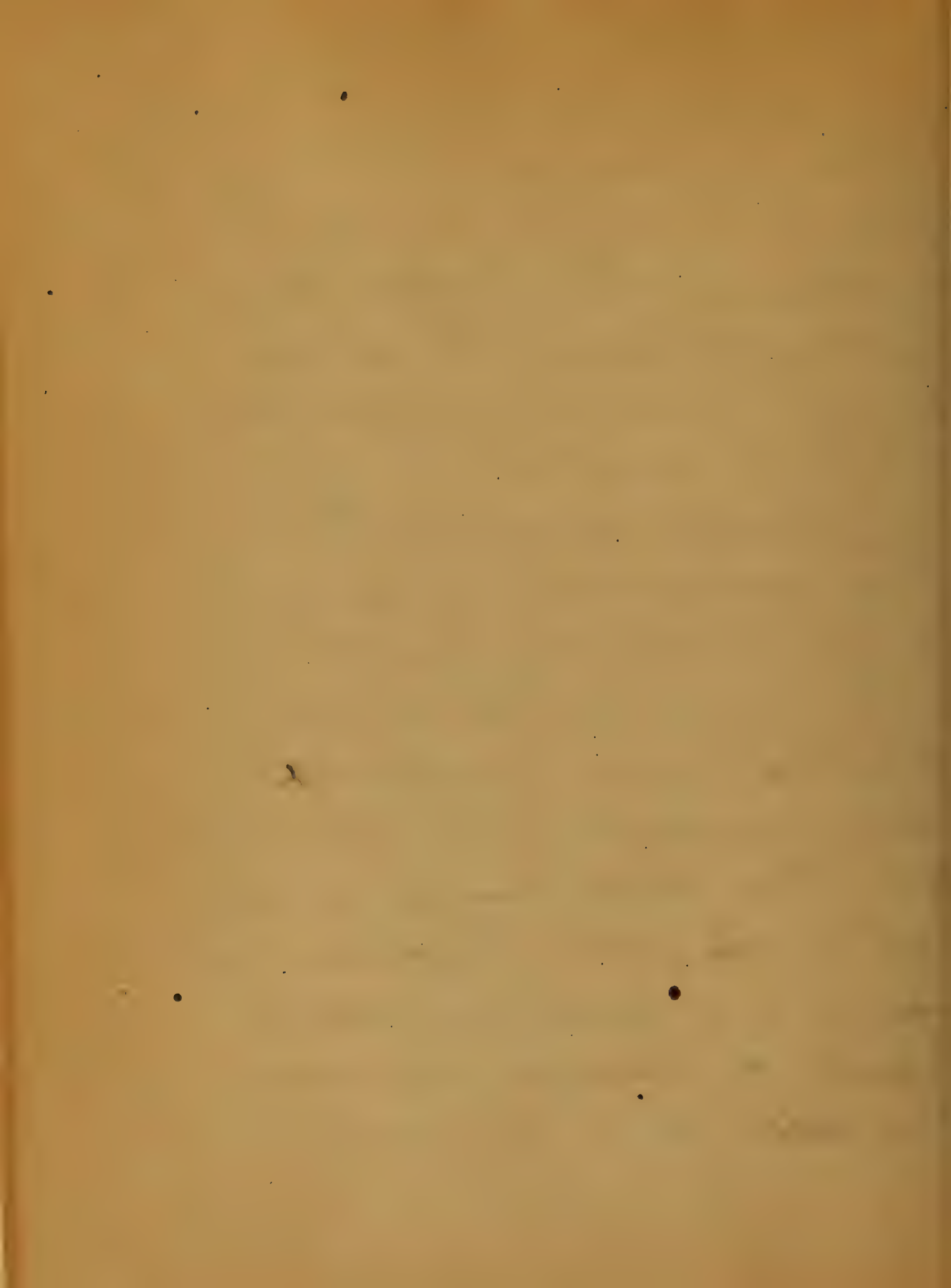
The difference of pitch or quality on different sides of the sternum should show the co-existing murmurs. The one on the right side being transmitted to the carotid.

Pulmonic regurgitant.

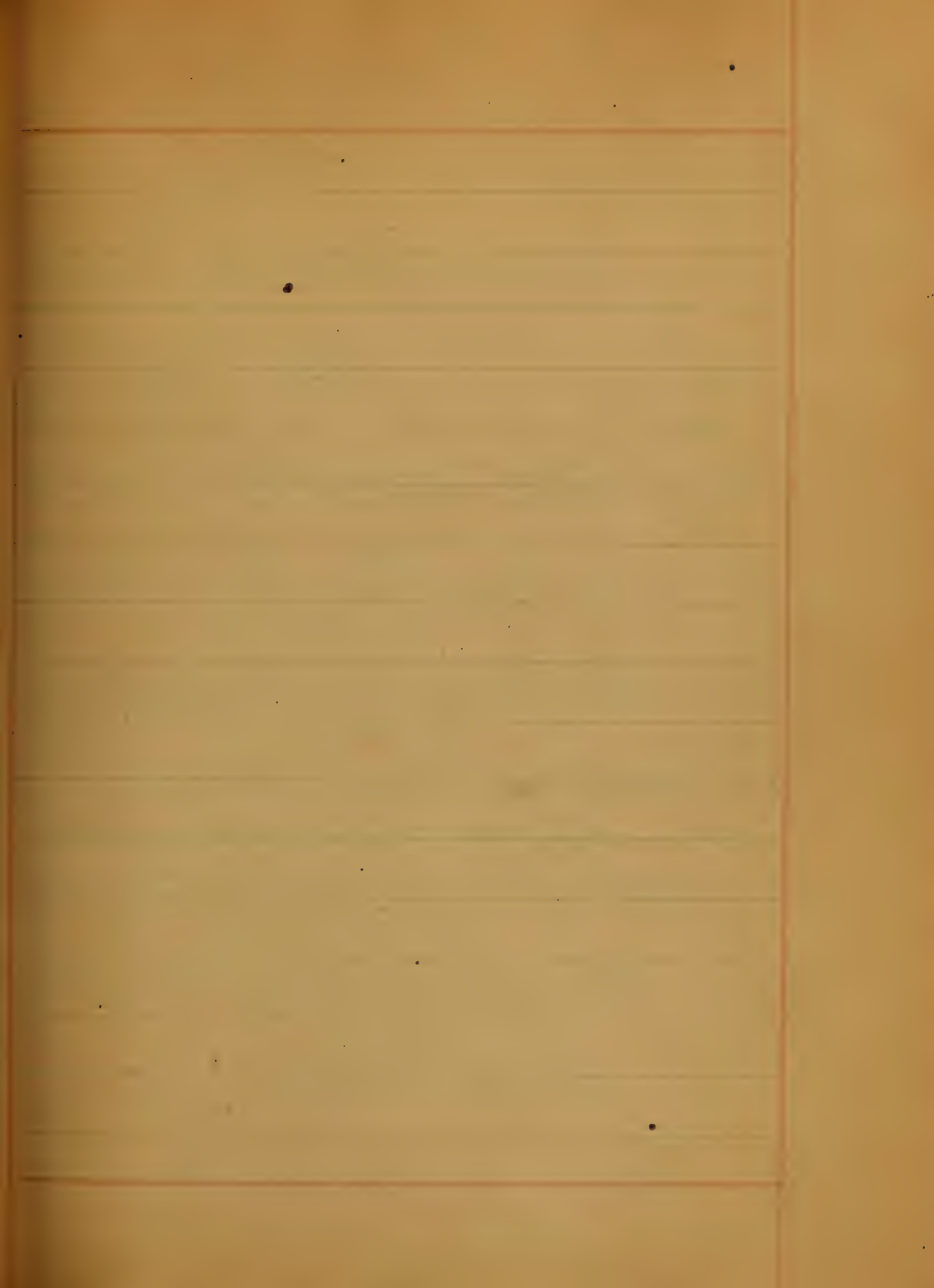
This murmur is so exceedingly vary that little may be said of

It is diastolic & the absence of aortic lesions - together with other signs would point to pulmonic.

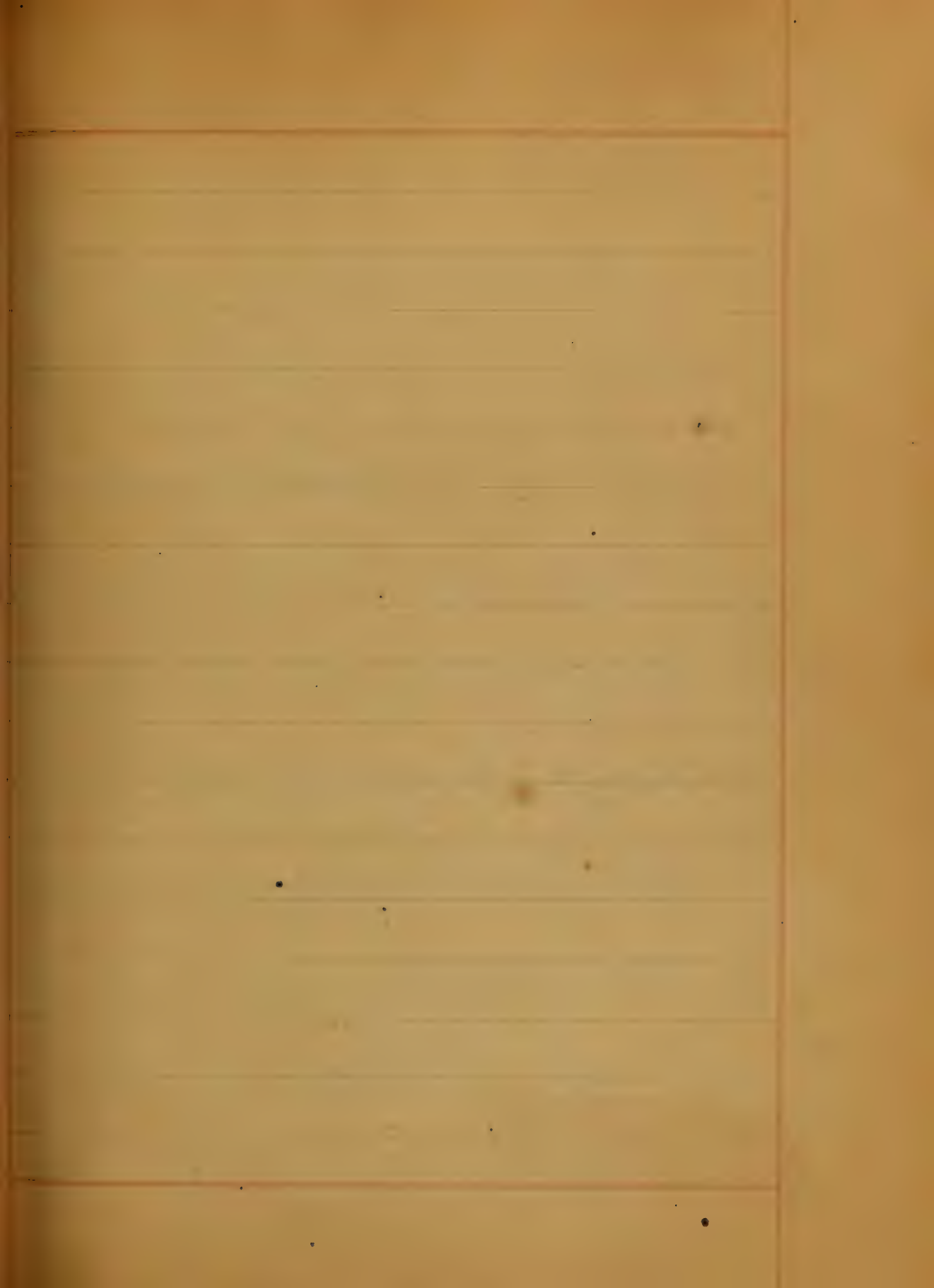
III - The third divisions are difficult to make out by physical diagnosis, and as our subject relates principles of physical diagnosis they will not be considered.





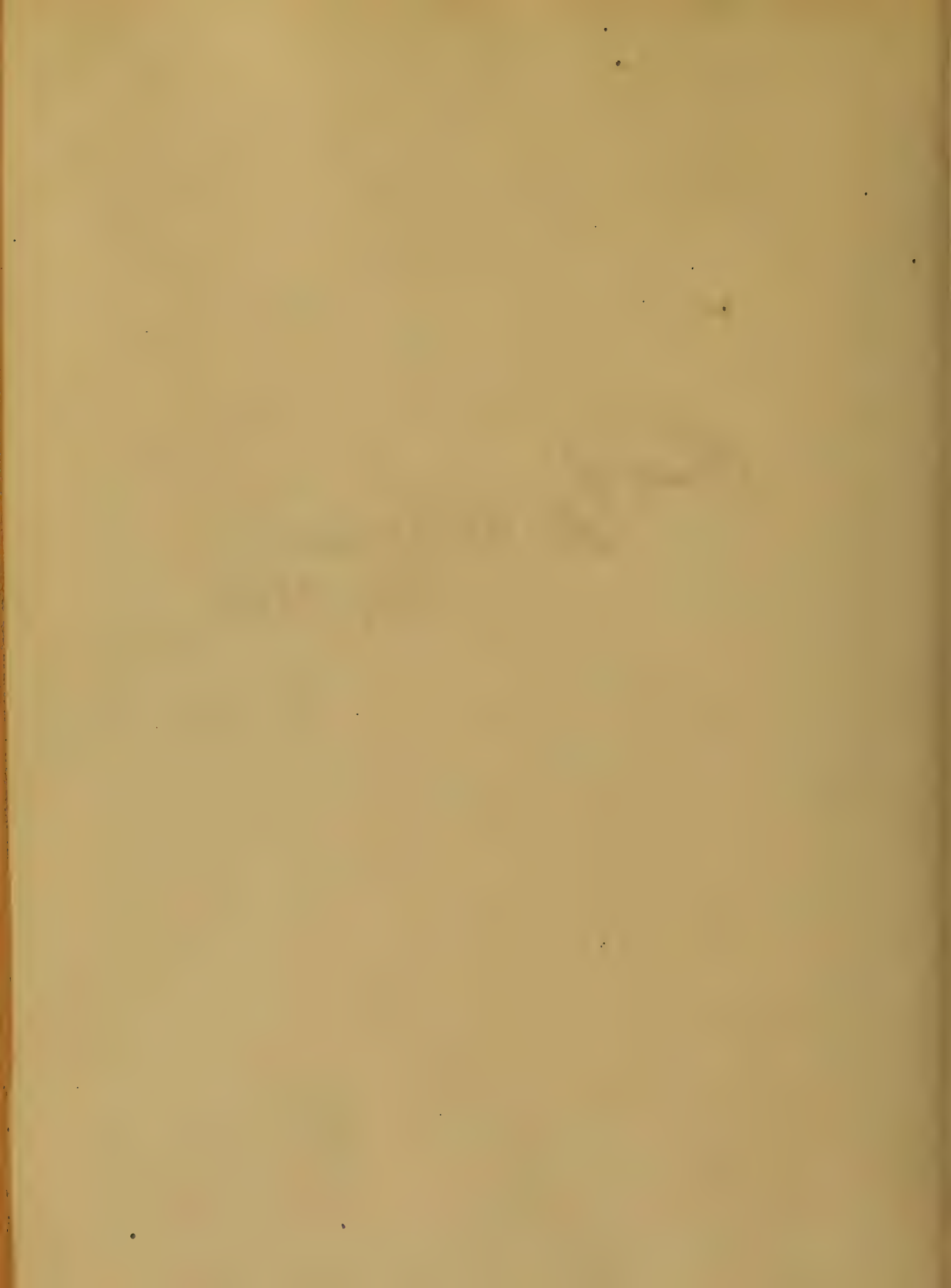








Thesis of
M. A. Thomson.
Feb'y 1880.



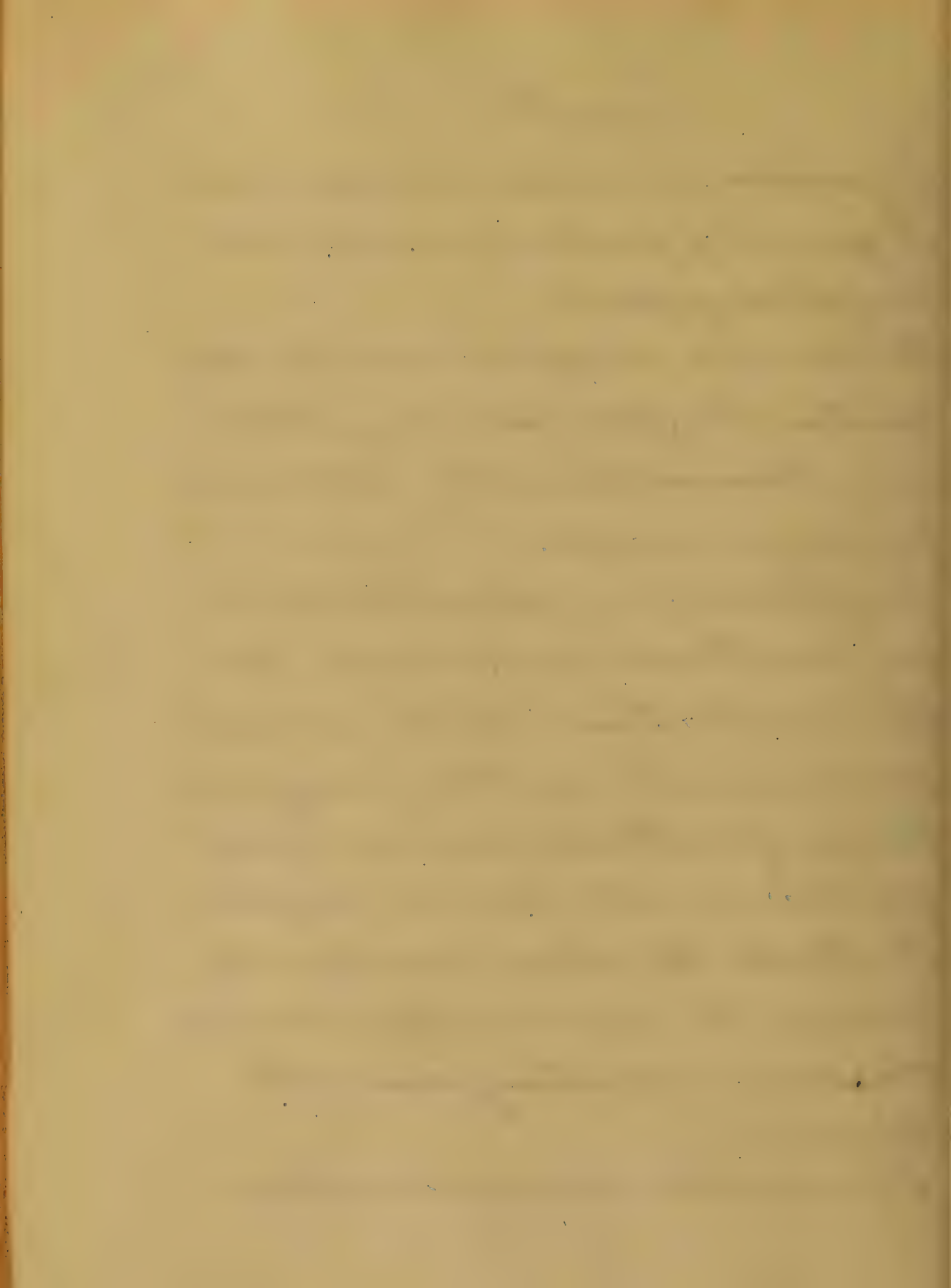
Erysipelas

Erysipelas is a disease, so called because it generally, gradually extends to the neighboring parts.

We have the idiopathic and the traumatic, the former occurring without any known cause, the latter accompanying a wound.

Erysipelas may extend itself over any continuous surface, the skin the areolar tissue, the mucous and serous membranes, the lining membranes of arteries, veins and lymphatics are all liable to be affected. It attacks the skin more frequently because it is more subject to wounds, the common exciting cause of the disease.

Therefore the external is much more



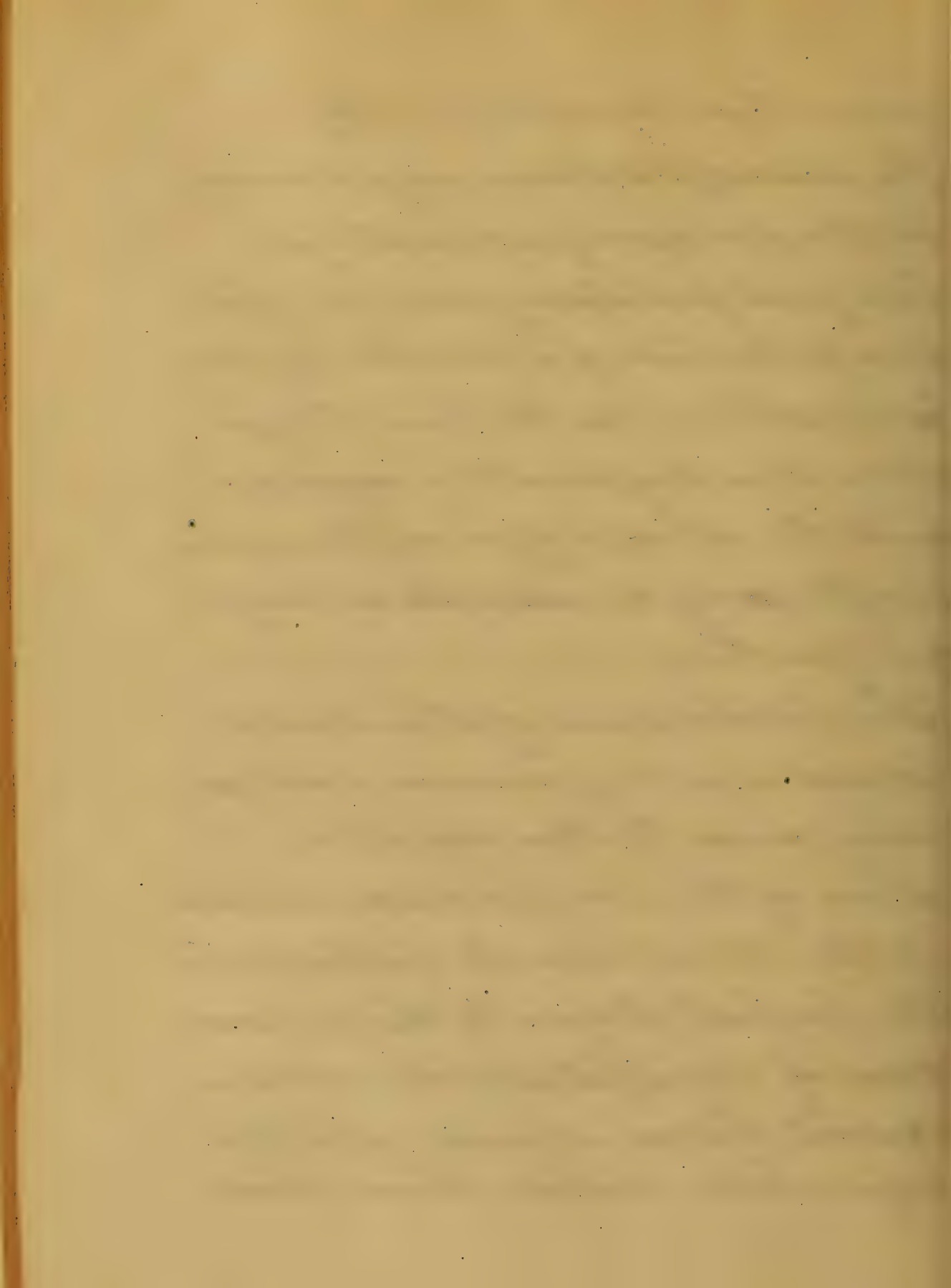
common than the internal variety.

The causes of this disease may be divided into the predisposing, and exciting.

The great predisposing cause of Erysipelas is the want of attention to hygienic conditions. Were the laws of hygiene observed as they should be erysipelas and the allied diffuse inflammation would rarely be met with in surgical practice.

The habitual use of stimulants to excess is a very common predisposing cause to this affection.

Some of the low, diseased conditions of the blood seem to predispose in the highest degree to the supervention of Erysipelas, such as chronic visceral disease, especially of the kidneys or liver, diabetes chronic diar-



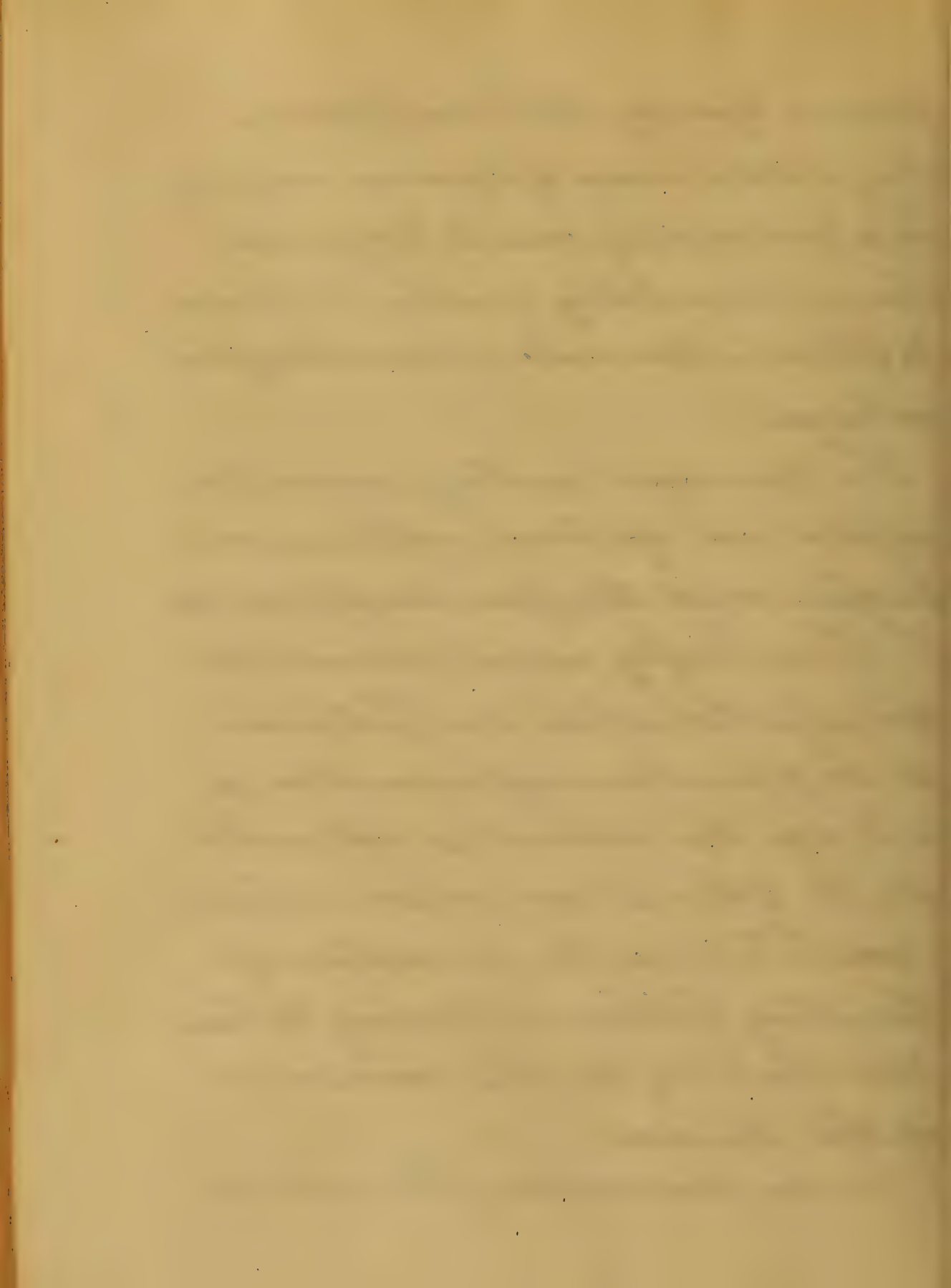
shock or dysentery, deprivation of food &c.

Any sudden source of depression may act as a predisposing cause to Erysipelas, hence in military practice it is known to follow in the wake of secondary hemorrhage.

The principal exciting causes of Erysipelas are epidemic influence, contagion, and the presence of a wound.

It is chiefly recent wounds that are affected, when once ^{the} adhesive or suppurative inflammation is set up, the wound is not so liable to take it on unless in bad constitutions, the formation of limiting fibrin appearing to lessen the liability to the occurrence of the disease.

In our description of this disease

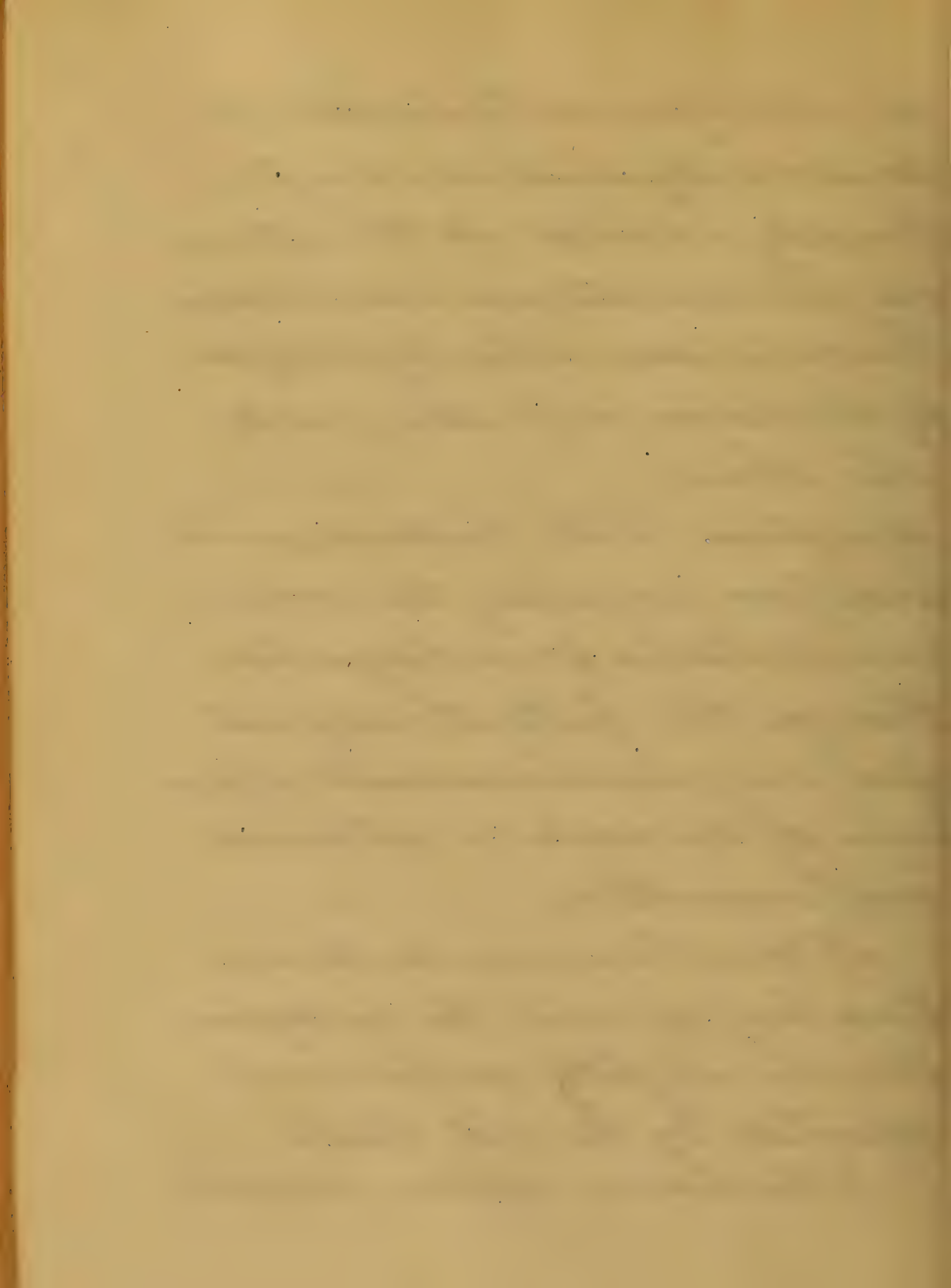


we will confine our attention to the external variety, which according to Kunneley is divided into the Cutaneous, Cellulo-cutaneous and Cellular. The cutaneous is the slightest form of the disease, implicating merely the skin.

Symptoms. Chill, headache, nausea and fever preceding the local manifestations for a day or two, though the patient may not feel any uneasiness until appearance of the rash or cutaneous inflammation.

If there be a wound its secretions dry up and the margins become slightly swollen and affected by the red blush.

If the disease appear idiosyncratic

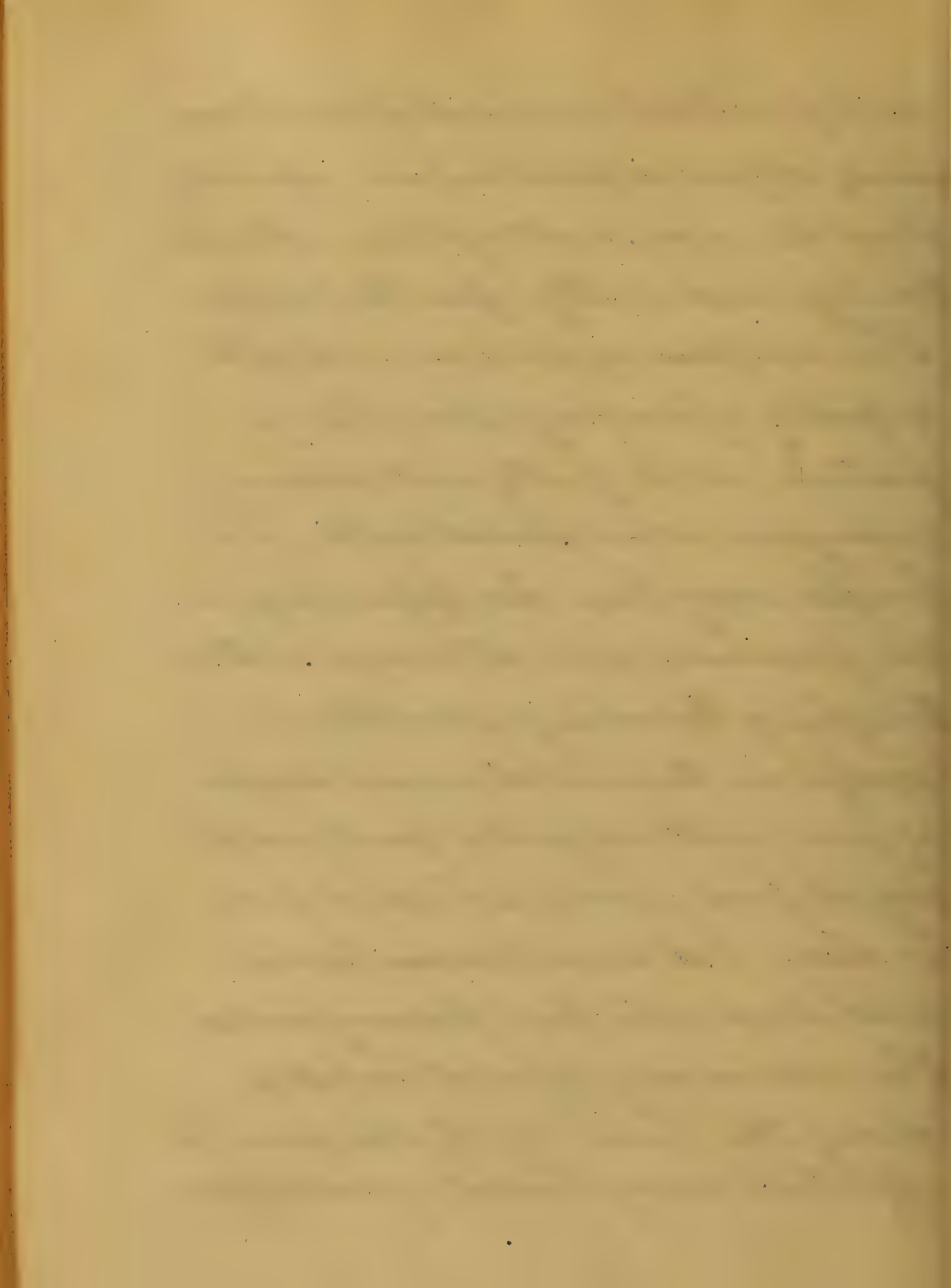


scally, without a wound, it most commonly appears upon the face especially about the nose, ears & eyelids, next upon the legs and lastly upon the trunk.

The eruption appears as a red spot rapidly spreading into a large patch, with pretty well defined margins somewhat elevated, of a bright rosy hue disappearing under pressure, and attended with a tingling burning sensation.

Except in the mildest cases vesicles appear on the affected part, containing at first serum which at first is clear but soon becomes turbid and dries into fine branny scales.

The redness may spread rapidly along the limb or if the face be affected may travel quickly from



one side to the other causing such swelling of the eyelids, as to close them, and giving rise to swelling and much tensive pain in the ears.

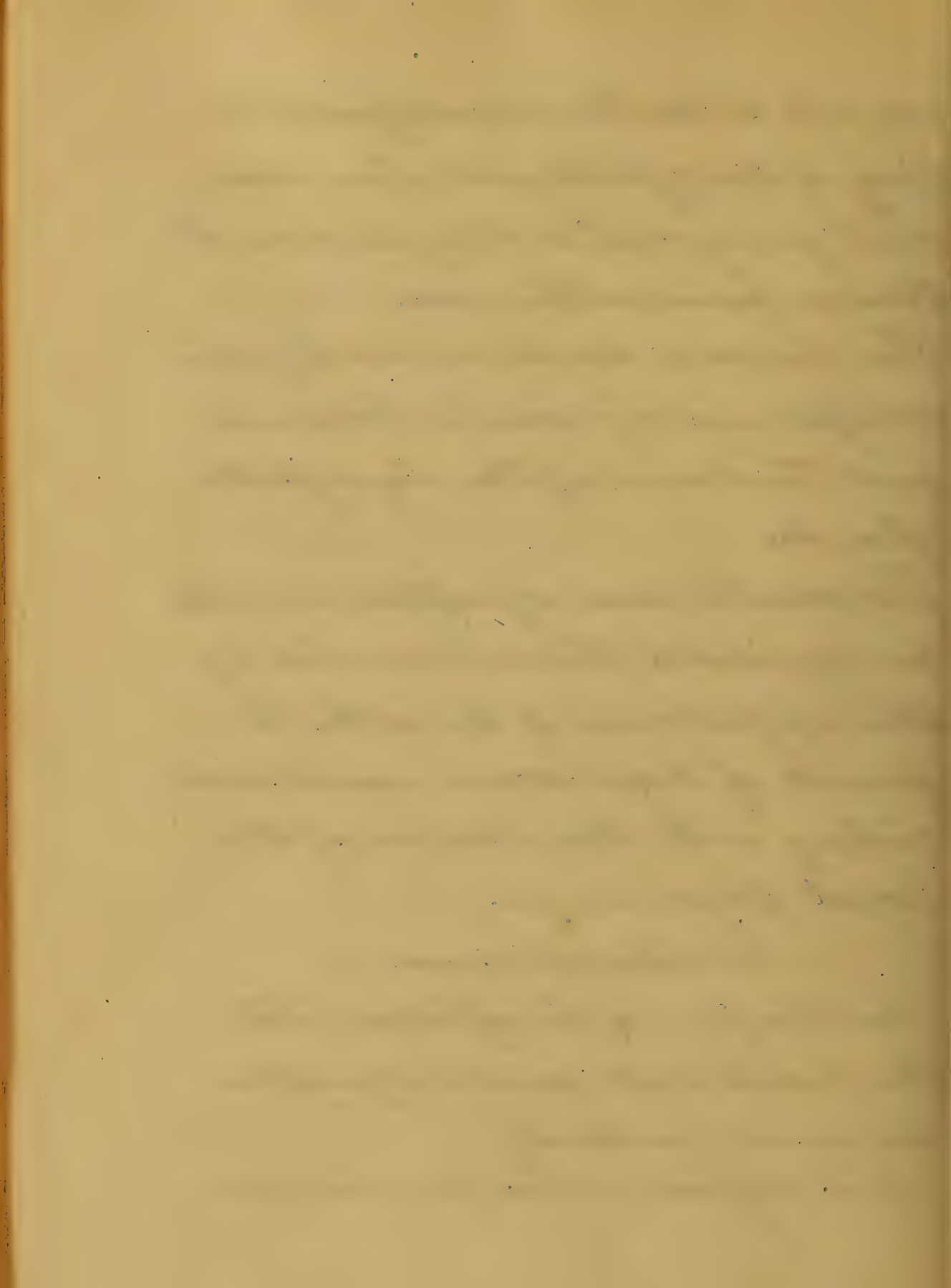
The disease is almost invariably accompanied by some enlargement and tenderness of the lymphatic glands.

The constitutional symptoms are rather aggravated than diminished by the appearance of the rash, the period of defervescence usually coinciding with the decline of the local phenomena.

Muculo-cutaneous.

In this form of the affection both the local and general symptoms are more marked.

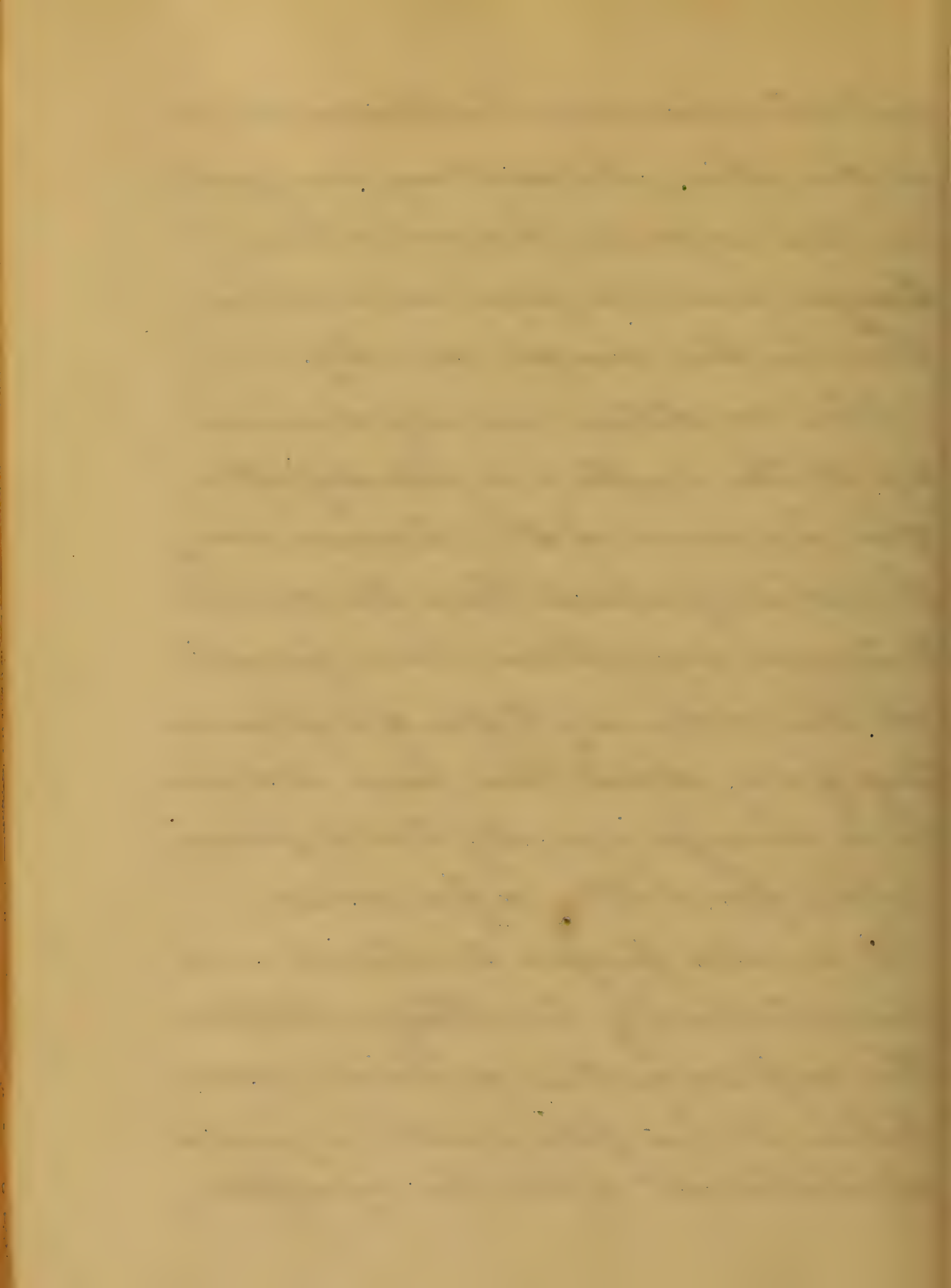
The inflammation is also the



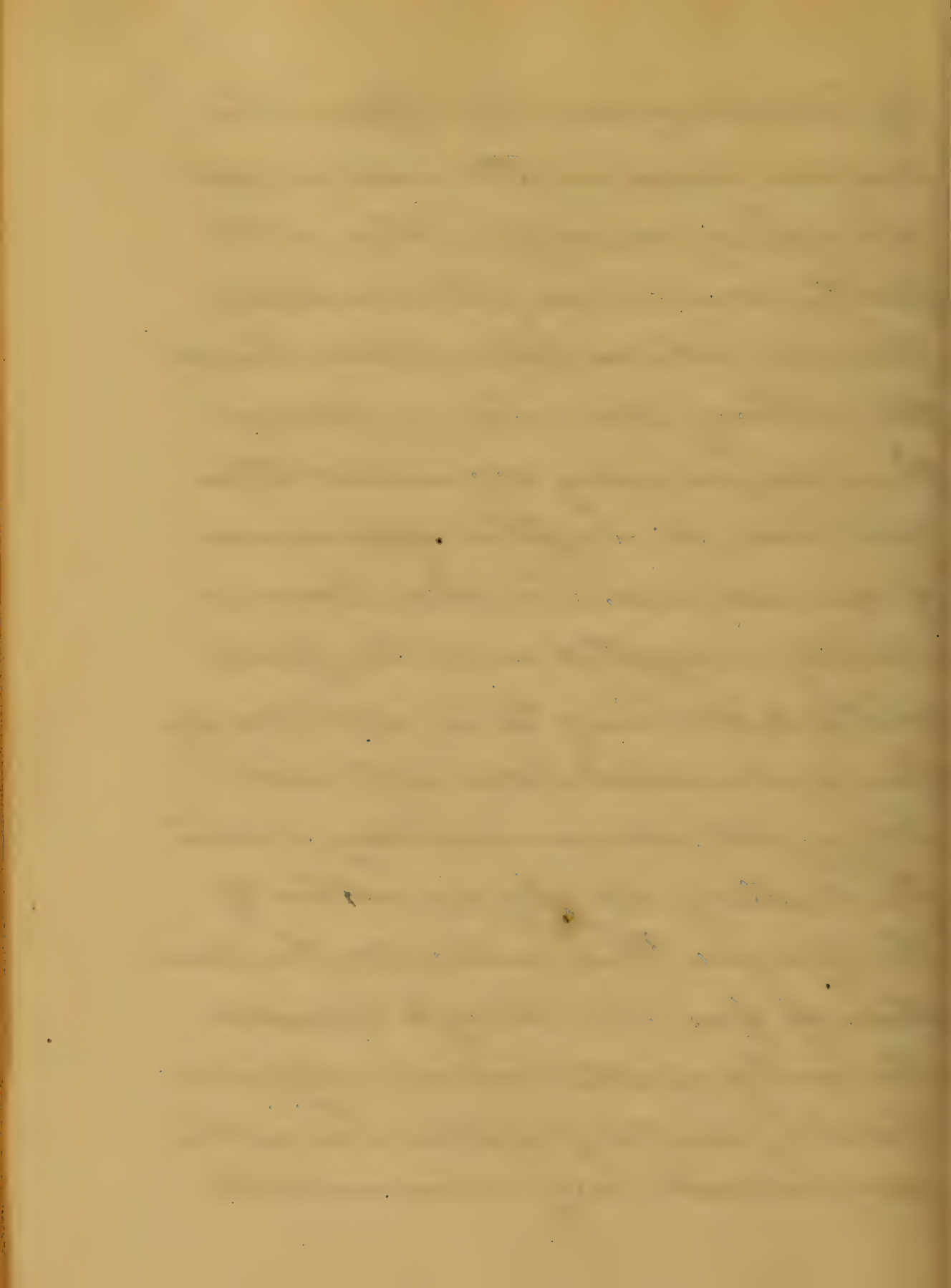
subcutaneous connective tissue as well as the skin, the swelling being greater, the color darker, vesications larger and the pain more intense than in the simple variety.

This condition usually continues up to the sixth or eighth day after the invasion of the disease, during the whole of which time the constitutional symptoms have presented the ordinary type of inflammatory fever, about this time however a change usually takes place either for better or for worse.

If under proper treatment, and in a tolerably healthy constitution the inflammation subsides, resolution takes place with a gradual abatement of all the symptoms.

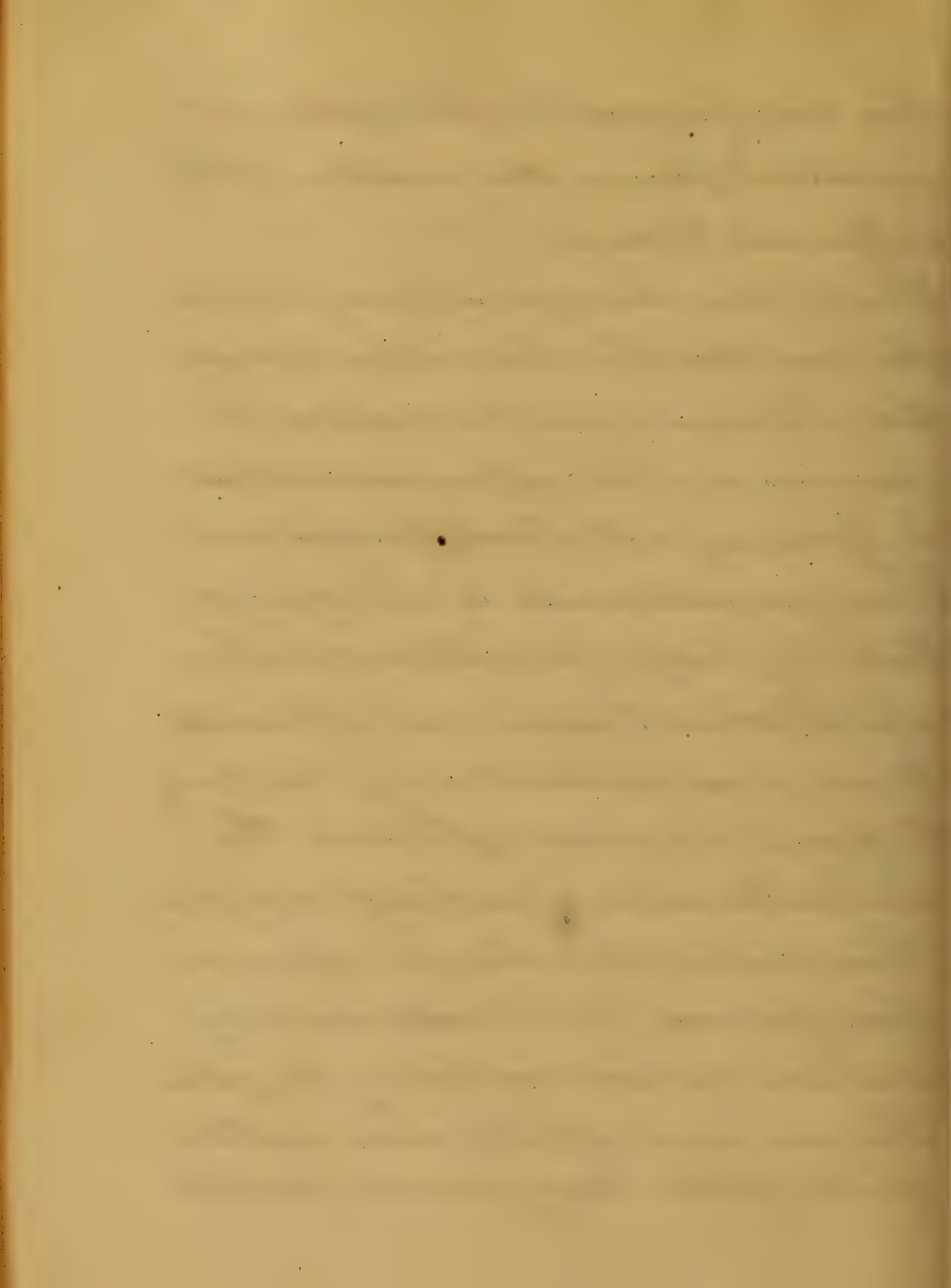


If however as usually happens the disease runs on to more or less sloughing or suppuration of the part, no increase of the swelling, pain or redness takes place, but on the contrary some diminution of these signs may occur, and thus give rise to deceptive appearance of amendment. The skin becomes darkly congested and the part instead of being tense and brawny has a somewhat loose, soft and boggy feel, communicating a semi-fluctuating, doughy sensation to the fingers. This indicates the formation of pus and slough beneath the integument, which can only be detected by careful palpation. Hence the surgeon must daily examine with



his own fingers the state of the part
in order to know the condition of the
subjacent tissues.

While these changes are going on below
the surface, the skin at first congested,
becomes somewhat paler and
assumes a white appearance which
by forming into black sloughs and
being undermined to a large ex-
tent by large quantities of broken
up areolar tissue and ill-condi-
tioned pus without any tendency
to point, however extensive the
subcutaneous mischief may be.
These destructive changes expose mus-
cles, fasciae, blood vessels and may
induce necrosis or destroy the joints.
They are most apt to occur in those
parts of the body which have the



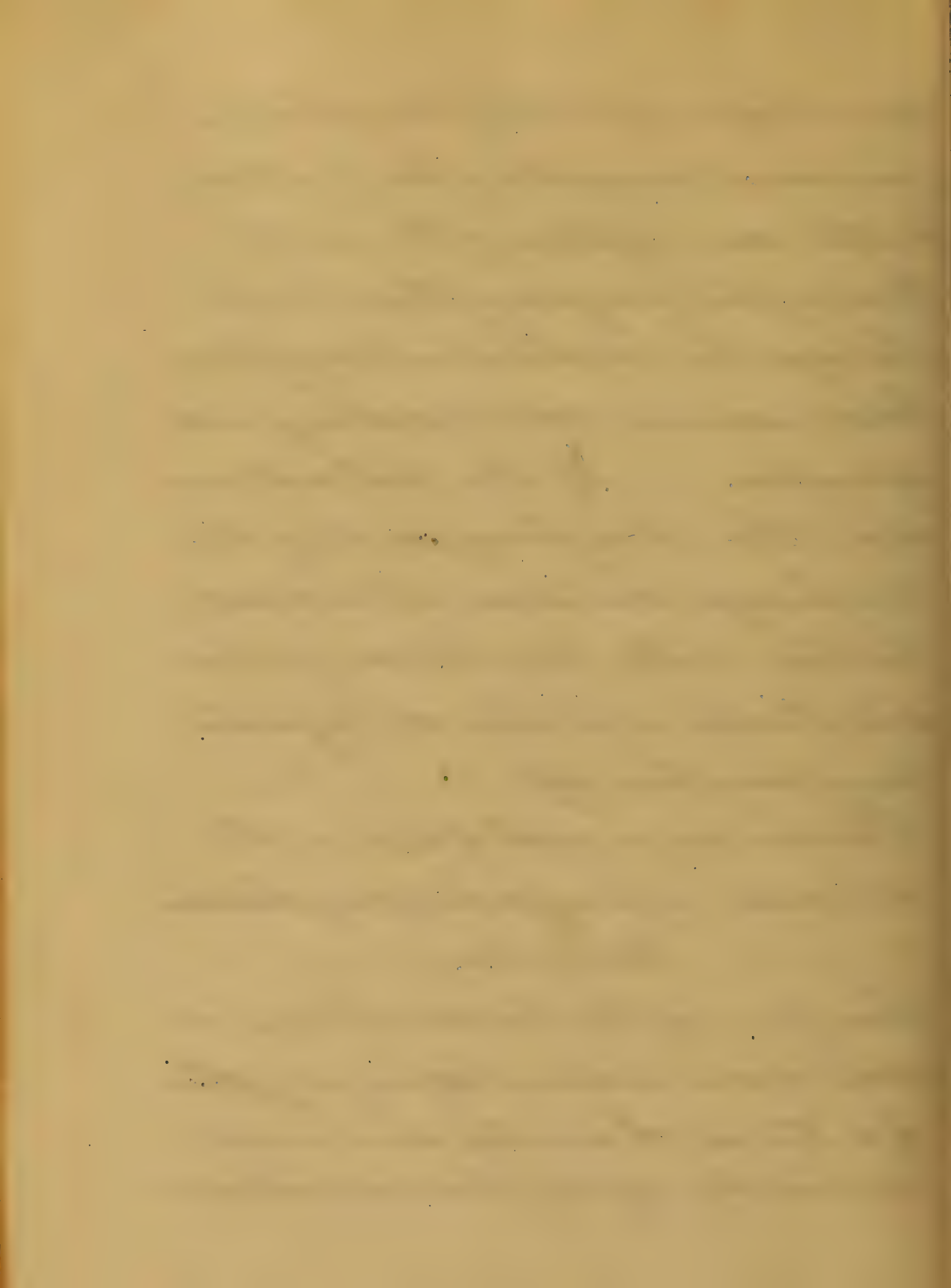
lowest degree of vitality, hence are more common in Erysipelas of the legs than in the same affection of the scalp.

During the progress of these local changes the constitutional symptoms have assumed corresponding modifications. If the patient survive the sloughing and if the discharge continue abundant, hectic, with diarrhoea gastro-intestinal irritation or pyæmia may carry him off.

This disease is most fatal in the old and infirm, or in young children.

Cellular.

This form of the disease always or rises from a wound or injury, often of a trivial character, and most commonly affects the subcutaneous

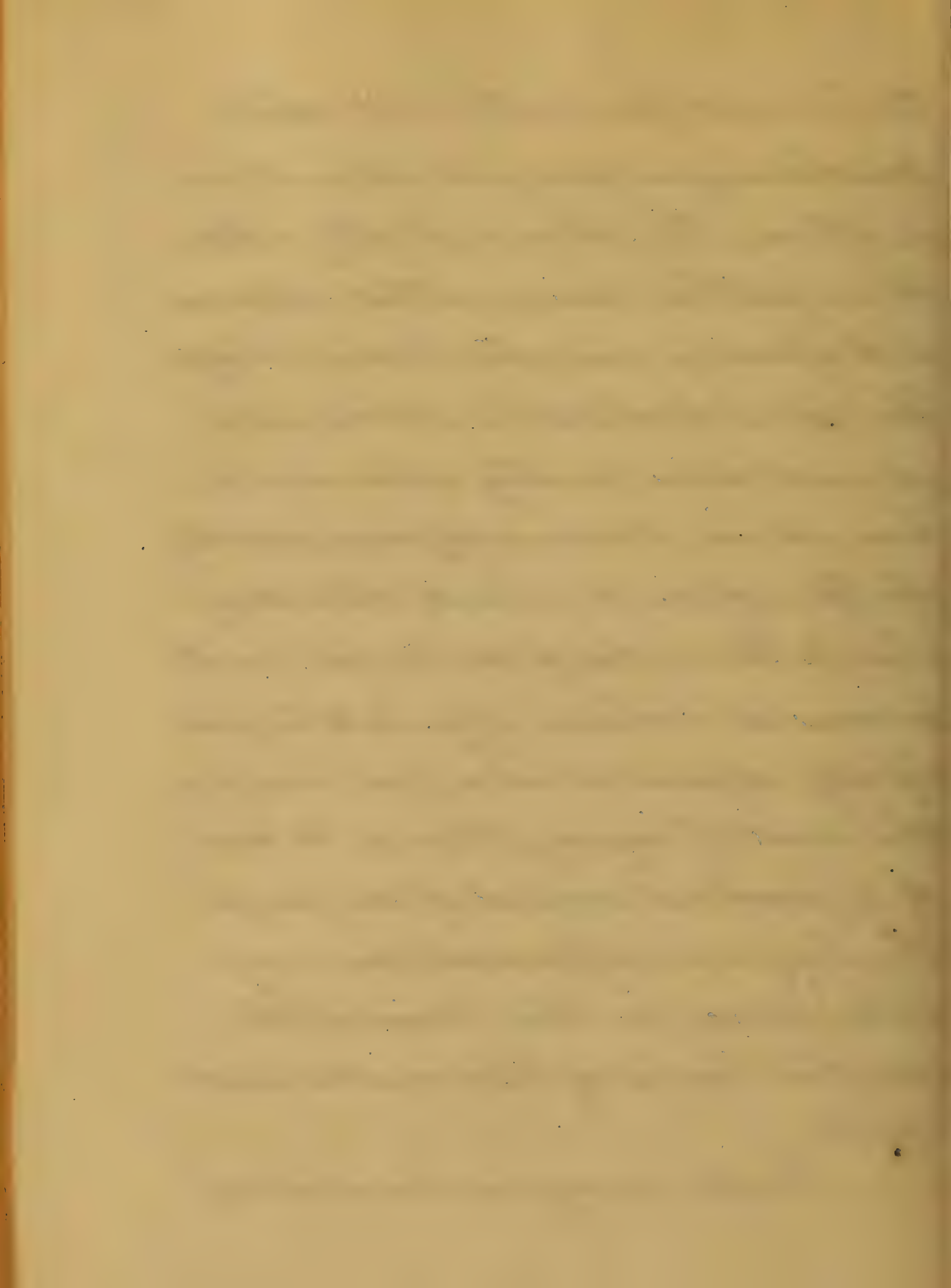


areolar tissue. Though commonly arising from ordinary injuries, it is especially apt to follow those in which there have been an inoculation of animal poisons. as from dissection wounds, the stings of insects and bites of venomous reptiles. In whatever way arising it is characterized by the rapidity and extent of the swelling of the affected tissue, and great depression of the powers of the constitution. That the diffuse inflammation of areolar tissue, whether it be limited to a finger or implicate the areolar tissue of half the body, is a variety of Erysipelas affecting this texture primarily and the skin secondarily there can be no doubt.

Signs There are great swelling

Tension and pain in the limb which
feels branny in some parts & edematous in
in others. The skin is slightly reddened
in patches, has a mottled appearance
and speedily runs into blackish sloughs.
The extent to which the disease may
spread varies greatly, when once it
has set in, it commonly runs rapidly
up the whole of a limb, extending
also to the sides of the trunk, in other
cases its violence appears to be prin-
cipally expended at a distance from
the seat of injury, thus in the case
of a fractured wound of the finger
the diffuse inflammation may
take place in the plexus of the
axillary tissue of the axilla and
chest.

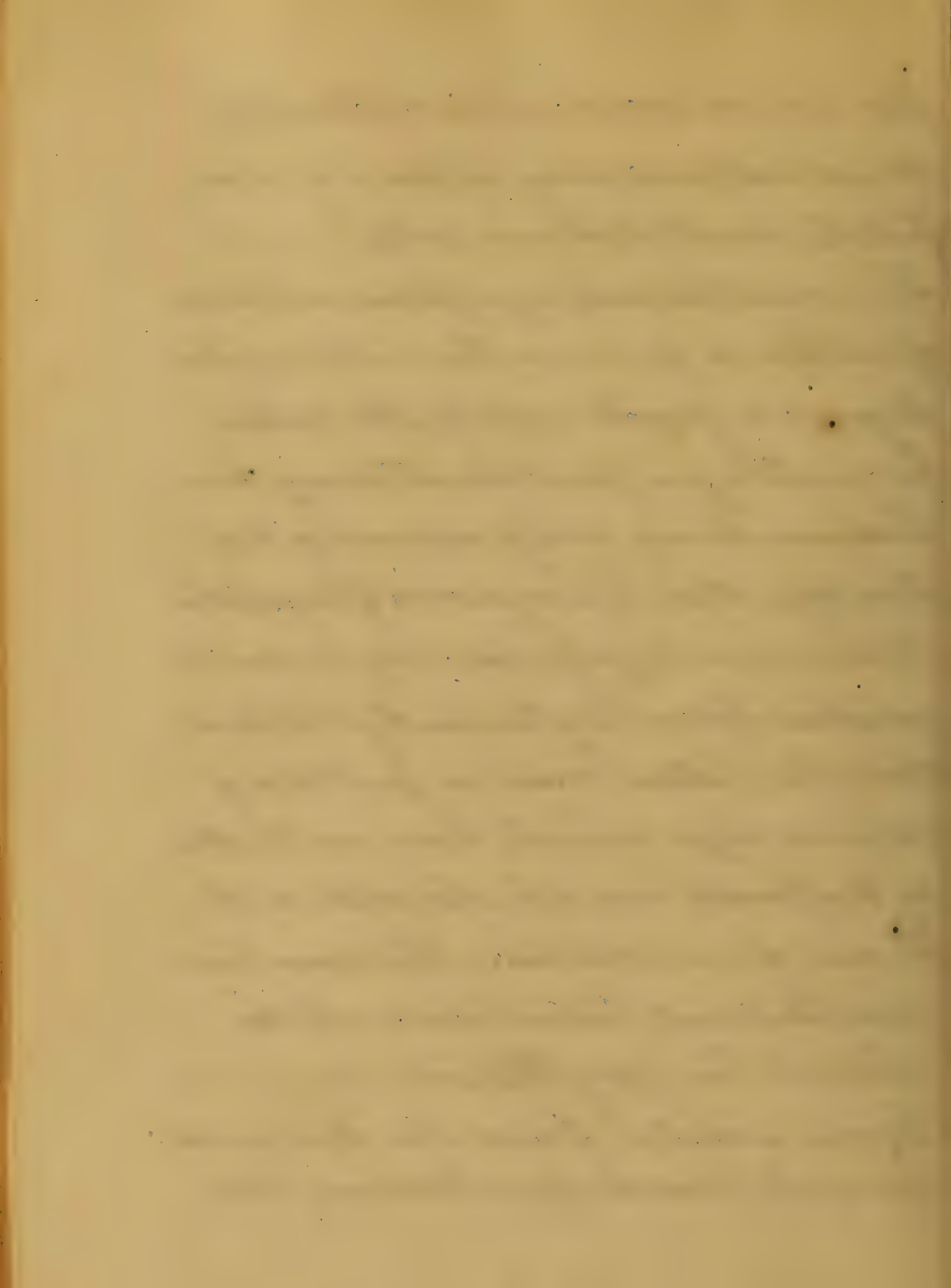
Death may in this form of



The disease occur in two or three days
or several week may elapse before a
fatal result declares itself.

The constitutional symptoms are those
of septic fever in the most marked
degree; a quick and feeble pulse,
brown tongue, and muttering de-
lirium being early concomitants of
this affection. Diagnosis of Erysipelas
Cutaneous Erysipelas may be distin-
guished from Erythema by the fact
that the latter occurs in patches of
various size which have no tenden-
cy to spread are not elevated and
do not form vesicles. The marked
constitutional disturbance etc is
absent in erythema.

From scarlet fever the diagnosis
may be made by observing the

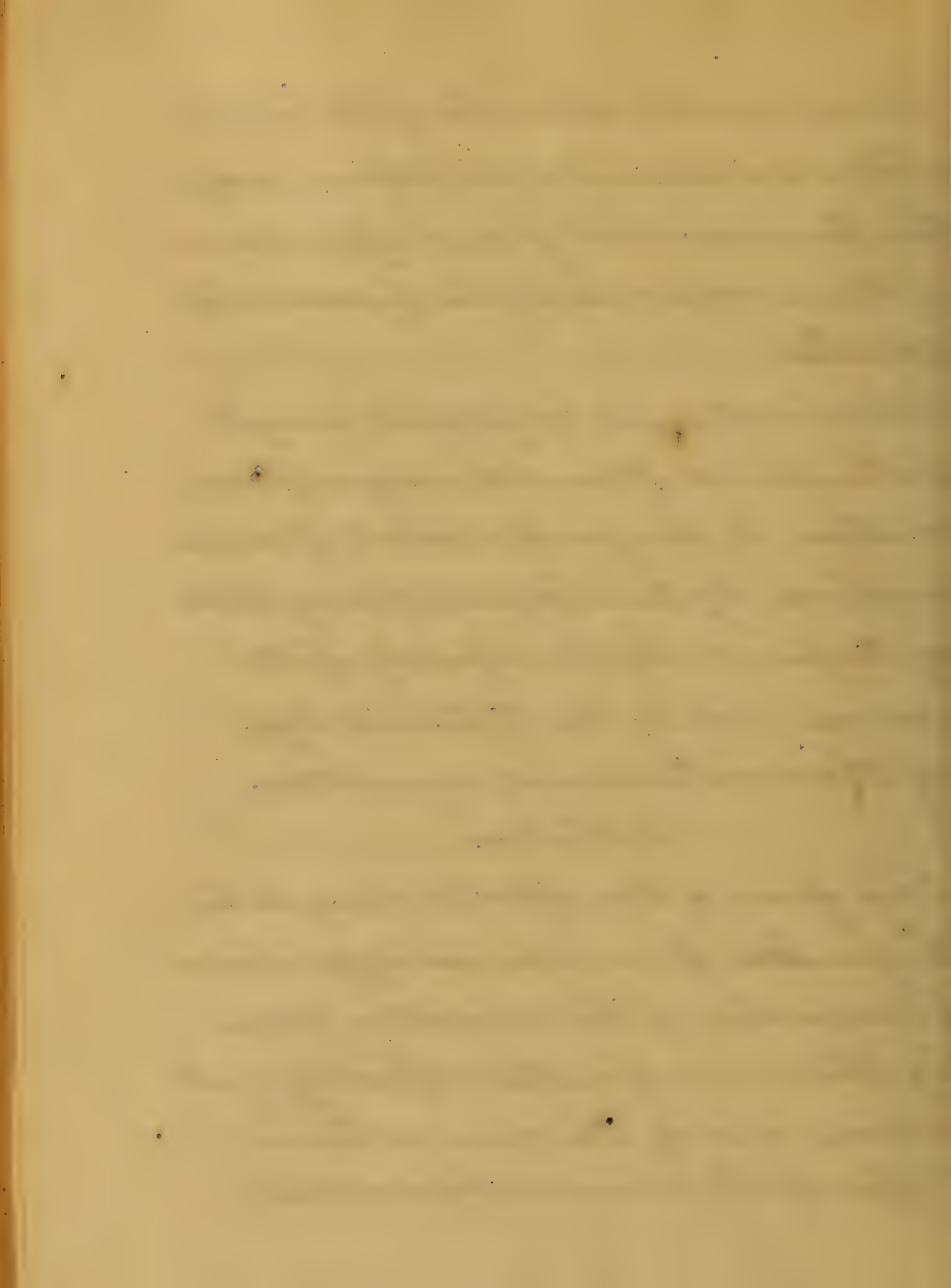


circumscribed character of the erysipelatous eruption, its well defined margins, the tenses and glazed appearance of the surface, and the presence of vesicles.

Cellulo-erythematous Erysipelas may be distinguished from ordinary inflammation, by the greater extent of surface involved, by the absence of any tendency to point, by the rapidity of its course, and by the typhoid type of the constitutional symptoms.

Cellular.

This form of the affection may be distinguished from common diffuse inflammation of the connective tissue, by the even greater rapidity of its course, and by the more asthenic type of its general symptoms.



Prognosis.

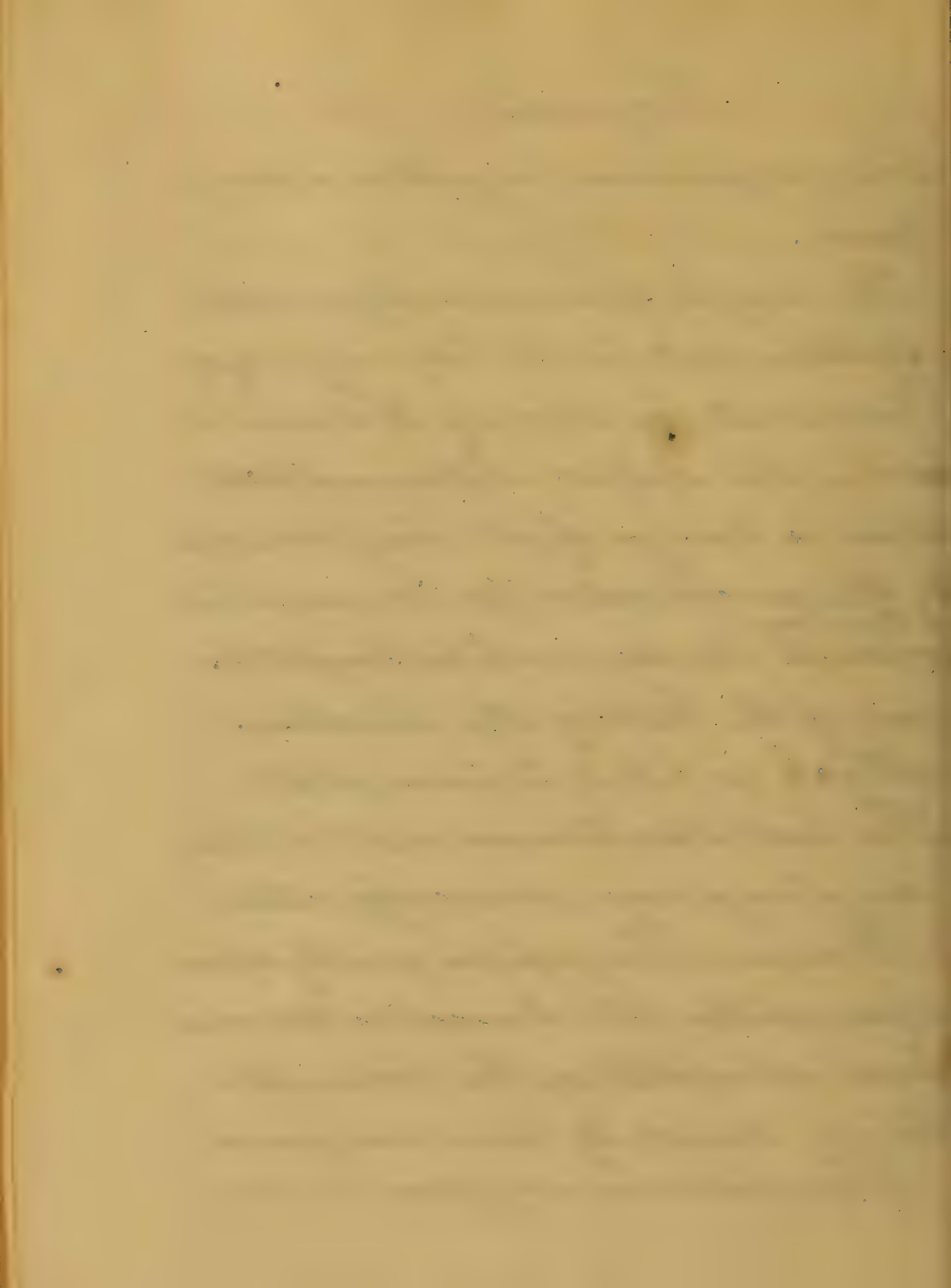
The prognosis in Erysipelas is always grave.

The simple form is usually a mild affection, and in the large majority of terminates in recovery. If however it involve the scalp or abdominal wall there is danger of its being transferred to the arachnoid or peritoneum, while ^{if there be any} visceral disease, such as Bright's disease of the kidney the slightest attack is likely to prove fatal.

The Cellulocutaneous and Cellular, are always very serious affections.

Danger in Erysipelas greatly depends upon whether the disease is traumatic or idiopathic, the traumatic being decidedly more dangerous.

Erysipelas in any form is a very



serious disease in young children.

Very old persons, and in women in the puerperal state.

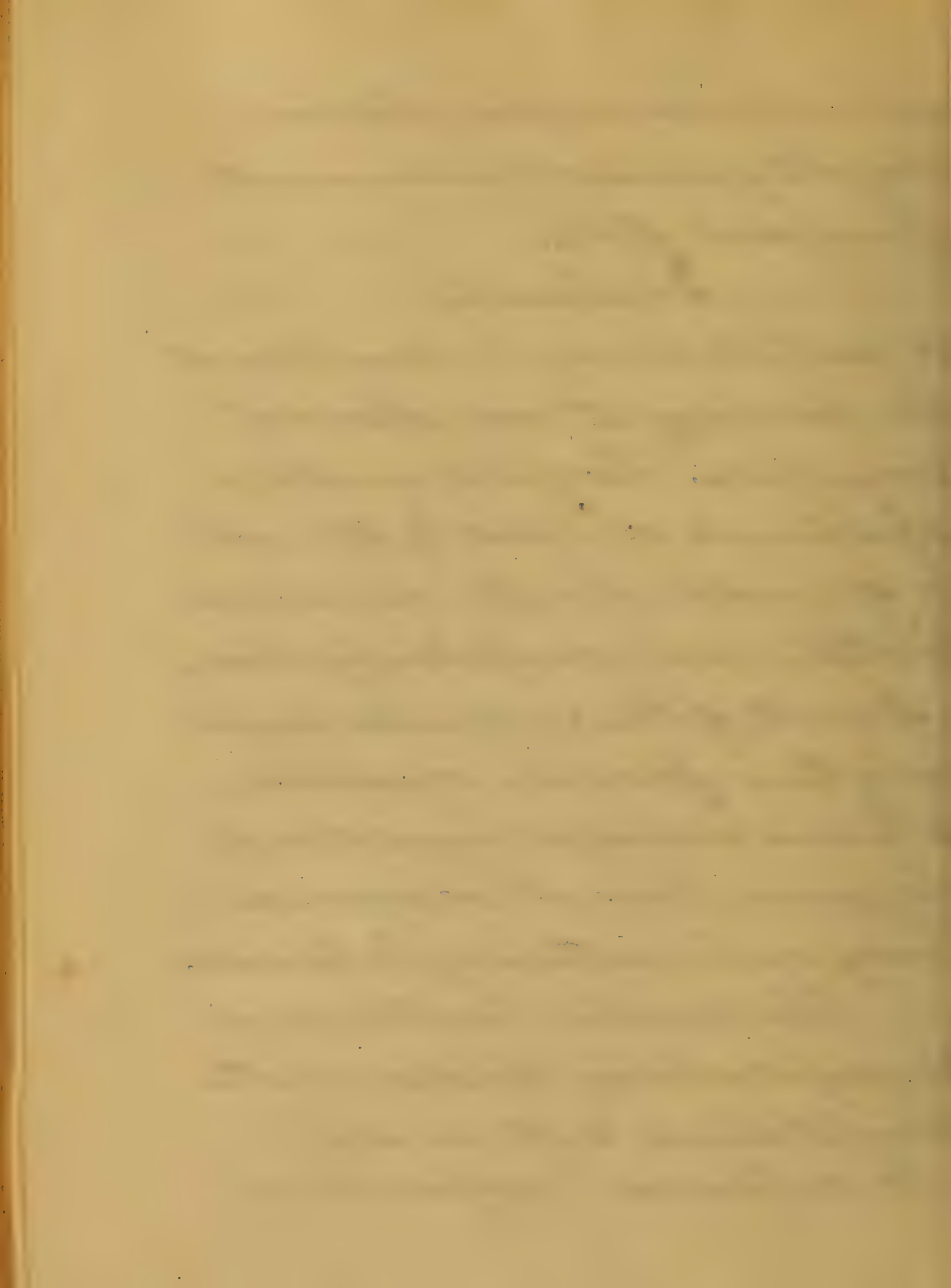
Treatment.

A great deal may be done to prevent the development and spread of Erysipelas. Hospital wards or apartments occupied by the sick or wounded should be well ventilated, and scrupulously clean.

A want of these requisites may at any time produce erysipelas, whereas a careful regulation of hygienic laws its occurrence may most materially be lessened.

The curative treatment of Erysipelas may be divided into the constitutional and local.

In cutaneous Erysipelas very

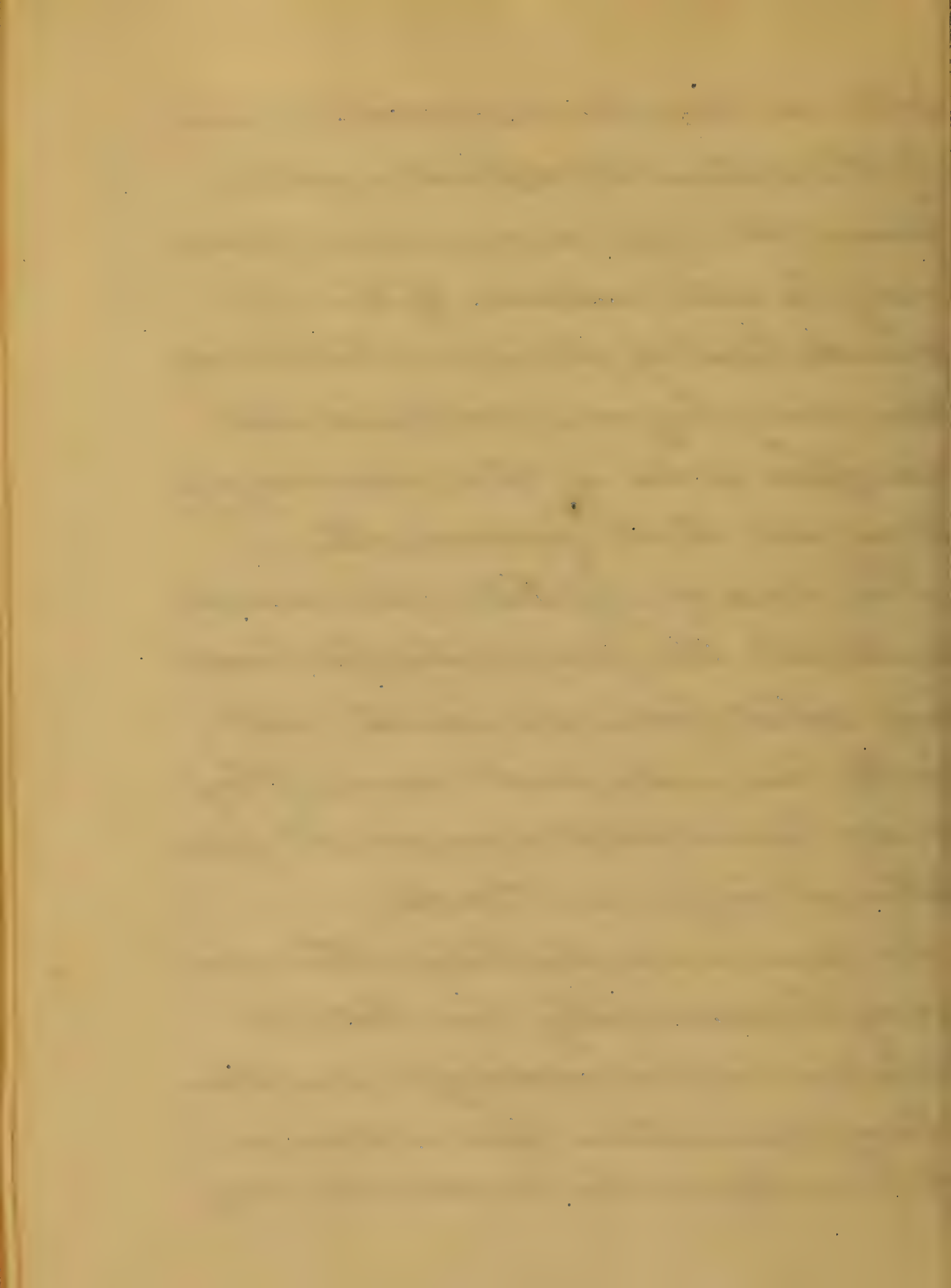


little medication is, as a rule, required.

If the patient be constipated with a furred tongue, a mercurial purge may be administered. If there be much heat of skin, neutral mixtures may be given, combined with camphor water if the nervous symptoms are at all prominent.

The loss of appetite will usually indicate the propriety of abandoning solid food, for which milk with lime water, and essence of beef may be substituted in small quantities at frequent intervals.

In some cases alcoholic stimulus may be serviceably directed but seldom is it necessary to give it in large quantities. Two or three ounces of brandy in the course of the day



being usually quite sufficient.

Most cases of cutaneous erysipelas will run a satisfactory course under the above simple mode of treatment.

There can ^{be} no objection, however to giving the mineral lactate of iron which is a remedy of undoubted value in all forms of the disease.

In the Cellulocutaneous and Cellular, the patient may be put at once after attention to the state of the bowels, upon the use of the mineral lactate of iron which exercises a controlling influence over this disease. This remedy may be given in large doses, as much as 20 or 30 minims every three or four hours. Quinine is another drug which may be usefully em-

ployed especially in the latter stages of the disease. Free stimulation may be employed in these cases from the very onset, and as the typhoid aspect becomes more developed, carbonate of Ammonia and oil of turpentine may be properly added to the remedies previously employed.

The local treatment of *orysipelus* is almost as important as the constitutional.

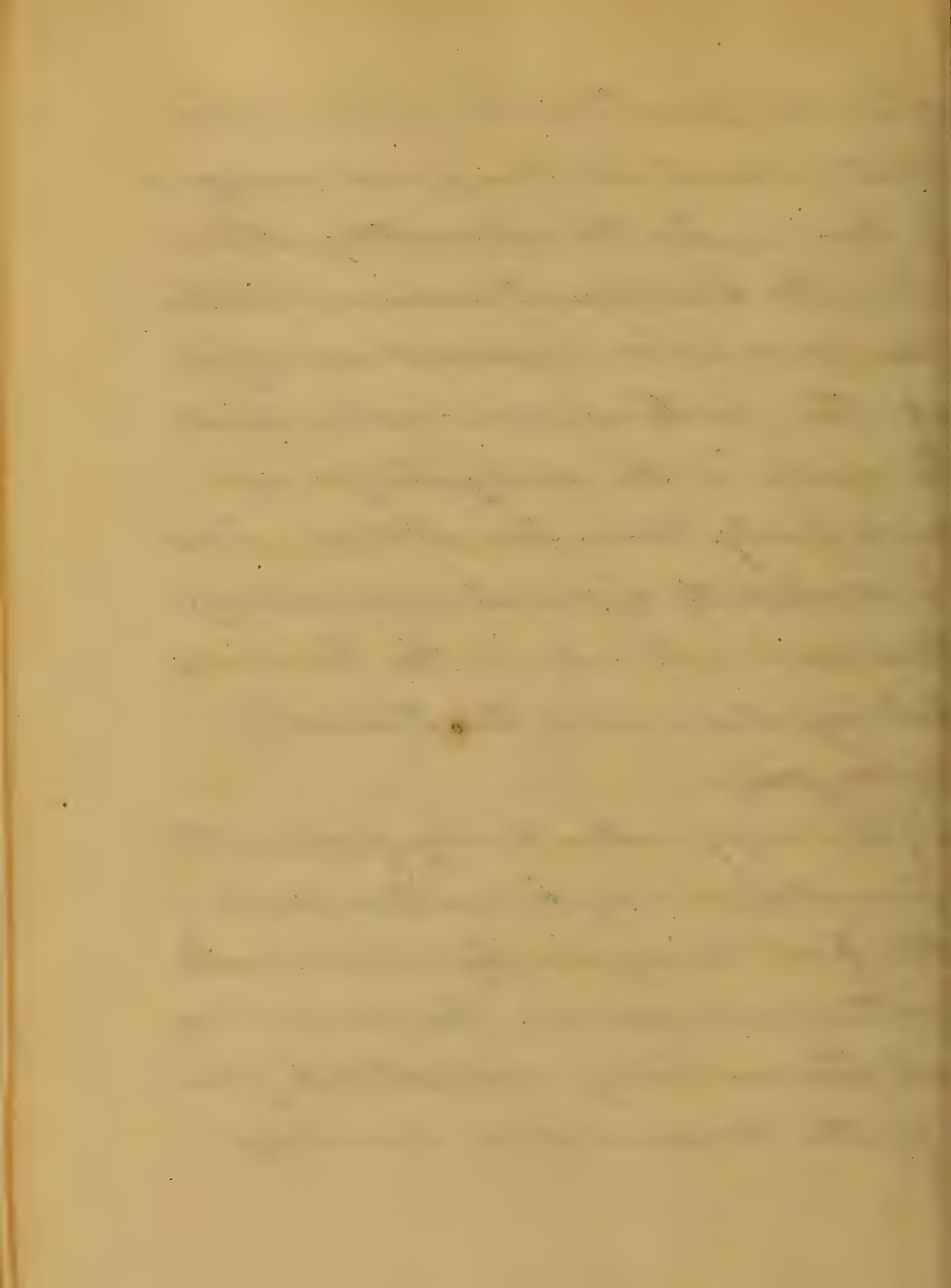
In slight cases the part should ^{be} covered with rye flour or starch. It should be kept at a uniform temperature, enveloped in carded cotton wool, being the most efficacious. Cold applications should never be employed.

The local abstraction of blood and serum from the inflamed part, by making a large number

of small punctures which lessen the
tension and swelling, and consequent-
ly diminishes the inflammatory action.

In the Cellulocutaneous and Cellu-
lar. more active measures are requir-
ed. The punctures or incisions should
be made in the early stages and
more freely. Warm fomentations should
be constantly applied and antiseptics
used not only in the dressings
but injected among the tissues by
syringing.

If the suppurative be very profuse the
fomentations may be omitted, and
the part being simply covered with
cotton well carbed. The more relax-
ed tissues being supported by the
gentle pressure of a bandage.





A Thesis on
Typhoid Fever.

Dedicated

to

Provost, Regents and Faculty of Physics,
of University of Maryland,
for the

Degree of Doctor of Medicine,

by Francis J. Stannery of Md.

Sessions 1879 '80

Received of Mr. J. H. ...
 the sum of ...
 for ...

This receipt is valid only if
 countersigned by the ...

Witness my hand and seal
 this ... day of ...

In presence of ...

Typhoid Fever

Typhoid, or, more appropriately called Enteric Fever, is a continued fever characterized by cuticular rose colored spots, accompanied by diarrhoea and with specific lesions of the small intestines.

The onset of this fever is more gradual than that of any other fever. The patient complains of languor and weakness, loss of appetite and headache, more or less severe, for several days.

Coughing, rigors and epistaxis are likewise among the early symptoms.

This gradual onset, before the true development of the disease, is known by some as the precursive, or prodromic period, by others as a distinct stage of the disease.

Dear Mother
I received your letter of the 10th and was
glad to hear from you. I am well and
hope these few lines will find you the same.

I have not much news to write at present.
Everything is quiet here. I am still
working on my studies and hope to
finish them soon.

I have not heard from you for some time.
I hope you are all well. I would
love to hear from you again soon.

I am sure you will be glad to hear
from me again. I will write to you
again soon.

Yours affectionately,
John Doe

The latter view seems to be the one most generally accepted. The duration of this stage is about ten or twelve days, the average being ten. After this stage the patient is compelled to take to his bed on account of the fever which is of more or less violence. The countenance presents no important change for the first few days. Afterwards the face is marked by a purplish discoloration, which is more or less prominent, according to the intensity of the involvement of the capillary circulation in that region. This condition of the countenance becomes more characteristic as the disease advances. Soon this discoloration begins to spread over the entire body, and, next to the face, is most noticeable on the hands and arms. The redness

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disappears upon pressure, but soon returns. The red or purplish hue is due to capillary congestion and is very similar to that produced by the action of cold. Frequently the conjunctiva, if inspected, will be observed to be congested to a moderate degree.

In order to describe the disease from this point it will be more convenient to take ~~the~~ symptoms according to their anatomical system.

Symptoms afforded by the Nervous System —

The patient complains of cephalalgia during the first week. This pain in the head is not always a prominent symptom; neither is its character so intense as that present in the first stage of inflammation of the meninges, nor is it accompan-

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ired by any intolerance of light or noise. Sometimes the patient complains of a pain in the back, but this is of very little diagnostic importance.

In a large majority of cases delirium is manifested in the second week, sometimes not until the third or fourth. In exceptional cases it may arise during the first week, and rarely when the patient first goes to bed. In different cases the delirium varies in degree, sometimes being slight, at others very prominent. As a general rule it is not of a violent character. The first evidence of the mental faculty being implicated is temporary confusion of ideas upon being aroused. The patient is unable

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to recall his position, and asks questions incoherent in character. This delirium may increase; the patient talking incoherently and muttering as if he were asleep and dreaming. Sometimes frequent attempts are made to get out of bed and dress. He tells the attendants, questioning them as to his desires, that he wishes to go home. The nurse can, in most cases, persuade him to lie down, but he soon makes another attempt to get up, and if not carefully watched will repeat it over and over. One characteristic mark of this delirium is that it is greater during the nocturnal hours and in some patients may be only

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manifested during this period of the twenty-four hours. Occasionally it, instead of being of the low and muttering kind, may be characterized by noise, activity, and violence. The patient shouts and struggles violently to arise; so violently sometimes that the attendant is compelled to resort to constant and determined efforts to quiet him.

In respect of delirium, during the progress of the disease the patient's mental condition is characterized by lethargy, want of animation, and total indifference to his own condition and necessities. He neither asks for food, drink nor change of position. Very

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Oftra he voids his urine, & feces, not because
of a paralyzed condition of the sphincters which
control these actions; but through indifference.

The sense of hearing, besides other special
senses, is involved to a greater or less degree,
according to the intensity of the disease itself.

Insomnia occurs during the first few days;
the sick person suffers great discomfort,
if not danger, from the want of that sleep,
which is most important. If sleep should
intervene, it is of such a nature that the
least noise will awake him, but immediately
relapses. This sort of half-asleep and
half-awake condition has been prop-
erly designated as the "Coma-vigil-state".
It is the want of ^{true} sleep which gives ^{rise} to
this coma-vigil and delirium.

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The other gross symptoms and signs, referable to the nervous system, are attempts to grasp imaginary objects, or "Carphologia", pulling at the bed coverlets or other linen, twitching of the various muscles and tendons, most notably those of the face and extremities. A very peculiar movement of the tendons of the wrist, perceptible to the touch, presents itself. This latter condition, or appearance, is called "Subcutis Tendinum".

The symptoms furnished by the digestive system:— As a rule the appetite is diminished or lost, but in exceptional cases, may be preserved during the entire course of the disease.

The thirst is generally increased, and though the patient may not ask for drink, yet, if it be presented, will

The first thing I noticed when I
stepped out of the train was
the fresh air. It felt like I had
been in a cocoon for weeks.
The sun was shining brightly,
and the birds were singing.
I took a deep breath and
felt my lungs expand.
The world was so beautiful,
and I was so happy to be
back in it. I had missed
this so much. I had missed
the feeling of being alive.
I had missed the feeling of
being part of something.
I had missed the feeling of
being home.

accept with it with great avidity. The tongue is furred, and the teeth and gums covered with sordes. The color of the tongue coating varies, generally being of a yellowish, brownish or even black hue. Exfoliation of this coating and a clean, red and moist surface being left, is a sign of convalescence. Formlessness of this organ generally precede graver symptoms.

The gums may be red, and, in mild as well as severe cases, tend to bleed upon pressure. Vomiting may occur, but most likely it is due to overfeeding.

Diarrhoea is present in nearly every case and from this fact it is one of the characteristics of the disease. The reaction of these liquid stools is alkaline. Some cases

the whole country, and in the
of the great mass of the population

the ^{most} ~~most~~ ^{of} ~~of~~ ^{the} ~~the ^{country} ~~country~~ ^{is} ~~is~~ ^{not} ~~not ^{yet} ~~yet ^{settled} ~~settled~~~~~~~~

the ^{most} ~~most~~ ^{of} ~~of~~ ^{the} ~~the ^{country} ~~country~~ ^{is} ~~is~~ ^{not} ~~not ^{yet} ~~yet ^{settled} ~~settled~~~~~~~~

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instead of presenting diarrhoea, are marked by constipation. Occasionally haemorrhage from the bowels occurs, and is due to some of the blood vessels of the intestines becoming involved in the ulcerations.

Among other ^{symptoms} which are abdominal, are meteorism or tympanites; tenderness on pressure, and gurgling in the right iliac fossa. The abdominal walls are very often distended and if percussed will give a decided resonant sound.

This distension and its concomitant resonance, are due to the gas which is present in the colon or other parts of the intestinal canal. Perforation of the intestines and a resulting peritonitis occurs very often. The intensity of the disease.

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does not foretell this complication, because peritonitis may, and often does, occur in cases characterized by mild symptoms; likewise it may occur in the period of convalescence.

The Skin:— The most important of the symptoms furnished by this organ is the marked eruption. This eruption generally appears on, and in most cases is limited to, the abdomen. It consists of papules, diverse in character, and may have been described as macular and spots. It appears generally between the seventh and fourteenth days. They disappear on pressure.

Respiration ^{is usually present} in many cases even before its occurrence before death or during

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convalescence. Though this symptom is present in some fatal cases, yet in the majority of cases it may be welcomed as a sign of improvement, though it is not absolutely determined whether it produces the amelioration, or is the result of it.

Respiratory System:— The cough which is almost invariably present, and which is not a prominent symptom, unless it be the result of a pulmonary complication, is slight and moderate, and is generally due to congestion of the mucous membrane.

The Pulse— The heart's action is more or less accelerated. The gravity of the case is determined, to a certain degree, by this acceleration, the dan-

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ger being considerable if the beats ex-
ceed 120 per minute. Sometimes the
pulse is below the normal, falling
to 60, or even 40. The force of the
pulse is diminished in proportion
to its frequency, this being due to
the increased action, not not increas-
ed power, of the systole of the ventricle.

Hence if auscultation be resorted to
during the progress, the first sound
of the heart will be found to be dimi-
nished, sometimes almost inappreciable.

The Temperature. As a general rule the
heat of the body is increased, the in-
crease being gradual for the first three
or four days. Of late years the temper-
ature in this disease has become a

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symptom of considerable importance in regard to diagnosis. Some practitioners claim that, if the thermometer shows a rise of 104° on the second day, it is not evidence of fever; the same exclusion being applied if the temperature falls below 103° between the fourth and eleventh days. As a rule after the fourth and to the end of the second week the thermometer registers 103° in the morning and 104° in the evening. A sudden rise indicates the existence or commencement of a complication; usually Pneumonia or Peritonitis, thus rendering the prognosis more grave. If the temperature suddenly descends below normal, other signs of improvement

1842

London

Dear Sir

I have the honor to acknowledge the receipt of your letter of the 14th inst.

and in reply to inform you that the same has been forwarded to the proper authorities.

I am, Sir, very respectfully,
Your obedient servant,

J. M. [Signature]

[Address]

ment or convalescence being absent,
the prognosis is likewise of a grave
character.

The urine. During the progress of the
fever the urine is scanty, high
colored, excessive in urea and uric
acid, with deficiency in the chlor-
ides, and, in severe attacks albumen-
ous in character. This latter
condition is unfavorable, though in
the majority of cases depending upon
no structural disease of the kidney,
but merely upon congestion. Very often
owing to the apathy, or indifference on the
part of the patient, the urine fails to be ex-
pelled and, hence the physician should
daily examine the abdomen by manual

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palpation to ascertain the condition of the bladder and, if necessary, to interfere with the catheter.

The Pathology and Causation.

The ultimate pathology of this disease is not clearly determined, though many eminent pathologists have advanced the theory that it is a general and systemic disorder, characterized by intestinal lesions these lesions being mostly in the glands of Peyer. The question whether this poisonous matter deposited in Peyer's glands before ulceration is of a specific or non-specific nature is still sub-judice. Others suppose that many persons are predisposed to it by inheritance and that the diathesis is of a nature analogous to the tuberculous

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gouty, or rheumatic. This latter proposition, though not absolutely established, seems to be very probable. The exciting causes are very numerous. Depressing causes of every kind excite it; among them the most notable being foul air, mental and physical exertion, badly ~~const~~ constructed traps, noxious gases from sinks, cesspools or water-closets, and above all the introduction into the system of a portion of the excreta of other typhoid patients whether it be direct or indirect.

Anatomical Characters.

In this disease there are lesions which are especially characteristic and which seem to distinguish it from Typhus Ferr. The agminated, or Peyerian glands, the

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solitary glands, the mesenteric glands and the spleen, and occasionally other organs or parts are affected.

The agminated and solitary glands are first enlarged by the presence of a material, commonly called Typhus, which is deposited in the glandular sacks. The patches are elevated above the neighboring mucous membrane, which assumes a purplish or pinkish color.

Besides being enlarged they are indurated. The patches situated nearest the caecum are generally attacked first, then each successive patch above this portion of the intestinal canal. The next process is that ^{by} which the mucous membrane, glands, and the Typhus material, therein contained are sloughed away.

This condition generally commences about the end of the second week and the last of the series of patches begin to ulcerate about the end of the third week. These ulcers are characterized by their edges not being elevated, but overlapped by the mucous membrane, which they undermine. Should the patient be on the road to recovery, these ulcers begin to heal up, the healing process being accomplished by the formation of a thin membrane, serous in character, at the bottom of the excavation. This membrane gradually becomes thick, until cicatrization is completed. But should the ulcers fail to cicatrize they will perforate the wall of the ulceration and thus

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give rise to a dangerous complication by the escape of fecal contents and intestinal gases into the abdominal cavity. This complication is obviously Peritonitis which is diagnosed by the usual signs and symptoms peculiar to it.

There are several other anatomical lesions which are of importance, but not present in every case, such as softening of the walls of the heart, meningel inflammation (very rare), enlargement and softening of the spleen, and in some cases the kidneys are congested in others unusually pallid.

Diagnosis. The distinctive characters are now so well recognized that very little difficulty is encountered in diagnosis.

The only diseases from which it may be hard to discriminate, are Typhus and remittent fever. From remittent it is distinguished by the absence of vomiting, the slower onset, the mental condition and abdominal symptoms. From Typhus by the presence of epistaxis, bronchitis, lentiginous rose spots, tympanitis, obscure origin and diarrhoea. In Typhus fever there is no epistaxis, no bronchitis; the bowels are constipated, abdomen seldom tympanitic, millitary eruption lasting two or three days, and causation very obvious.

Prognosis. The mortality in this disease differs greatly according to age, sex and complications. None die under

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the age of ten, than between ten and twenty. After thirty its fatality increases, and after fifty the death rate is nearly one half. Should perforation from perforation intervene the case becomes more grave. In every case there is a possibility of this latter complication; hence the practitioner must be guarded in his language, never expressing himself too strongly for it is known that this perforation often occurs during convalescence and thus causing a relapse which is generally fatal.

Treatment. It must be remembered that Typhoid fever is a self-limited disease and when once established there is no cutting short its progress. The

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duty of the physician is to support the patient and conduct him through the different stages in such a manner as his skill and knowledge will dictate. He should always be on the watch for the various symptoms of gravity, or otherwise, in order when they arise, to be more prepared to alleviate or check them by the resources at his command. This then is the expectant treatment, and one which has given the best results in this disease. If the bowels are constipated during the first few days, a mild laxative may be given with great caution as it may intensify the diarrhoea which generally follows. A drachm of castor oil will suffice and there is

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more means which tend to this effect
 should be resorted to. When there is
 diarrhoea in the commencement it must
 be checked, not suddenly but gradually.
 Chalk mixture will in many cases
 be sufficient, if not, give sub-nitrate
 of Bismuth or a pill composed
 of the following: ℞ Opium, Camphor
 and blue mass each $\frac{1}{4}$ of a grain.

When the skin is dry and hot sponge
 with tepid water and vinegar, or whiskey.
 Some Practitioners recommend the
 use of the cold bath or wet pack.
 The patient, in the former, is plunged
 into the water which is of a low temper-
 ature. But this method has a great
 many disadvantages and among them

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shock. A better plan, if the cold bath is to be used, is to place the patient in a bath of the temperature of 80° and then gradually lower it by the addition of ice to the water, watching its effects upon the patient and acting in accordance. Diaphoretics may likewise be used with propriety if the skin is exceedingly hot. Among this class of remedies *Spiritus Amaranthi* is one of the best adapted for this state. It should be given in $\mathcal{F}\mathcal{S}$ doses, diluted, every two or three hours until the required effect is attained. When the fever is low then stimulants must be used; there being none better than brandy, wine or *Auxans* tincture. Great care

must be exercised in the administration
of the alcoholic stimulants. As a general
rule they should be administered when
the systole of the heart is found upon
examination to be diminished in force.

If the alcoholic stimulants act well
it will be indicated by the tongue
regaining its natural appearance.

Abdominal pain may be overcome
by the application of flannel wrung
out in warm water and sprinkled
with Turpentine. Should the patient
be ^{un-}able to sleep hypnotics may be given.

The following is very good viz: ℞ Pulv.

Opii grs; Pulv Camph. grs; Opheae. grs

℞. ℞. Pil no 1. Sig. To be given at night.

Turpentine is given internally to

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counteract the ulceration of Peyer's patches.
The commencement of the ulcerative process is indicated by a dry and glazed tongue. It acts as a stimulant and alterative to the ulcerated surface.

Dose grs ν x in emulsion of Gum. Acacia. As the case improves diminish the oil. Quina may be given, but not as an antipyretic. For experience and observation has determined that it has no such effect in this particular fever. Notwithstanding this there are a great many able men who hold an opposite view in regard to the action of Quina.

As the patient is not alive to his wants you must wake him in order to

Dear Sir,

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

in relation to the application for a license to practice law in this State. The Board of Examiners has reviewed the papers submitted and has determined that you are qualified to practice law in this State. It is the pleasure of the Board to grant you a license to practice law in this State, effective from the date of the filing of this license. You are required to take the oath of office and to file a bond with the State Treasurer as a condition of practicing law in this State. The Board of Examiners has also determined that you are qualified to practice law in this State. It is the pleasure of the Board to grant you a license to practice law in this State, effective from the date of the filing of this license. You are required to take the oath of office and to file a bond with the State Treasurer as a condition of practicing law in this State.

Very respectfully,
The Board of Examiners

Yours truly,
The Board of Examiners
The Board of Examiners has determined that you are qualified to practice law in this State. It is the pleasure of the Board to grant you a license to practice law in this State, effective from the date of the filing of this license. You are required to take the oath of office and to file a bond with the State Treasurer as a condition of practicing law in this State.

to make him take food and draw off his urine to prevent retention.

Bed sores must be avoided, by frequent changes of position in bed.

Should Peritonitis occur from perforation ~~too~~ of the intestines by one of the ulcers then the bowels must be kept in a constipated condition in order not to aggravate it. This can

be accomplished by the administration of large and frequently repeated doses of opium. The other complications which may intervene must be met with the usual remedies.

During the various stages of ^{the} ^{ill} ^{ness} patient must be supported by suitable food. This food must be of a liquid

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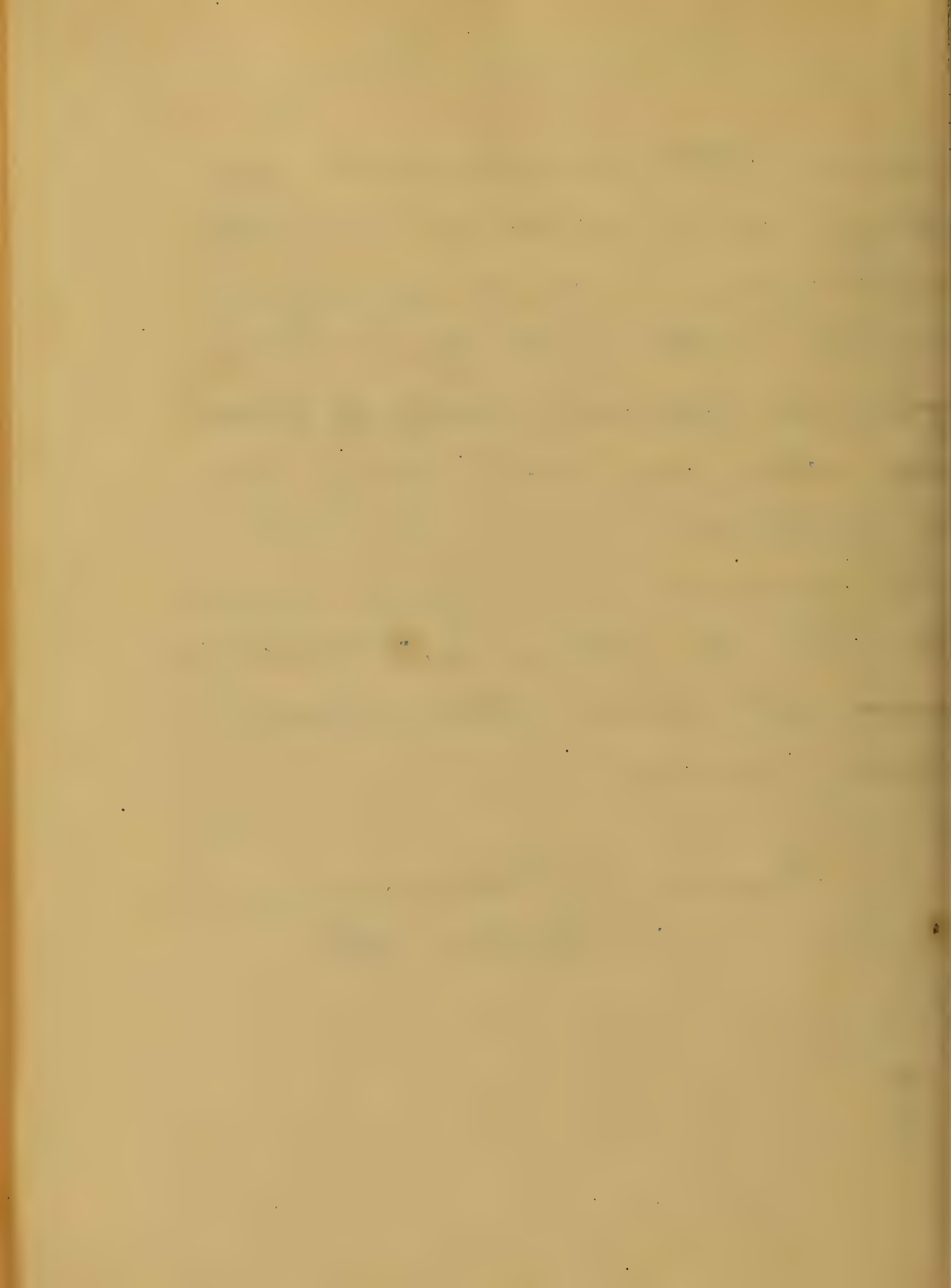
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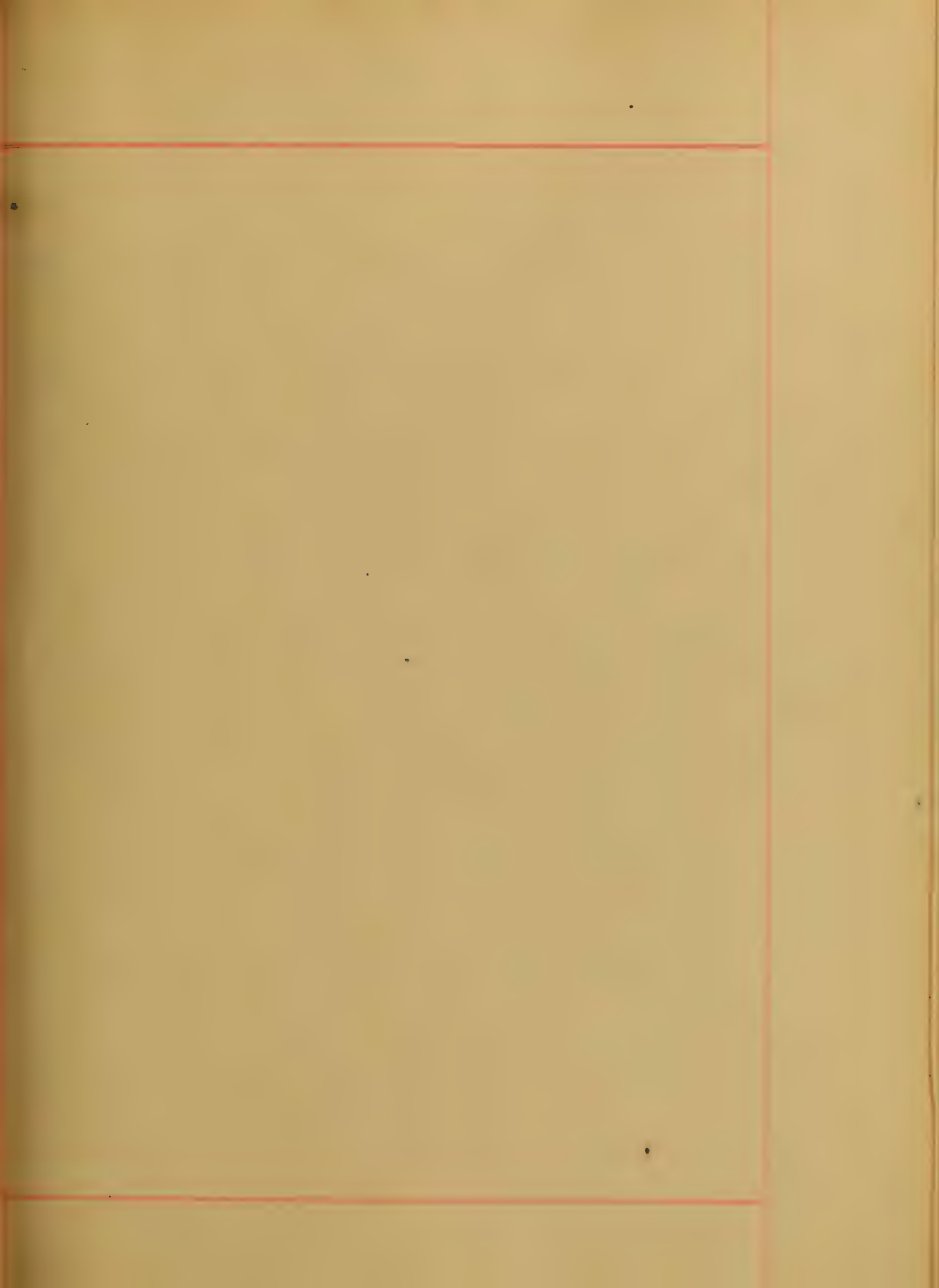
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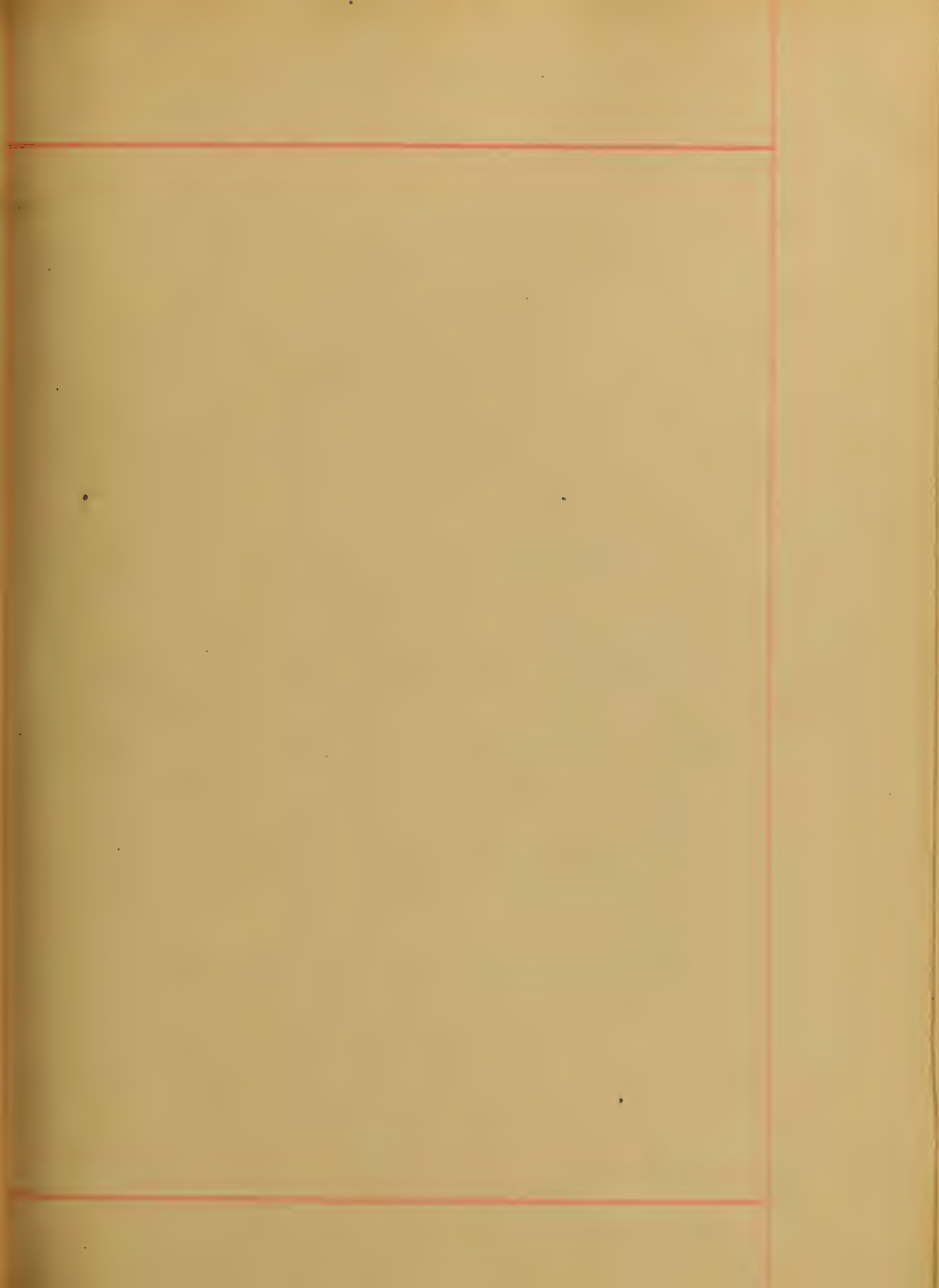
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nature. Milk and lime water, wine
Whisky, beef tea or other animal broths
must be given in small and repeated
amounts, watching the effect. Above all
give the patient plenty of fresh
air, taking care not to allow him
to be chilled.

The convalescence is long and tedious.
During it, the patient must carefully
avoid all excesses either in food,
drink, or exercise.

Francis L. Flamereus.
Baltimore Md.







X X

Thuis

J. Harvey Graves

Session 79 80.

Influences which modify the
action of medicines

Influences which modify the action of Medicines,

The influences which modify the action of medicines are so numerous that this as a subject is well entitled to be considered as a branch of general medicine, and a subject of consideration to the student of medicine. In the administration of medicines, we must allow of three influences they are, First; The condition of the patient, Second; The condition of the disease, and Third; The condition of the locality, and the climate surrounding, We will first speak of the condition of the patient, and then of the condition of the disease, and lastly of the condition of the locality, and the climate surrounding.

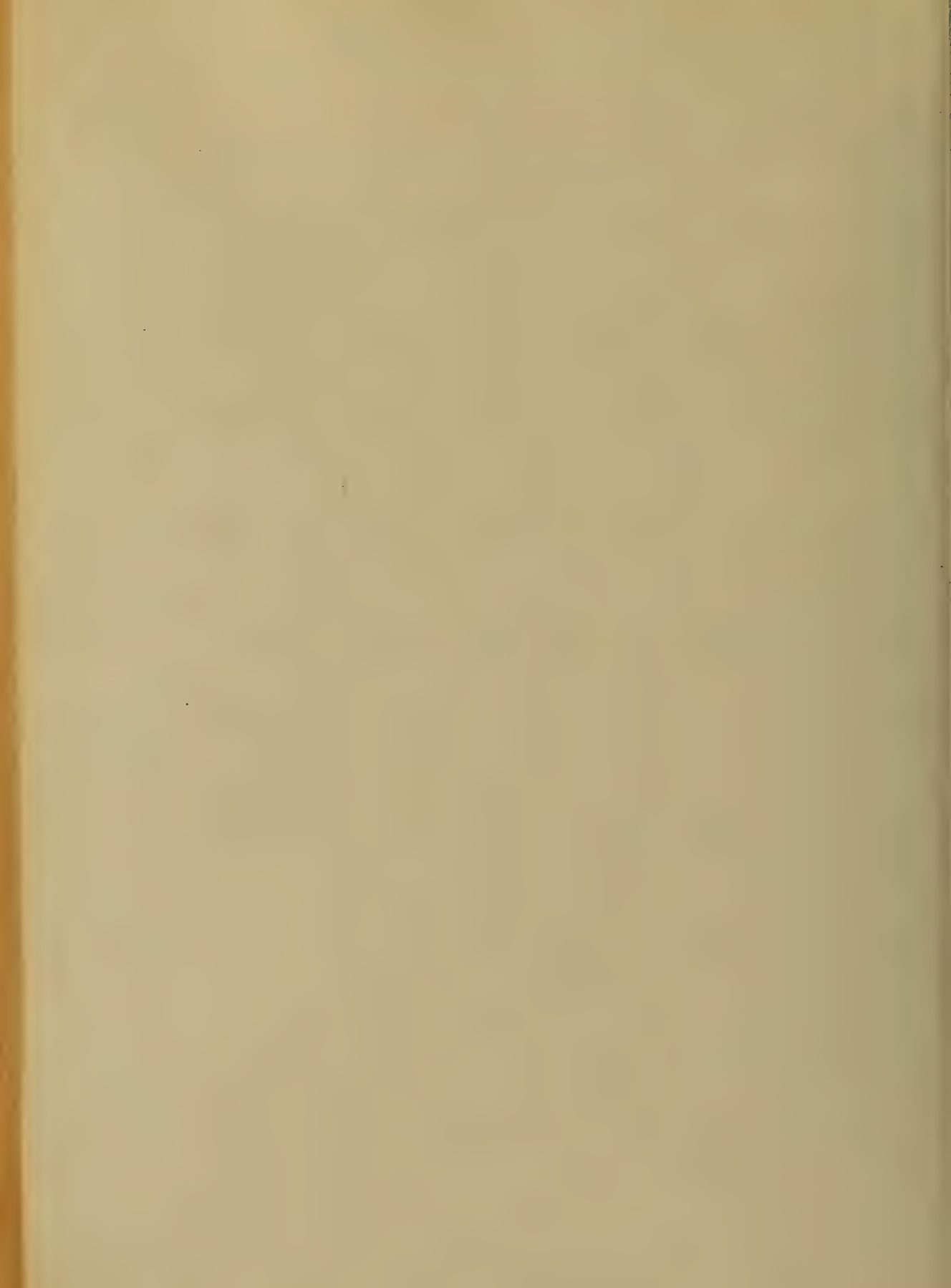
some plants, and in which they
grow. The process of distillation
prepared, and the residue is
After they are prepared, the medicinal
medicines undergo change in exposure
to strong light. Some times they are
proper use, while others (the most
especially) - by evaporation - become
stronger, and in this way are better
means to administer in the same
dose, in the form of a medicinal solution
in water. Distilling a solid substance
under it more active by factoring
its solution in the proper solvent and
immediately returning to the
liquid. The latter time it is
more in demand. The action of it

medicine is greatly modified by the dose,
and the various effects of the same
medicine on different cases, constitute
one of the greatest resources in the
treatment of diseases. The medicinal dose
of Opium, acts as a stimulant to
the brain, while larger and stuporific,
small doses of belladonna act as an
opiate, while larger ones produce some
of the most dangerous effects, which in
large doses, in another case is an in-
fernal. In fact the size of the dose
and time of its action, affect the
operation of a medicine as much as
its inherent qualities. When medie-
cines are prescribed for the purpose
of a sustained action upon the system

...the occurrence of some results, only
because it is not always the same results, and
reduced in force, in each successive trial,
instance, such to be the case, it is of prac-
tical importance to watch carefully
the effects of a medicine, and to ex-
amine, and soon, the doses, as to avoid
the occurrence of sudden and dangerous
consequences.

Diversities observed by patients: It is not
difficult to separate the influence of race,
from that of climate. It is generally
found that the foreigners who have re-
sided in a country, and adopted the mode
of life peculiar to the natives of his new
residence, acquire a similarity in suscep-
tibility to the action of medicines. As to

the different parts of the community
such that the following, and following
to, require larger base than in previous
and conditions. But it is only in view
that it implies of the same, that distinction
is of great value. - As to age,
It seems but natural that it should exert
a great influence over the action of ions,
- formed instances, and child hood, more
dependence is to be placed on the mecha-
nical powers of the system, than the
operation of conditions, or the life all
activities to the organism are reduced
to a state of perfect stability,
to determine the exclusion of all
disturbances, ~~the~~ ~~or~~ ~~the~~
~~in~~ ~~the~~ ~~the~~ ~~the~~



is used, but in
...
... should be selected which operate
... and are not dangerous if given
... doses. As a general rule, deple-
tion should be avoided, cases are very
... when it is necessary before the seventh
year. Ordinary evacuates at this period
... the system thoroughly, and
... should be given, especially mercury, in-
... The narcotics are also to be
... with extreme caution, & their
... reduced by disease, - the dosage
... should be kept to a minimum
... this class of patients should not be
... and they should

to be continued with most modes of medicine,
requires larger doses of purgatives in
doses as a rule, and they should be
avoided from the remission class, as much
as possible, and are more useful in the
febrile tonics. Salines are for the most
part to be avoided, but administration
must be made with care, such as the
stomach, and cataplasms may be used
without stability of the skin, such
as the stomach. The continuation of
is not eligible, in all cases. The
part - Females are more susceptible to
inflammation, than males, the actions of
medicines, are generally more active,
irregular, than in males, it is
generally more difficult to maintain in them

is smaller than the other...
is applied universally, as there are, as
we say, "masculine" and "feminine"
constitutions, as well as mental
and moral. It is not from this, however, we
subdivide by sex a human nature, but
and several branches, rather than
men. They cannot stand, neither are
stimulents, in doses as large as men,
and in quantity, it is thought they
require larger doses. They require
greater susceptibility, and must
receive stronger, and better.
Actual treatment at such periods
is not needed, and is not to be
used, this is especially to be remembered
in case of pregnancy, as abortion might be

broken it, during lactation, all nursing
 women are capable of nursing, and the
 milk, should be retained until it has
 reached a certain induration of the milk.
 Influences of disease - Various diseases,
 have a great influence on the action of
 mammae. It should be known in general,
 that, whenever the secretory functions are
 interrupted, from whatever cause, the
 milk is also less active, than natural.
 In all fevers and other's diseases,
 mercurials and narcotics operate strongly
 when the quantity is sufficient, they
 affect directly, only somewhat the se-
 cretion of milk, and when the quantity
 is in like condition, exsiccation
 is mischievous, In those cases in

may be supposed that the very nature
 of the affected organ, with blood,
 exceeds the action of the nervous system, that
 is, from reacting her secretory power
 and being stimulated. The habits of
 feeding of a low grade, with more or less
 of the nervous system, and even
 in the functional depression of the brain,
 which reaches some forms of insanity, the
 susceptibility of the organs are inherent,
 and peculiar. Injections, or operate only
 in unusual doses. Still more remarkable
 is the susceptibility to convulsions, in certain
 nervous affections, as delirium tremens and
 Staupe, for a word. — What sort of
 disease regarding the nature of nervous
 may have been reached by its treatment

upon the healthy, or of general character
 in the sick; very few cases must
 however admit modes of their action, de-
 pending upon conditions peculiar to the
 patient's constitution, and the nature, stage
 or complications, of the disease.

Solusio; - Being pursued in all
 sorts of certain medicinal, or other agents,
 in a manner quite peculiar to themselves,
 and for which no rational explanation
 can be made. Usually it is a temporary
 peculiarity, in other cases, it exists after
 various menstruation, pregnancy, lacta-
 tion, or the cessation of some nervous
 disorder. We know of a gentleman who can
 not take Solusio Polissimum, it causes
 some paroxysms of neuralgia, cases in

not uncommon where the smallest amount
 of these substances is used, the necessary to
 have some and, it sometimes produces
 baroniform of typhoid as we will see
 an instance where emotion, of any kind,
 caused harm in the muscular system,
 and irritating medicines like mercury,
 and arsenic, after having the
 same effects, - another instance, where
 a female was always nervous, hoarse,
 & slept very uneasily, many
 remedies, and treatments, being tried
 in the hospital, without success,
 consisting of many others as an instance
 from which, or otherwise, in other
 cases, opium has caused colic,
 vomiting, and itching, or vomiting

I suppose, that you would be well to
 in have, Mercurius, in the smallest
 dose, ~~and~~ ~~in~~ ~~the~~ ~~same~~ ~~manner~~, ~~as~~ ~~the~~ ~~others~~
 which are ~~these~~, ~~and~~ ~~the~~ ~~others~~ ~~are~~ ~~very~~ ~~numerous~~, and
 to state ~~some~~ ~~of~~ ~~them~~, which are
 not so well marked, are still, when
 seen, from the general state, - And
 to be remembered, that these pecu-
 liarities are not confined to drugs alone
 for good people so constituted. That some
 of our most ~~valuable~~ ~~articles~~ ~~of~~ ~~the~~ ~~pharmacy~~
 sensations, altogether unaccountable.
 There is scarcely a person, who does
 not have their ~~entirely~~ ~~peculiarities~~, ~~in~~ ~~the~~ ~~use~~
 of certain articles of diet, there may
 be more or less of the imagination, about

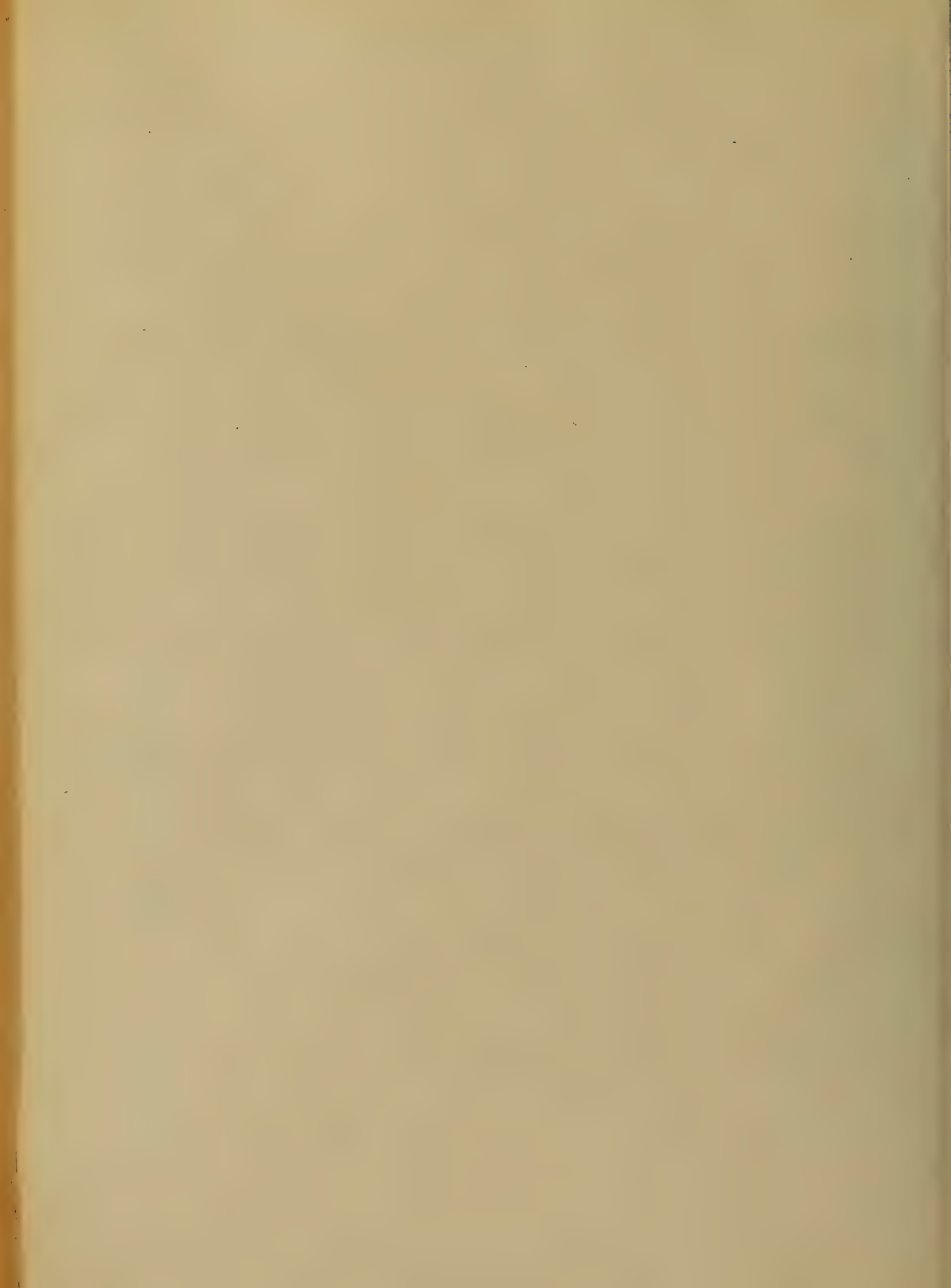
is all unresolvable, by any means,
no matter how many doubts are
sent that it is recalled for, as they
are so numerous, that even could they
be removed, that there is still
at a loss, that we truly know
but for now, must learn that it
is impossible to reduce the operation
of medicine, to any fixed laws, and
that here it is very evident, that
the power of judgment is worth a
hundred of them.

We now come to consider the third
point, that is, the circumstances influencing
the action of medicines, under the
various and almost infinite

some of these habits are not essential,
 it is hardly necessary to separate
 climate, from season, in all we shall
 say about them. The action of nature
 is a very simple thing, it never varies in
 any climate. There is a very remarkable
 sensibility, to the action of humidity
 in the state we are about to speak
 of. The use of mercury, to produce
 constitutional effects, is a dangerous
 not only a secret of its destination
 effect upon the system but because
 it is not a permanent remedy. It
 and stability. However, we are
 aware in their action in a warm climate,
 that cold and patients have not
 and serious effects, from their constitution

... from a cold, &
...
...
...
... during the protracted
... certain summers, there is a tendency
... of the winter, with
...
...
...
... mode of operation, It is well known
... the vital functions, pass through
...
...
... power of resistance to hostile
... where it has been invigorated

by the night when, but which produces
 no desire, until it is taken once more
 induces sleep. Hence, all narcotics, and
 medicines intended to remove indigestion
 and other effects, are more effectually removed
 in the morning, when the natural course
 may of the system continue to operate
 their action, like some is the best
 for the administration of cathartics, of oils
 and gentle evacuation, and in general
 of all medicines which require to
 to be absorbed, and remain in the night,
 On the other hand, the benefit, re-
 sulting from, of evacuating medicines,
 when taken, is to produce a steady state,
 is most especially required by those who
 are situated in the morning, when the



stomach, and hence, no ice water, &
 the sign of this functional action,
 and perfect - Heat - The cause, how-
 ever which the human constitution has
 uses - of retaining itself in any state
 and mode of life, is shown by the
 amount of resistance shown by the
 body, but this power of resisting, even
 in the system, and therefore, must be
 understood in increasing cases,
 slow and regular, which shows a
 state of health, in which the
 to the system, and it is well known,
 to return to the normal state of health
 as the summer will hold, without
 making any extraordinary result, the
 water have to eat enormous quantities of



... long, without experiencing narcotism,
negative medicines, loss their power of
acting on the system. - And a great
many other instances unnecessary to mention.

It is difficult to account fully
for the phenomenon. It may, however,
be due to the saturation of the
system, but it is more probably attrib-
utable to nervous action, as we know
that when a system is saturated it
cannot receive any more. As sleep interferes with
the system, so does the application
of a particular stimulus allow
of a reaction, as in great cases,
and, it is very likely, that a
long time has been the susceptibility to
medicines, which are so readily given.



... must not lose out of sight the
important law of the various species,
which in some respects to, ...
... to the law, that medicines must
be given in increasing doses to maintain
an uniform effect, not to be found in
... drugs - for instance, Mercury
when the system has been brought
... in ... small ...
... to ... The
... to estimate the
...
... and every additional dose may
therefore be expected to produce its
...
... is ... by the operation of emetics,
... they ...

probably succeeding cases, as regards
 effect may arise from impressions,
 smaller doses and at last, the
 idea of the matter, being still retained,
 this is to be explained by the influence
 of mental states in general, upon the
 function of the stomach -

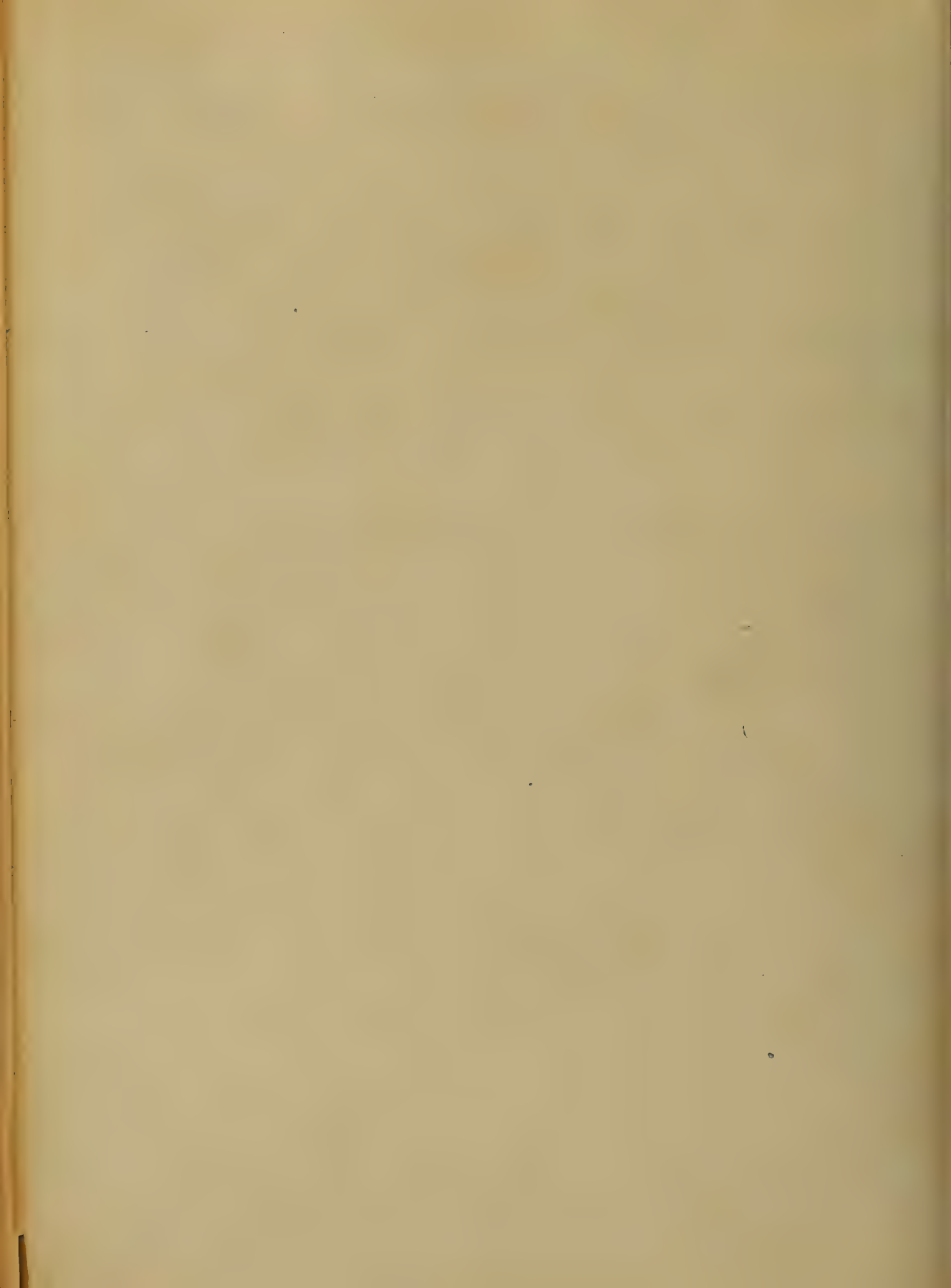
We now come to consider the influence whi-
 ch the mind exerts over the action of med-
 icines. The power of the imagination is
 often so real, and, at times, so wonder-
 ful as to hold off with the patient
 its resistances, that they nearly all
 succeed when the patient being imbued
 with a firm faith, in the success of the
 prescribed remedy. The same success
 however obtained is the secret of the

course of many diseases, and, perhaps
 perhaps in other, our knowledge of the
 case, and the use of medicinal agents,
 are superior to them in their ability
 to control the will of the patient and
 inspire unquestionable faith, in the
 remedies which they employ, by a
 judicious use of the patient's belief
 that they may produce desired results,
 become the means of cure. The truth
 however, which they are physically
 incapable to produce, but which, when
 pursued with faith, may produce real
 and salutary effects, should be
 well understood, such as a large dose
 of salt, may produce vomiting, and
 Coleridge's Coleridge's, may relieve.

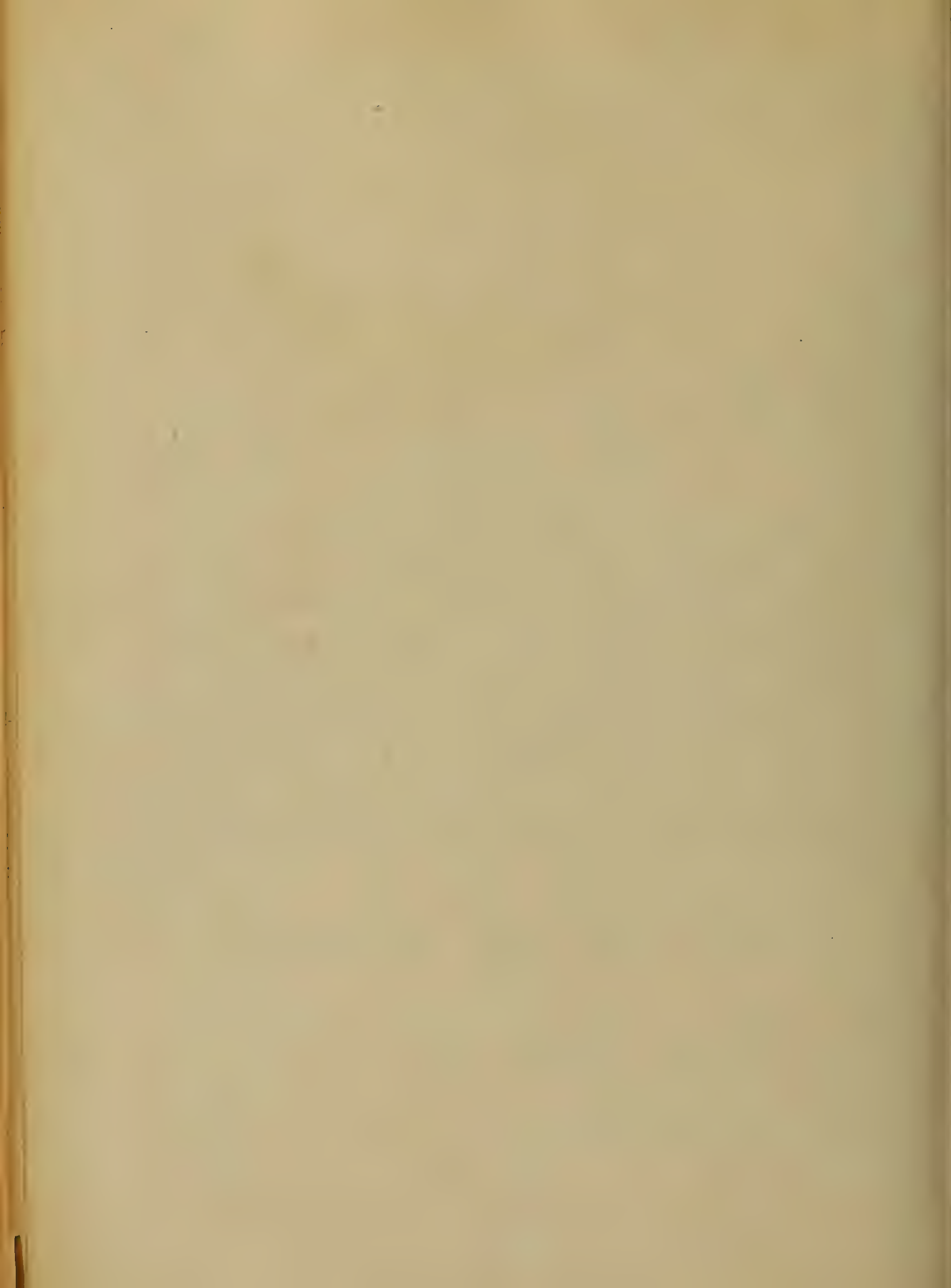
without means to do so, and that
 means, format, step, &c. - In this
 structure, it is sufficient to refer
 to the satisfaction of the
 soul, and hope, and the debrasing
 of affections, if a full one, and the
 raising manner, not only, in the com-
 fort of the sick, and their progress
 towards health, but absolutely upon the
 issue of the disease.

In conclusion (but perhaps out of place)
 we must say, The successful physician
 is not he, who, under the name of
 the art, is possessed with medical
 prescriptions, for all diseases - But he
 who, in each particular case, knows
 not only what are the causes, and

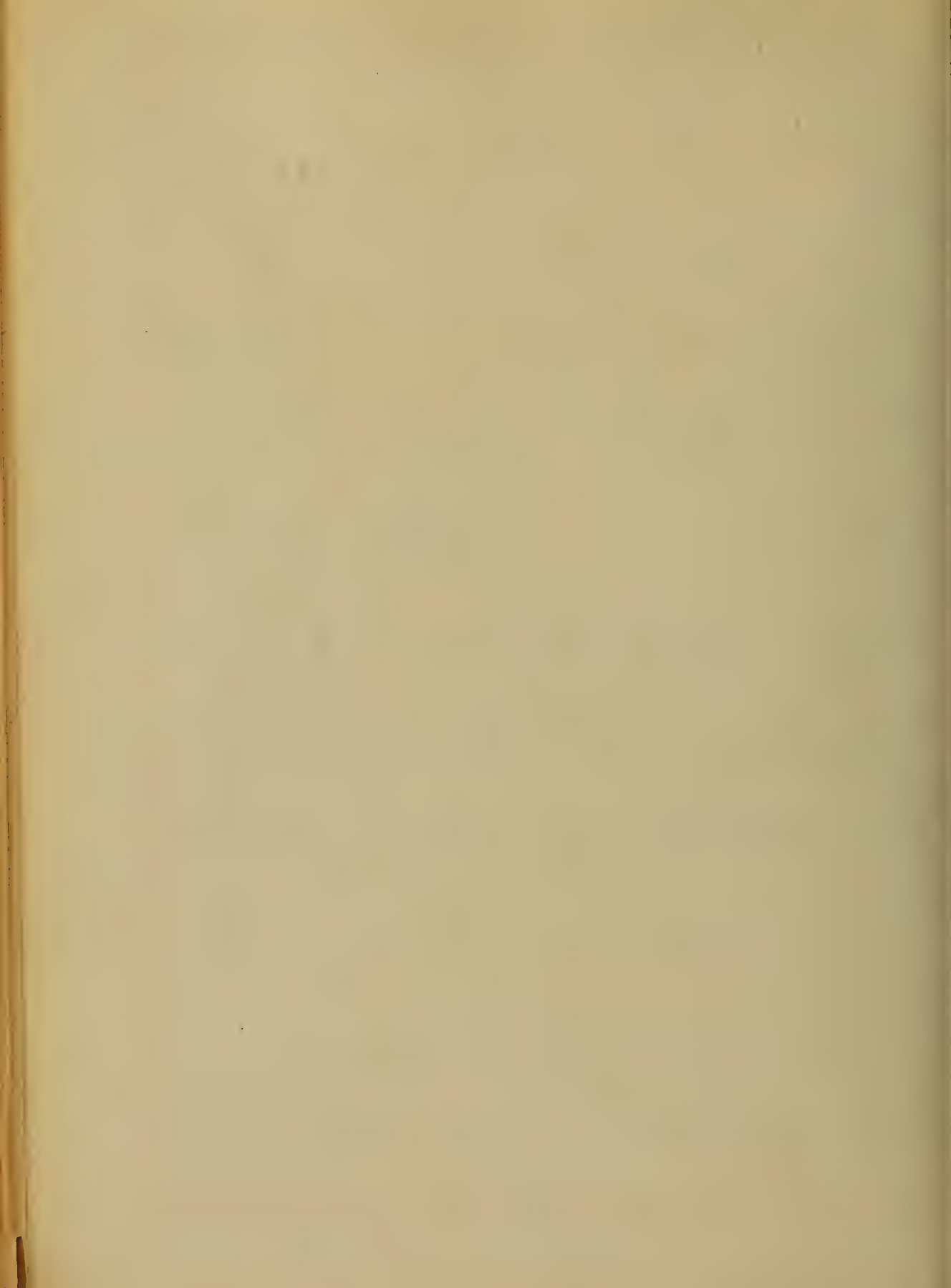
let to readers. The dominant and barren
 and ~~unproductive~~ ~~unproductive~~ ~~unproductive~~ ~~unproductive~~ ~~unproductive~~
 the above rate means of diabolical
 and subordinate. ~~Unproductive~~ ~~unproductive~~ ~~unproductive~~
 influencing very function, in such a
 manner is to reverse in the future that
 A language the theme is a safe tomorrow;



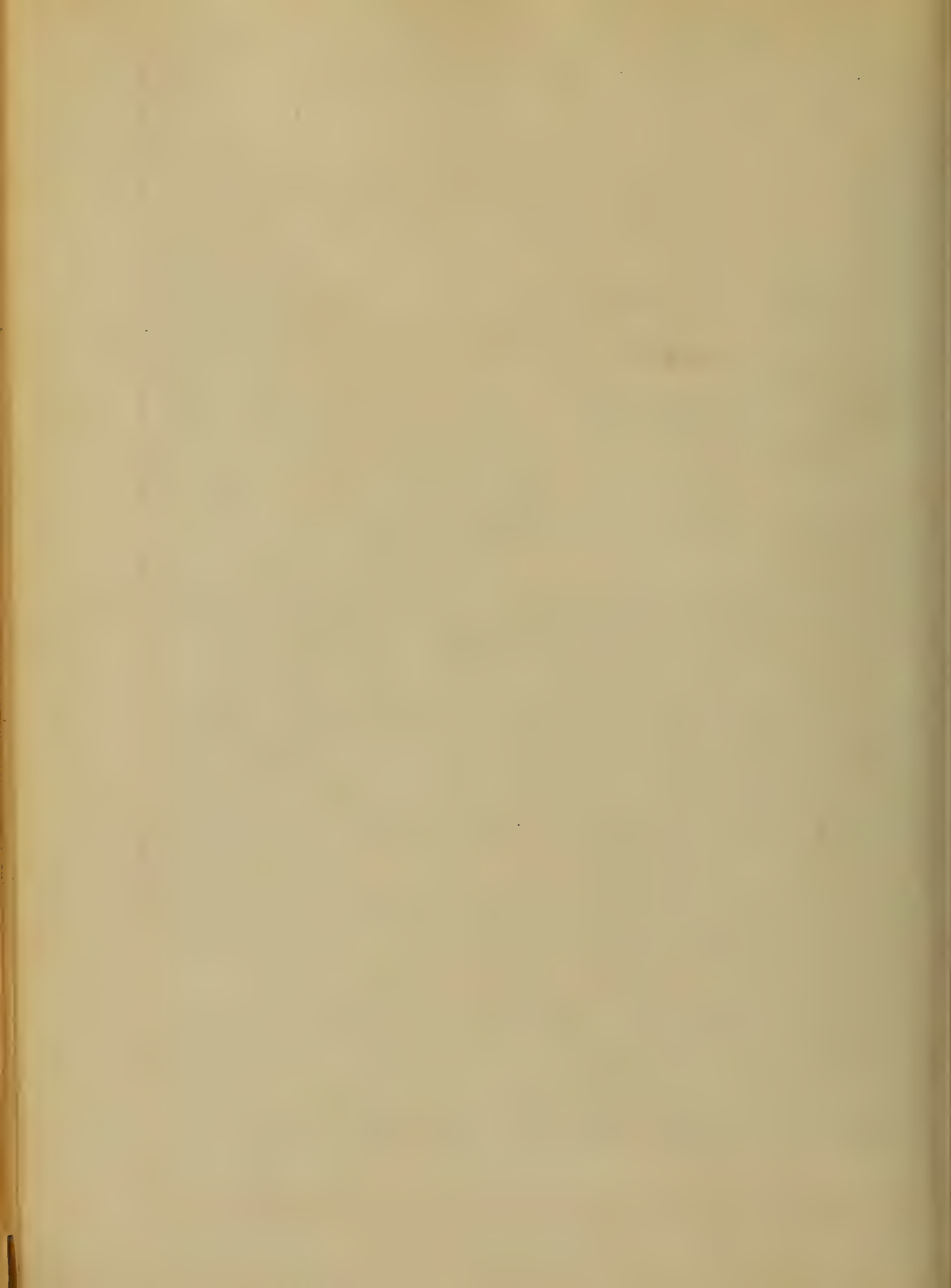
A Thesis
on
The Propagation
of
Latent and Responsive
submitted
to the
Faculty of Physics,
of the
University of Pennsylvania
for the
Degree of Doctor in Medicine
by
Charles Henry Colver
of
Pennsylvania.
~ 1880 ~



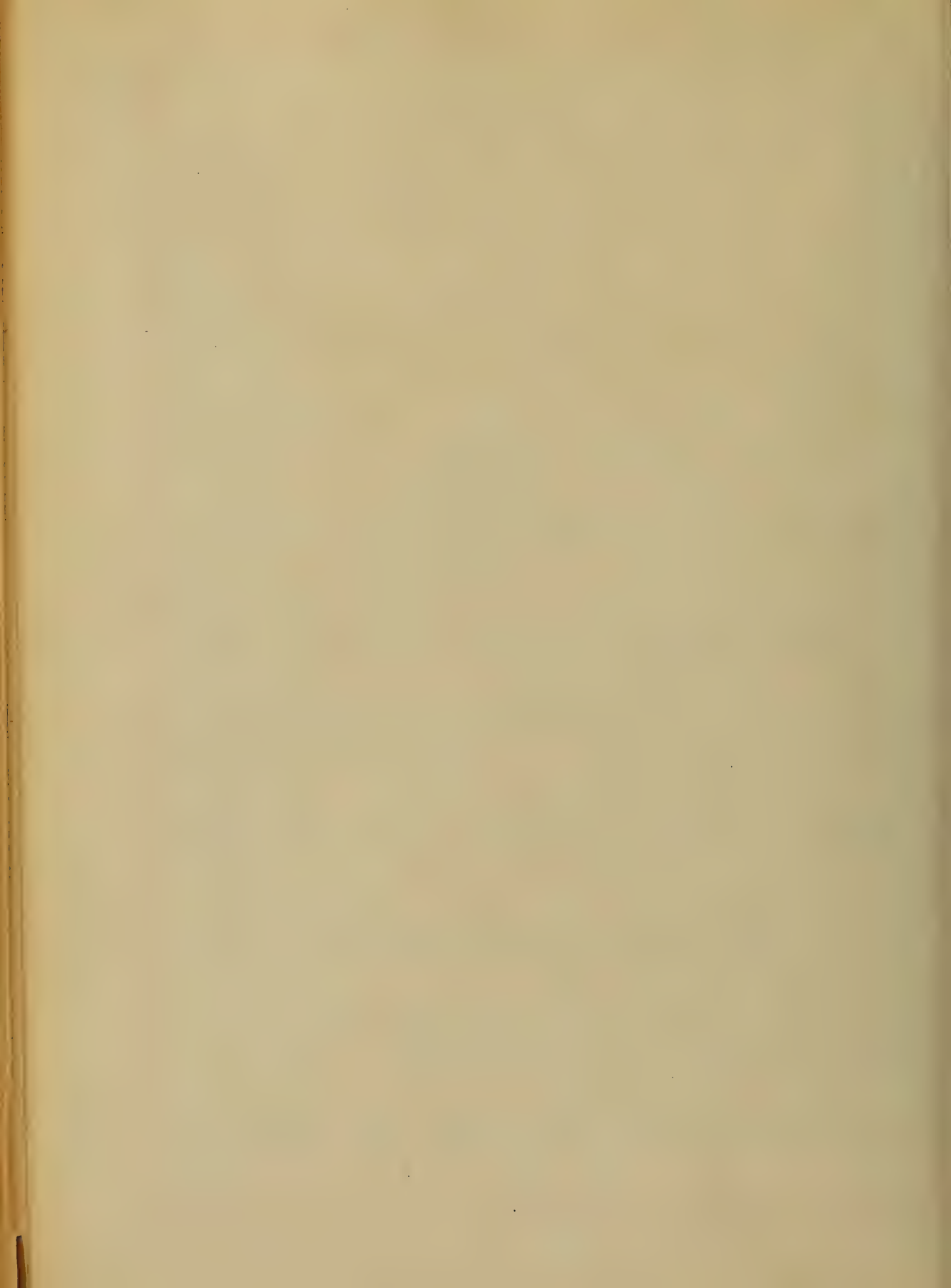
1800 was not made to be a
and every man who has the good
of the mind shall be able to do
to the mind of a man is not to be
taste, be it a trade or profession
and among the latter there is
more honor than that of the
Physician, and of every other
and especially in the study of
It is necessary to note that
of the mind of the mind
are metaphysical or mental, moral
and natural. These three are regu-
lar hours, and when they have
accomplished what is to be done in
their work, they are at liberty to go
and come, as it may seem best to



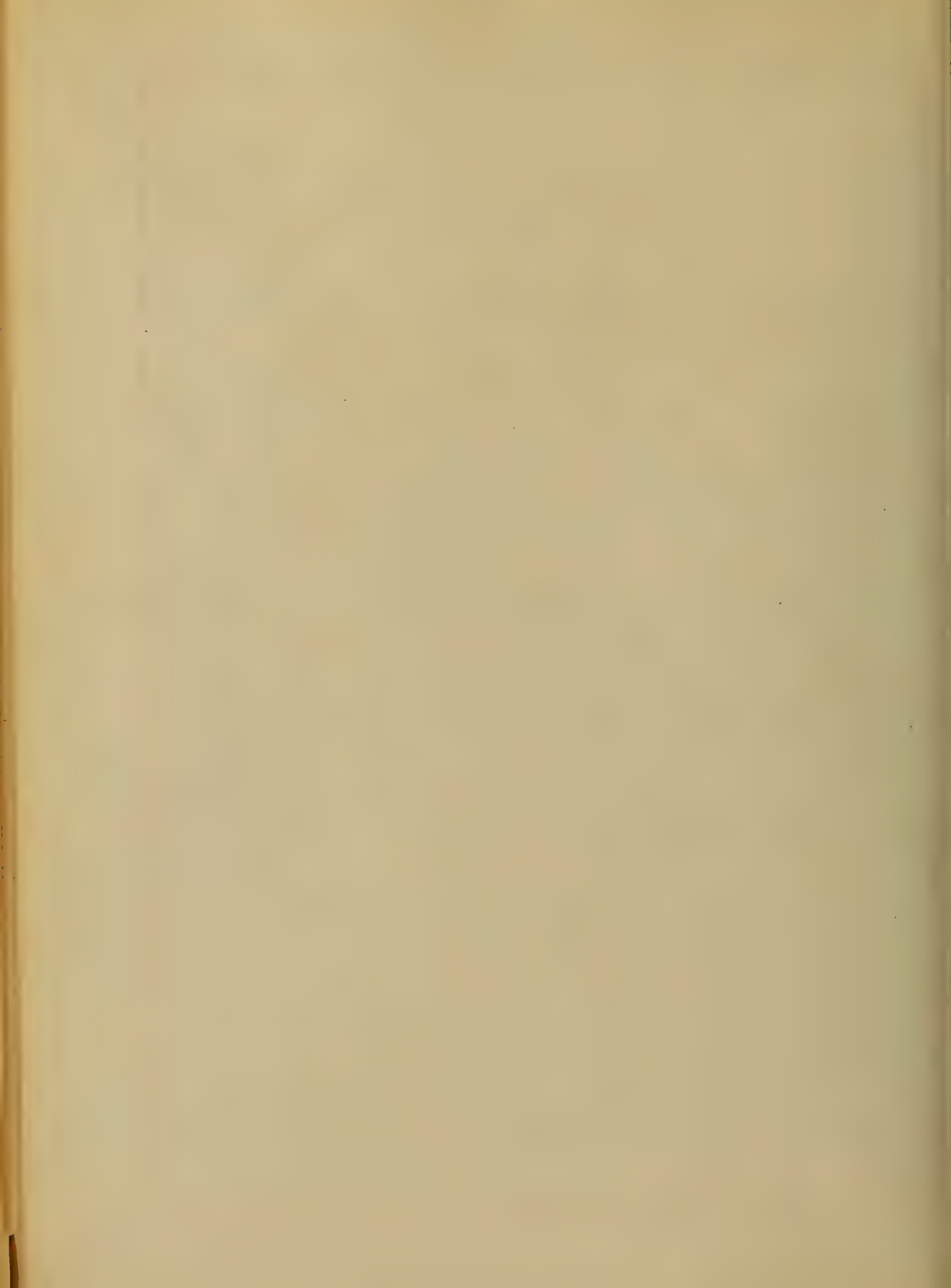
... for their studies, social and
... regulate their work so that they
... not to be kept employed longer
... than they wish, and are thus saved
... from their office. Other facts
... are than either of the three
... and are of such a character that
they can be arranged to suit the
... who may feel them. But the
... has for his studies the use of
... of Physics, from inorganic
... to the building of that organic
... mind will matter
... to not. That we all know



is not his own, for he knows not at
what moment he may be wanted
and so his work is never done. He
should be a man whose business is
perpetually ready for the emer-
gencies. He should occupy the highest
and most exalted station in the
community in which he lives. His
duties are many, and we shall be
to mention some of them. In the first
place, it is his duty to be present
at his office hours, if not called away
where his professional duties, it
should be served in earnest, it is
the duty of medicine, it is
connected with the highest



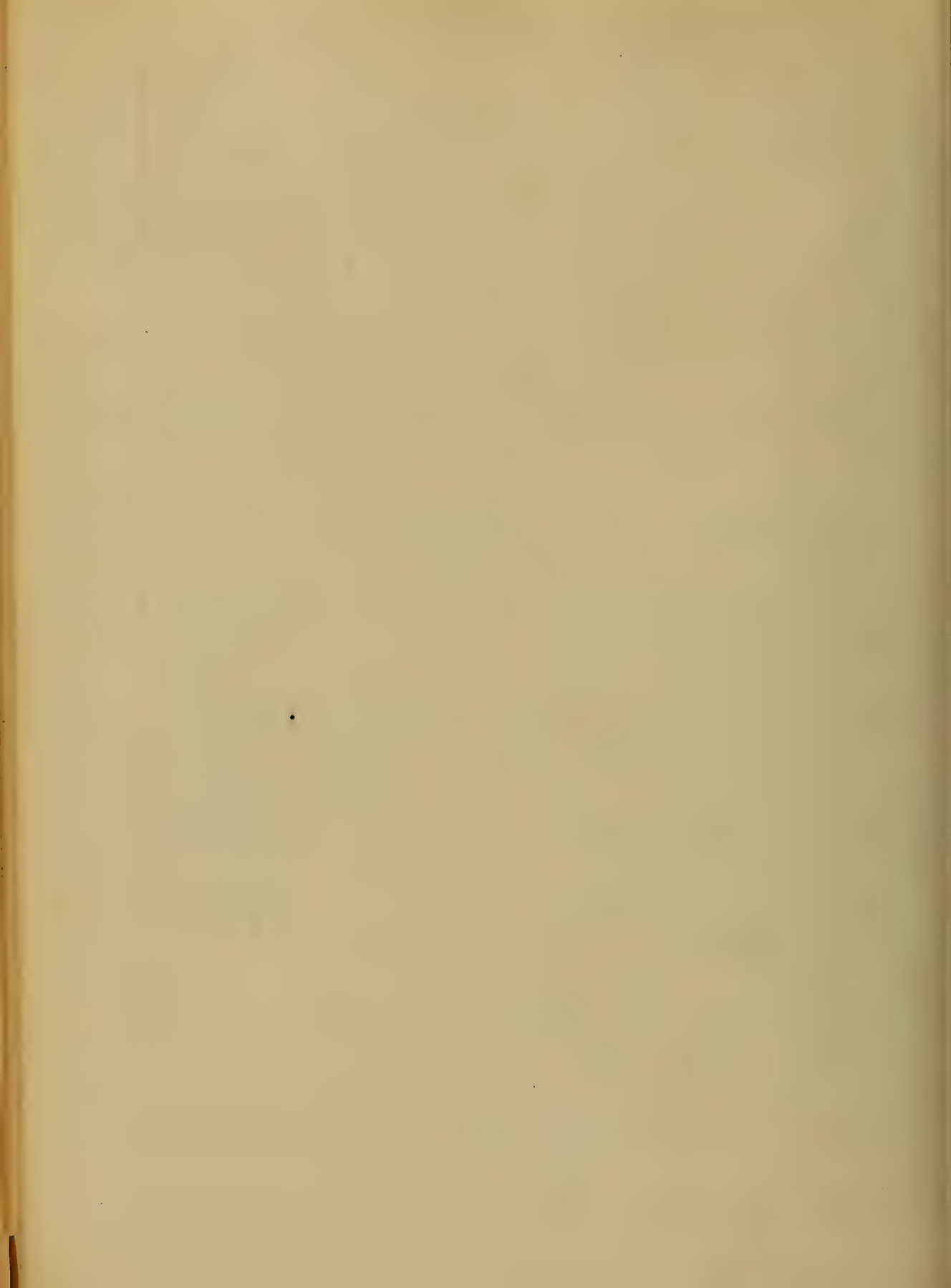
He should improve the present, and
not wait for the future. He should
have no less determination in the
future as in the present. He must
do so, however, in a way which
will not hinder or hurt his patients.
He must also remember that he has
children in his profession, and must
support their rights as he would have
them to support his own. He
will show himself worthy of the
confidence of his patients if he
should endeavor to ask not some
new question every day, for to
be "the best Physician one must
also be a Philosopher".



Once the wrong and way position
 should strive to reach the position.
 Then, entertaining this idea of re-
 suggestion and loyal to it, we will
 every find and see the right
 matter to be put down. It is in
 most delicate relations. We have
 the freedom of the world. It is
 brought in contact with men
 and women in their weakest and
 not better in their worst state.
 There are some of the such women
 that we find out as of them it is
 our duty to correct, with some
 of freedom. The responsibility
 will be on our many men and
 we are very sorry. What we can do

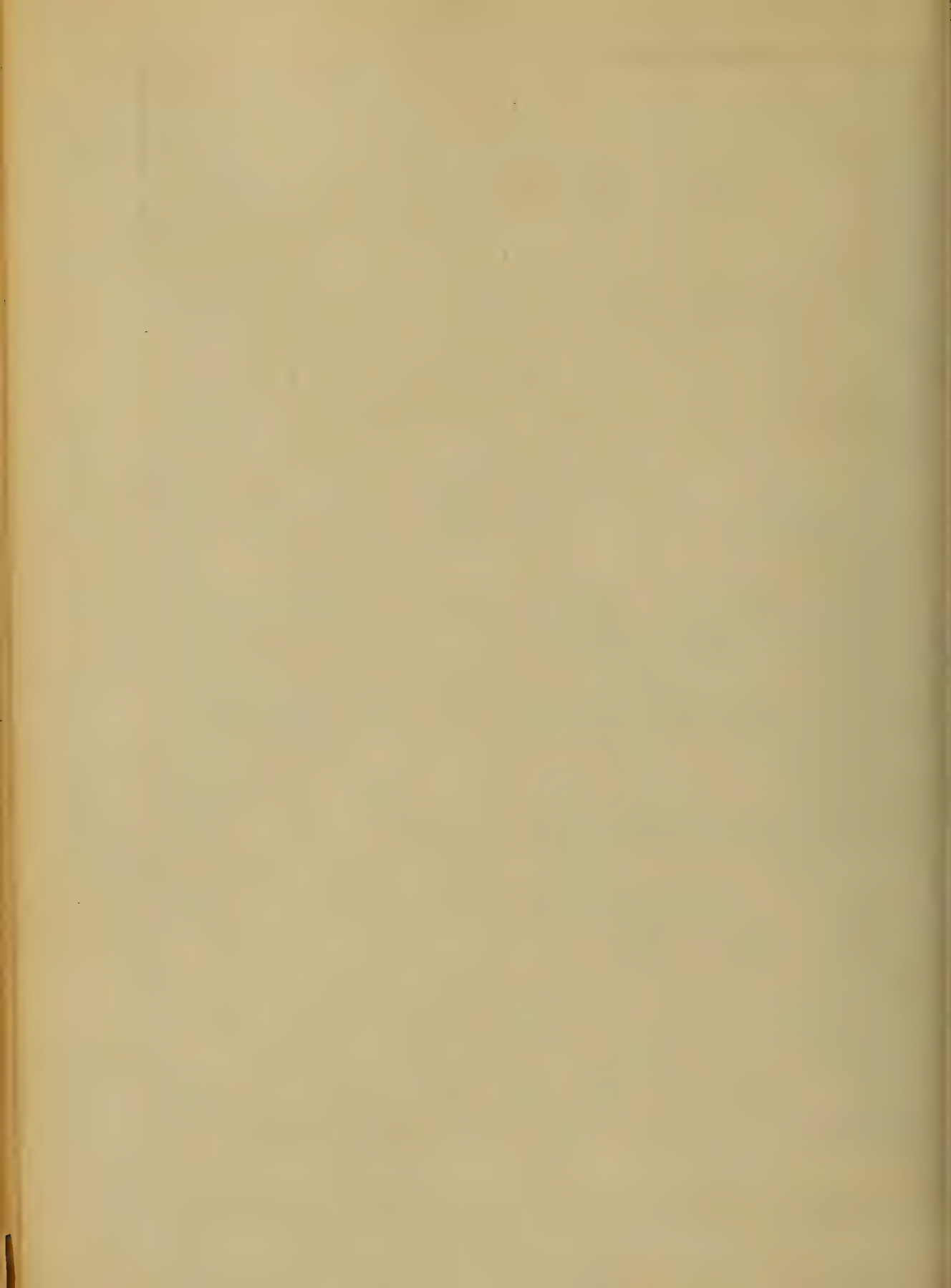


to attend a person during sickness
is almost universal that the life
of that person is placed in his
hands. This is a most sacred
trust, and he should endeavor
to understand the case in all
its points. He is partly responsible
of him, and he should accept
the weighty responsibility of his
not intend to do. During these
responsibilities he should endeavor
to cure, and if cure is impossible
and beyond art, then to mitigate
the suffering, and if death is near
make the discharge as painless
as possible. He can never be
justly reprimanded what he is unable



but we should attempt to provide
 medicine where we understand
 that we operated through one of the
 members we accept the charge and
 the friends look upon him as the
 one who will give all the necessary
 directions for the relief of that case.

This is a great responsibility, and
 if one patient be a responsibility,
 what must many be? The Physician
 who has many under his care has
 no light task, and upon him is
 a responsibility that should not be
 forgotten, but must needs be upper-
 most in his mind. Cases in which
 not case require thought and at-
 tention, and in not giving it this is



neglect his duty, and is not worthy
of the degree conferred upon him
'tis his 'Crima Mater'. If a man
takes the life of another, he is
indubbed murder, he is punished
for it, and with justice, with a
Physician grossly neglects a ca-
se, and takes away a life, and
through his neglect the patient
dies, he is guilty of a crime, and
is not exempt to murder. He that
he not with skill the power of
time, and allow his patient to die?
The Practitioner of medicine should
not practice merely to get a living
or a name, but to benefit man-
kind, and thus is the aim



important duty for any individual
The work of medicine is to relieve
the sick not simply to cure them
The sick but to show them how
not to be sick. There is an oppor-
tunity for professional services to the pub-
lic it is his duty to see that what
he has to do is well done. He is
never a subject to be inquired into
but is the servant of the community
in which he lives. He is a servant
of the public and must answer to them
or he will not be long in leaving
what he has to do. He must be
He must be patient, and though he
practices his art he must be
over at his feet when he is needed.



When the Plague is spread, we
can the count of the number of
infection it is not for him to
fly, as others may, but stand to
his post, bear the brunt of battle,
and strive to aid his fellow men,
even though he lose his life in the
struggle. He should be kind to
the poor, and although he has
ties among them may not be of
any pecuniary benefit it is his
duty to relieve their afflictions
if possible, and add to his
good works which will be recom-
pensed by the Great Physician.
It is obligatory upon him to be
acquainted with the disease.



proposes to us. He should understand why he gives them, and how probable what their outcome will be, as far as he is able from his knowledge now possessed of them. He should understand himself that he may treat citizens and under the present no national laws. He should not forget that new discoveries in science will suggest and necessitate new laws, he must keep up with them, and he will never be gray. He should not confine himself to one book only, but have access to many that he may receive different views, and then act as he may.



ment true him is right. It
 often is a duty to perform some
 generous task, one that gives
 him pleasure and yet the pain he
 suffers is not nothing compared to
 that he is compelled to inflict
 upon others. If in the course of
 duty it is incumbent upon
 him to dash the cup of happiness
 from some poor mother's life he
 should do it quietly and unobtrusively.
 He will often stand by the death
 bed and see his humanity look
 to him for aid, which he is
 often unable to give. It is his
 duty a duty he owes to himself,
 his profession and the public



at large, to remember that his
 chief aim is to do the good
 not to do the right. If he is worried
 before a case of patient to give
 medical testimony he should
 it fearlessly and conscientiously.
 It is the custom of some to take
 particular branches of medicine
 and make specialties of them.
 This can only be successfully done
 in large cities where the population
 will warrant it, and not in rural
 districts. The physician should
 be acquainted with the different
 forms of disease. He should be
 a general practitioner and be able
 to understand disease that may



but in the present, the most certain
and best way to be put in our
power out of sight, and the
duty is to be put in our power
and as these questions of health
and as such he must fully under-
stand that the various operations
on the human body may in the
presence of the organs of the
at one time, and in fact, in the
scabbe producing slight, and in
others great and decided effects.
He should search for and find if
possible the most easy to be
featured mind, in a significant sym-
ptom, and treat these in a
various letters in effect, in

radical cure or so doing, than
be treated the best. However
was above. The experienced Physician
is very aware of this, hence his success
in the profession. Good doctors are
not without their excellent cases,
as it is a matter of common sense
and the comparative success of
different individuals is decided
by their strength and industry,
in pursuing it, and the amount
of success.

"He that wishes to be counted among
the benefactors of his country,
should be true to the acquisitions
of his ancestors." Rambler.



and when a civil and social
state shall be allowed to
suffer from any contagious
disease, and you do not
believe the way will be with
Hudon.

It is not worthy of the Society
that should the time be given to the
Society.

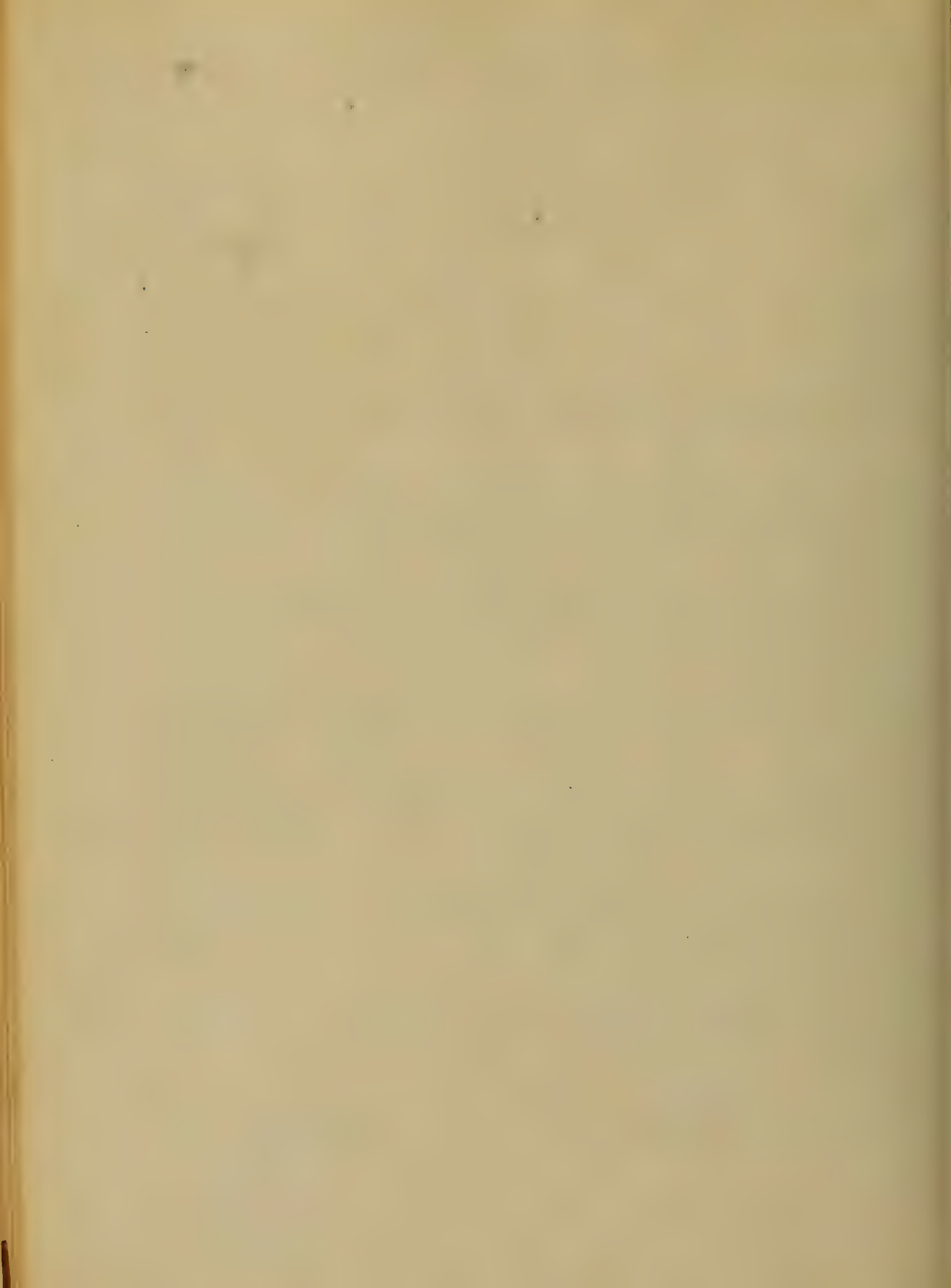
It is not worthy of the Society
to be given to the Society
that is no danger, and all who
will, will assuredly receive the
the same justice as the
are outraged public. And the
will look upon them as a



The high and honorable calling
of which he is a disgrace is mem-
ber. Every one that follows in im-
portant a calling must remember
that while it is one of the noblest
professions it is the meanest of
trades, if one enters it with the view
that it is the road to wealth. Such
a person enters the medical profes-
sion has no idea of the responsibilities
he assumes. The sooner he under-
stands that he has undertaken his
calling, the better will it be for him.
It is true everyone is expected
to earn his living from his profes-
sion and more justly than
that he should be rewarded by a



The sick are plenty of these and
Gods should not prescribe good
teach, for by so doing he will wrong
the rest of the profession and we
are more desirous of justice to the
the Physicians. He takes as account
take for his motto the famous one.
"I would others as you would have
them do unto you," and he who
violates this rule wrongs himself
and himself. Many times the
utterances of the Physicians are thought
at because of the ignorance of the
one attendant upon the sick man.
This must be watched by ministers
as at times he is corrupted to



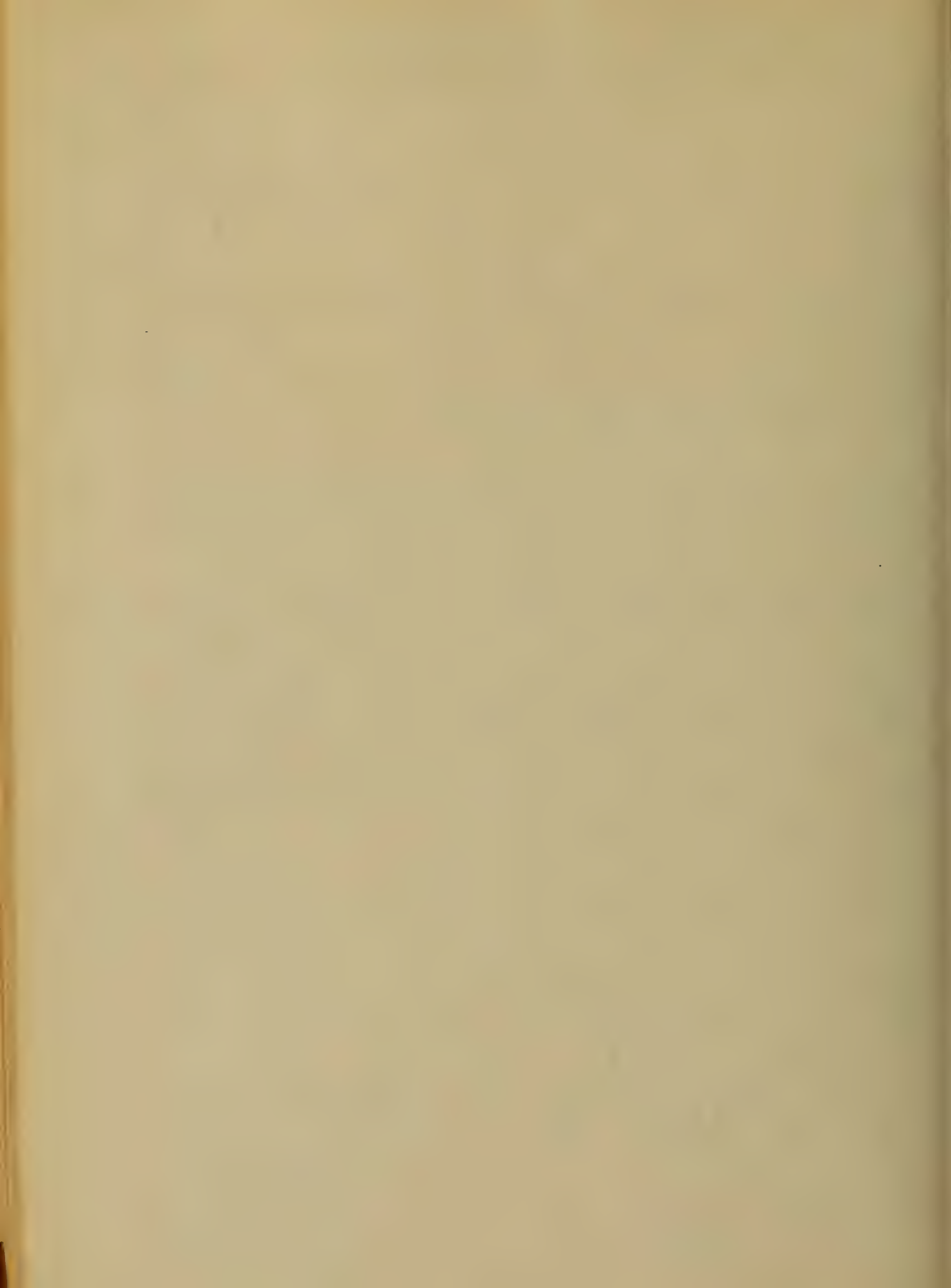
not in the conduct of
the government, and more the
more of moderation and calmness
Institutions are to be established in
Doctor Nation that we cannot find
the pleasure of putting some of them
"The profession of medicine during the
last century the common good of human
kind, and the welfare of nations, are
involving, of political strife, and of
sectarian dissensions. Disease and
pain, the sole conditions of the human
state, it is distinguished by a religious
concerning the patient, and the
of its ultimate course, but still
its treatment, benefits without
or people to more of every count 4,



and hearts and voices, and to
make just religion at all, that is
the quantity of money, which it is
the favorite handmaid, "It is
the time that gives men time, but
takes away to the things we
must not understand, but
must learn, we must the most
impressive lesson, the knowledge
knows we have many instances
forming, indeed a vast majority
of the whole body, suffering what
illnesses are the natural fruit
of our course, of sin. But we are
by our profane and other
men, to see to the cause of these judgments,
which was manifestly, and



The business world has been so long
remains of the world the business
temporal for which the business
it is good to be sometimes afflicted.
Familiar with death in its mani-
fold shapes, sometimes from
to say it is sudden stroke, stroke
but clear signs, it is not
is not possible we are not so
to be unmindful that our
is brief and uncertain, our
pursuings, and our time, even at
the longest is very short, if
beyond moral wants, and
a mind? Now when we
what it is that the Physician
has to attend to, surely



that he is, for he is only the
 honored instrument of a
 power, but he can make himself
 a most excellent instrument in the
 favour of the cause. The man
 as soon as he can know how to
 a wise man can depart this life
 he should live the life of a
 instrument by a stone, he will be
 to use, to himself and to the world.
 And when the soul does reach
 that end be peace, and he who
 all things must never sleepfully
 to him who has the most arduous
 weightiest of responsibilities will do
 good work faithfully.







A. B. C.

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Some thing,

A. B. C.

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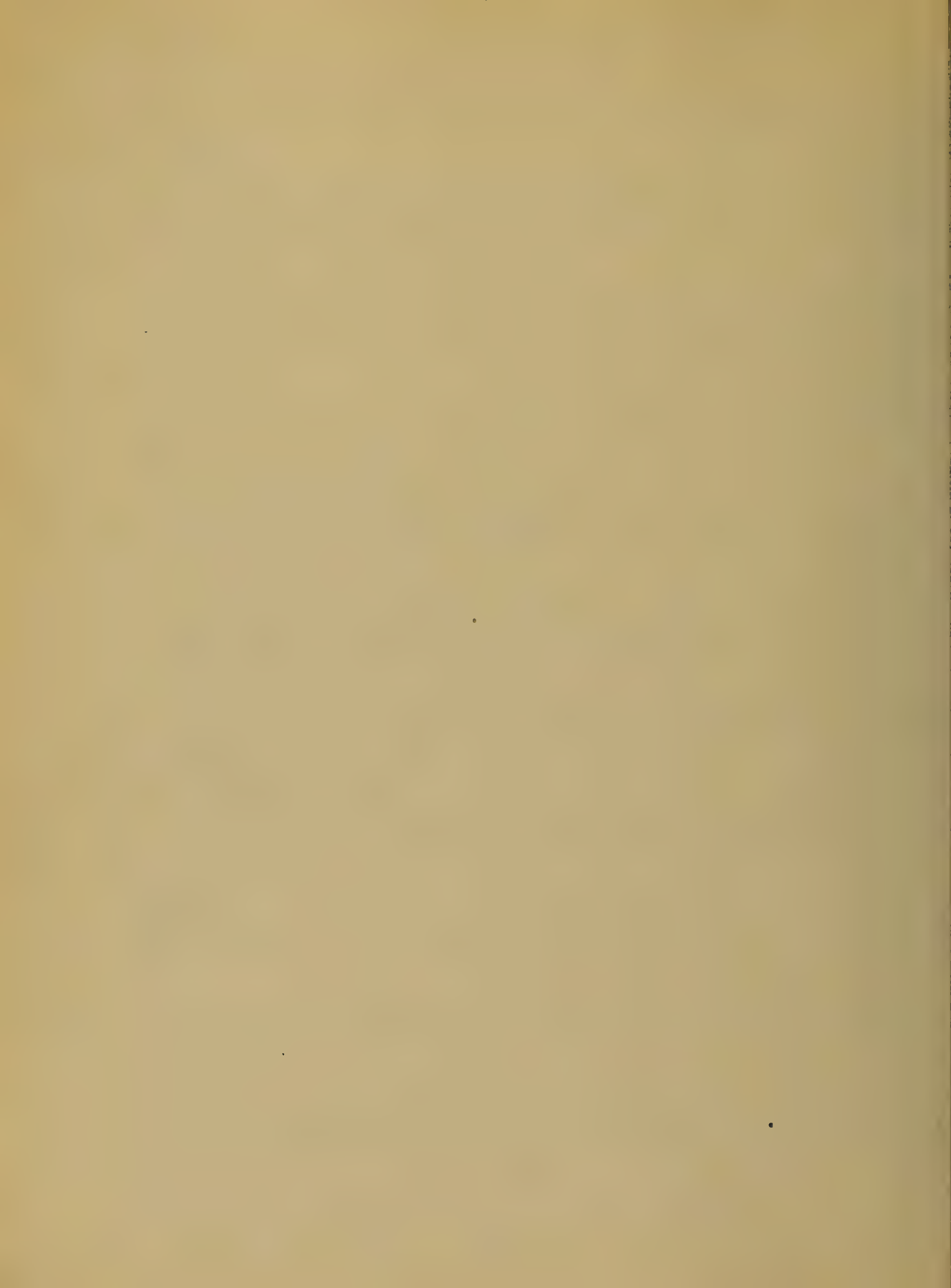
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at a minimum, at least

... ..





The insect is a very common
dark and almost black in
appearance from Canada.

It is a very common insect
in the mountains of the
United States. It is a
very common insect in the
mountains of the United States.

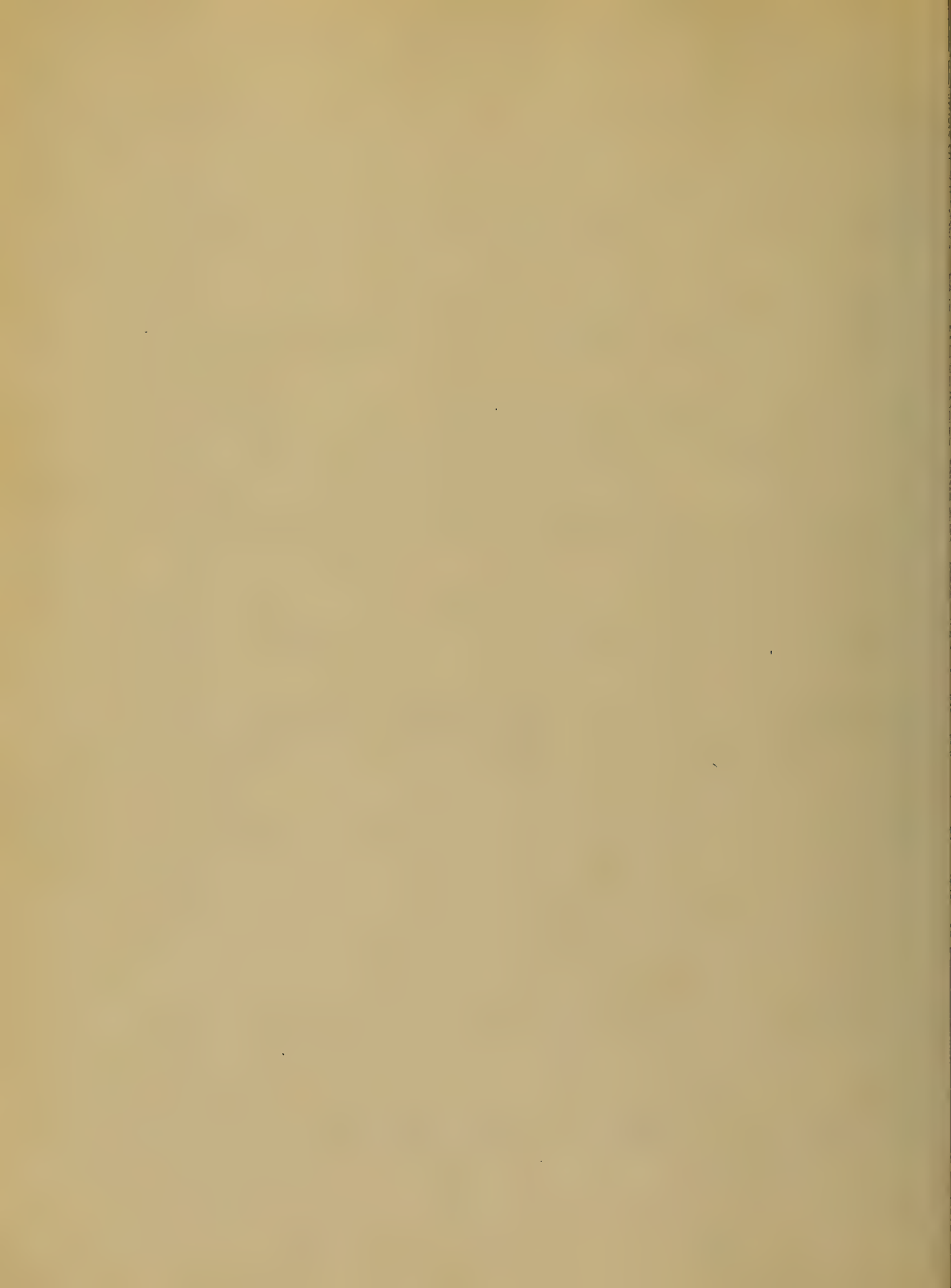
It is a very common insect

in the mountains of the
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It is a very common insect
in the mountains of the
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very common insect in the
mountains of the United States.



... the direction
... the characteristic
...
... is denoted by the characteristic
...
... blood is comminuted.
...
... the revealed, New
... abundant used forms
... a fatty like mass something
... like the rusty sputa of
...







The air is...
...but when the air
...at the commencement of the disease the
...is more...

As for the duration of the disease
it varies, it usually
terminates in from five to
twenty days.

Pathological Changes
The disease is a spontaneous
inflammation of the lungs, it is
...
...
...



...ment, ... the ...
... and ...
... denotes either ...
... the phenomena of the
... or the constitution
of other ...
... observed to occur
in the ... limbs. Different
... in ...
... the ...
... the ...
... section, but the
... so it seems
afford insufficient evidence,
at all ...
... the ...
... the ...





The influence of heat and electricity
 in the production of the various
 phenomena of the atmosphere
 is a subject of great interest
 and importance. The various
 phenomena of the atmosphere
 are all connected together
 and form a system of
 equilibrium. The influence
 of heat and electricity
 is the cause of the various
 phenomena of the atmosphere
 and is the cause of the
 various phenomena of the
 atmosphere. The influence
 of heat and electricity
 is the cause of the various
 phenomena of the atmosphere
 and is the cause of the
 various phenomena of the
 atmosphere.



and upon the disease. Among
other causes that may be
concerned in the disease are
acid fruits in large quan-
tities, imperfectly fermented
starchy fruits, such as
apples, pears, and the like.
The best diet is milk
and cream, and other
easily digested food. It is
not to be forgotten that
reference to the collection
of the patient in the course
of the disease is important
they should be kept in
the hospital in a
the best possible manner.









... treatment.

A great number of remedies have been employed in the treatment of this disease, but none have been found to be of any great value under different circumstances. In the first instance of this kind, the patient would doubtless end in recovery, without medical treatment, - but there is no doubt, that this disease is often arrested by various remedies. The first point in determining the treatment is, to ascertain if the disease has been ...



It is not sufficient to counteract
the effects of nature more
completely by giving a
stimulus. Castor oil, the
oil of sweet almonds, (Kassowal)
is the best. The oil of
olive, etc., is better when
mixed with the oil
of Castor oil. After a full
dose of this medicine
the nurse is directed to see
that the patient is
kept in bed and
not to disturb and
give in full dose





The treatment should be com-
menced for some time, the
remedy being given in similar
doses, until the patient is
found to have made some
improvement to be taken. This
is the case in the disease
mentioned by some authors,
not only in the commencement
of the disease, but during
the course of the disease. This
is the case in the disease
mentioned in the head of
the paper, and in the
disease mentioned in the
head of the paper. During
the early part of the disease





... the statement was useful.
... of the ... of ... was ...
... with ...
... the ... which ...
... the ...

A. F. Boston.

A Thesis
on
Pneumonia.
by
Alfred G. Giles,
M.D.
for the Degree of M. D.

Pneumonia.

Definition. Inflammation of the substance of the lung.

Varieties.

Groupous or Lobar,
Catarrhal or Lobular, and Inter-
stitial.

Morbid Anatomy.

Groupous or Lobar commences with hyperaemia of the small vessels, which are distributed in the walls of the air-cells and bronchial passages, swelling and tendency to proliferation of the epithelial cells of these parts and exudation of inflammatory lymph and of the corpuscular elements of the blood.

Consequently the air-cells and passages become more or less filled with this exuded matter, the air which they contain being expelled, and the lung tissue becoming solidified. Microscopical examination, will show the blood vessels to be distended with corpuscular elements, and the alveoli full of epithelial or modified epithelial cells, which have probably undergone some fatty degeneration, and other cells of the character of leucocytes or pus corpuscles. As the disease progresses, these products partake more and more of the character of pus.

As the inflammation tends to spread, different portions of the lung present marked differences of condition, and consequently, the different portions may present different stages of the inflammation.

Catarrhal or Lobular.

In this form the lung is found to contain small red or yellowish circum-
scribed solid nodules, which do not inflate when the lung is inflated. If they are situated near the surface of the lung, they present small rounded elevations. These nodules will be found to consist each of one or more pulmonary

lobules, circumscribed, by the interlobular septa, and separated from one another by a net-work of still crepitant and, perhaps, perfectly healthy lung tissue. By a further extension of the disease, neighboring patches may coalesce, thus involving extensive tracts of lung tissue. Lobular and Lobar pneumonia, here pass into each other. True Lobular pneumonia, is always secondary to the blocking up of the smaller air-passages; it may be excited immediately by the gradual extension of the inflammatory process from the tubes, to the acini,

or by irritation of the cells, caused by the entrance of these inflammatory products during inspiration. The microscopical appearances are similar to those of lobes pneumonia. The connection of lobular pneumonia with obstruction of the tubes, is shown by the facts, that lobular collapse, is often associated with it, and that the collapsed and pneumonic conditions, are found to pass into each other.

Interstitial.

This form is usually considered chronic in character. Aside from infiltrated tubercle

6

or tuberculous pneumonia; the name is used to denote a morbid condition, characterized by a morbid growth of the connective tissue of the lung. It differs from the forms already described, in that, the air cells are found to contain no morbid products. It is denied by some, that it is inflammatory in character. The pulmonary tissue is dense, tough and resisting. The air is expelled from the vesicles, by pressure of the morbid growth of inter-cellular tissue; consequently, producing more or less contraction of the lung.

Causation.

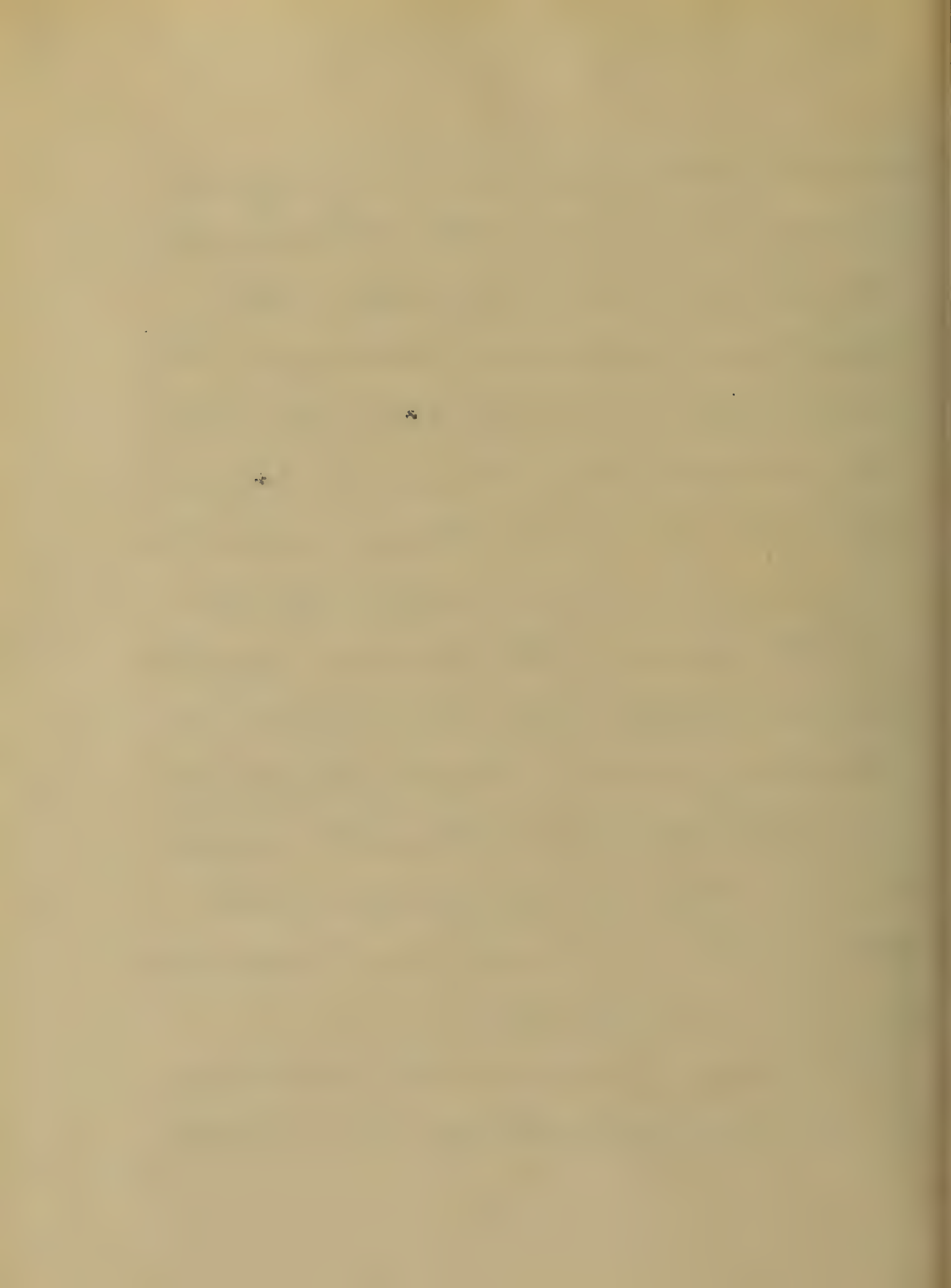
Pneumonia like the other acute diseases of the respiratory organs, is due in the greater number of cases to exposure of portions of the surface, or a draught or by prolonged exposure of the whole surface to a less degree of cold. It is most common in those climates, and, at those seasons, in which the temperature is subject to sudden variations; as for instance in the temperate climates, Spring, is the most common period. It occurs, however in males, than in females, and is far more common among the

working-classes, than others; facts
which may be explained; by the
increased amount of exposure, to
the cause of pneumonia, of those,
who have to earn a livelihood,
by the "sweat of the brow."

It may also be caused, by the
spread of inflammation, from
other parts; such as the inflammation
of the bronchial tubes, in cases of
bronchitis, diphtheria, whooping-
cough measles etc. Other causes
which may be mentioned are the
inhalation of irritant gases,
and the mechanical irritation
caused by the inhalation of
particles of dust or other such substances.

Various systemic conditions may act as exciting causes of the disease, such as pulmonary congestion, the existence of specific poisons, in the blood, as in renal diseases, and the various exanthemata. And it is probably due to these causes, that pneumonia so frequently occurs, in the course of the various infectious fevers, erysipelas, rheumatism + kidney disease heart disease, etc. The disease, maybe traumatic in origin. In many cases of acute pneumonia occur when no cause can be assigned for its development.

The causes of interstitial or chronic pneumonia are obscure. In a very few



cases, it may have been preceded by acute pneumonia. In the majority of cases, the disease is secondary to some previous pulmonary affection; many of those conditions of the lung, which are embraced under the head of pulmonary phthisis, are succeeded by or connected with this form of pneumonia.

Symptoms.

Idiopathic pneumonia is generally preceded by a prodromic period of one or two days, which is indicated by a general feverishness, or undefinable feeling of illness. This may be followed by a sudden

and severe rigor or succession of rigors;
and the usual symptoms or more
or less severe inflammatory fever.

The respirations are usually
hurried and shallow, and may
vary in frequency from the normal,
up to fifty or sixty in a minute:
and they are usually attended
with extensive movements of the
abdomen. Dyspnoea may be more
or less severe. At first, there is more
or less cough of a dry character,
which is afterwards attended with
the expectoration of a transparent and
viscid mucus, tinged with blood, to
which the usual name of brick-dust
or sputa, is given. Later in the disease

The sputa loses its sanguinous tint, and becomes somewhat opaque and greenish, or acquires a mucopurulent character and gradually diminishes in quantity. In some cases, the expectoration may become distinctly purulent, and may be attended with great fetor, which usually indicates pulmonary gangrene. The quantity and quality of the expectoration may vary greatly, in different cases.

It is characterized by an increased amount of sodium chloride, and contains considerable quantity of mucus, and albumen. Pain may vary in amount. In some cases, there is no pain whatever, and in

some, the patient has a severe stitch, whenever he coughs, or draws a deep breath, it is pleuritic in character and is probably due to existing pleurisy. The pulse is always increased in frequency, but rarely proportionately to the respirations, instead of being as 4 to 1, sinks to 2, or $1\frac{1}{2}$ to 1. In adults it may range from 80 to 120, and in children, it may rise to 200 per minute.

The character of the pulse varies, in different stages, being often full and strong in the beginning and becoming more or less feeble and thready. The tongue presents different appearances, sometimes,

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thickly coated with fur, and in some cases it is dry and brown. Sordes may accumulate on the teeth, and there is also loss of appetite.

The condition of the bowels may vary, sometimes not particularly affected during the disease, again they ^{may} be constipated, or diarrhoea may exist. The face may be flushed and somewhat livid. The skin is dry and hot but profuse perspirations may occur during the decline.

During the febrile stage of the disease, ^{the urine} is scanty and high-colored and of high specific gravity. There is diminished quantity of sodium chloride, and an increased amount

of urea, and ureic acid, due to the increased metamorphosis of tissue. During convalescence, the urine returns to its normal amount and constituents. The patient may become drowsy; though he is apt to be restless, especially at night. Delirium may come on early, at first, being limited to the night, but afterwards may become more or less continuous.

In fatal cases, delirium may pass into coma. Temperature usually rises rapidly from the time of invasion, so that perhaps within 24 hours, it has attained its maximum, which may vary from 100 to 106° Fahr. or even higher.

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From this time onward, it may vary with morning remissions, and evening exacerbations until the time of crisis, which may be at or about the seventh day, when it either suddenly or gradually falls. In fatal cases the temperature occasionally rises rapidly just before death. The symptoms of secondary or lobular pneumonia, may not be so marked in character as the above. They may creep on insidiously in course of other affections, which may have produced pulmonary symptoms; such as difficult breathing, expectoration, cough, and embarrassed cir-

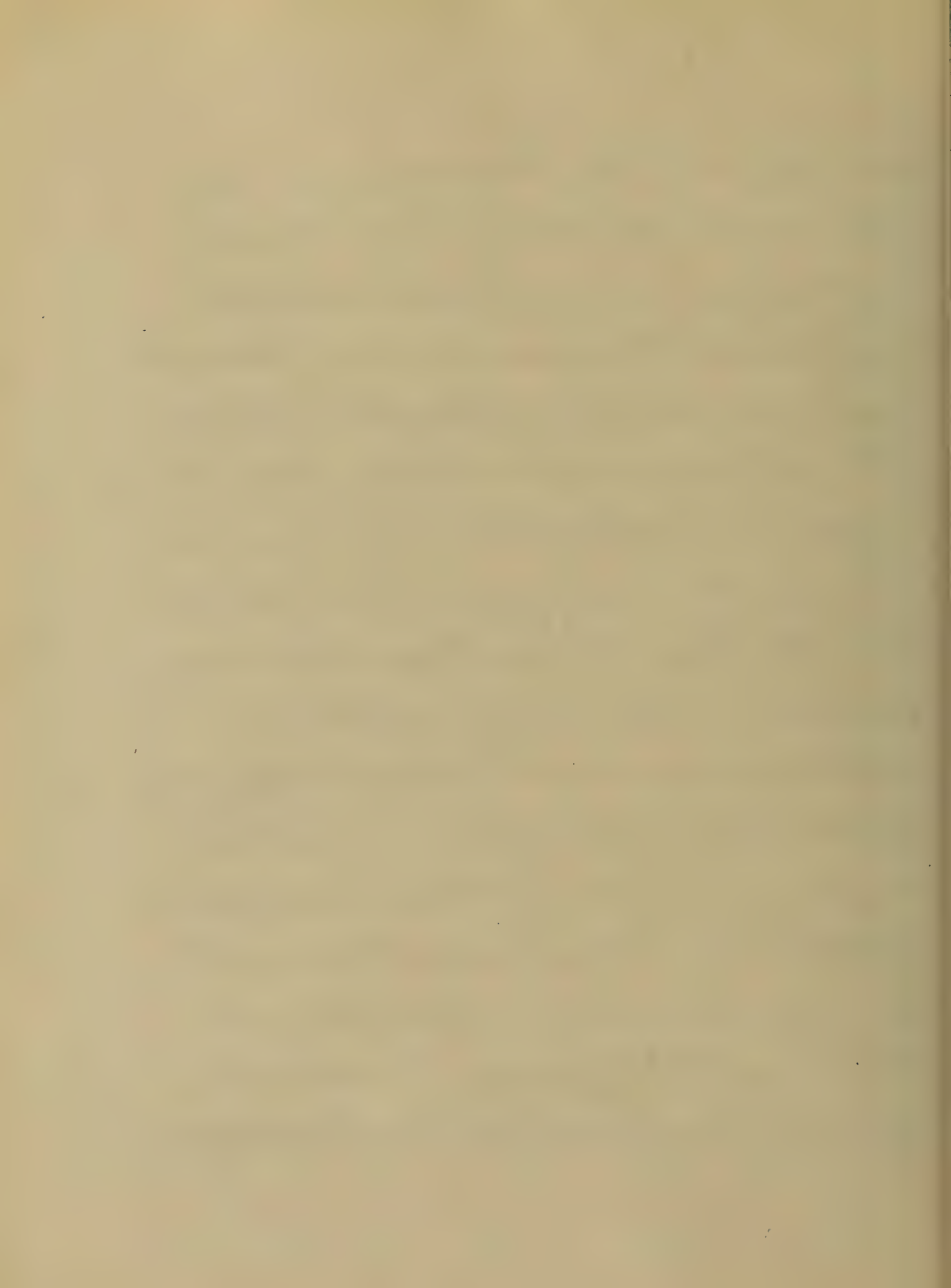
17
culation, etc. The onset is not usually marked by a chill or anything equivalent to rigors; nor is there so much febrile disturbance, which characterizes the idiopathic variety. This form of pneumonia, may be looked for in patients, who are suffering from those diseases, which are liable to be complicated by it, and can only be determined, by careful investigation of the physical condition of the thoracic organs. The symptoms of a case of interstitial pneumonia are rather obscure, there being no marked febrile conditions, indicating,

17
its occurrence. Probably, the first
thing which will indicate
positively its existence, is retraction
of the chest wall, over the affected
portion of lung. With this retraction
there may be dragging pains
in the affected side, and cough,
with expectoration. Difficult
breathing is not usually marked.
The disease being chronic in
character, there is gradually
loss of flesh and strength, and
sometimes night sweats may
occur.

Physical Signs.

The physical conditions
of the lung vary with the different

stages, and the progress of a case, through its various phases, is gradual; yet there are three different stages, in which it presents more or less characteristic features. The stages are first that of emphysema, second, that of red hepatization, and the third, that of gray hepatization. In the first of these stages, the lung or portion of the lung affected, still contains some air, consequently, percussion, will give no marked difference from normal percussion resonance. Upon auscultation, the presence of minute crepitation or sibilant râle, may be audible: during inspiration, and sometimes



may be heard during expiration. In the second stage, the air having been expelled, and the lung being consolidated, the physical signs elicited will differ much from the normal. There is marked dullness on percussion over the consolidated portion of lung, with increased vocal fremitus. Vesicular respiration of normal lung and the crepitation of first stage will have entirely disappeared over the affected part, and is replaced by marked tubular breathing. The character of the cough and voice may be somewhat changed during this stage. In the third stage, when resolution takes place, or the

lung tissue, is breaking down the tubular breathing is replaced by a coarse crepitation, or a mucous rale, and there is gradual res-titution of the pulmonary percussion note, and later if resolution continues, the normal respiratory sounds will gradually reappear.

The physical signs of interstitial pneumonia differ somewhat from those of the other forms. The percussion sound will be duller than in coughs or catarrhal pneumonia. The respiratory murmur is either feeble or absent, or heard only over small areas, or it may be

bronchial in character. Mucus rales of large and small size may be heard, having a sharp metallic quality.

Diagnosis.

The only affections with which pneumonia is likely to be confounded are pleurisy, bronchitis, and phthisis. In children collapse of the lung, may be mistaken for lobular pneumonia.

The disease may be distinguished from pleurisy, by the absence of sharp pain, and by the copious rale, and rusty sputa. In bronchitis, there is no dullness on percussion, and the disease is always bilateral.

Prognosis.

The prognosis is, considered the extent depends, upon the age, of the patient. When occurring in the child or in very old persons, the prognosis is extremely unfavorable. The lowest rate of mortality, is between the ages of 15 and 25 years, most cases occurring between these ages if uncomplicated, will recover. The prognosis is also influenced, by the extent of the disease; it being most favorable, when the lungs being equal, when but one lobe is affected; its gravity increasing, as the extent of the disease increases; double pneumonia being extremely grave. Complications also increase mortality.



of the disease, those occurring most frequently with it are pleurisy, catarrh, disease, Bright's disease, &c. Symptoms denoting special danger, are extreme elevation of temperature for several consecutive days, with a very rapid pulse. Marked disturbances of the nervous system, always indicate a grave form of the disease. Delirium coming on early always indicates danger.

Treatment.

Various plans of treatment have been employed with reputable success for pneumonia, each having had its day, and advocates. From the days of Linnæus, to about the middle of the present century,

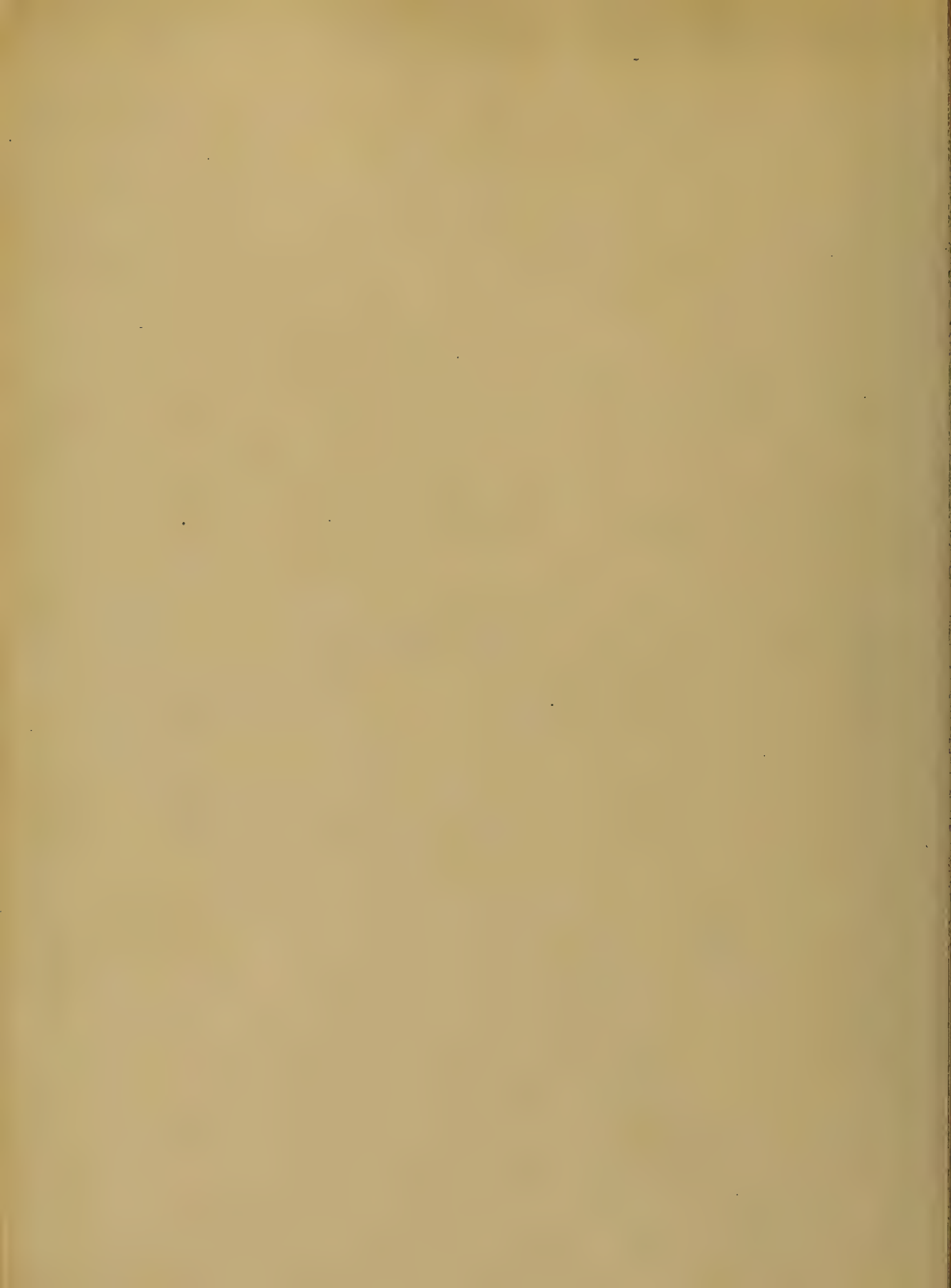
The antiphlogistic method, (i.e. the
 combined use of blood-letting, tartaric
 and mercury), was used. Since the
 days of Dr. Ford, there has been
 considerable reaction in the method
 of treatment, the antiphlogistic
 method having been replaced by
 the free use of stimulents. It is
 evident however that neither ^{one} of these
 methods, is the proper treatment
 for every case of the disease. The
 requirements of each case, will vary
 as the conditions of the subject of the
 attack. The treatment is not to be
 directed so much to the disease, as
 to the conditions presented by each
 individual case; while one may

be benefited by depletion, and then
 may require stimulation. In the
 majority of cases, probably the expected
 treatment is the best that can be
 adopted, trusting the individual
 symptoms as they may arise, leaving
 the progress of the disease. If the
 patient be in full habit, probably
 the best thing that be done,
 during the first or second day is
 to use general blood-letting, or
 probably, in the majority of cases
 presenting a plethoric condition,
 local blood-letting would be
 sufficient. Antimonials are recommend-
 ed by some authorities, during the
 febrile stage. ~~also~~ during this stage

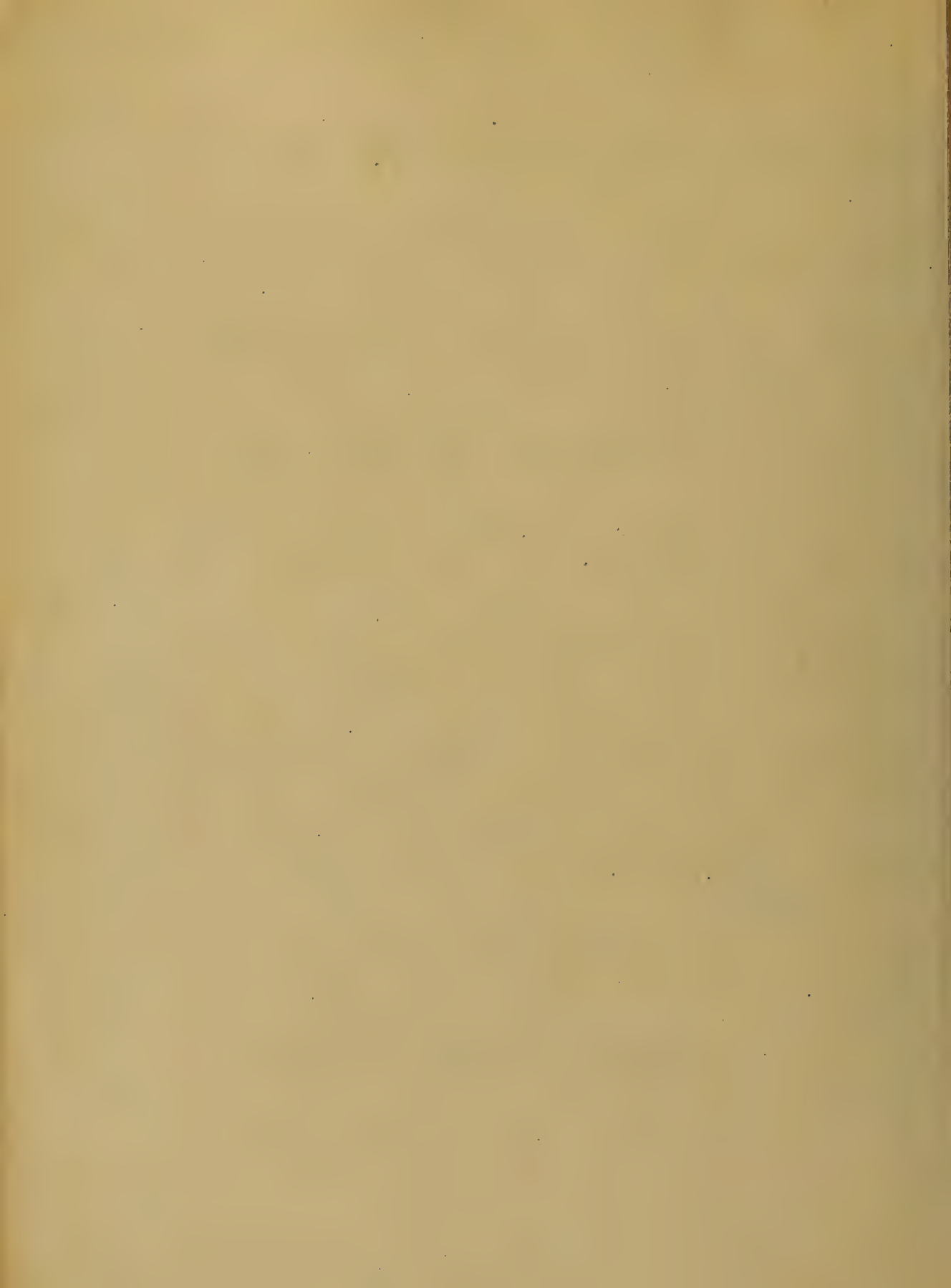
also, antipyretics may be used
advantageously, among them quinine
seems to hold its sway now to lower
temperature. Diaphoretics and diuretics
may also be used, if symptoms arise
which indicate their use, and also
tonics during convalescence.

Clinical Reports
of
In Surgical Operations.

By J. Cooper Shepherd.
1880.



Amputation of the thigh by Dr. A. H. Bayly.
A negro man aged sixty four years,
engaged in hauling lumber, had
his left leg crushed by a piece of
timber catching it against a
gate-post. This accident occurred on
the 10th of July, 1878 in Cambridge,
Mich. Dr. Alex. H. Bayly being sum-
moned, found upon an exami-
nation that the lower fifth of
the thigh and the upper third
of the leg was crushed to a
jelly-like consistency. The man
was sitting up, and did ^{not} seem
to suffer much. There had been
very little hemorrhage, and it
had stopped when Dr. Bayly



and I first saw him, about ten minutes after the accident. He was sent to his home in a cart, the doctor and I following soon after with an amputation case and chloroform. Amputation was decided upon, because of the impossibility of saving the injured extremity. The patient was laid upon a table, which was placed before a window. I administered the chloroform, and a proper degree of anaesthesia being produced, the operation was commenced. The doctor arranged his instruments, and raised the limb to be amputated, to facilitate the



venous flow, and then placed
the tourniquet so as to compress
the femoral artery when tightened.
The leg being properly held by
assistant he made his anterior
flap about four inches long, in-
cluding as much of the bruised
tissue as was practicable, so as to
avoid taking away more leg
than was positively necessary.
Then passing the knife under the
bone at the base of the anterior
flap he cut the remaining
tissues with a downward sweep,
making the posterior flap.
The flaps being retracted by
an assistant the bone was di-



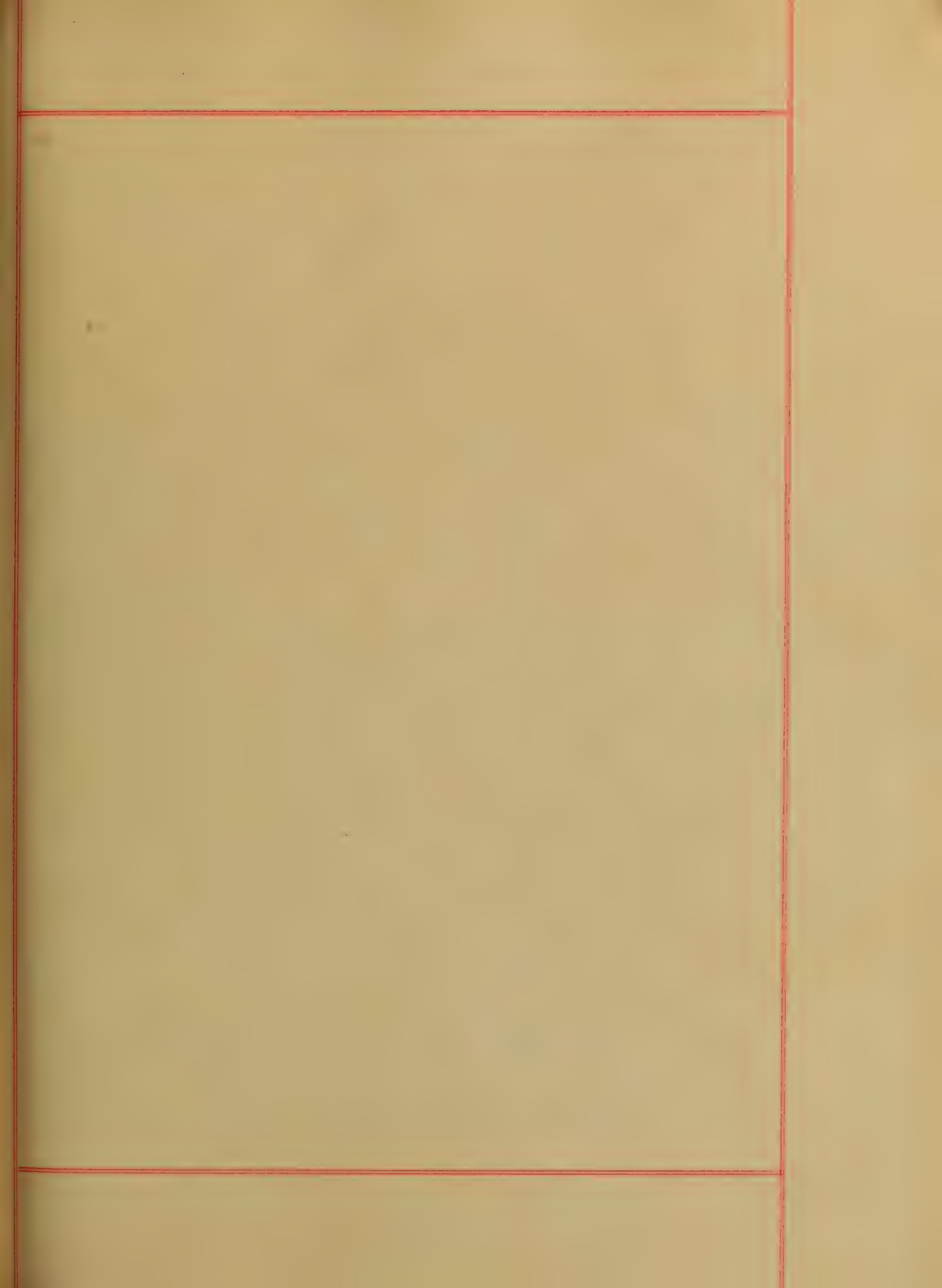
vided with the saw about an
inch above their base, the peri-
osteum being previously pressed
upwards. The fractured end of
the femur was transverse, and
not splintered as was supposed.
The femoral and profunda arteries
were tied, and the smaller ones
twisted. The nerve trunks were
pulled out a short distance and
snipped, to prevent them from
being 'caught' in the cicatrix.
The edges of the flaps were adapted
to each other, and secured by
silk sutures and strapping, an
opening being left for drainage
at the most depending portion.

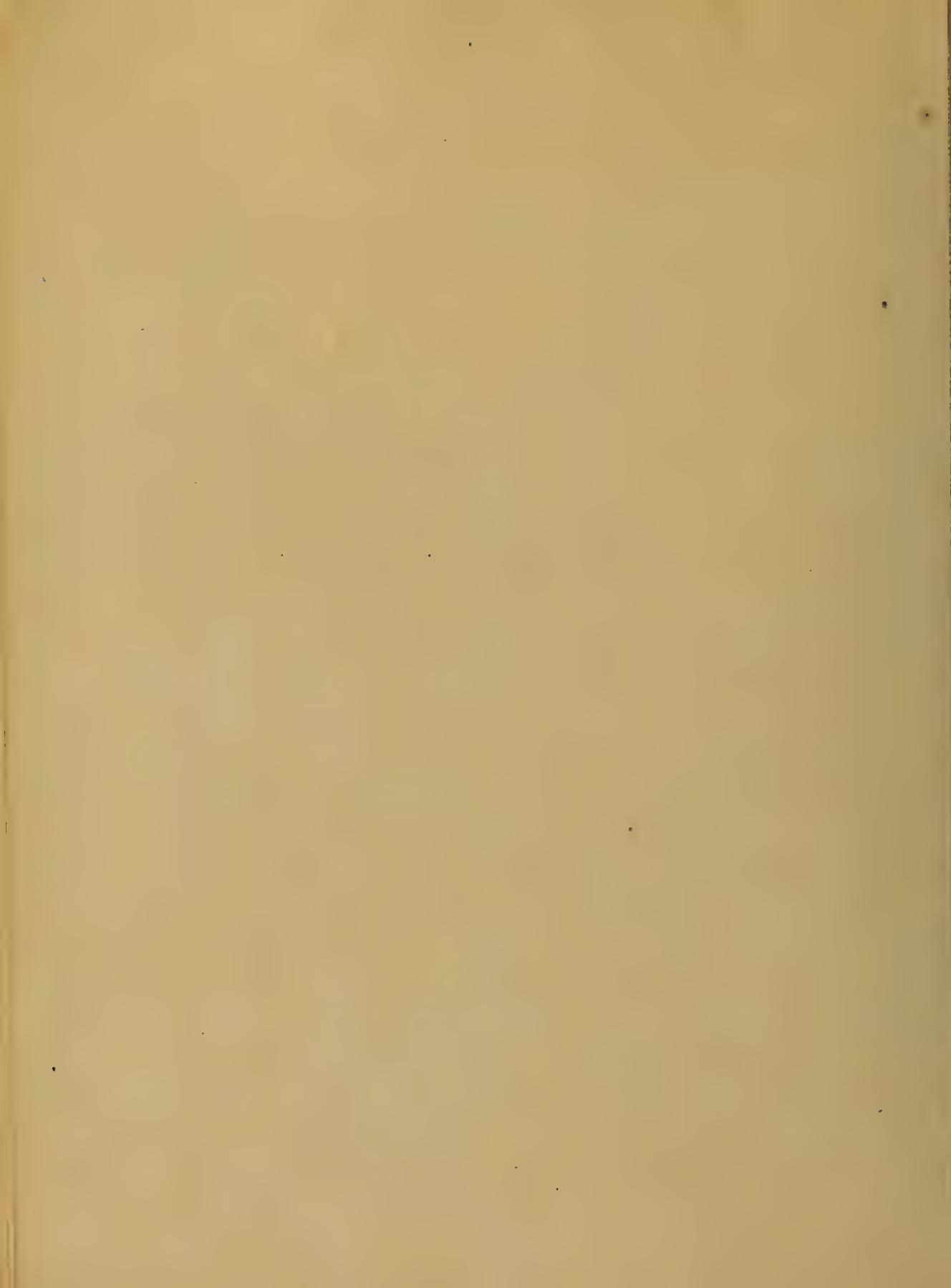


The anesthetic was stopped and the patient was placed in a bed where he revived. The bed was of a hard mattress with an oilcloth between it and the sheet. A pillow was placed under the stump, covered with an oilcloth in order that all of the discharge could be washed away before becoming offensive. Carbolic water dressing was used for the stump. A grain of opium was administered and the patient was left in charge of his wife with instructions to keep the parts clean and to repeat the anodyne if necessary.

The sutures were removed five days afterwards, the patient being in good condition. He was allowed good nourishing diet but no solid food was given him for two weeks. I left home for the sea-shore just after the operation, but the doctor assured me that the man (although an old man, and the weather was very hot at the time of the accident & operation) recovered without a bad symptom, and was out on crutches five weeks subsequently. This statement the patient confirmed when I next saw him.





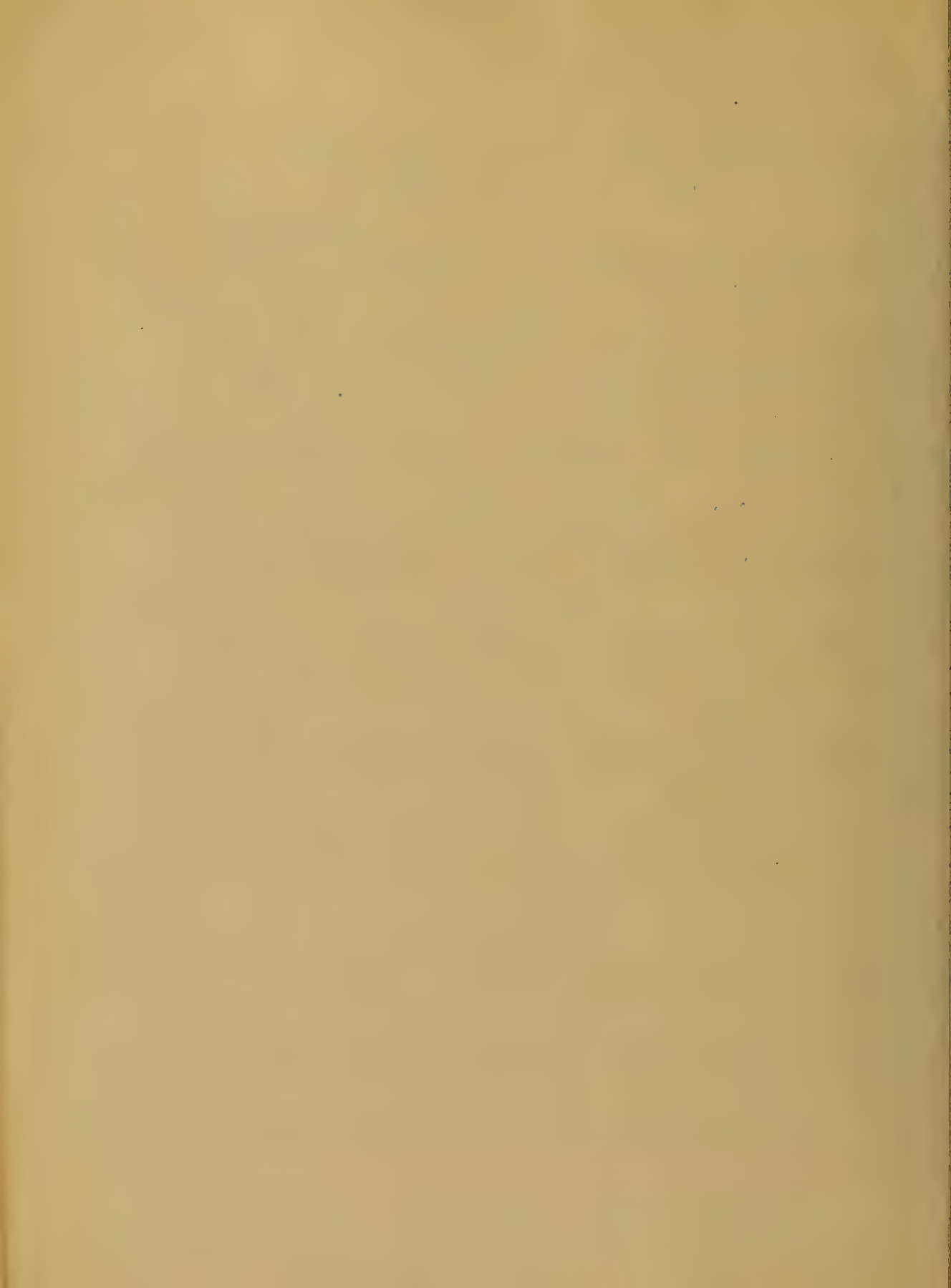


Herniotomy by Prof. Alan P. Smith -

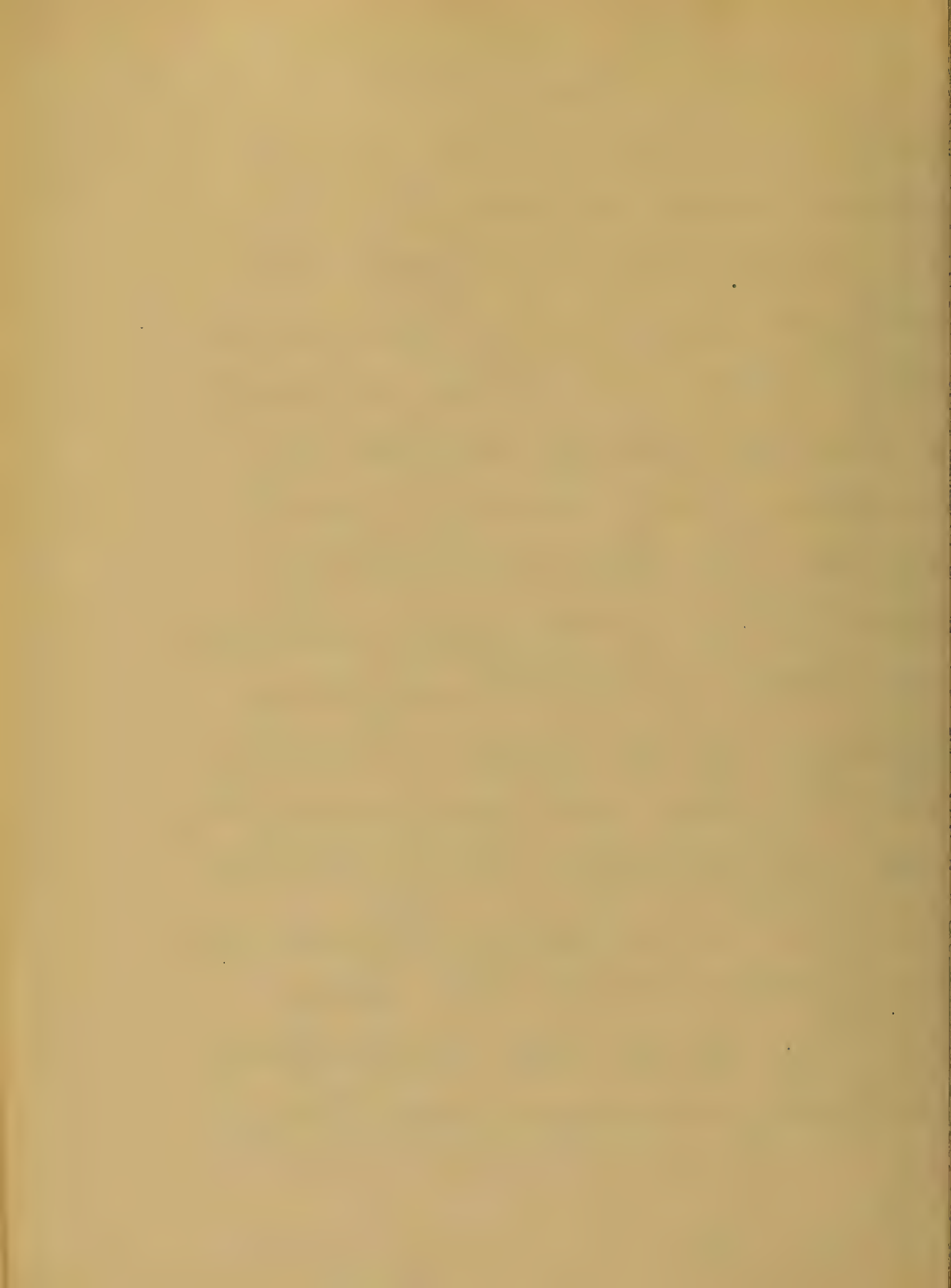
On Sunday December 10th, 1879, Prof. Smith was requested by Dr. Harrington of South Baltimore to perform "Herniotomy" on a woman on Light St. who had a strangulated inguinal hernia which could not be reduced by taxis. She had had no old hernia, and this was caused by lifting a large filled market basket on the day before. She was suffering with the usual symptoms caused by such an obstruction - pain in the abdominal region, vomiting &c. - Without using an anesthetic, the professor performed the operation by



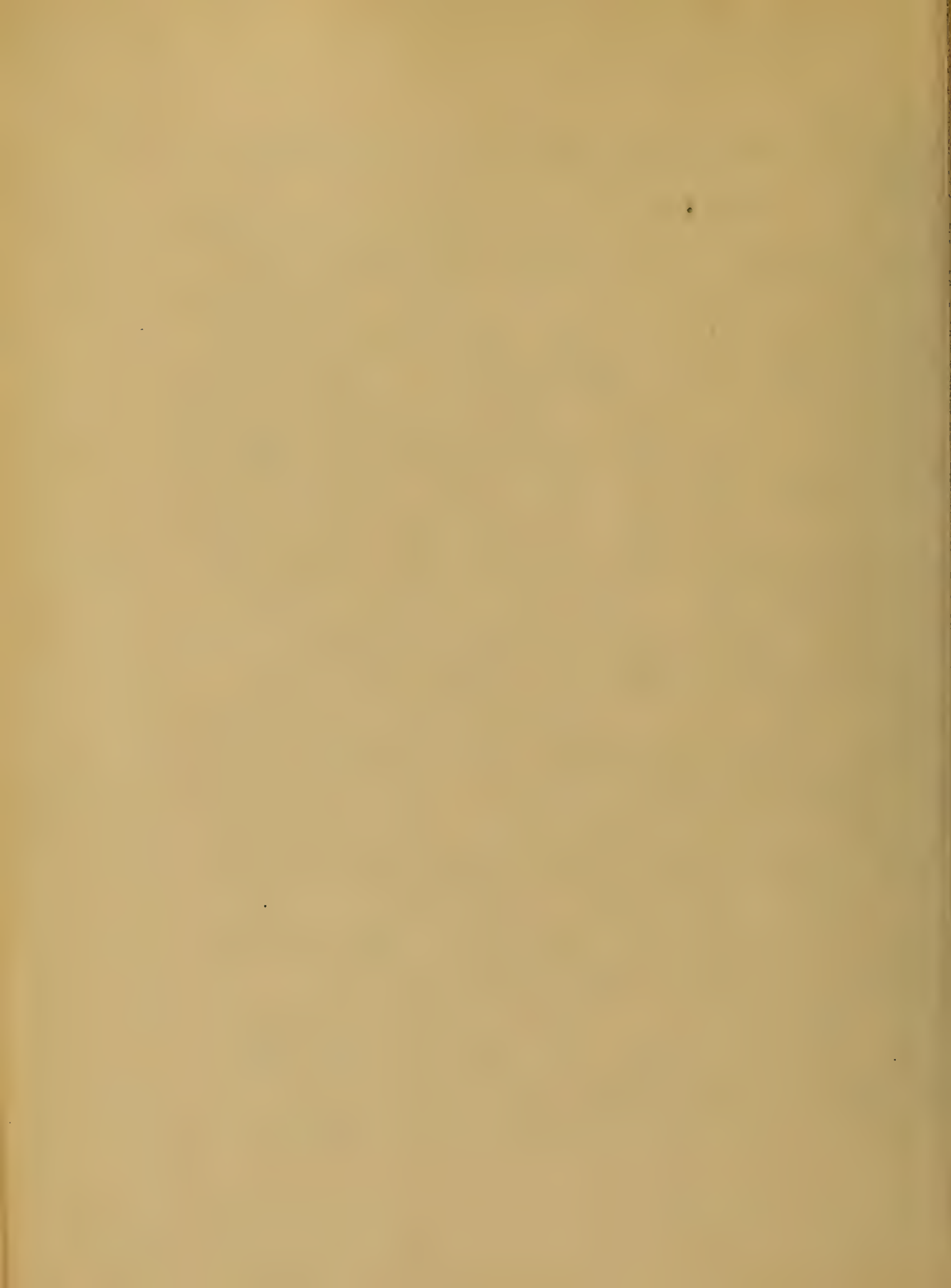
candle-light. Shaving the hair from over the seat of the hernia, he made an incision from the neck of the sac through the integument over its entire length. Each layer of tissue was then slit up over a director consecutively, down to the sac. No bleeding of any consequence occurred, each vessel being twisted when it was divided. The stricture was then cut several times about an eighth of an inch upwards, but the hernia remained irreducible. He then opened the sac upon the director, passed through an opening made by a scalpel. A



portion of the omentum was found
enclosed with the intestine. This
was ligated and removed, the
Professor saying he had never
seen a bad result by so doing
in this operation. (I saw him do
the same thing about a month
previous, the patient being a
man of fifty odd years without
any bad result.) The intestine
appeared congested, of a livid
color, but was not gangrenous or
perforated, so was returned into
the abdominal cavity. The wound
was closed except the lower
end, by pins, and a compress
previously immersed in cold water,



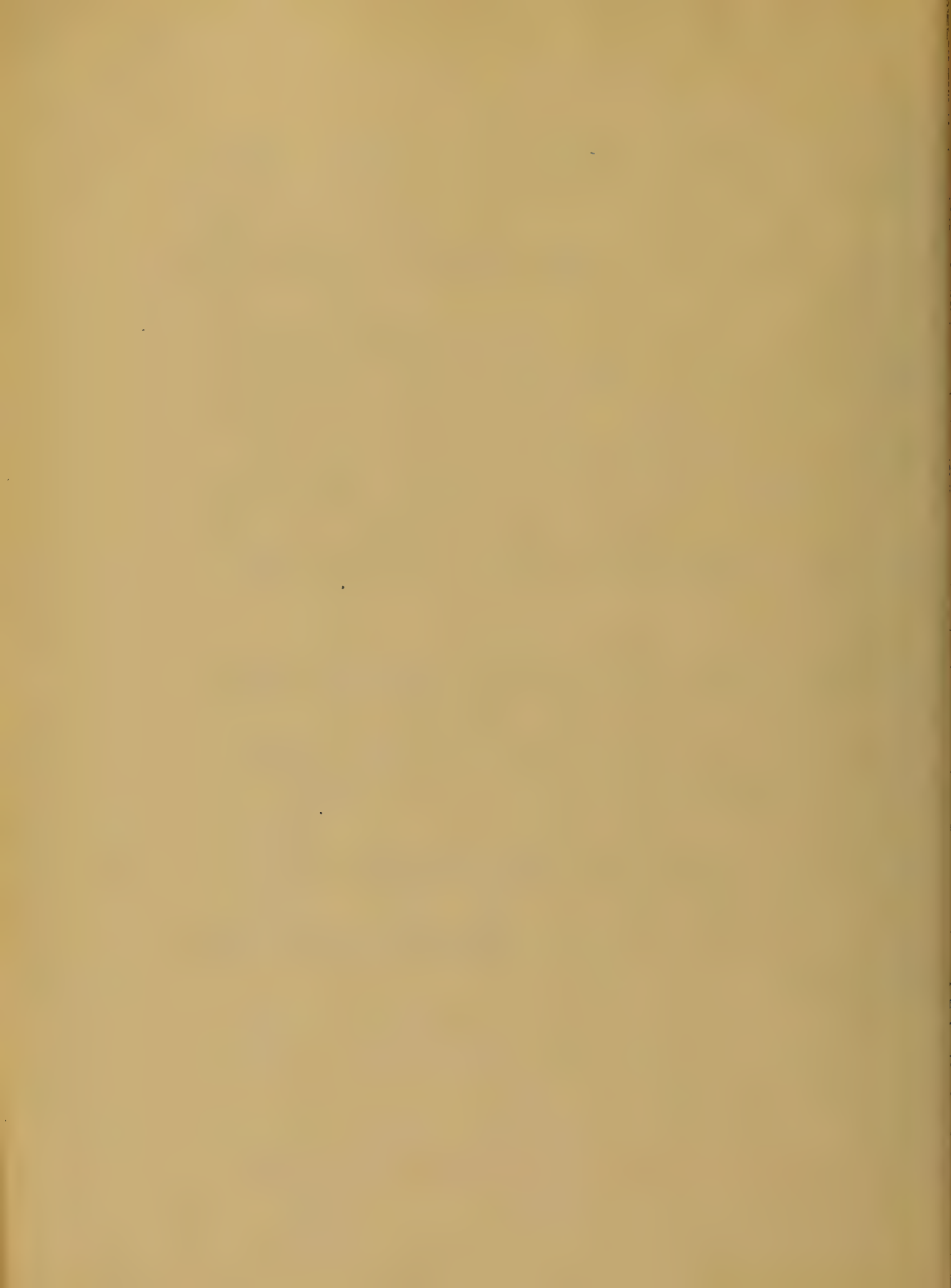
was placed over it, and secured
with a spica bandage. A grain
of a grain of morphia was given
her and she was left in the
charge of her physician, who was
advised by the professor to repeat
the anodyne if necessary, at proper
intervals, and to direct a small
quantity of whiskey. Upon
inquiry five days after, I ascer-
tained, by request of Prof. Smith,
the patient's condition. She stated
that she had not suffered much
since the operation, but was yet
taking small doses of opium.
There had been no action of the
bowels and she had been

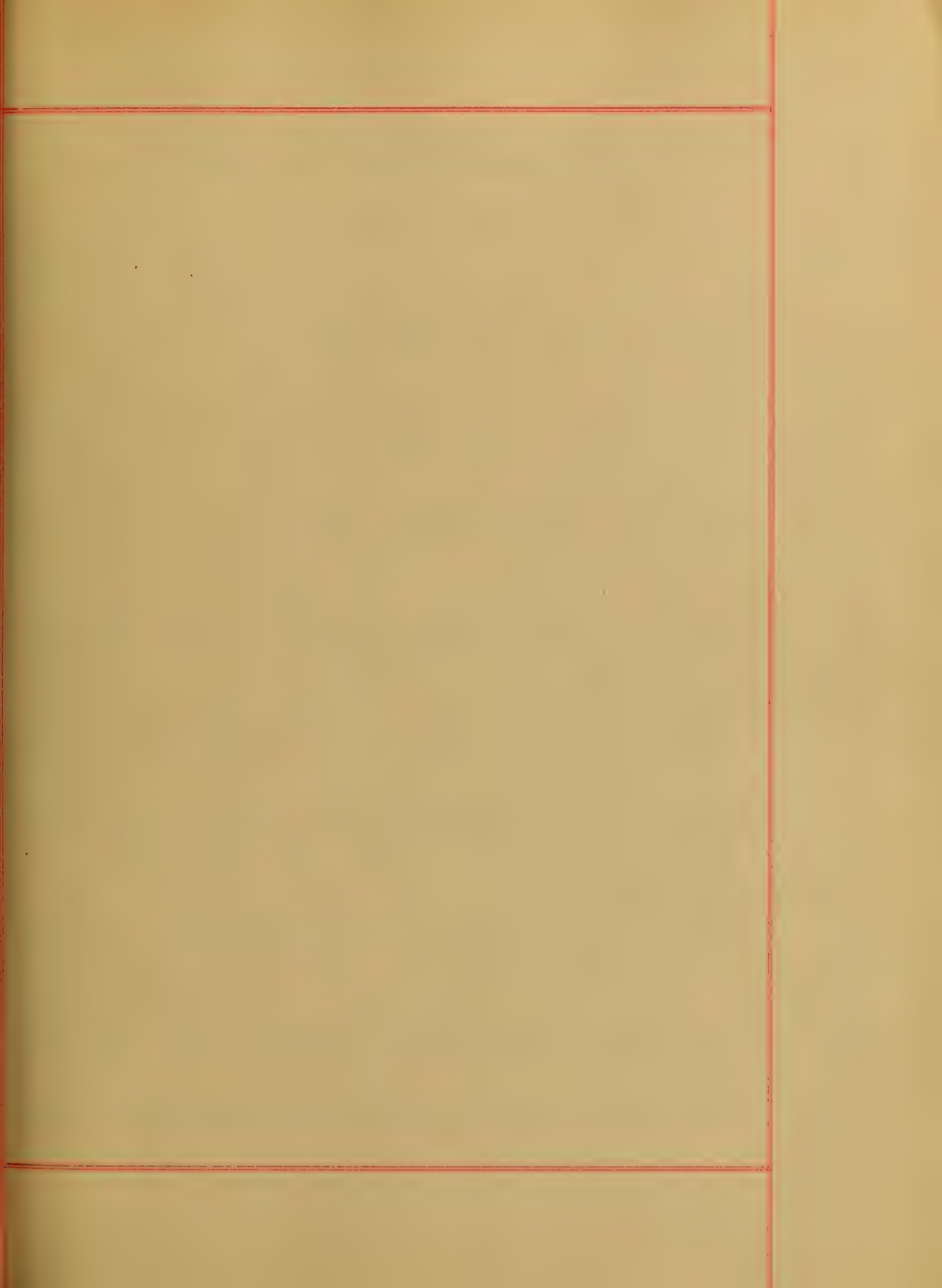


Kept on light diet. The pins were taken out by her physician four days after the reduction, and the wound was healing rapidly, water dressing being the only local treatment.

6 months subsequently Dr. Harington reported her entire recovery.

In this case and the one mentioned above no anæsthetic was used, although it is not customary and is advised by most authorities on very proper grounds.



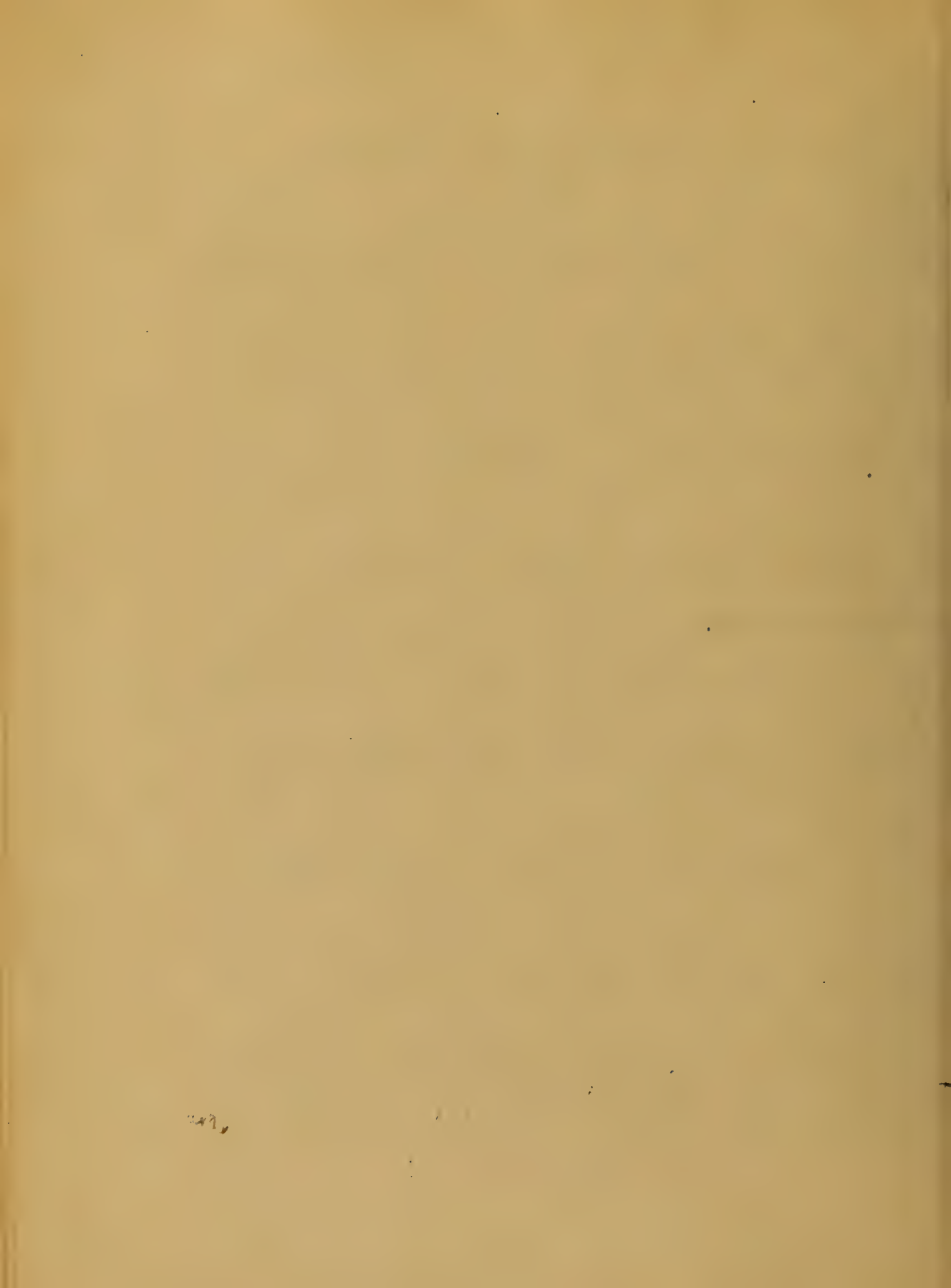


Ovariotomy, by Prof. Alan P. Smith.
Mrs. --- was admitted into St. Vincent's
Hospital, Baltimore, Md., in November 1874,
as a private patient. She had been suf-
fering from an enlargement within the
abdominal cavity for four years pre-
vious, when, just after the birth of
her last child, it was first dis-
covered. Prof. Smith, after an examina-
tion diagnosed it to be a multilocu-
lar ovarian tumor, and decided to
remove it by extirpation. The patient
was prepared for the operation, and
the day appointed being clear, it
was performed. Prof. Smith first in-
structed his assistants in their respective
duties, arranged his instruments re-

quired, having them placed in a solution of carbolic acid, and directed the patient to be unanesthetized. The carbolic spray was forced over the site of the operation and the professor's hands until the wound was dressed.

Proper degree of anesthesia being announced, the first incision was made about three inches long in the median line, commencing about six inch below the umbilicus. The integument, areolar tissue and different layers of fascia were successively cut through until the peritoneum was reached.

be then made a cross incision
through the peritoneum, large e-
nough to pass under a director,
over which he slit it up.
Slight hemorrhage was stopped
temporarily by forceps. The cyst
was brought into view by retract-
ing the lips of the wound, its
surface being slightly rough.
Then introducing his hand, the
professor carefully felt for ad-
hesions, but found none, except
a few 'streaks'. Each 'cyst com-
partment' was then punctured
with a large trocar, attached
to which was a rubber tubing
to carry the fluid contents to a

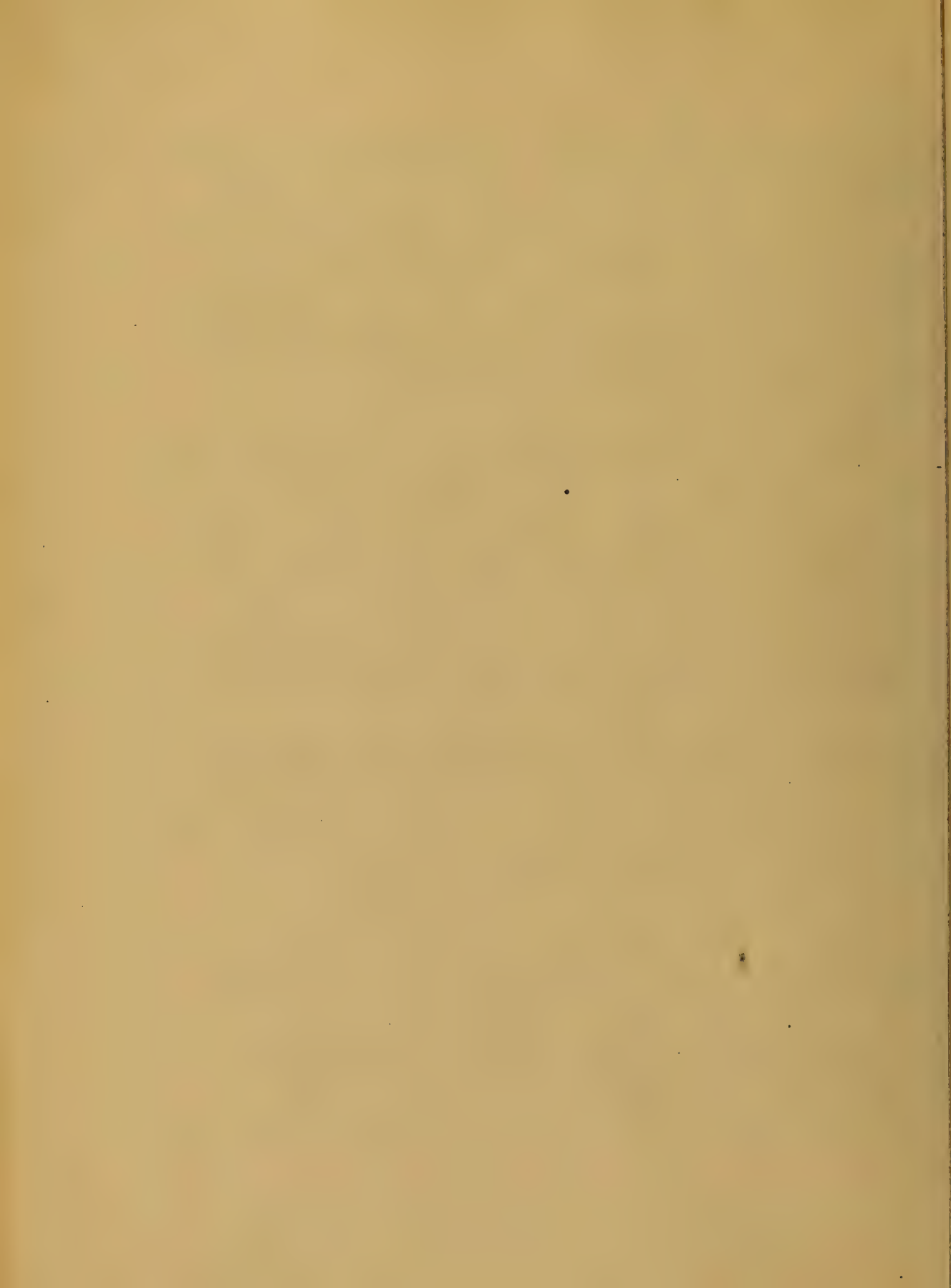


put at the side of the table up-
on the floor. While it was being
drained, it was secured by vul-
cellum forceps, and the abdominal
walls were supported. The wound
being slightly enlarged, the
sac was gently pulled through
the opening, and the pedicle
was seen to be long and narrow.
Prof. Smith therefore determined to
secure it upon the outside by a
clamp. He then most particu-
larly sponged all the fluid out
of the cavity which had un-
avoidably gotten into it, and
closed the wound. Just placing
the clamp, he severed with scissors -

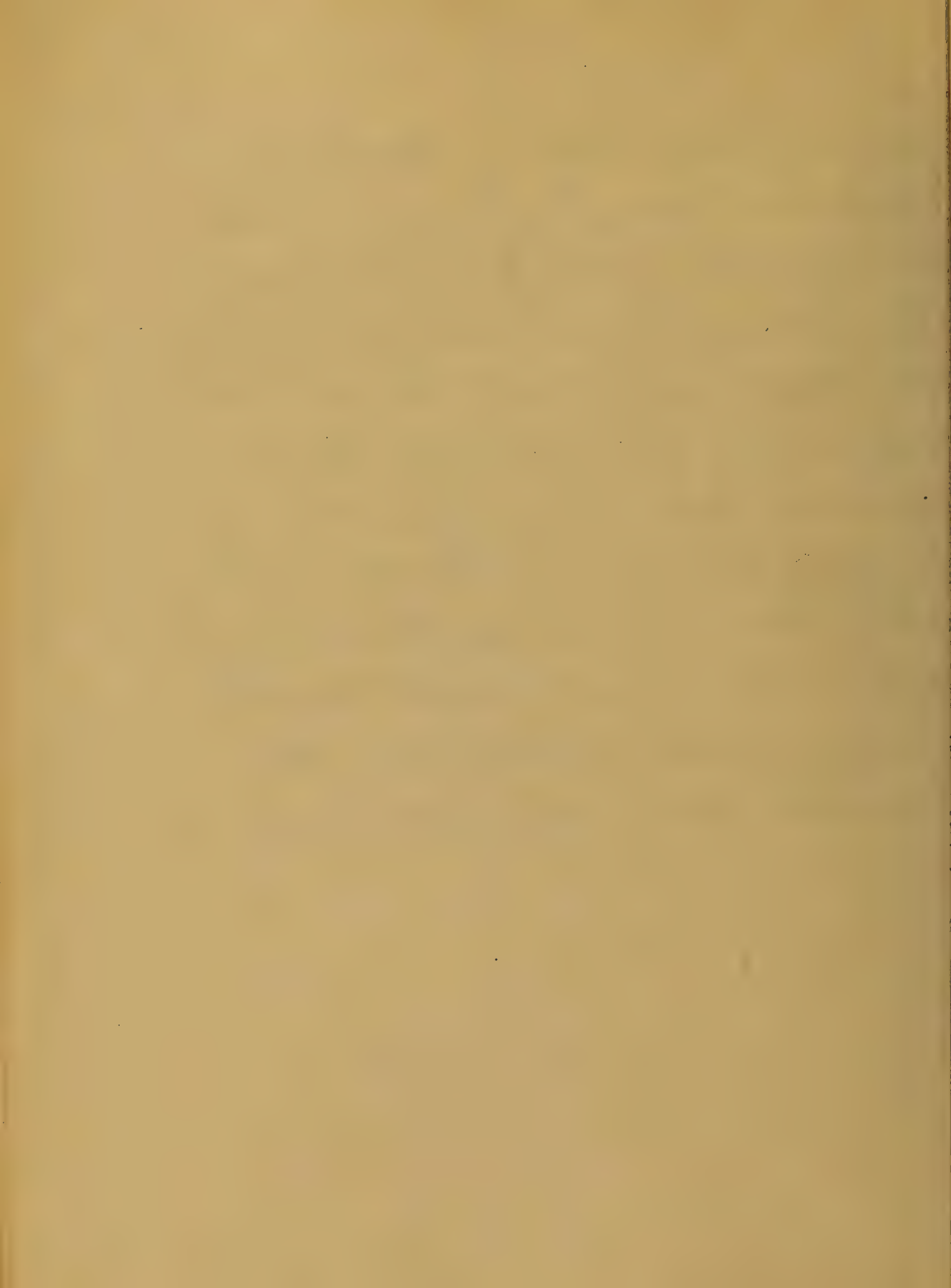
the tumor from its pedicle, and applied perchloride of iron to the stump; then with silver sutures brought the lips of the wound close round it.

At the lower end of the wound was inserted a bent-glass drainage-tube, which prevented the collection of purulent matter in the cavity. Antiseptic lint and cotton was placed over the incision and held in position by strapping.

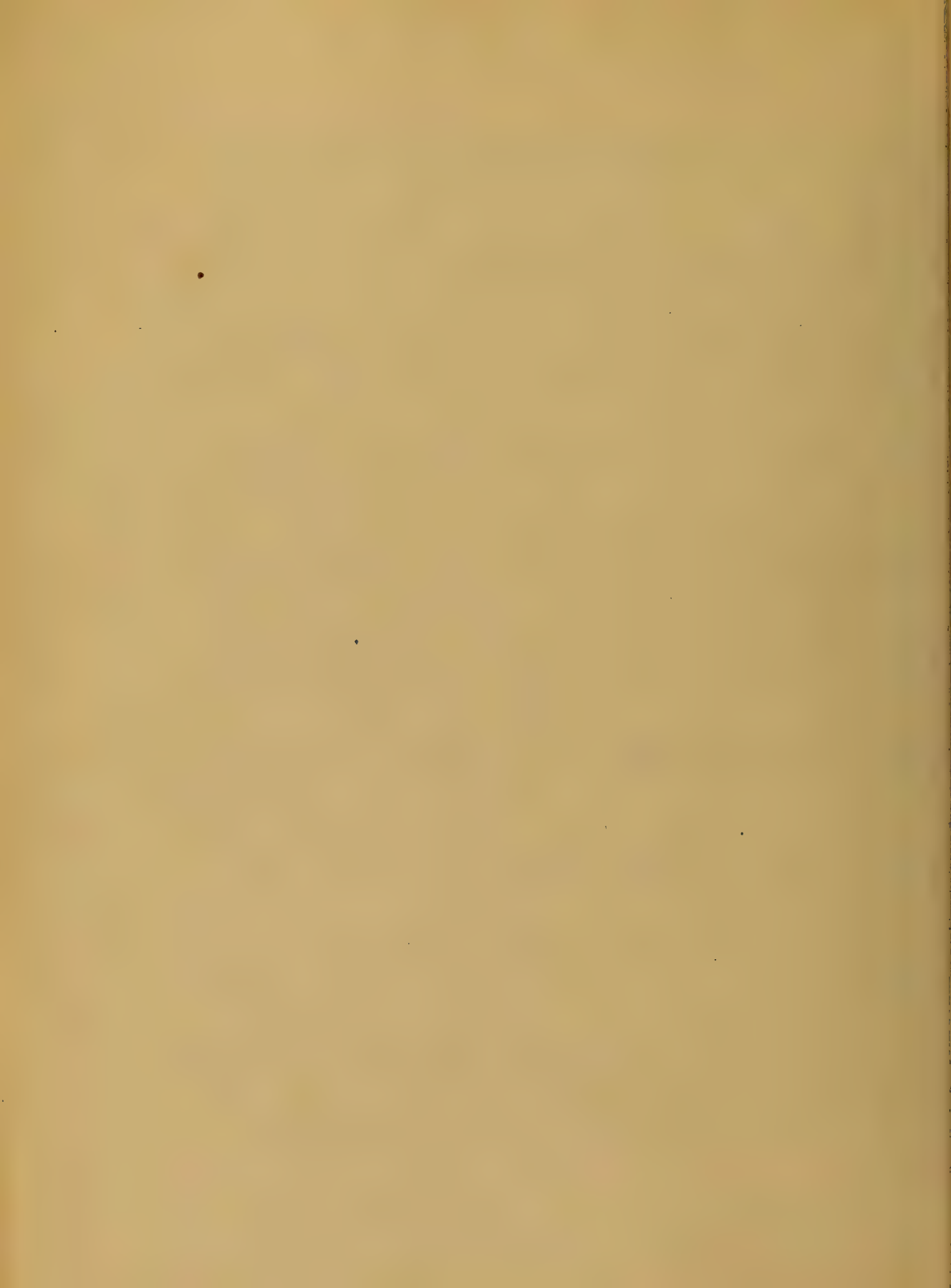
A 'belt' of wide bandage was passed round her waist to support the abdomen, and assist the intestines to



resume their natural position.
The patient was put in a bed
immediately, her temperature
then being less than $100^{\circ} F$, and
was never after more than that
degree. The patient left the
hospital for her home in
Virginia within three weeks
after the operation convales-
cent, and afterward reported
her complete restoration to
health and happiness.



Excision of a Fatty Tumor by J. W. Shepherd.
The patient, a man aged twenty-five
years, requested me to examine a 'new'
in his back in April 1879, stating
that it had been there more than two
years but had caused no pain or in-
convenience until about a month before
I first saw it, when it became painful
and caused sleeplessness. He seemed to
think it had changed its position,
moving downward. I diagnosed it
to be a lipoma, it being to the
touch, lobulated and firm. It was
ovoidal in shape externally, and
was as large as a teacup. It
was situated over the left ilium,
and by its position forced him to

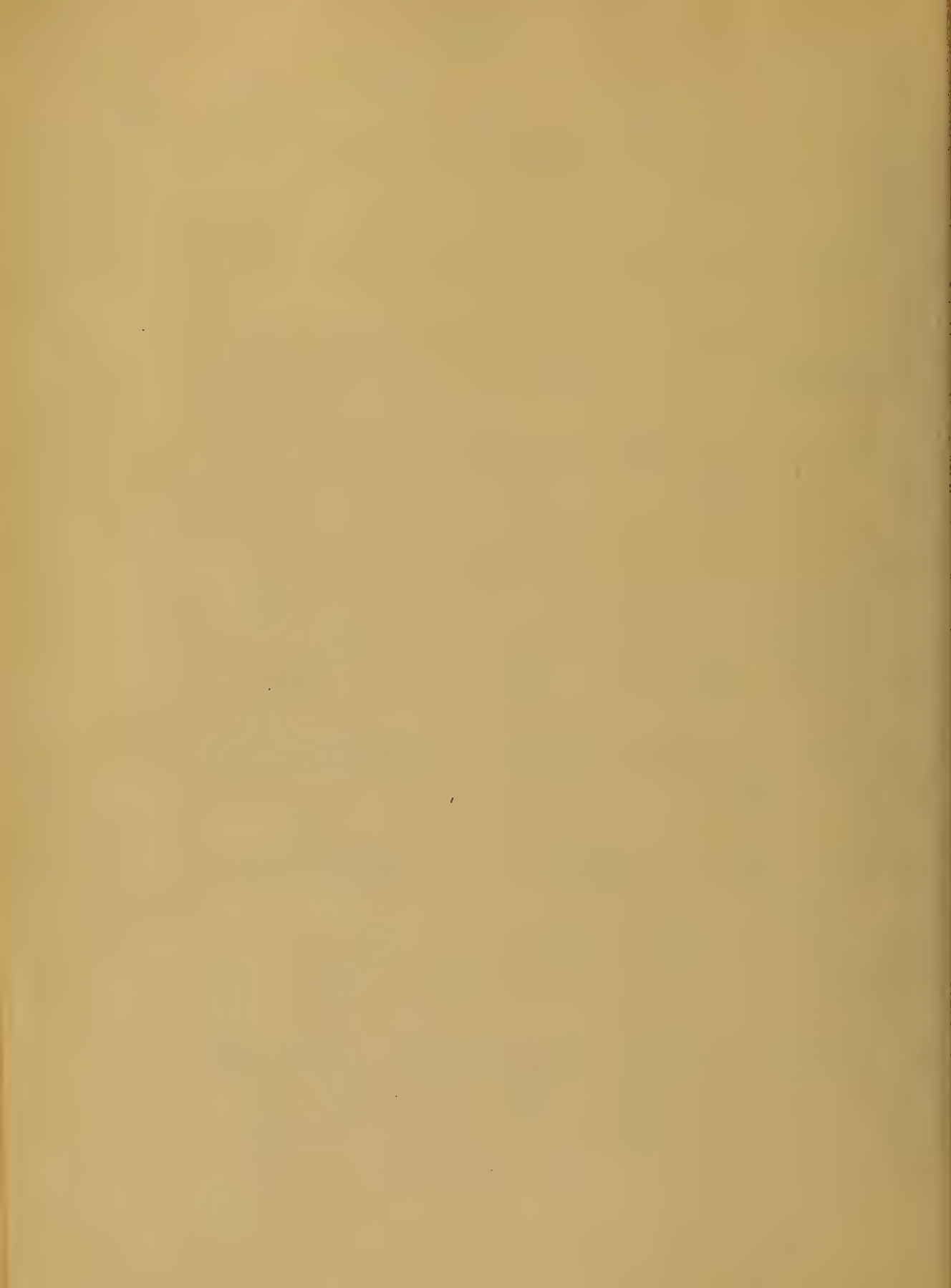


avoid lying on his back. I advised
operation to which he consented.
He wished to "cut his nose", and
said he would not require an
anesthetic. I placed him before
a window, leaning with his
hands resting upon the sill.
I cut through the integument
over the length of the operation
and tore it from its bed by
hooking my index finger under
it. The core required was an-
dustrious (to me).

The cavity left by its removal
was quite large, and when I
closed the lips temporarily, it
remained a cavity. It then "stuffed"



a dry rag of muslin into it
and left the wound open, directing
the patient to keep quiet. Three days
after operation put the rag, and
with it came out an ounce of pus.
The edges of the wound were
red and painful, and the man
said he had not packed wounds,
but examining the bottom of the
cavity, I found fine healthy
granulations. I then opened the
edges with forceps, applied a
wound dressing - used poultice
over the part keeping it in
position by a bandage round
his waist, and directed him to
take an opiate at night. In



The tenth day after the operation,
the wound had entirely closed
and only a slight redness
remained, and a few days
subsequently, that disappeared.
The wound was cleaned with
carbolic soap every day, and
a new poultice applied.

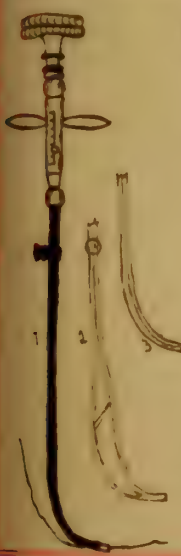


A Tight Organic Stricture of the Urethra -
Treatment by Divulsion by J. W. Shepherd.

Mr. B —, aged twenty three years, ap-
plied to me in December 1879. to be
treated for a chronic discharge from
the urethra. He had contracted gon-
orrhoea about ten months previous,
but said he had been cured, ex-
cept a few drops, which now and
then ooze from his meatus uri-
narius. His stream was small and
weak, and I at once suspected
a stricture. I oiled and warmed
a number fifteen American Sound,
and introduced it into his urethra.
As I had expected, I found a
stricture at the usual place - the



junction of the membranous and
 spongy portions. I then injected a
 small syringe full of warm oil
 into his urethra, and had another
 course and finally, only success-
 ed in passing through a ~~stricture~~
 whale-bone bougie. I diagnosed
 the stricture to be a tight organic
 stricture. The patient consenting, I de-
 termined to 'divide' or 'take up' the
 morbid tissue with Thomson's divider.



"This instrument, as represented by
 the figure, (1) can be screwed
 up to six twenty one, American
 scale." By turning the handle
 the blades may be separated
 (2), the amount of separation be-



ing required upon one index in the
handle." At the curve end is a short
tunnel is, which is to be thrust
over a whalebone bougie previously
passed through the stricture, to be dis-
cussed until it is guided through.
This is at times more difficult than
to pass the instrument alone, and,
acting the suggestion of Prof.

Christopher Columbus, I had a balloon
sack put on my shoulder, which
facilitates the passage, as well as
prevents laceration. A few days after
my first examination I performed
the operation. The patient being prop-
erly anesthetized by inhalation of
chloroform, I killed his urethra with



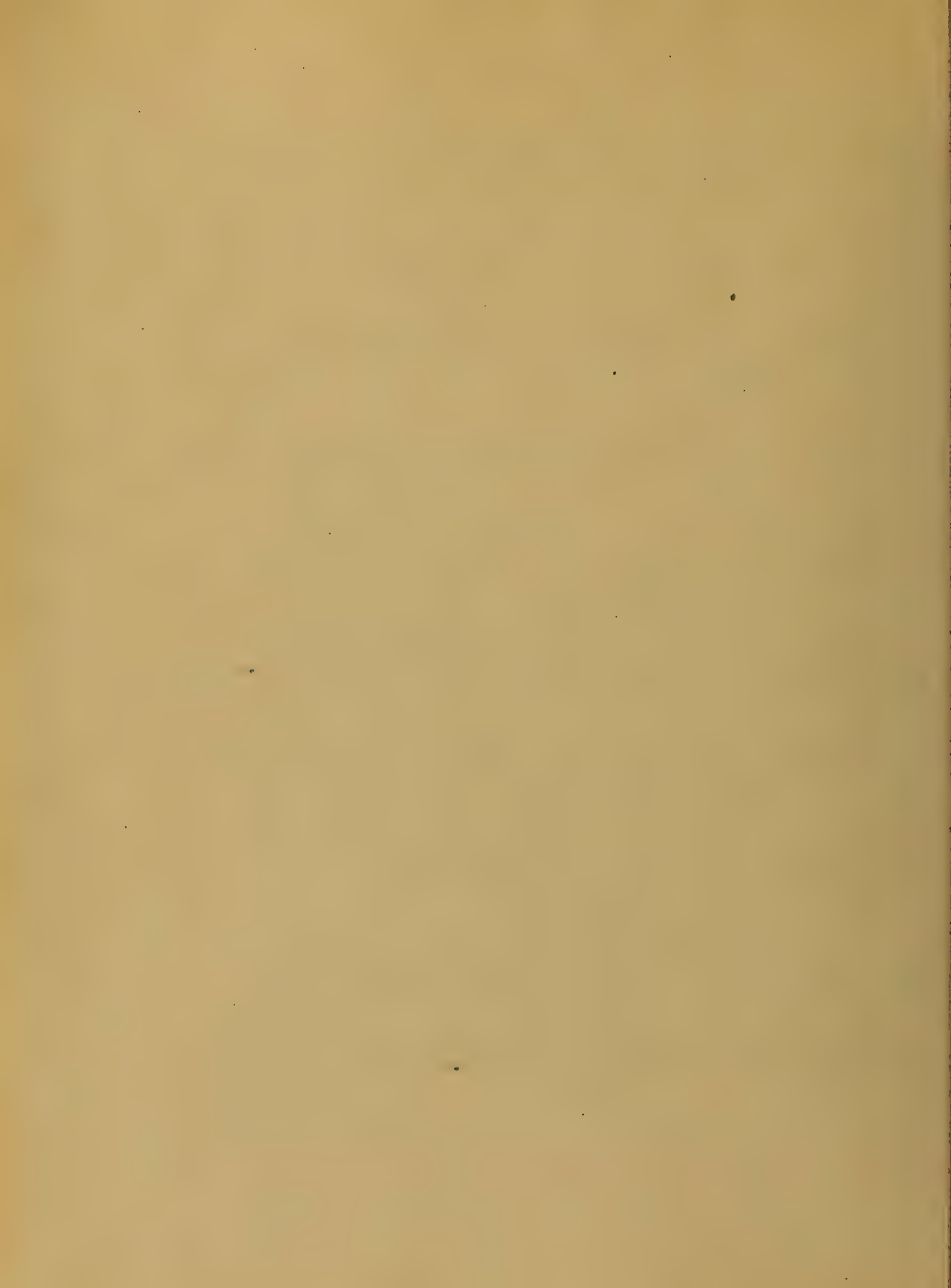
warm 'petrolina' oil, and quietly
allowed the instrument to pass to the
structure, through which by care-
ful manipulation and considerable
patience, I pushed the point. Then
rapidly turning the handle, the
"morbid tissue" was torn up.

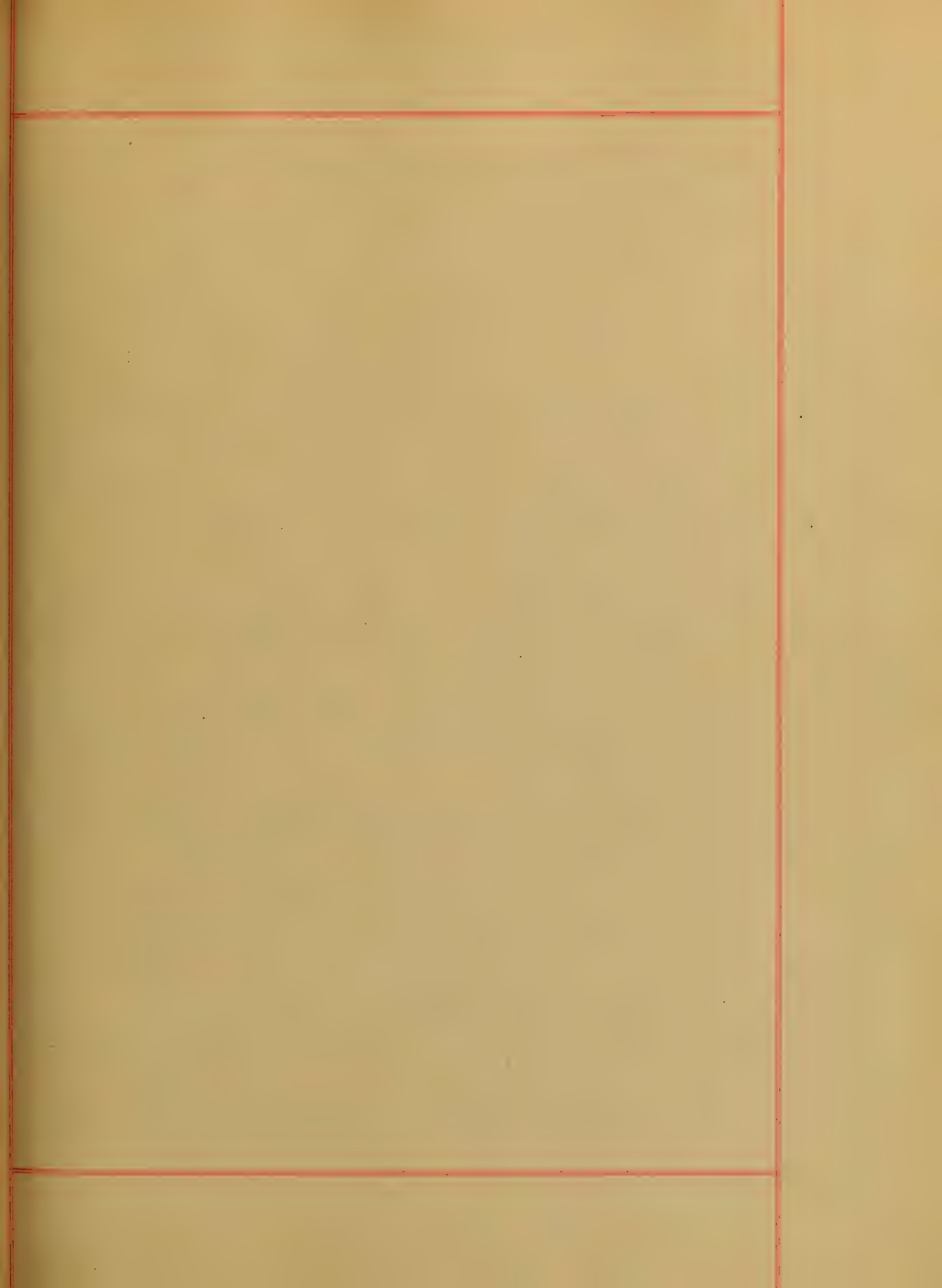
Closing the blades by turning
the handle the opposite way, after
pushing the point further in the
bladder to clear them of the
shreds of mucous, I withdrew
the instrument. The slight hemor-
rhage which followed soon
stopped without my aid.

I directed the patient to remain in
bed for one day only, and to take few



grains of opium to prevent a chill;
also some bicarbonate of potash to
soothe the irritation caused by the
laceration. Six days subsequently I
passed without difficulty a number
of stones, which was as large
as the natural calibre of his
urethra. I instructed him to use
a bougie of that size every other
day for some weeks, and mentioned
he passed it once a month, and
has not the slightest symptom of
any quite-unusual trouble.
He has recovered his former
good health and piece of mind,
which I hope may be permanent.





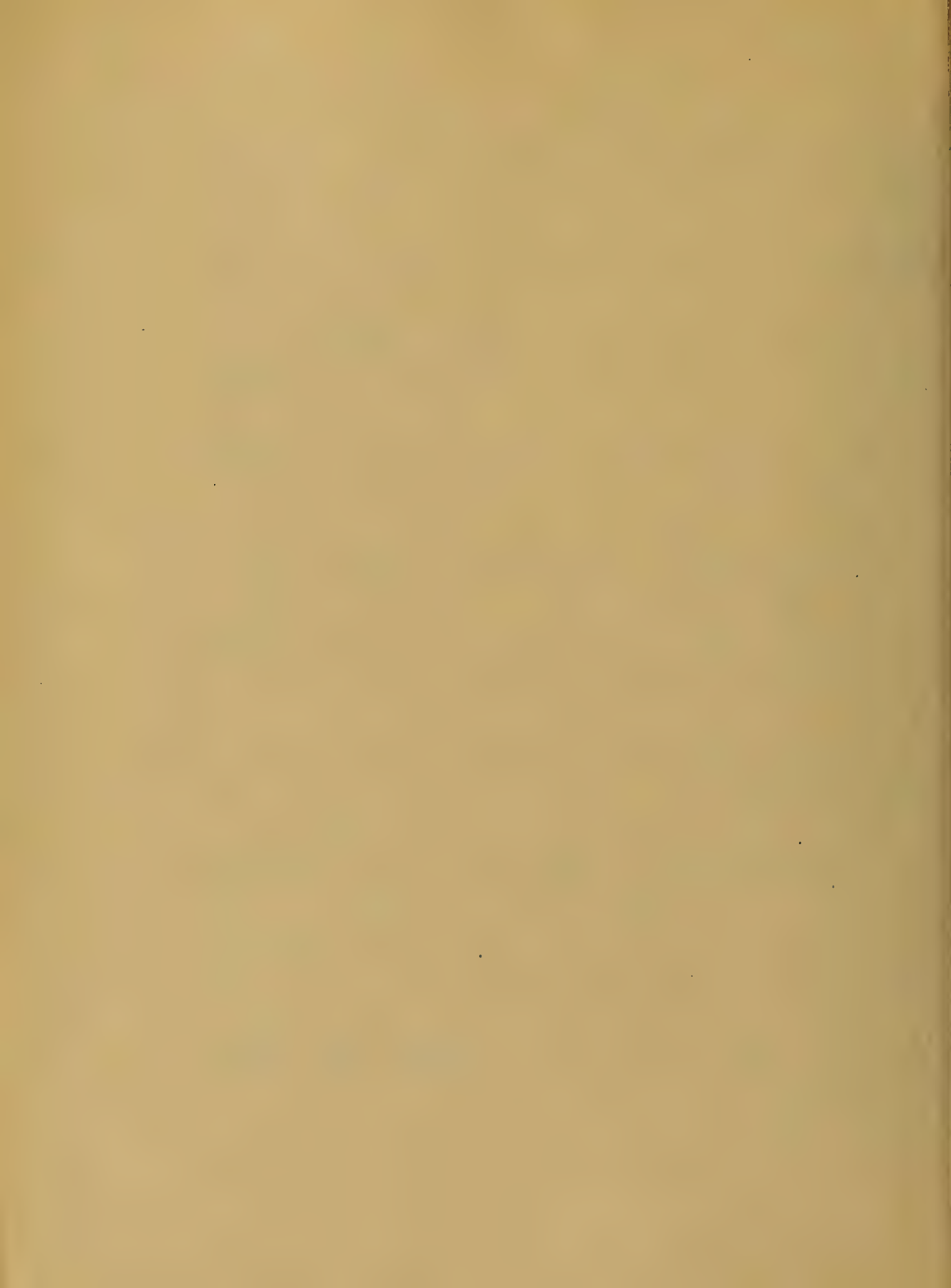
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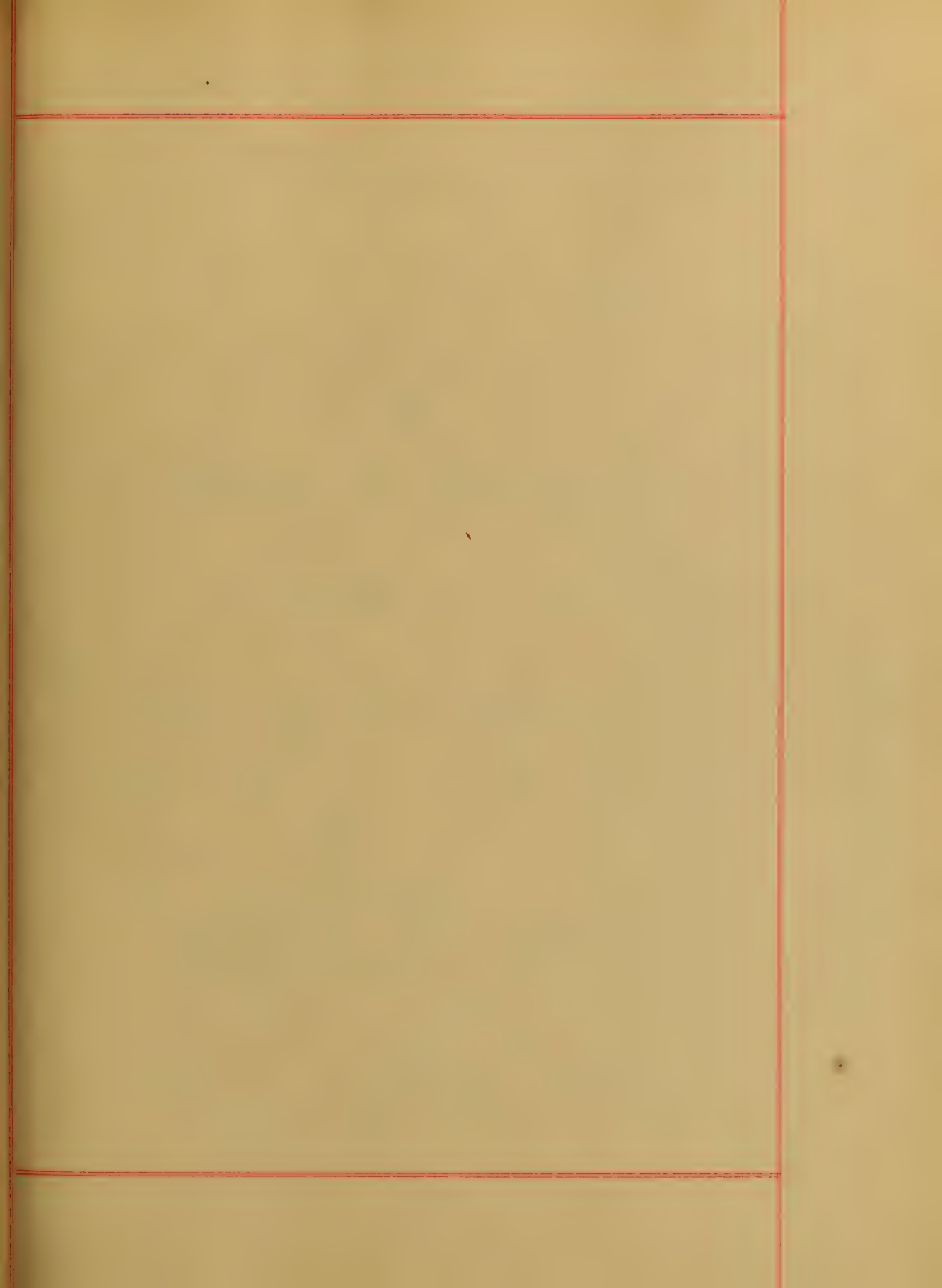
Operation for convergent Squint by J. H. Shepherd.

A boy aged nine years was brought to me on December 27th, 1879, with a considerable internal squint of the left eye. I proposed to his father to divide the tendon of the "crossed eye" to which he consented. The pupil of the left eye almost wholly disappeared from view when the boy looked to his right. Having him chloroformed by a physician, I commenced the operation, after placing a wire speculum between the lids. First pinning up a vertical fold of the conjunctiva near the inner canthus, I made a horizontal opening through it and the subconjunctival fascia

down the sclerotic, with the strabismus
scissors. Then introducing a
strabismus hook under the tendon
over the eyeball & drawing it to
the opening, (the patient of course
lying on the table) and divided
it with the scissors, along with
its sheath of fascia, cutting it
freely. More bleeding followed than
I had expected, but it soon stopped.
Stopping the anæsthetic and
cleaning the blood from the
wound & removed the speculum.
I was somewhat surprised at
the eye actually diverging,
a few moments later, but hav-
ing seen the same result in

Baltimore without bad effect, I was not alarmed, although the chloroformist hoped I would assume all responsibility and the father looked unbravely. I directed the father to keep the eye clean, and sent the boy home. Ten days subsequently I was again surprised to find upon examination the slight degree of squint-internal which remained. I ordered him proper glasses which I found to neutralize the hypermetropia and by which I hope his eye will be entirely cured - if not, by March 1880, I expect to operate again.







A Thesis
on the
Anatomy and Physiology
of the
Pneumogastric Nerve,

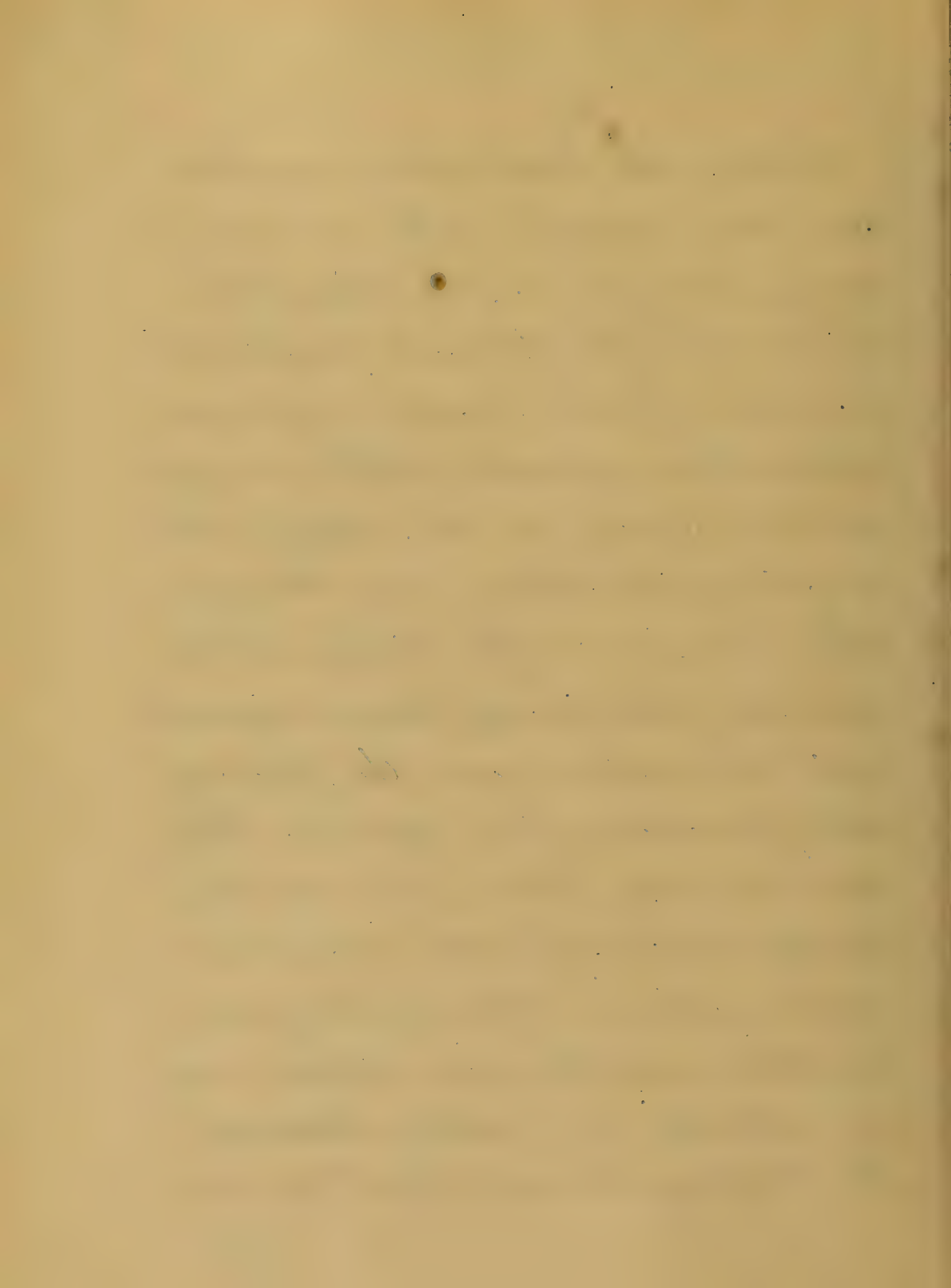
by

A. P. Froulis of N.C.

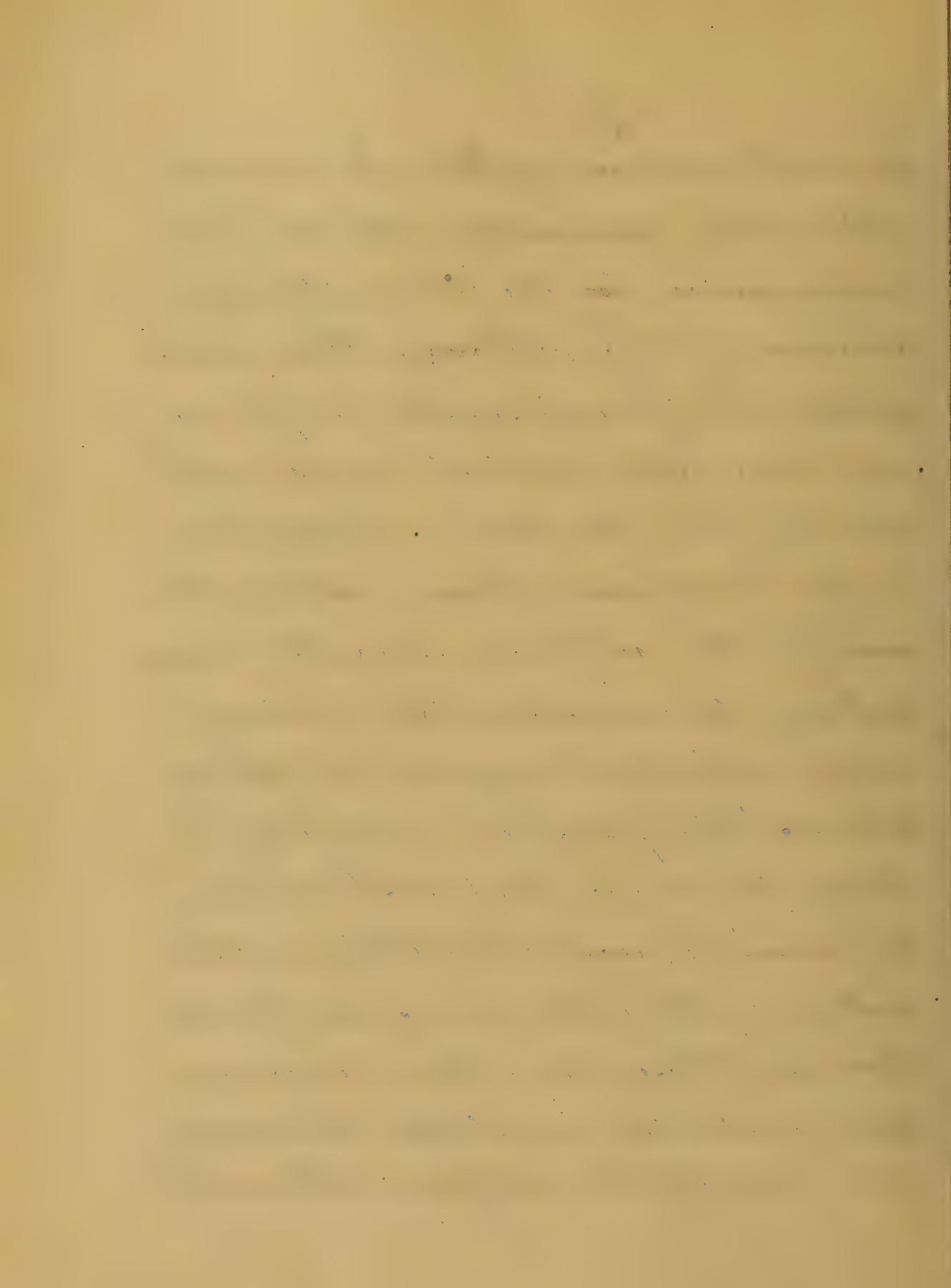
Session 1879-80

Within the last century, scientists have been engaged with increased energy and zeal, in the study of the anatomical formation and physiological functions of the human organism.

Some have engaged in this work from a desire to acquire knowledge, (and this is certainly laudable,) but others from what I consider a far higher motive, namely, that having become acquainted with the anatomy and the physiological phenomena of our organism, they could not only better point out how health could be promoted, but also be enabled, better to study pathological conditions and the most rational means of restoration to a healthy standard. In studying human physiology, we

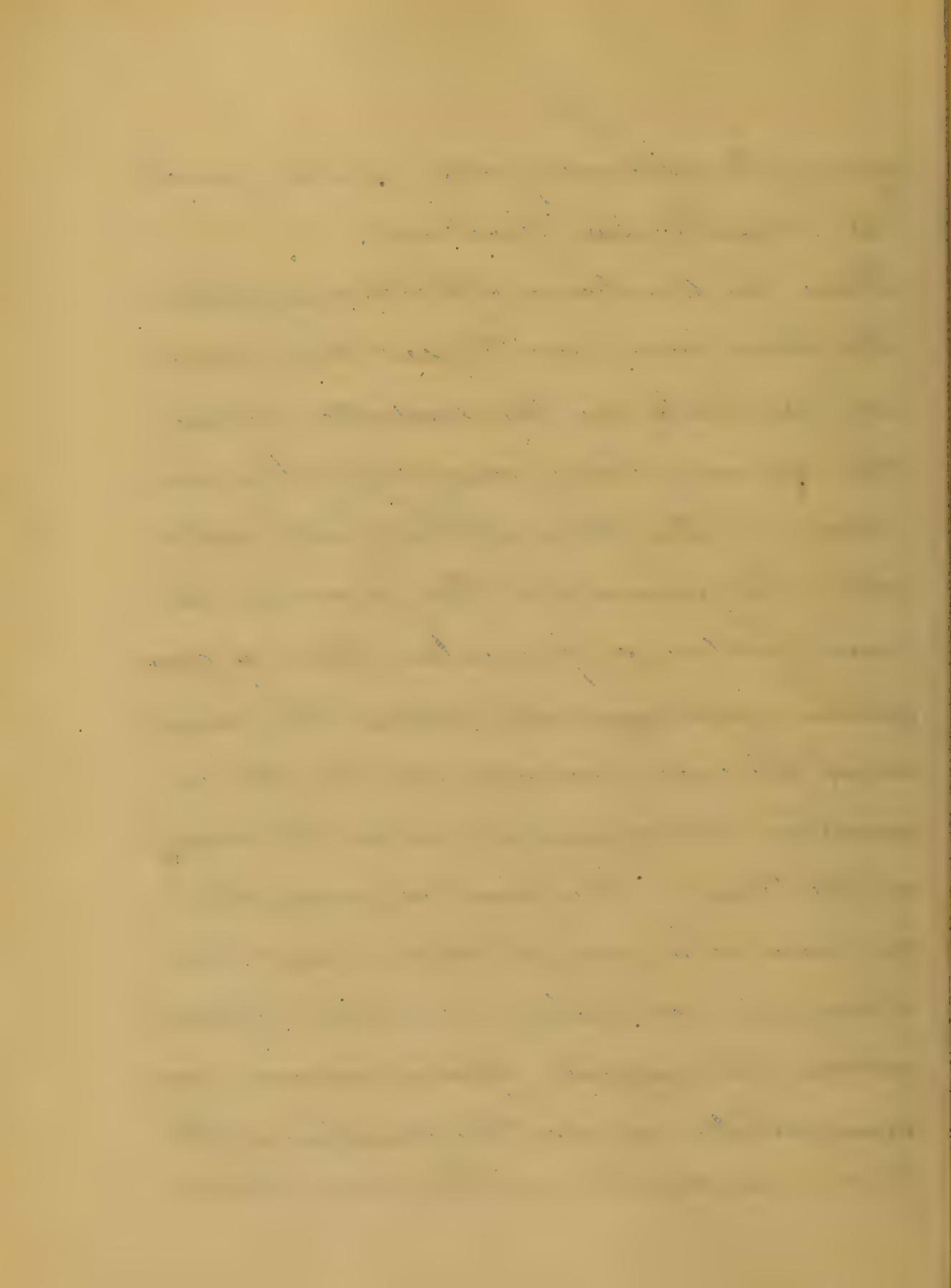


find the nervous system to be most intimately connected, with the proper performance of the most vital phenomena of life. Among this nervous system, the pneumogastric or par vagum - one of the cranial nerves - is the one, by far the most remarkable, for its varied and extensive distribution, and for the influence it exerts in regulating the normal action of some most important organs. It therefore behoves the physician carefully to study the origin and distribution of its filaments, and its relations and connections with other nerves in the body. Knowing these, it is then necessary that he should investigate the meaning and uses of these different filaments.

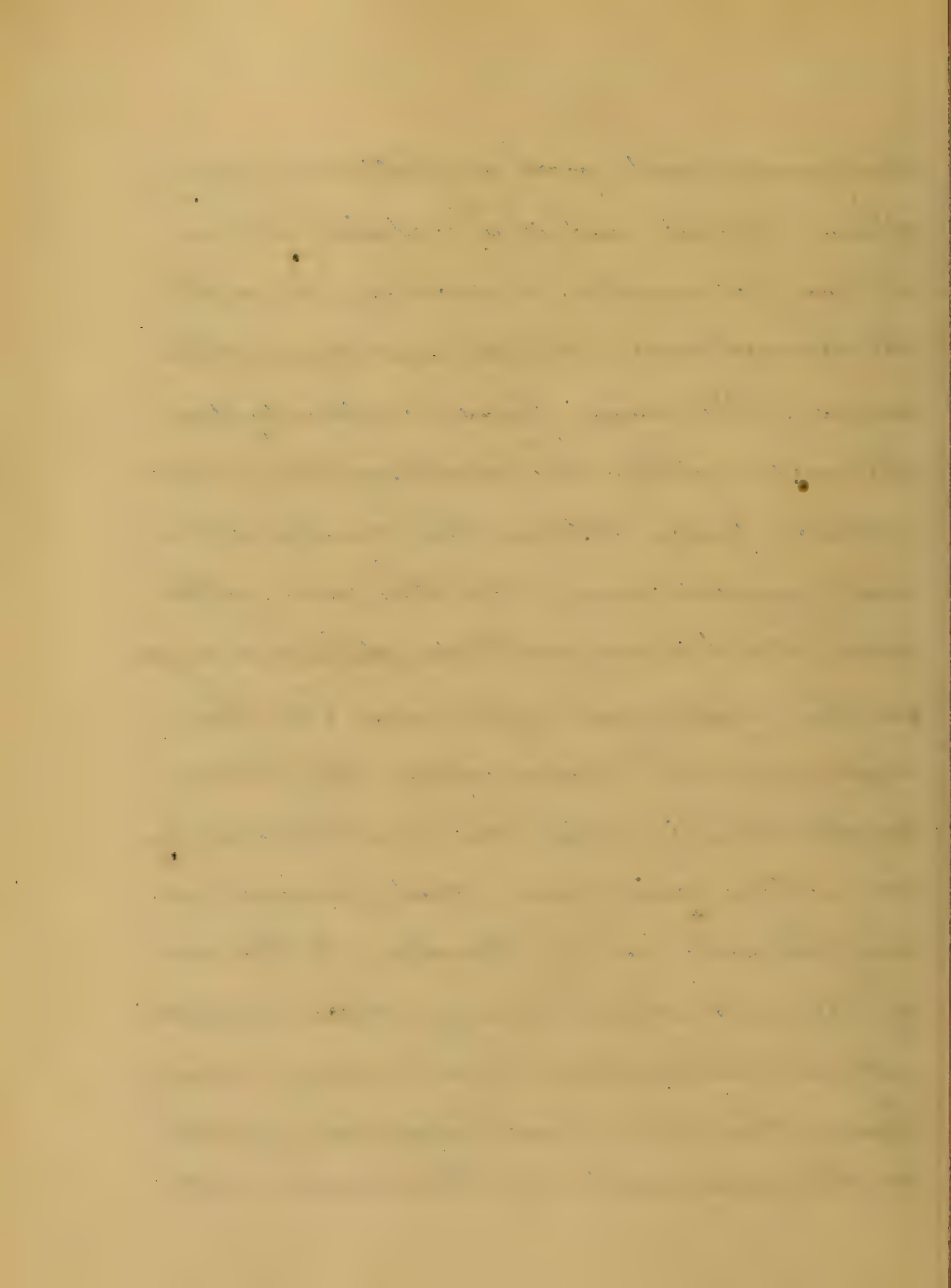


going to different parts; in other words its physiological functions.

First, the Anatomy of the Pneumogastric. Its fibers have been traced to a series of filaments in the medulla behind the olivary body, and defer to a nucleus in the floor of the fourth ventricle. It passes out the foramen lacernum posterius, presenting here a ganglionic enlargement, called the ganglion of the root. Just after its exit, there is another enlargement called the ganglion of the trunk. The first is nearly spherical and of a greyish colour, and has filaments connecting it with the facial, glosso-pharyngeal, spinal accessory, and sympathetic nerves. The ganglion of the trunk is about one half inch below

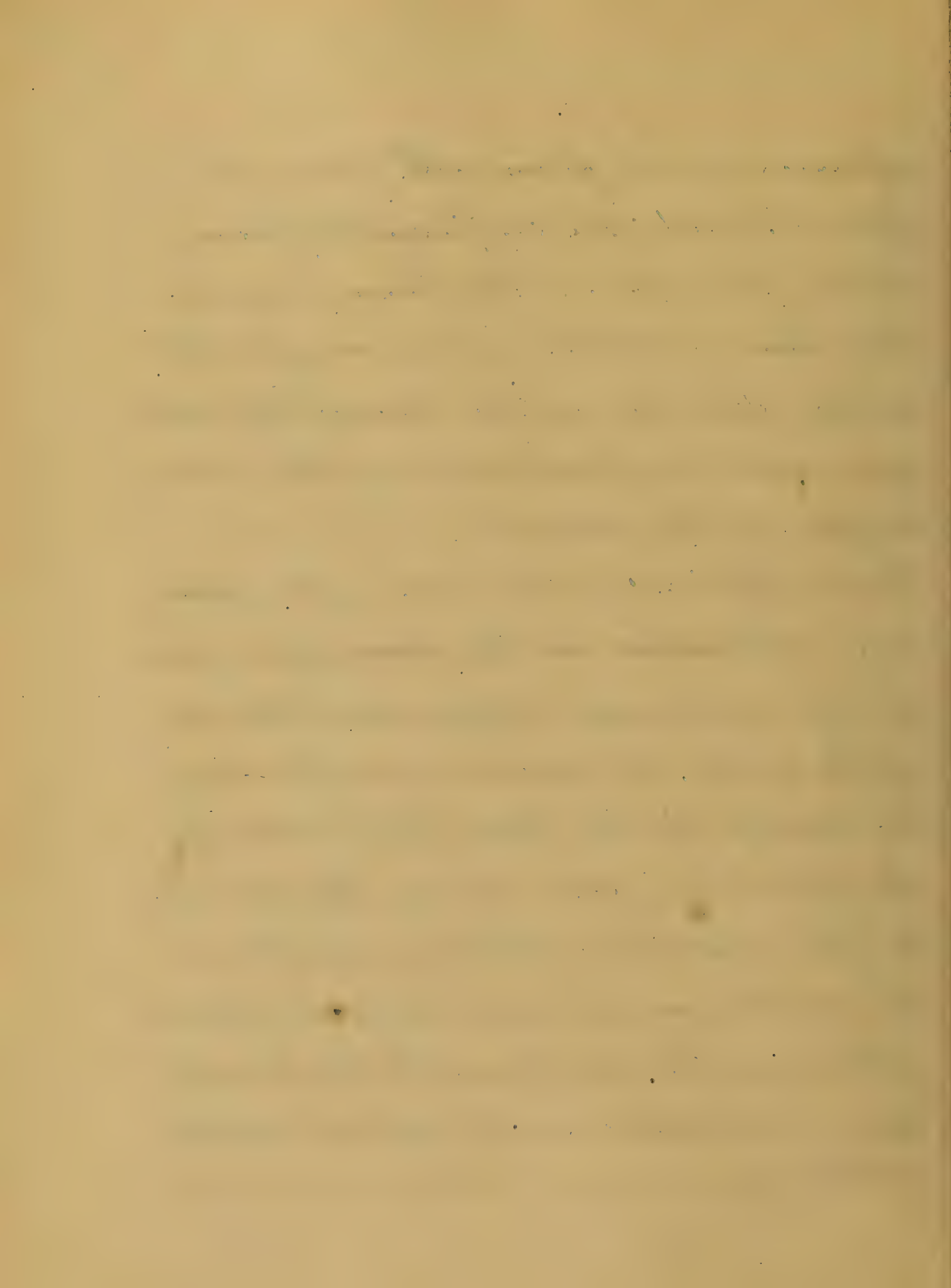


the former and is of a flattened cylindrical form and of a reddish colour. It has filaments connecting it with the hypo-glossal, spinal, and sympathetic nerves. The vagi pass vertically down the neck within the sheaths of the carotid vessels, lying between the carotid arteries and jugular veins. At the root of the neck, the two nerves take different courses on the right and left sides. On the right side the nerve enters the posterior mediastinal cavity between the subclavian artery and vein, and passes down on the side of the trachea to the base of the root of the lung, where it spreads out in the posterior pulmonary plexus. From this two chords descend upon the oesophagus, and by their union and



division on it, form with filaments from left side, the oesophageal plexus. In the lower part of the thorax, branches are again collected, into a single chord which descends on the back of the oesophagus and is spread out on the posterior surface of the stomach.

On the left side the nerve enters posterior mediastinal cavity, passing in front of left subclavian artery and the arch of the aorta, it descends on the side of the trachea to the back of the root of the left lung, and, having spread out to form posterior pulmonary plexus, is collected again and descends, like its fellow, on the oesophagus to the stomach, and is distributed on the anterior surface of this organ.

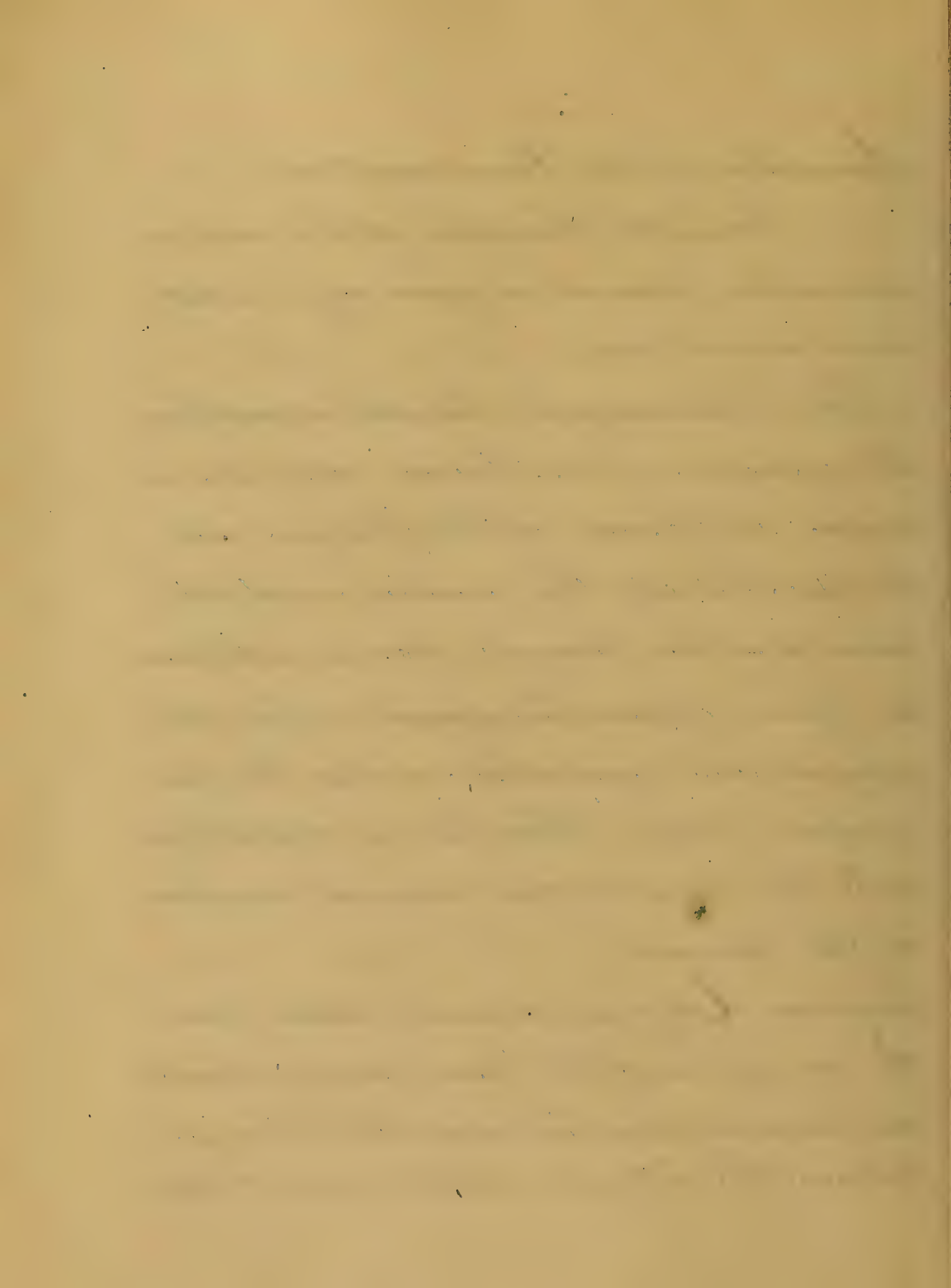


Branches of the Pneumogastric.

From the ganglion of the root an auricular branch is given off - not of great importance.

The pharyngeal branch arises from the ganglion of the trunk, descends inwards to the side of the pharynx, and divides behind the middle constrictor muscle of the pharynx, & forms with branches from glosso-pharyngeal, superior laryngeal, and sympathetic nerves, the pharyngeal plexus. This plexus sends branches to the muscles and mucous membrane of the pharynx.

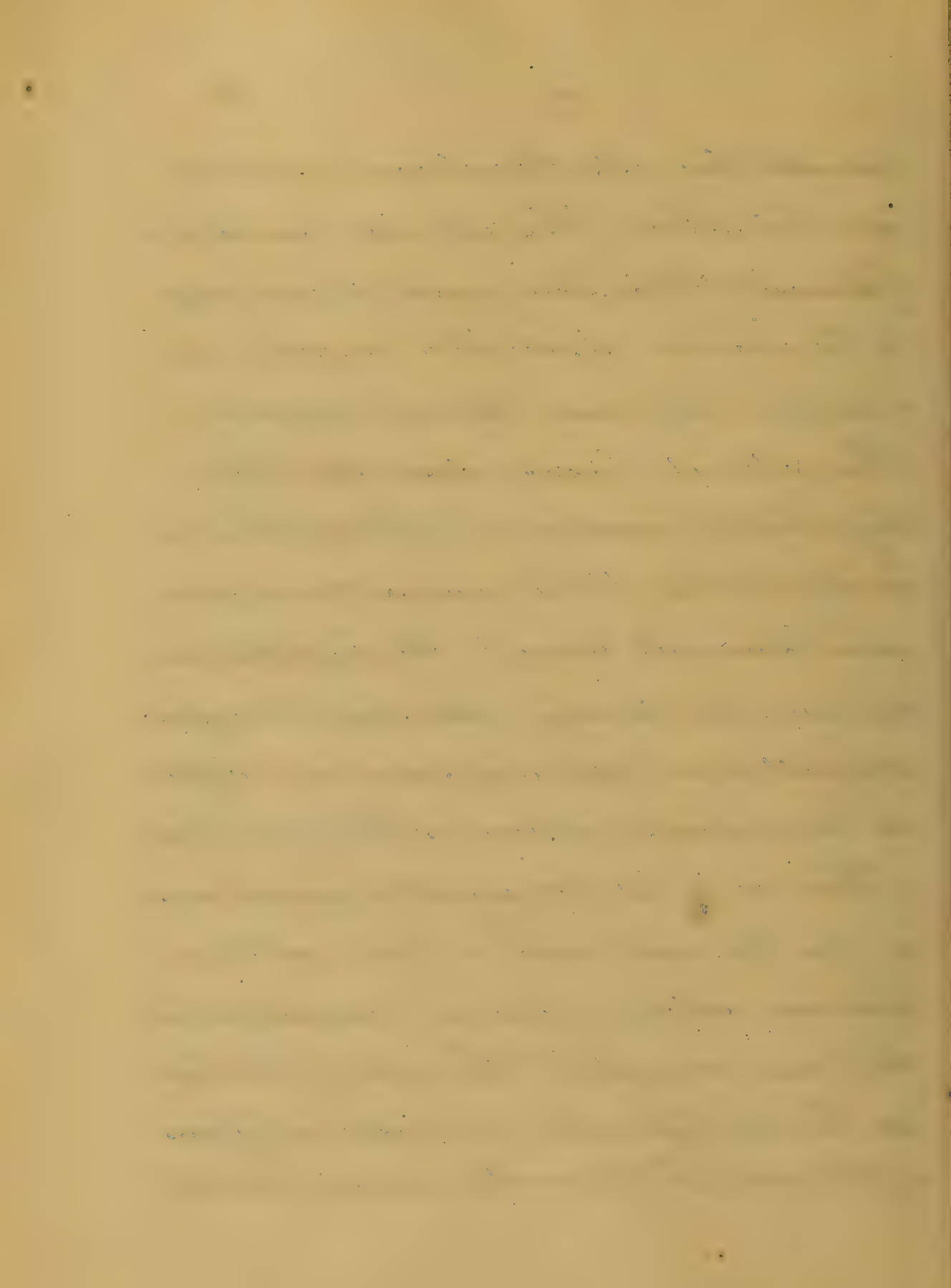
Superior laryngeal branch arises from the ganglion of the trunk, and is directed downwards and inwards to the larynx behind the internal carotid, and dividing



beneath this into the internal and external branches. The external branch gives filaments to the pharyngeal plexus and to the inferior constrictor muscle, and finally, to the crico-thyroid muscle.

The internal branch descends to the thyro-hyoid membrane, perforates this and is distributed to the mucous membrane, some filaments going to the epiglottis and the base of the tongue, also some to aryteno-epiglottidean fold, and some are reflected downwards as low as the vocal chords.

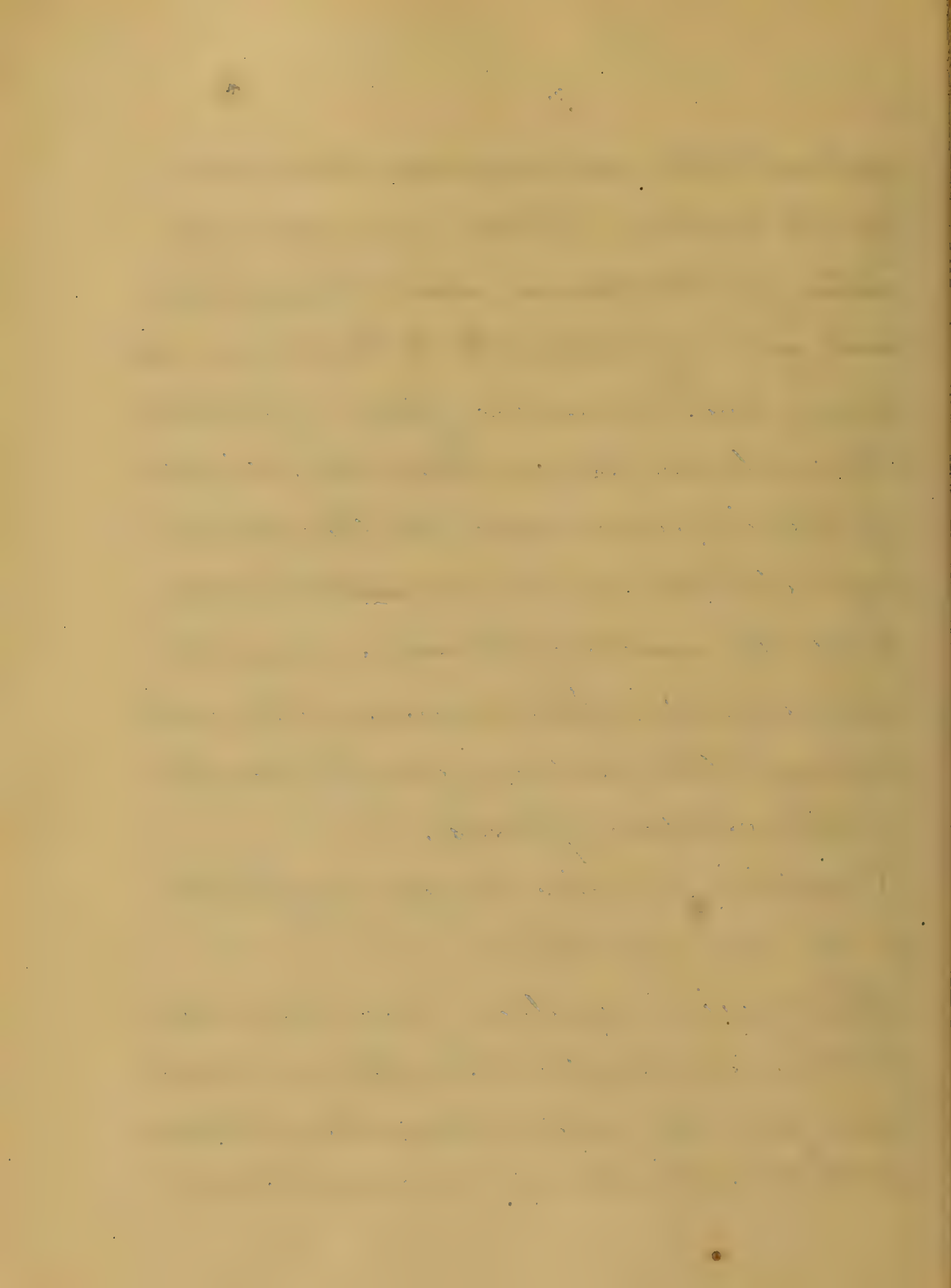
The recurrent, laryngeal branch arises on the right side in front of the subclavian artery, passes around behind this and ascends to the side of the trachea. On the left side, it arises in front of the arch of the aorta, winds around



behind this and ascends to the side of the trachea. Both nerves ascend between the trachea and the oesophagus, and give off filaments to the mucous membrane and muscular fibres of both tubes. They enter the larynx behind the articulation of the inferior cornu of the thyroid cartilage with the cricoid, and are distributed to all the muscles of the larynx except the crico-thyroid. Both nerves as they wind around their arteries, give off branches to the cardiac plexus.

Cardiac branches are given off both in the neck and thorax.

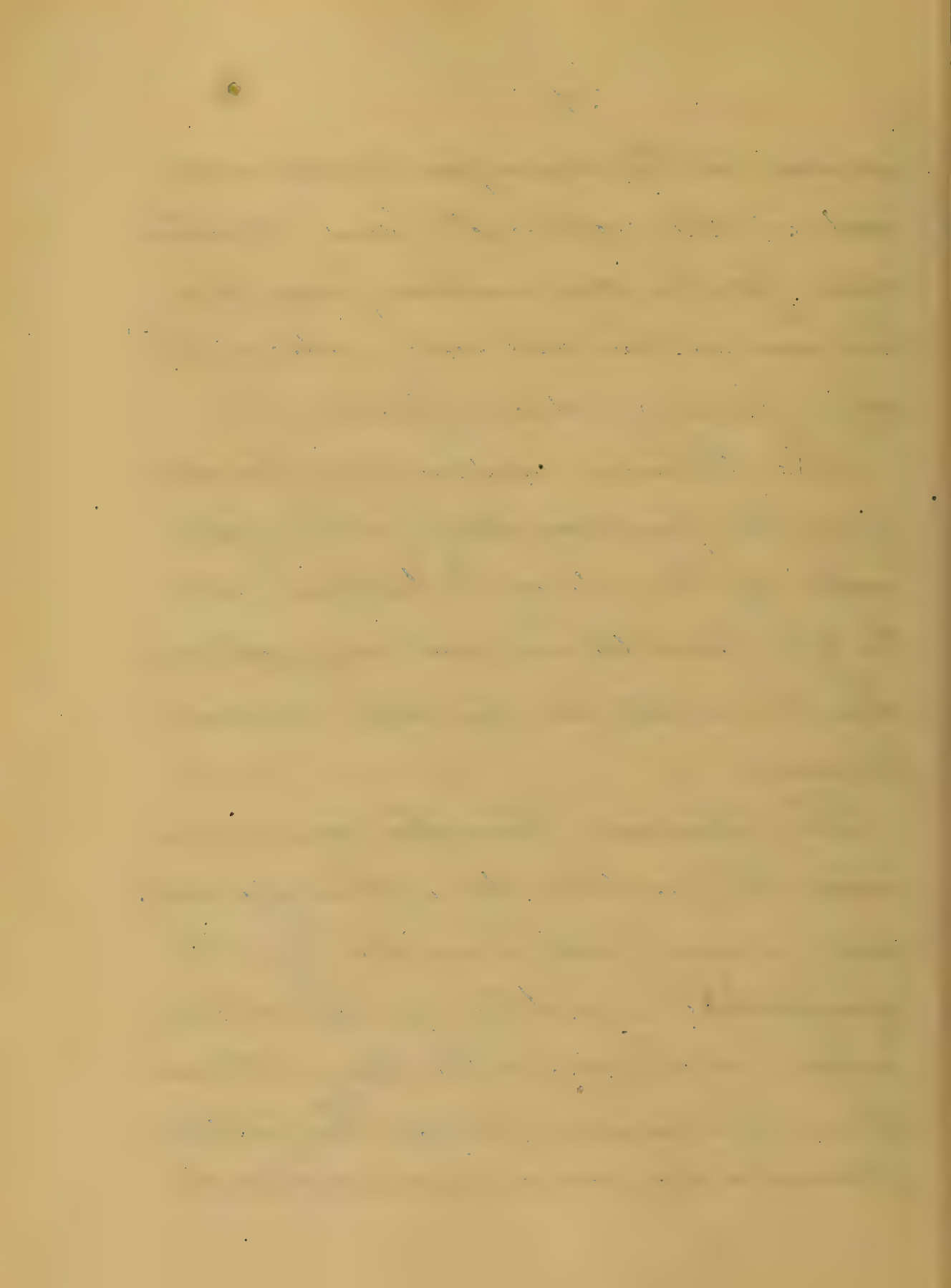
The cervical cardiac branches are two or three in number. The upper are small and join the cardiac branches of the sympathetic. The lower - a single branch-



arises in the lower part of the neck, and on the right side joins a cardiac nerve for the deep cardiac plexus; but the nerve on the left side ends in the superficial cardiac plexus.

The thoracic cardiac branches arise from the pneumogastric, on the right side by the side of the trachea, and on the left from the recurrent laryngeal nerve. They terminate in the deep cardiac plexus.

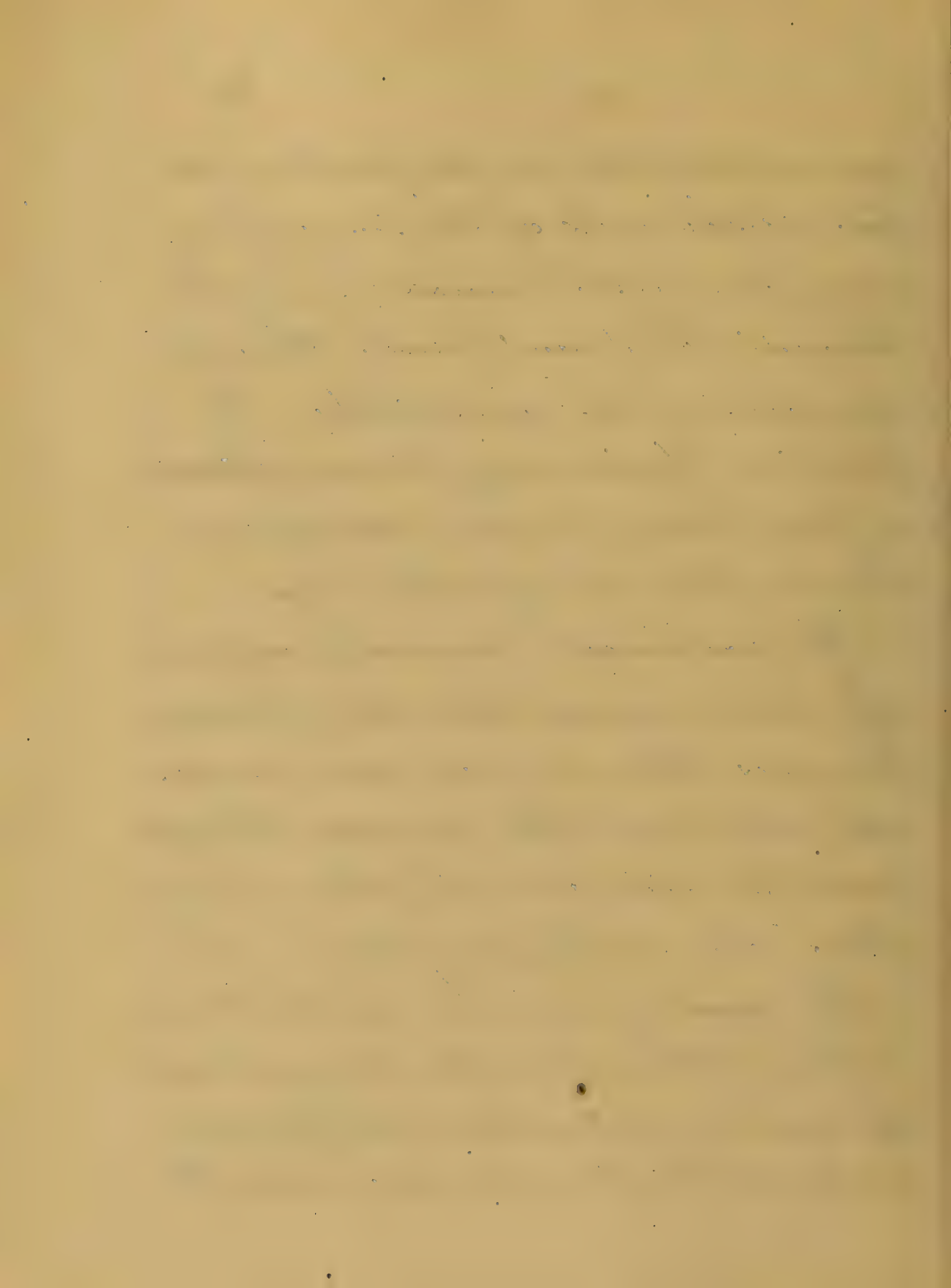
The pulmonary branches are numerous. The anterior two or three are small, and joining with branches from the sympathetic, constitute on the anterior surface of the roots of the lungs the anterior pulmonary plexus. The posterior branches are more numerous and,



are distributed on the posterior aspect of the roots of the lungs; forming there with branches from the second, third, and fourth thoracic ganglia of the sympathetic, the posterior pulmonary plexus. Branches from these plexuses accompany the air tubes through the lungs.

The oesophageal branches are given off both above and below the pulmonary branches. The lower are more numerous and larger. The nerves on the right and left side form by their connections the oesophageal plexus.

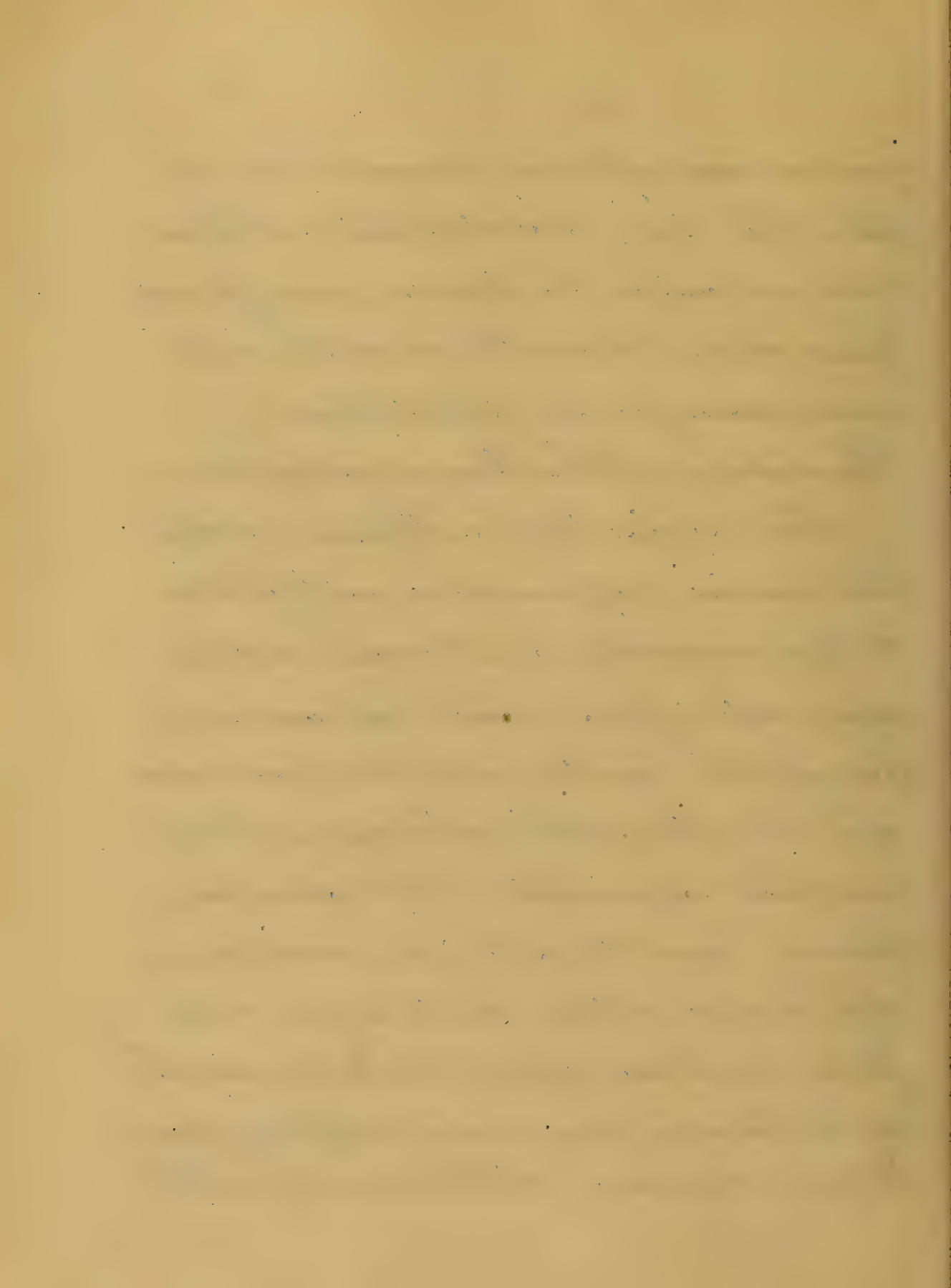
The gastric branches are the termination of this nerve. On the right side the nerve is distributed to the posterior surface of the stomach, and joins the



coeliac and splenic plexuses. On the left side, the nerve is distributed on the anterior surface of the stomach, some filaments lying along the smaller curvature and some passing on to hepatic plexus,

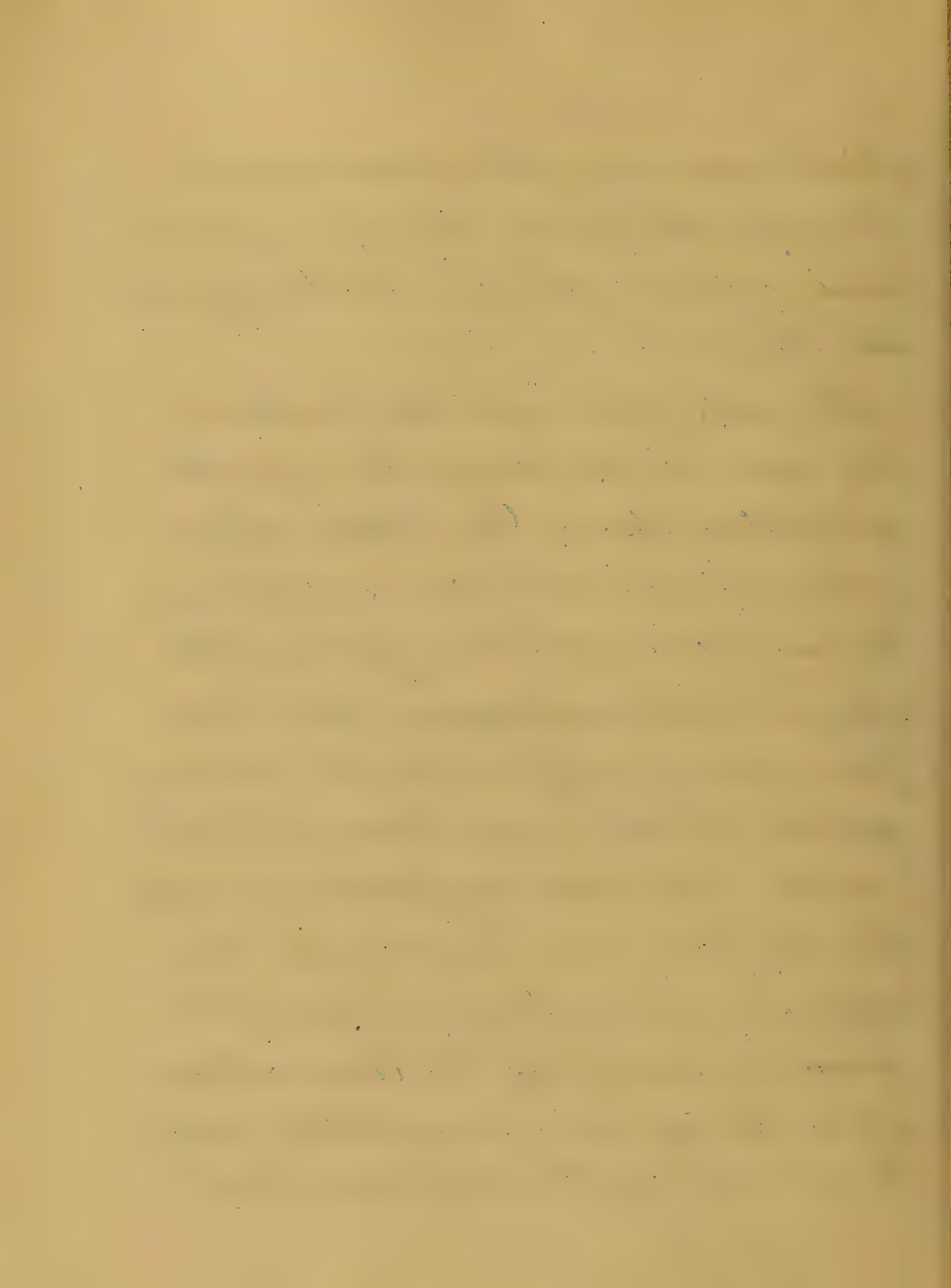
Physiology of the Pneumogastric Nerve.

There seems to be a difference of opinion among experimenters, as to whether the pneumogastric at its origin contains any motor fibres or not; all agreeing that after its junction with the spinal accessory, it contains both motor and sensitive ones. The experiments of M. v. Kempfen, however, seem to us to prove conclusively that it does contain, at its origin, motor fibres which are distributed to the muscles of the pharynx, larynx, and oesophagus; although receiving additional ones from the



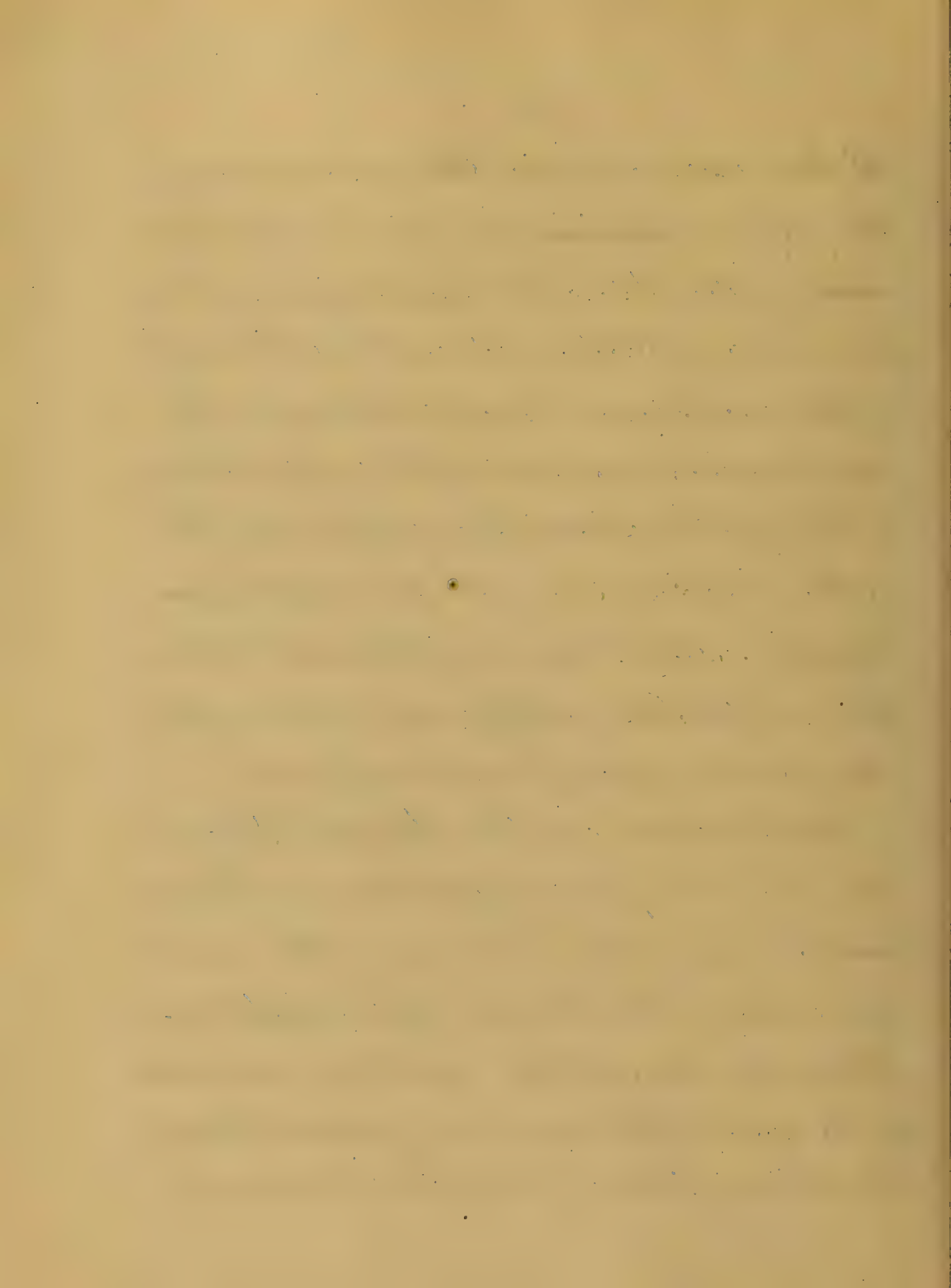
spinal accessory. The pneumogastric possesses the power of conveying sensations of pain, though not to any marked degree.

We will first note the functions of this nerve in its distribution upon the alimentary tract. Deglutition which commences in the fauces and pharynx, is completed by the lower portion of the pharynx and oesophagus. These latter parts being supplied by the pneumogastric. If this nerve be divided in the middle of the neck deglutition is impeded, the food accumulating in the oesophagus, owing to the paralysis of its muscular walls. If the lower extremity of the cut nerve be irritated, contractions occur in the oesophageal tube.



It has been shown that galvanism of the superior laryngeal nerve produces movements of deglutition in the pharynx and larynx, and extending down the whole length of the oesophagus. In swallowing, exciton impressions are sent up to medulla oblongata through the glosso-pharyngeal, but the motor influence is sent back by the pneumogastric, which causes rhythmical contractions of the tube, as different portions of it are excited by the presence of food.

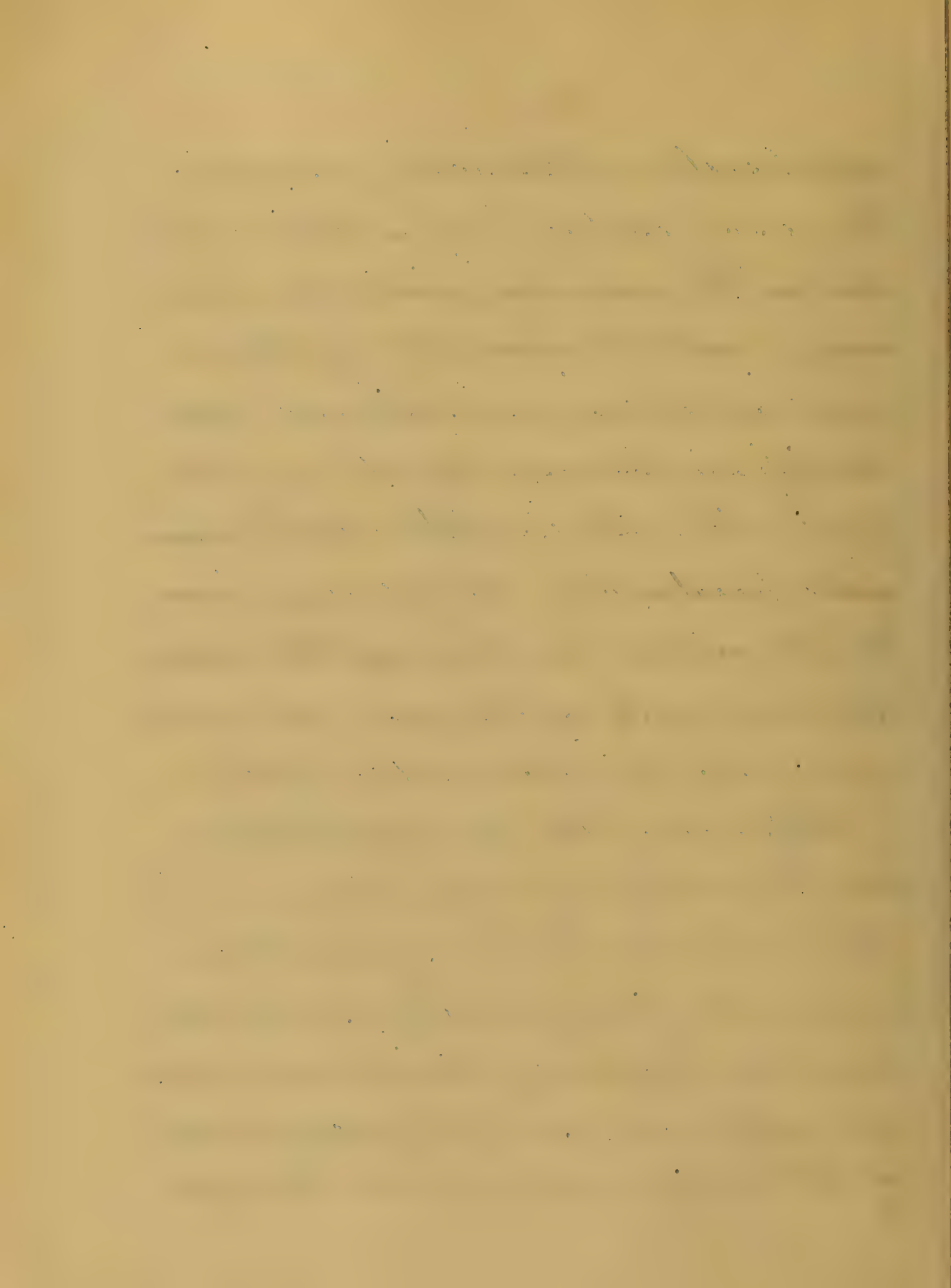
Influence on the stomach. Division of the pneumogastric in the neck causes complete paralysis of the muscular walls of the stomach. If the distal cut extremity be irritated distinct movements of the walls of the organ are produced. Lough has shown that if food be introduced,



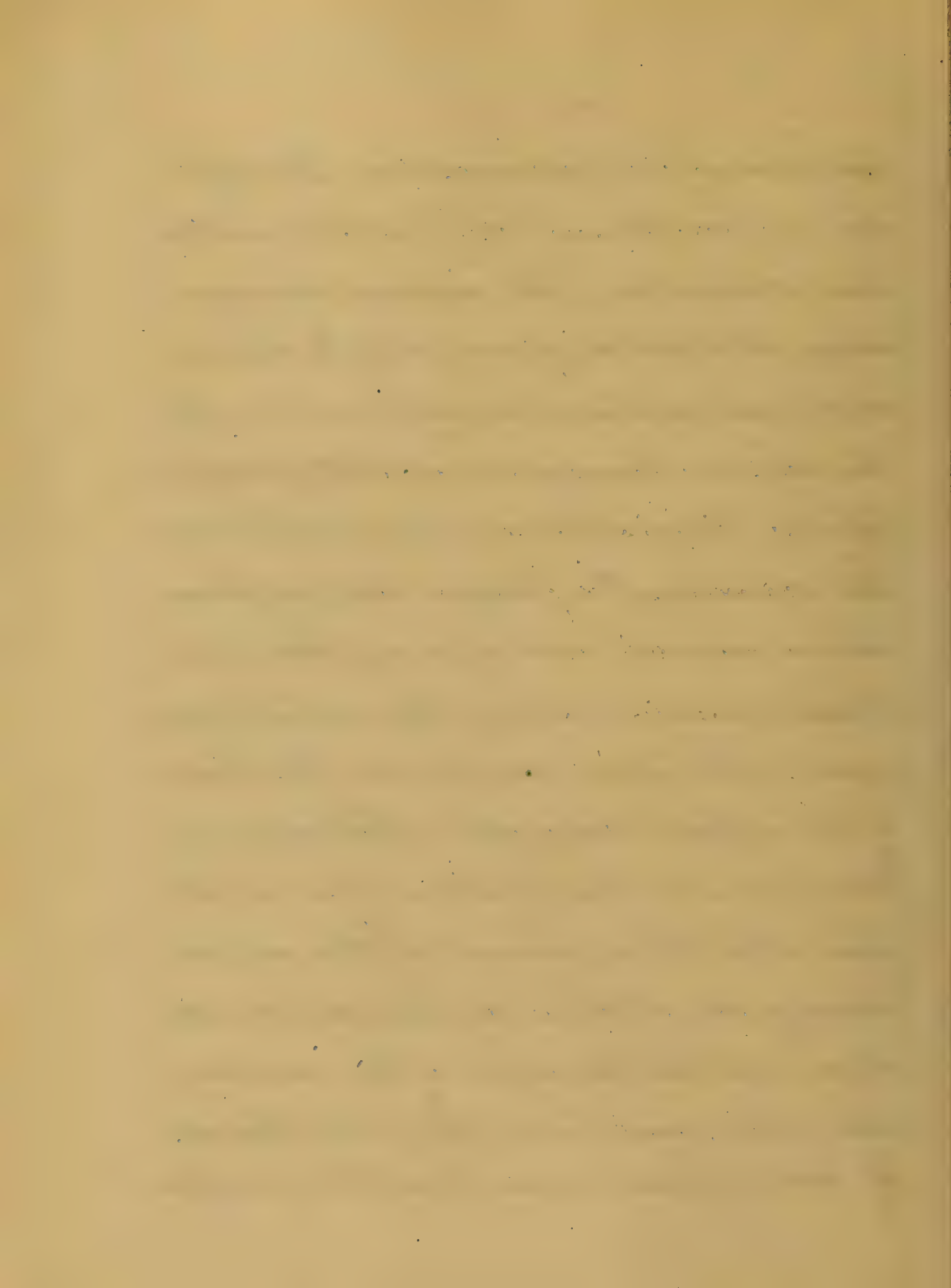
after section of the nerve, a small amount of gastric juice is still secreted. But as the muscular contractions of the organ and the sensibility of its mucous membrane are destroyed, necessarily secretion and digestion are interfered with. The irritation to the mucous walls produced by the food is an incentive to gastric secretion, and the muscular movements of the organ are necessary to the proper intermixture of this.

Influence of the pneumogastric in the phenomenon of respiration.

The connection of the nerve with the movements of the glottis. Experiments have most conclusively shown an important difference in the physiological action of the superior and inferior laryngeal

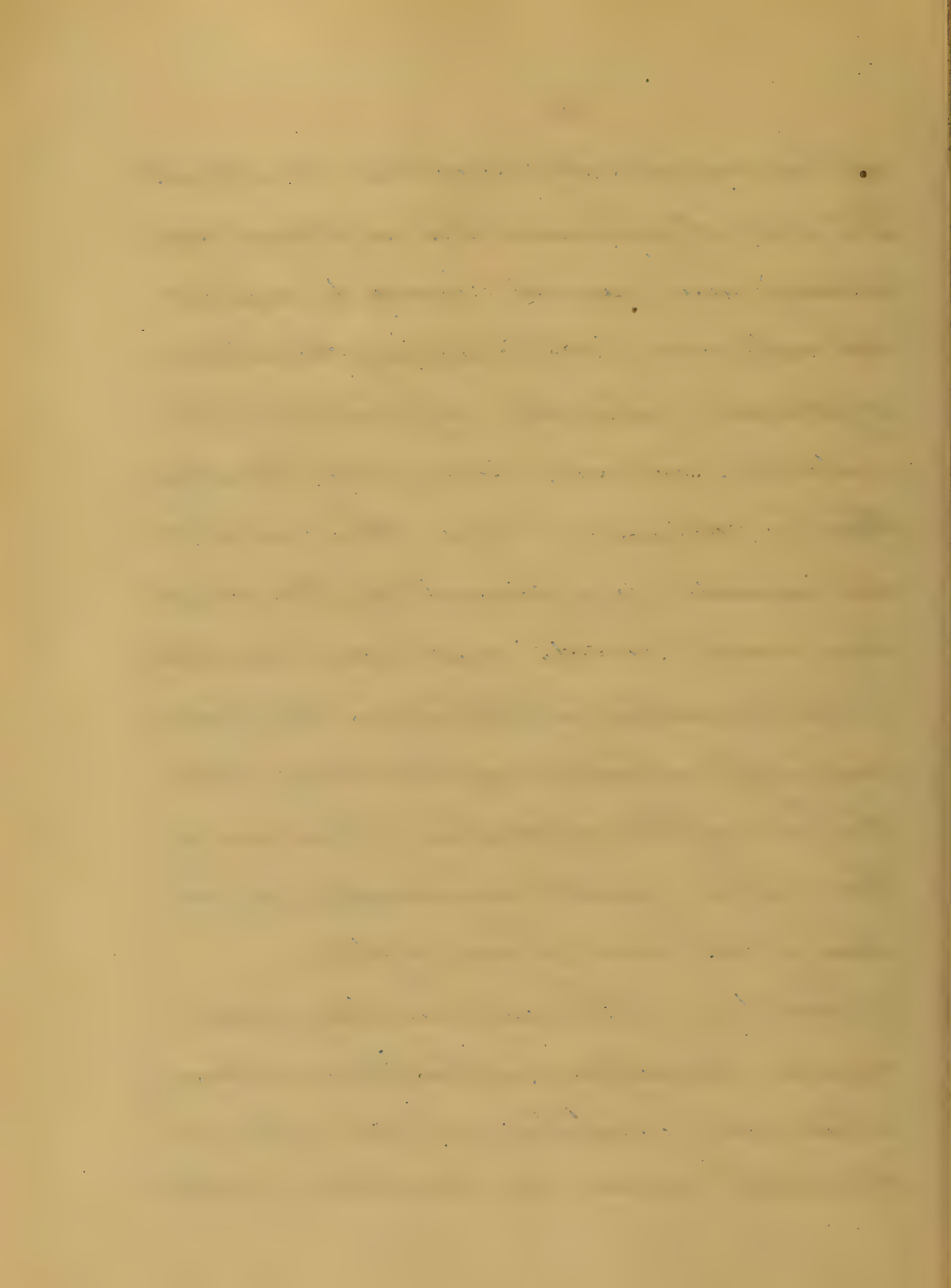


branches of the pneumogastric. This difference we would suspect from their anatomical distribution. The superior laryngeal being distributed principally to mucous membranes, and is a sensitive nerve; while the inferior laryngeal is distributed principally to muscles, and is a motor nerve. By exposing the pharynx and oesophagus in an animal and opening these by a longitudinal incision, the respiratory movements of the glottis can be seen. The division of the superior laryngeal, which necessarily takes place in this operation, does not interfere with the experiment. If the inferior laryngeal be then divided on one side, there will be paralysis of the muscles of the glottis and vocal chord on that side. If both be cut across complete paralysis



of the muscles of the glottis results with intense dyspnoea. The arytenoid cartilages are carried inwards and act as valves in obstructing the entrance of the air, directly opposite to their natural normal movement. Vocalization is dependent upon this nerve. Vocal sounds are formed by the vibrating vocal chords and vary according to the formation of the larynx, the tension and approximation of the chords, and the force of the expiration. Paralysis of these nerves would necessarily cause loss of the power of vocalization.

Irritation of the inferior laryngeal causes muscular contractions in larynx, while an irritation of the superior laryngeal causes no muscular contrac-



tions except in crico-thyroid muscles.

The superior laryngeal has a most important influence in rendering the glottis extremely sensitive to the presence of foreign substances. Any irritation to the mucous membrane of the glottis, or vocal chords, causes a violent expulsive cough which tends to remove the offending body.

This nerve has also some inhibitory action on respiration. If slightly stimulated, respiration is made slower, while a strong stimulant will completely stop it.

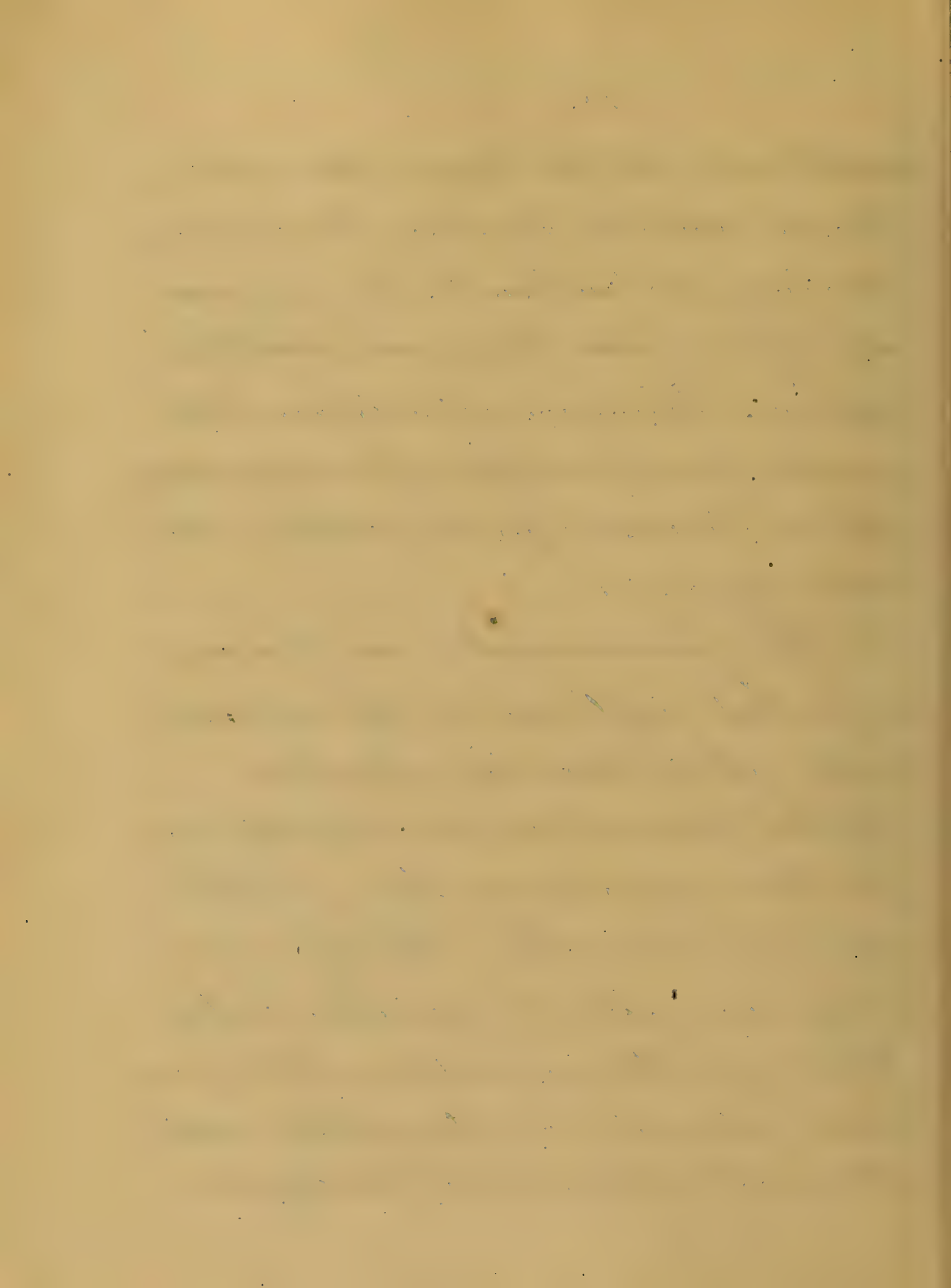
The inferior laryngeal has a slight action of the same kind. The functions of both of these nerves are very important to life.

Paralysis of the superior laryngeal, and consequent paralysis of sensation would allow the passage of food or fluid

substances into the larynx, down the trachea into the bronchial tubes & lungs, causing obstruction to the free passage of air into lungs, and death from asphyxia. Paralysis of the inferior laryngeal, from paralysis of muscles already alluded to would produce death in the same way.

The Pneumogastric exerts a most important influence on the reflex movements of the chest in respiration.

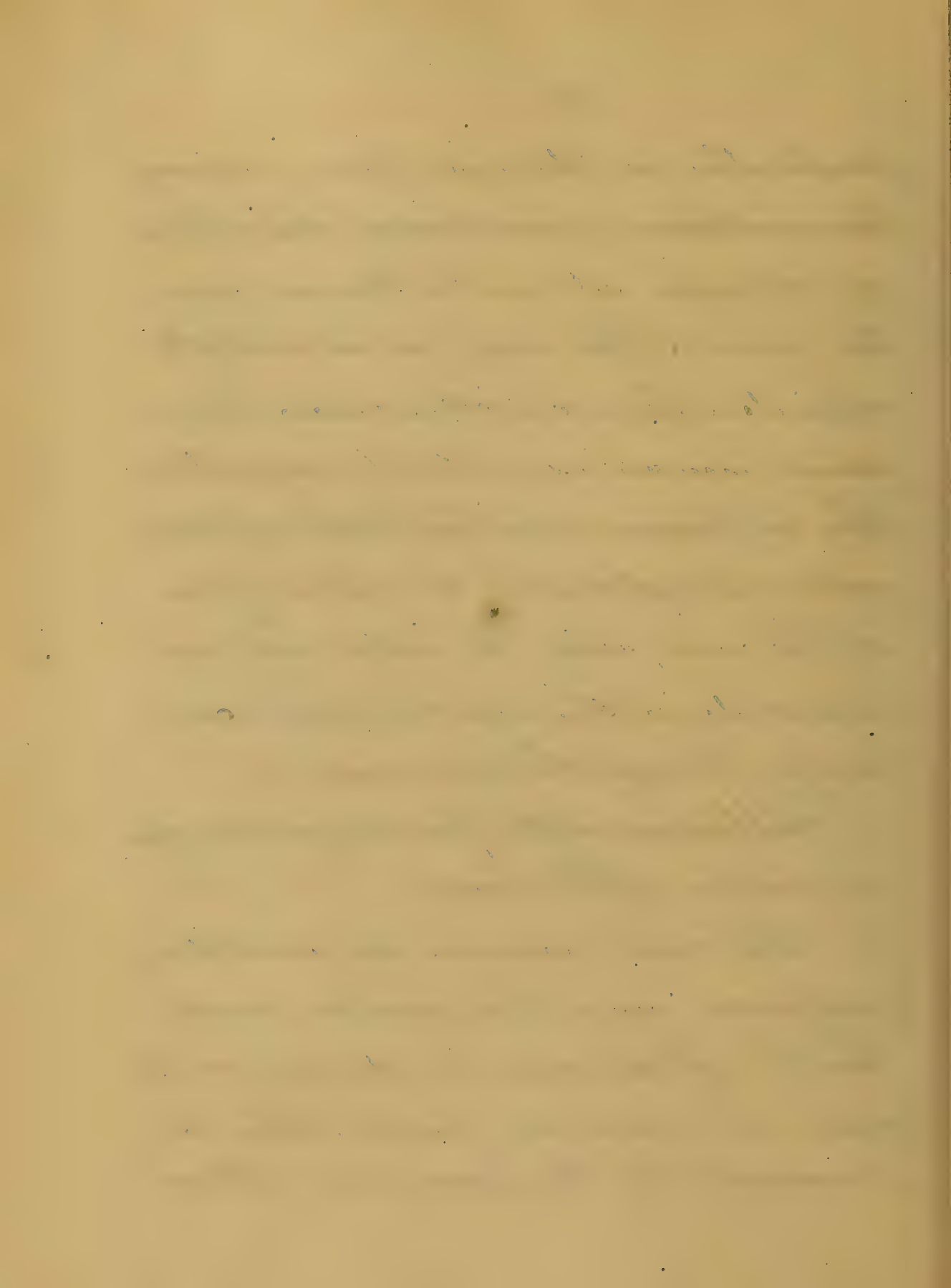
If this nerve be cut on one side respiration grows more slow, if both cut still more slow, though it is easy and quiet. Inspiration is slow, while expiration is sudden. If the proximal extremity be stimulated respiration is hurried, but if paralyzed



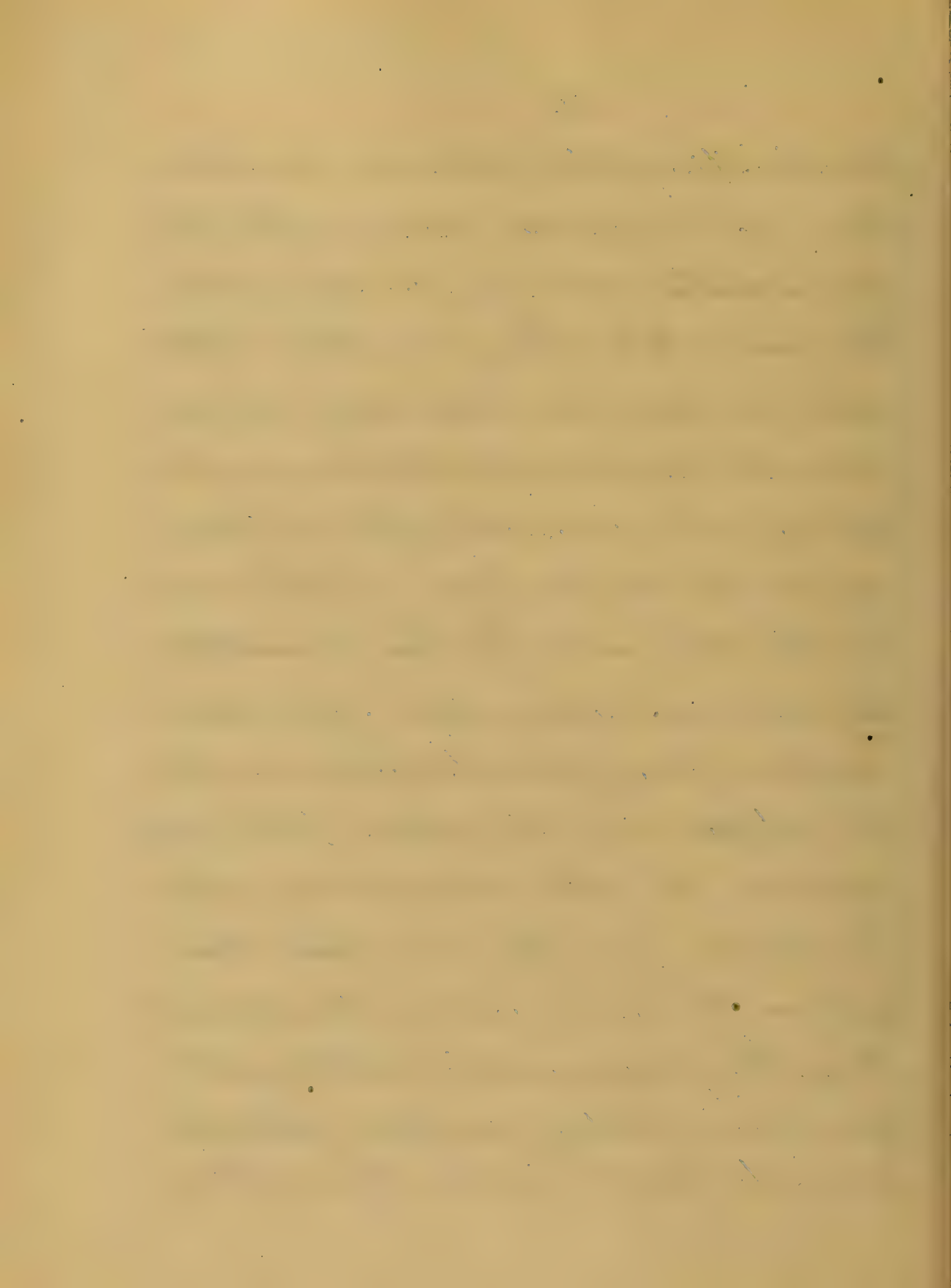
respiration is tetanized. Under ordinary circumstances it would seem that deficiency of oxygen acts on the terminal sensitive fibres of this nerve, as an excitor to respiration. (There are other causes, however, which may act as excitors to respiration). The impression is sent up to the respiratory centre in medulla by the sensitive fibres of this nerve, while the motor influence is sent down through the spinal cord, chiefly through the phrenics.

Influence of the pneumogastric upon the actions of the heart.

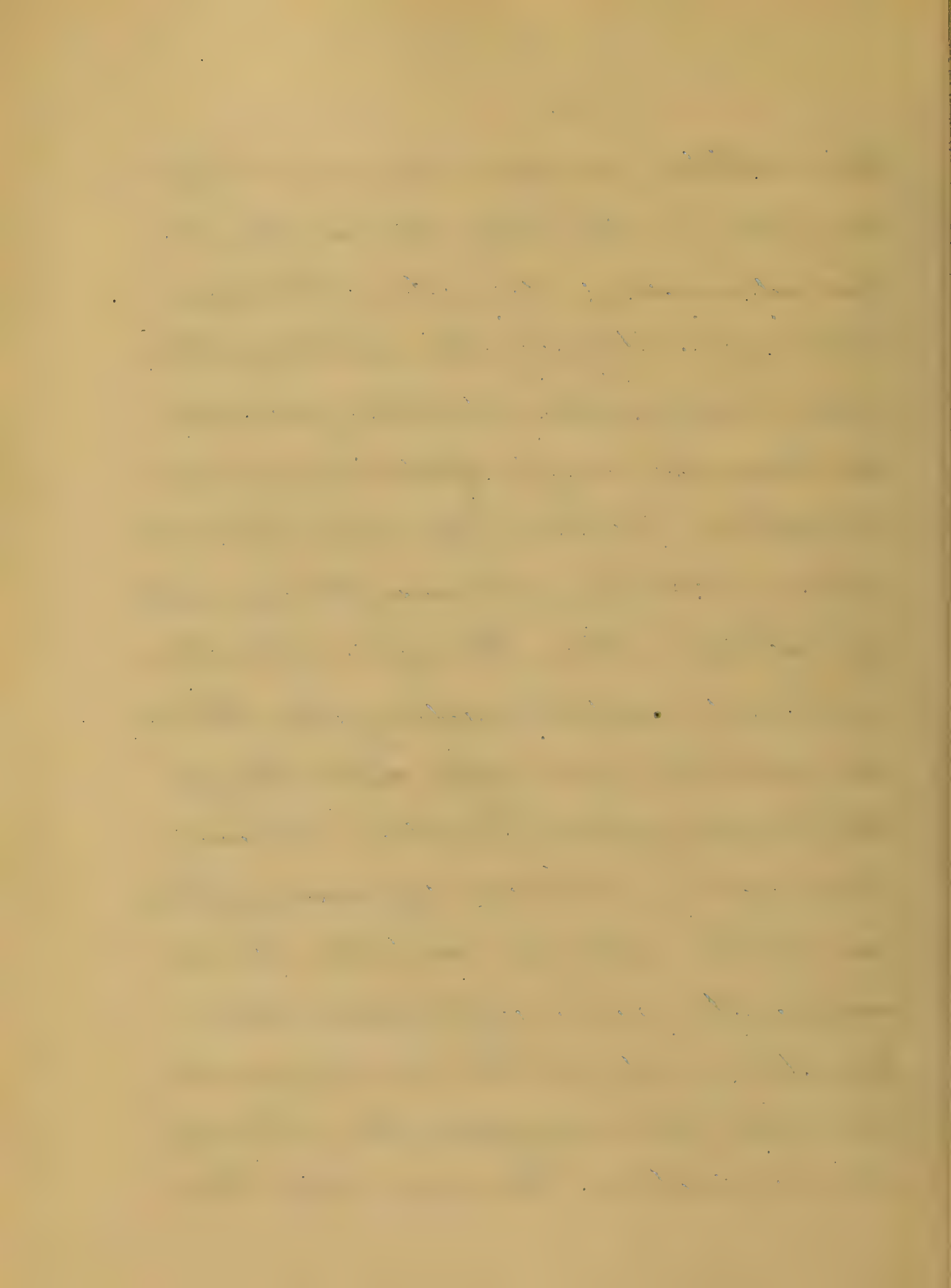
This nerve exercises an inhibitory influence upon the cardiac movements. If the nerve be divided in the neck on one side, heart action is increased. If the proximal extremity



to be stimulated, there is no alteration in the cardiac movements, but if the distal extremity be stimulated, the heart stops. This proves that its action upon the heart is direct and not reflex. If the stimulus to the nerve be kept up the heart will after a time resume its contractions. If the nerve on the other side be then stimulated, the heart will again stop. If a direct irritant be applied to the heart, while it is stopped by a stimulant to the pneumogastric, it will contract and relax. Two kinds of ganglia have been discovered in the heart, excito-motor and inhibitory. The pneumogastric probably acts upon the inhibitory ganglion. Atrofine seems to have the power of inhibiting



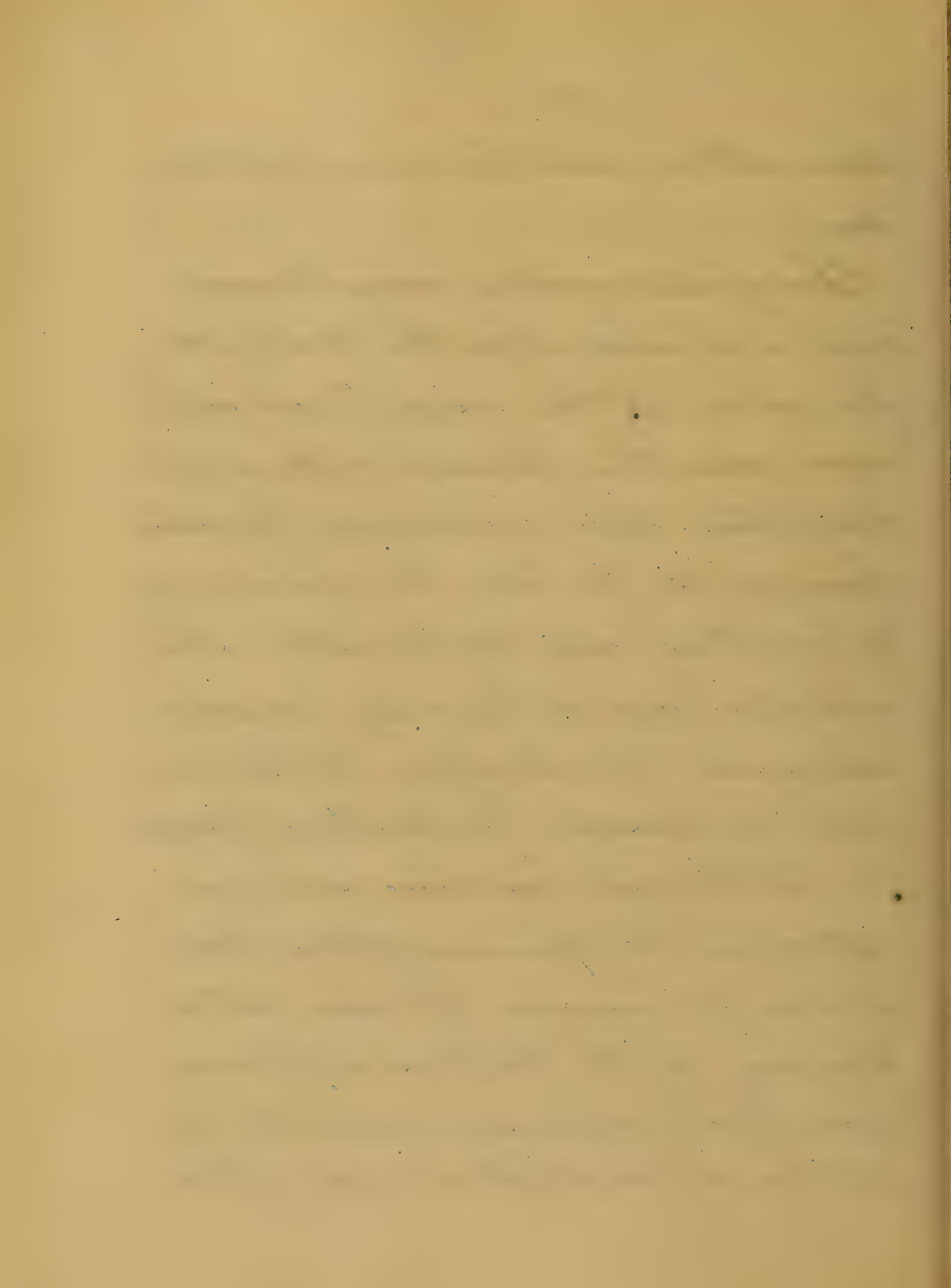
this inhibitory gaudion. Thus, when the pneumogastric is stimulated after atropine has been administered, the action of the heart will not be stopped. This inhibitory action of the pneumogastric doubtless goes on at all times, and may be affected by various circumstances. A blow upon the abdominal viscera of the frog will cause slowing or stoppage of heart action, through a reflex action sent up to medulla, acting upon the cardio-inhibitory centre there and through the pneumogastric. Emotions increase heart action, probably by causing paralysis of this centre in medulla. Some accelerator nerves of the heart have been discovered, in the lower animals but if the pneumogastric be excited they have no action, hence we infer that



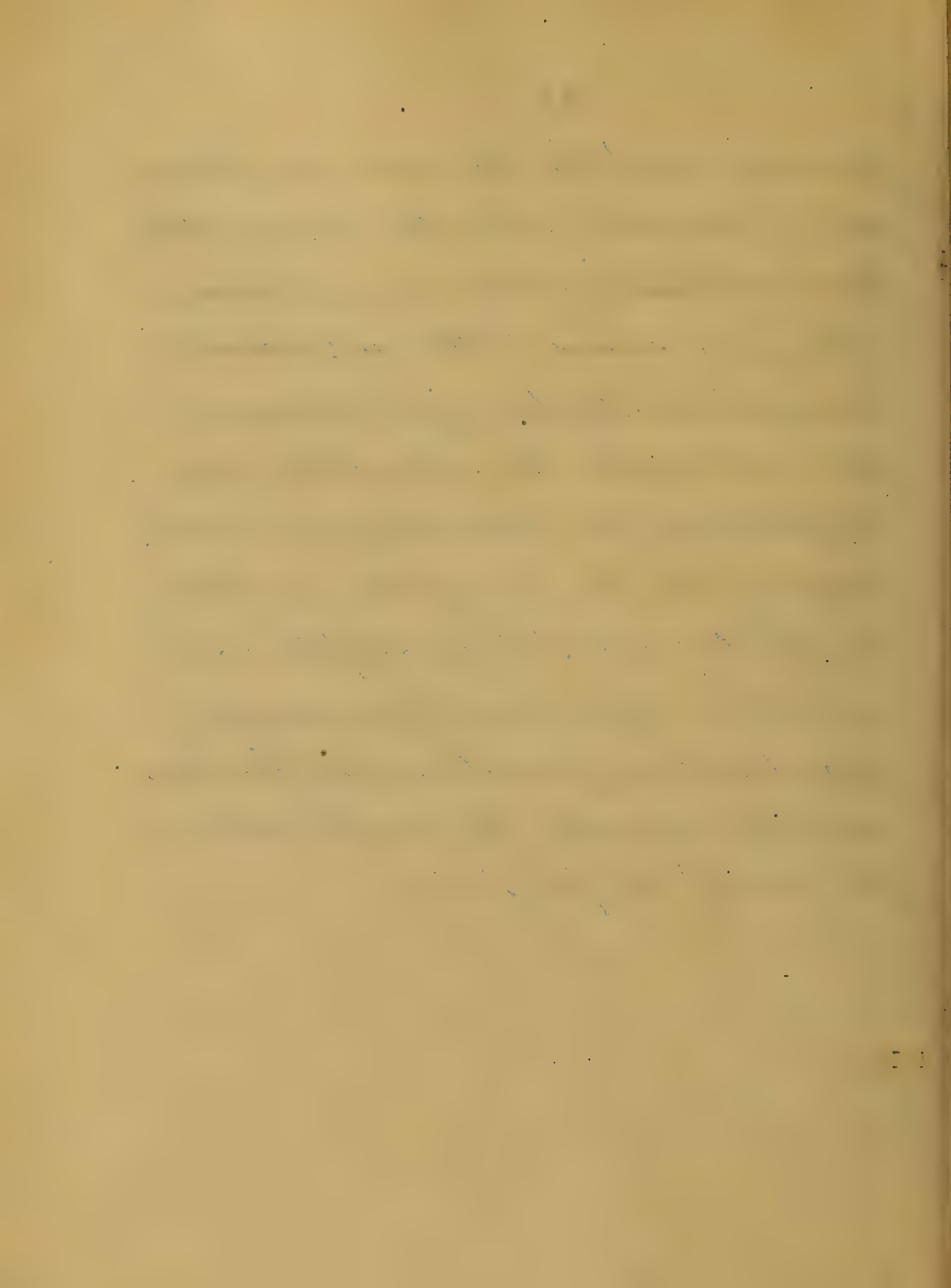
their action must be very slight indeed.

The pneumogastric seems to exert some influence upon the liver by reflex action. If this nerve be cut in the neck, and the proximal extremity be stimulated, there is increased formation of sugar in the liver. It probably works by exciting vaso-motor centre in the medulla, and in this way, causing increased blood supply to the liver with increased production of sugar.

Although, we have seen in studying the pneumogastric, that it does not exercise exclusive control over any of the functions or phenomena of our organism - with the exception of vocalization - yet it has



connection with the three great vital phenomena of digestion, respiration, and circulation. Hence implication of this nerve in disease is always a serious matter, and demands the vigilant attention of the physician. It is not within the scope of this essay, to point out in what diseases involvement of the pneumogastric would be likely to occur, but we simply insist upon the importance of recognizing any deviation from its normal functions, and the necessity for prompt action on the part of the physician.



Curves of the Spine
A Thesis

B.S.

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Submitted
to the

Faculty of the University
of Maryland
School of Medicine

September 1900.

This disease, in its full development, consists of the destruction of the body or bodies of the vertebrae, along with the intervertebral substance; it most commonly occurs in children and is associated with the strumous diathesis.

It consists essentially of degeneration of the intervertebral fibro cartilage, strumous stitis, — or more rarely of tubercular infiltration, followed by inflammation and death of the parts.

Now we consider the complicated structure of the spinal column, the various different tissues that enter into its composition, cancellated, bony, cartilaginous, & ligamentous,

its variety of movement, its exposed position, one would suppose that it would be the seat of disease, ^{more often} than it really is.

Angular curvature of the spine, - Pott's disease, - so called from the name of the surgeon who first described it, - may originate in diseases of two distinct structures. 1st. Intervertebral fibrocartilage.

2nd. The bodies of the vertebrae. The seat of the disease exerting an important influence upon the course which it will run.

In that of the first kind, it consists of a strumous softening of the substance, absorption of the bone taking place and finally anchylosis. In this form abscess seldom occurs. When disease of the second kind occurs, it generally leads



the spinous processes, arches, and intervertebral
fibro cartilages intact, though it may involve
these structures also. The disease attacks
the cancellated portion of the bodies, in pre-
ference to the harder bone composing the
discs of the bodies, the edges of vertebrae
become thinned, eroded, and hollowed out
anteriorly. In this way the bodies of from
six to eight of the vertebrae, may become
eroded, producing at the same time death
of the intervertebral substance, by cutting off
its vascular supply. These changes more
often occur in the dorsal region, but may
occur in any part of the spine.

The mechanism of the cure, which is
usually the most marked feature, is easily
understood, by reference to its pathology,



The pedes being thinned, at last give way under the weight of the upper part of the trunk, and the remains of the disintegrated bones, become fused together, the trunk bending forwards, causing the spinous processes to project backwards. The degree of bending depends on the amount of destruction, and on the number of vertebrae involved.

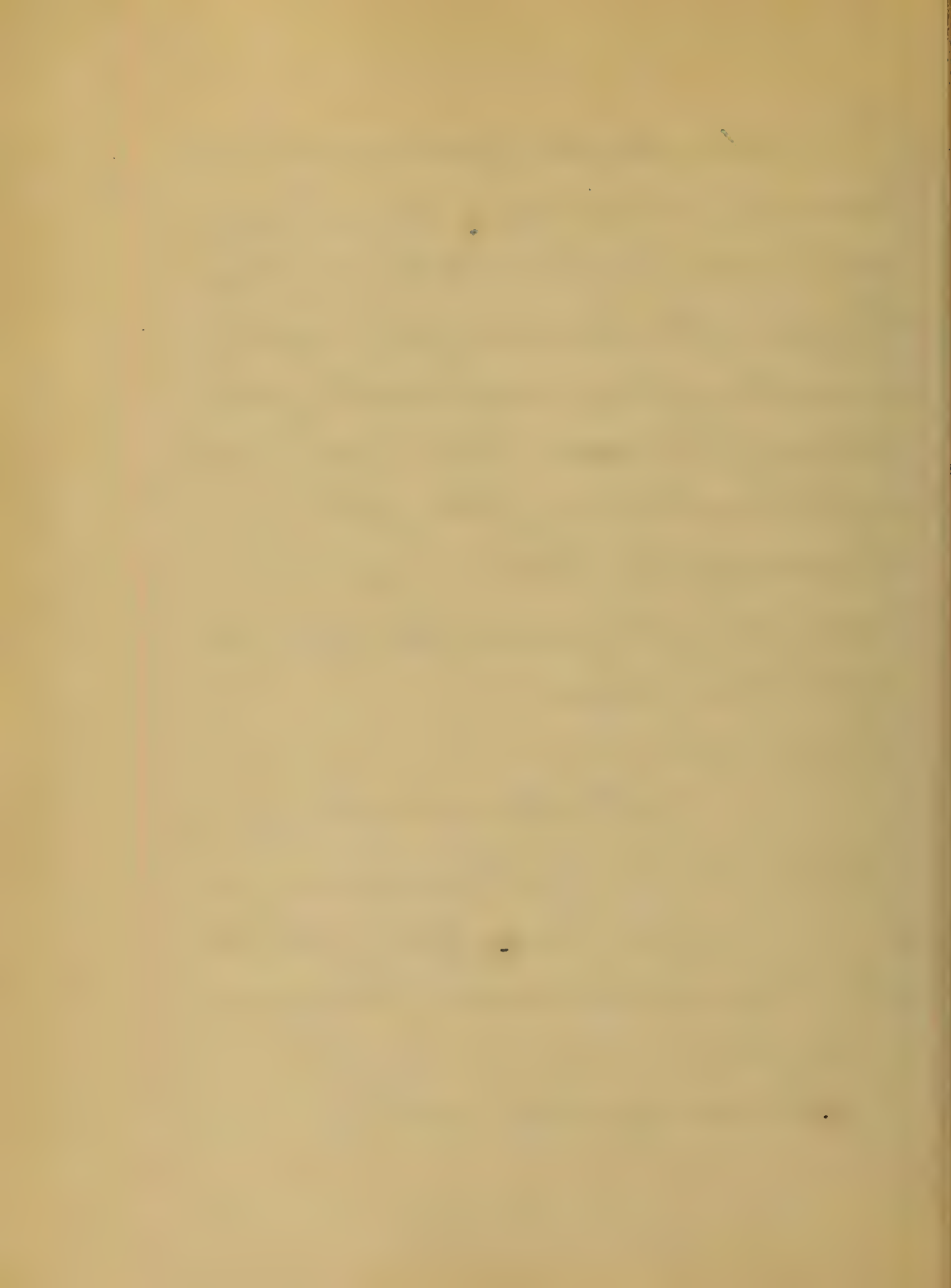
At the same time, that the upper part of the trunk bends forwards, the lower part rarely maintains the normal position, but gives a compensating bend, in this way preserving the centre of gravity, of the body. The angle of curvature varies according to the number of vertebrae involved, the fewer there are diseased the more acute will be the angle of curvature.

It is seldom that the spinal cord becomes pressed upon, or injured, some times however, occurs particularly by an accident, in which the course of the disease is rapid, spinal meningitis is set up, or the sheath of the cord may be pressed, by the bending (and ankylosis not taking place), effusion on the cord, may take place, or again some pressure may be made on the cord, producing paraplegia.

Symptoms.

This disease commences in children in a very insidious manner, & is generally referred to some fall with the child, or to some blow received on the head.

The first symptom which



tracts attention, is the child's attitude, which is altered, & characteristic. The body is held straight, & stiffly, and does not bend, but turns as a whole instead. The shoulders are raised, the chin thrown up, the toes curved in slightly, the child walks with great caution & stiffness. One of the earliest symptoms is an ill defined pain, either on the side, or occurring from there around to the stomach. The pain may be most readily explained, by referring it to pressure made upon the intercostal nerves, at their exit through the intercostal foramina.

Observation, as well to find that the child has difficulty in standing, erect, and will creep, hold of a rail, or chair, with which to steady himself, or by resting his hands

on his knees. He will have difficulty
in raising himself, from the supine to
the sitting posture, or of turning over in
bed, without the aid of his hands.

On examination of the spine we will find
one of the following conditions. Either there
will be a projecting spine which will be
somewhat tender on pressure, or there will
be felt a depression. The first of these, will
be caused by the anterior parts of the bodies
of the vertebrae, giving impetus, across the body,
to bend forwards & causing the spinous
process to project; the second occurs
in the lumbar curve, the weight of the body
falling backwards, and depressing the
spinous process. There may be some
or less of a neuralgic affection, associated with

angular weakness: a species of motor paraplegia.

Diagnosis.— The diagnosis is made at first sight, if the disease have progressed to angular curvature. — It is difficult however before curvature has taken place to diagnose it positively, the symptoms being somewhat obscure.

At this stage, it may be mistaken for intercostal neuralgia, rheumatism, gastritis, and it has been treated for dyspepsia.

It may be mistaken for diseases of the respiratory organs, when the disease is situated high up in the vertebral column.

There is often associated with it a peculiar sort of respiration, which is quite a prominent symptom; — it is short and grunting in



Character. When the child is placed, over your thighs, and the spine extended, by separating your knees, ~~it~~ will take a full deep inspiration. - It is the "sigh of relief" as Dr. Sayer calls it, should you now bring your knees closer together, the same kind of respiration will be restored.

If spasm and pain have not been produced by this movement, they will be if the feet be seized with one hand, and head with the other, - pressing them together, thus crowding the bones together & causing pain.

You may press upon the spinous processes and give no pain, and especially would this case if the anterior parts, of the bodies of the vertebrae were diseased, should it be so a foot would give relief, rather than pain.

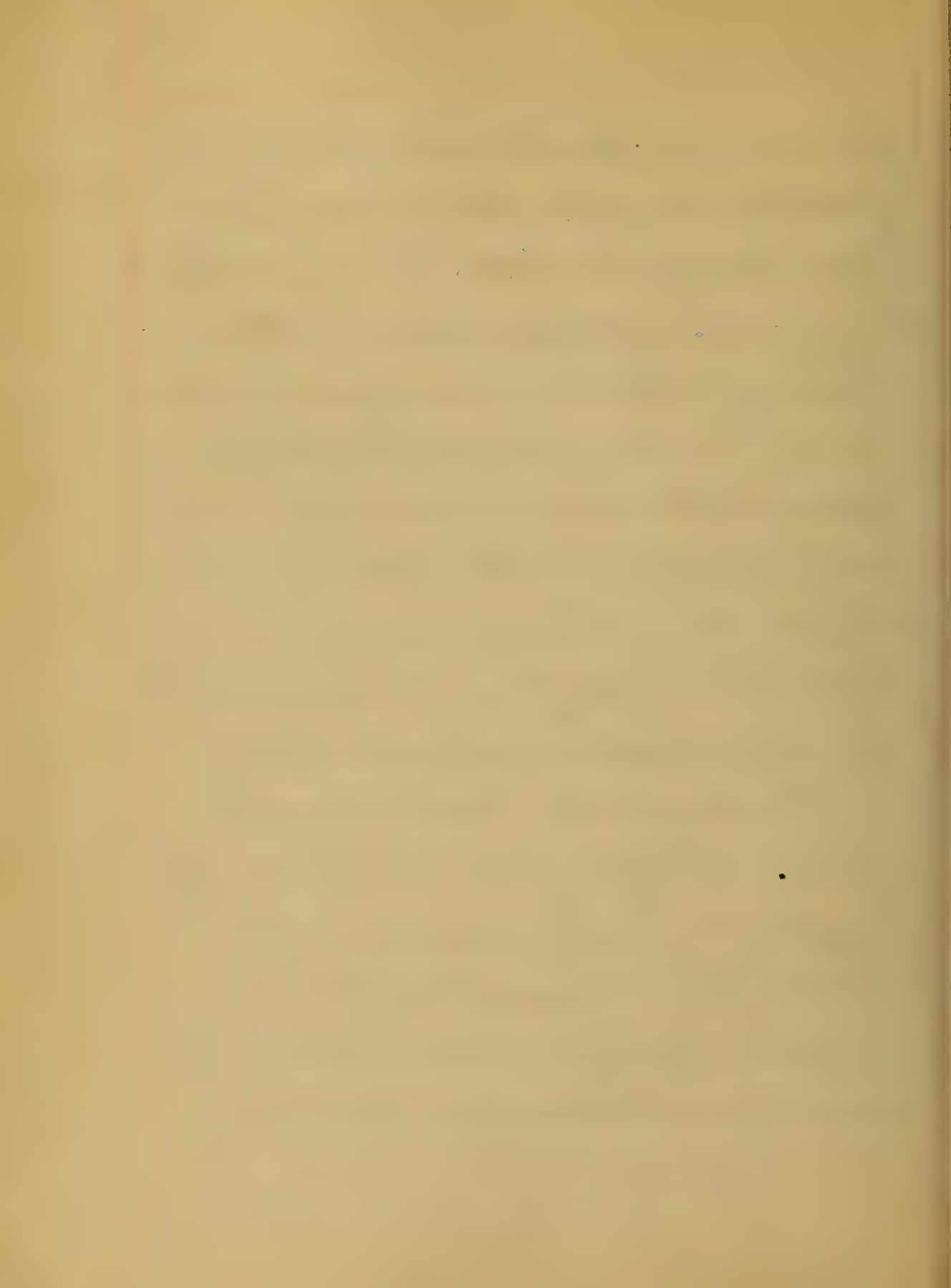
Do not lose sight of this however, as the disease frequently begins on the side of the vertebrae, instead of on the front, to ascertain this, press upon each vertebra separately, & make it come in closer contact with its articulating surface. By taking note in that way, it may be found not only where the disease is, but how many of the vertebrae are diseased. Should it be found to be due to suppuration from other cause. Prognosis— 1st Definitive 2nd Terminal. As regards definitiveness of the disease, have progressed until angular curvature has taken place, very little can be done. The diseased vertebrae are matted together by the soft tissue, & the disintegrated intervertebral substance and any attempt at straightening the spinal

column, would open the canal, there being less
of substance in front, which would lead to
spinal meningitis & death. In regard to life -
the prognosis will depend on several conditions.

If meningitis be diagnosed, and the column
do not bend over, and ^{does not} ~~is not~~ take place,
meningitis will be likely to occur, but if arching
takes place, it protects the cord, the patient
will have better prospect of recovery.

Larger abscesses may form, discharge, and if
there continual discharges produce death.

Treatment. - The treatment from
which has already been said, would naturally
be supposed to have two ends in view, 1st
Therapeutical & Hygienical. 2nd, in pre-
venting the deformity, or if it has taken place,
supporting the head, & upper part of the



trunk while the disease is running its course.
In the first of these, Mr. Erichson in his sur-
gey says that, "the disease is always associated
with the strumous diathesis." Whether this be
the case or not, and some say that it is not, when
once the child has been attacked by the disease
& seen by the physician, it is much to be
gained by seeing some of the complaint.

Antispasmodic treatment is essentially proper,
good hygienic regulations, pure fresh air, change
of scene, good nutritious food, cod liver oil
iron & tonics. As to treatment of mechanical
supports. In passing over the symptoms of the
affection, it will be remembered that one of the
first symptoms, was a peculiar upward inflexion
in the gait, associated with a stiffness of
the muscles of the back, so that when the

child attempted to turn around the whole body
bowed together.

To relieve the disease, however, by throwing the
muscles of the back into action, thereby promoting
as much motion in the spine, and naturally
diminishing one cause of irritation.

All the apparatus used for this purpose
has two ends in view. 1st To separate the
diseased vertebrae, as much as possible,
2^d. To fix a support in such a way
around the body, that it will supplement
the muscles and other structures, and pre-
vent any harm in the part.

Some authorities recommend putting the
child on a bed, in the prone position, and
keeping it there for weeks, even months until

cured, but this is certainly very hard treatment to carry out practically, although it might do very well theoretically.

Dr. Taylor of New York, has invented an apparatus, which consists essentially of a band resting for support on the hips, which has attached, in a row rods, running up side of the spinal column, these are attached, some of a band running over the shoulder, & around under the arm pits. There are an additional supports of iron rods one on each side, extending from the hip band to the armpits, these he each a socket attached by a hook they may be made longer or shorter. But the most efficient support, is in the bucket, made of plaster of Paris, to cover the whole trunk, in front



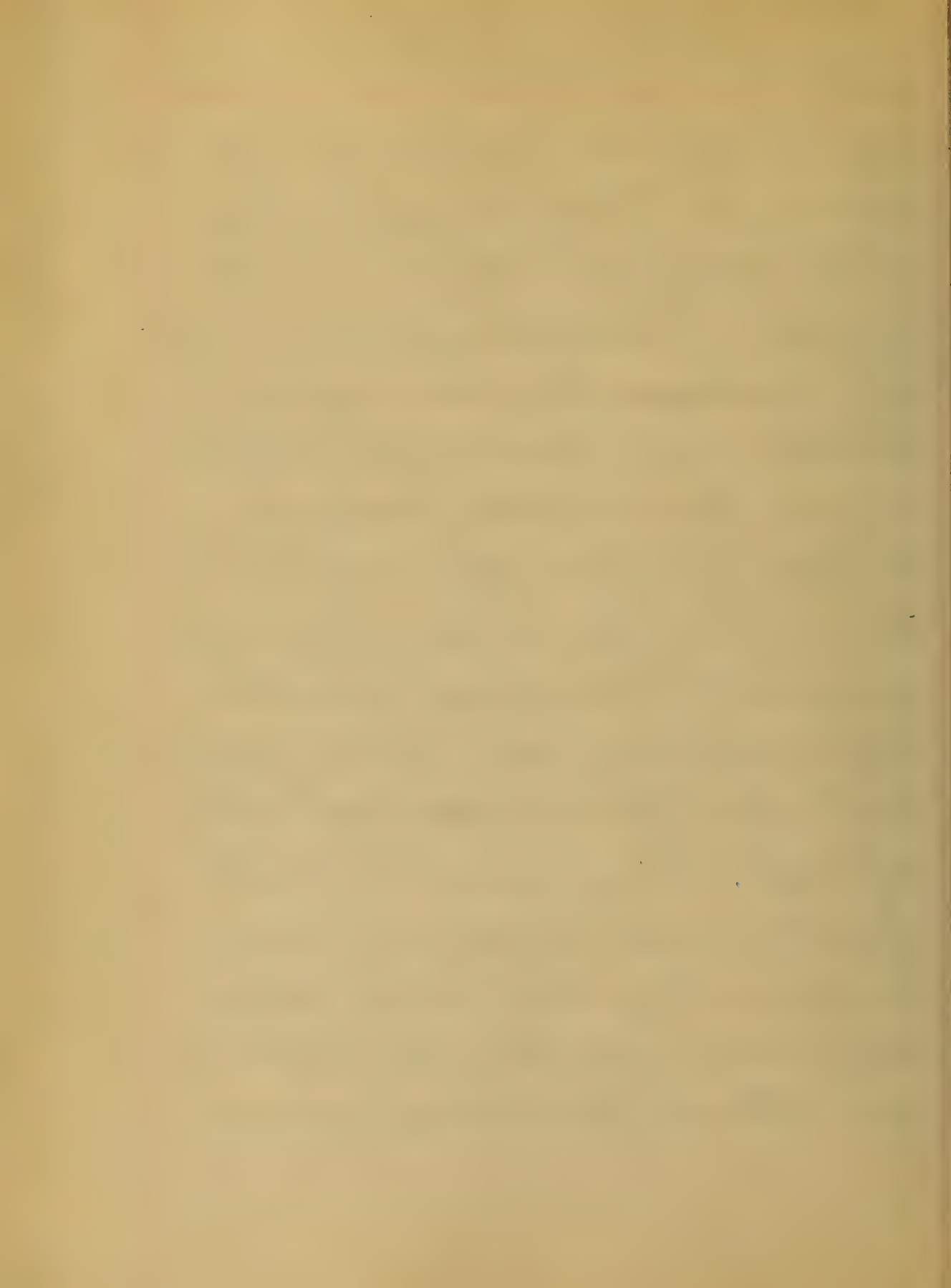
used by Dr. Ferris, this can easily be applied
& when once on forms a very firm & irresor-
table support. The location of the
plaster. The child's clothes having been
removed, a close fitting brit shirt is put on,
the breast fit closely and not wrinkled.
A small towel folded and placed under the
shirt, upon the abdomen, this is to be removed
when the jacket is complete. If this be ne-
glected vomiting may be produced.

I have a vest made of cotton wadding
around the body, principally at the places
where the upper, & lower parts of the jacket
will reach. I have placed a muslin
bandage over all of this, putting it
on as smoothly as possible.

The child should never be suspended;



to get the spine as straight as possible.
An iron bar 18 inches long, with a hook
at each end, is suspended from the centre
by a double block & tackle. From each end
of the bar, ~~hang~~ a strap, leaving up space for
the child's arms, & provided so that it will
not rub, there are straps for supporting
the head, but it is not often necessary to use
them. The child is fixed in position by
raising, with its arms through the straps,
and so adjusting it that the tips of its toes
shall touch the floor, but shall not sustain
any weight. Commence with the plaster,
by putting on a bandage, made of coarse
merquite netting, which has been rolled in
dry plaster, & just before applying has been
wet. After the first bandage is on, mix

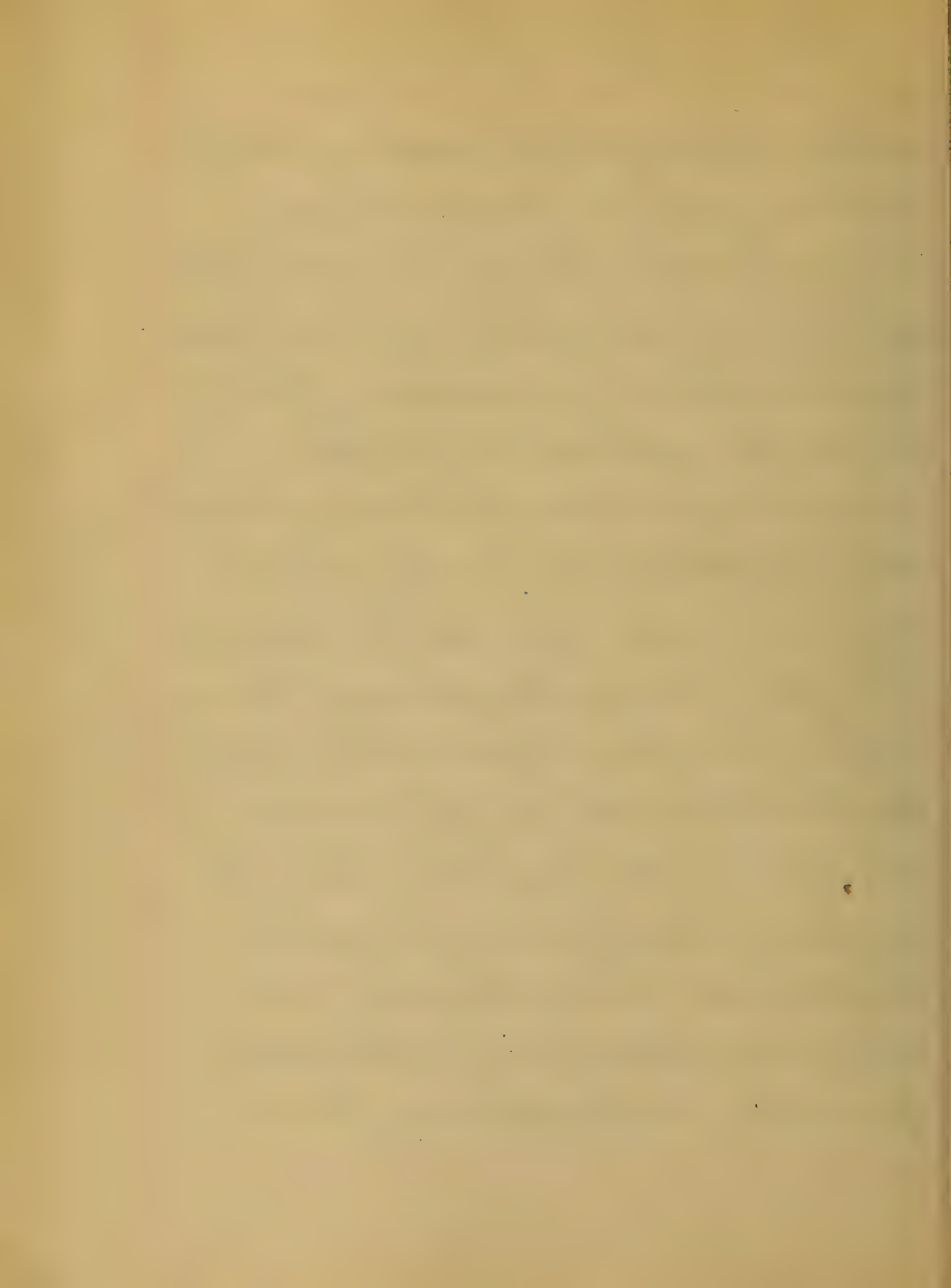


a little plaster with water, making it thin
I rub on quickly, or it will set very soon.

By continuing in this way, first with bandages
and then using wet plaster, until 5 or 6 bandages
have been applied, then smoothing off the
plaster, the jacket will be finished.

The child should now be placed on its back,
until the plaster is hard & dry, when the
band may be taken from over the abdomen.

The jacket may be strengthened, by placing
strips of wire gauze in front & behind, keeping
them from the middle line, if it should be
necessary at any time to open the jacket. This
may easily be done by sawing through the
middle line. Should the plaster rub on
a projecting osseous process, or should a safe
point under it, the plaster may be cut



away from the place, & any application
made that will be required. As to the length
of time, that the patient will have to remain,
that will depend on the progress of a spine
that takes place, & cannot be told beforehand.
I will under the best circumstances be very
obedient & show. Cases. 2. 13. vol. 104 p. 2
Mrs. White, fell off steps in April 1877.
did not hurt back at time. She never later
complained of back, but apparently recovered.
Following October was taken to the Bristol
Hospital, complained of pain in stomach
at night, spine thrown backwards, & stomach
projecting. On examination spine pro-
truded up of 2nd lumbar vertebra displaced.
A plaster jacket was put on & remained
for sometime, after which other were put

ad-

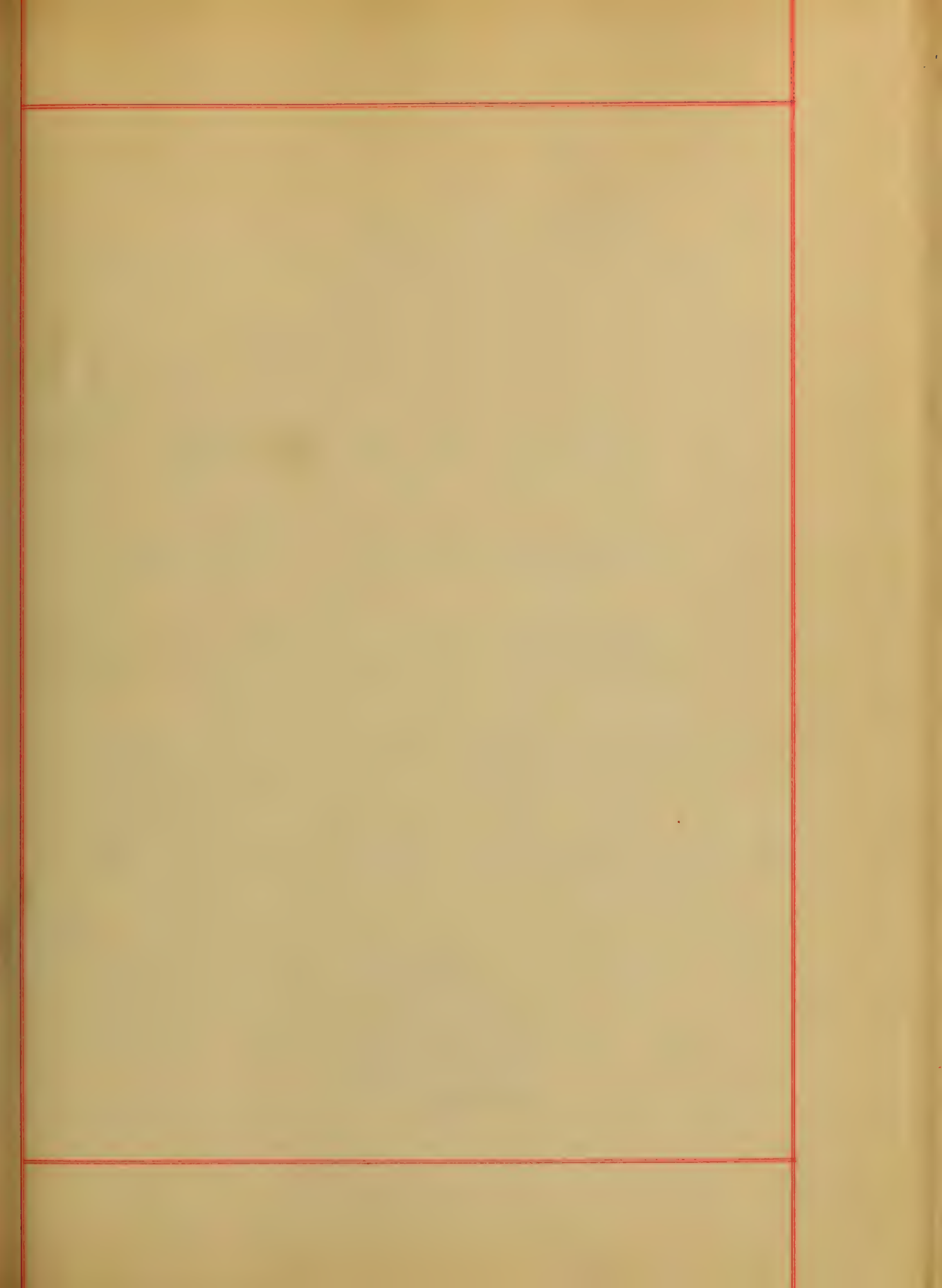
Case 2nd, L., act. of spinal fluid.
18 months ago fell, burst back, 11
weeks after fall complained of back which
gradually progressed to marked curvature,
about the 11th dorsal vertebra. Lumbosacral
sprang from compression of cord.
A plaster jacket was applied, after
which she was able to use her limbs,
continued to improve:-

Chas. H. Riley



Spells of D. S. L. Kilmartin.
Pittsburgh Pa.





The disease affects the periphery
of the lungs. But what consists
into the substance of the lungs
be considered branches
may be considered as constituting
the substance of the lungs.

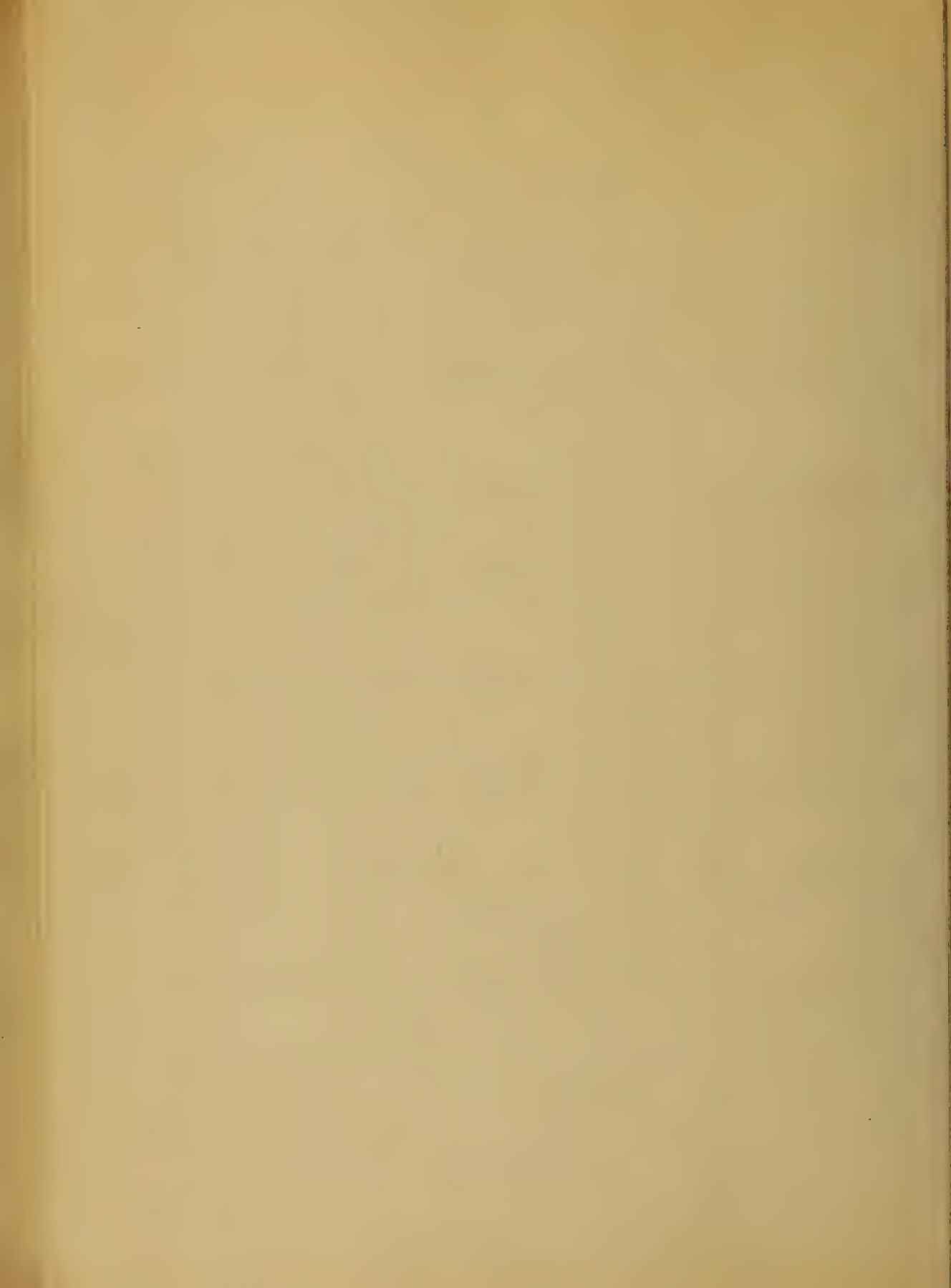
The bronchi are divided
into the larger and the smaller
and are lined by acellular tissue, form the
arteries. The pulmonary membrane
lining the bronchi is not the same
differs in structure, from that lining
of the larger tubes. The larger tubes
are lined with cylindrical ep-
ithelium, with numerous mucous
follicles; while the smaller tubes
are lined with squamous



epithelium, and have no mucous
glands. In pneumonia there is a
tendency on the part of the disease
to extend to the smaller tubes; and
in pneumonia, the same law holds
good. This proves not only a difference
in structure, but also, in function
in many respects. In the
matter of exudation in the two
diseases. Acute lobar pneumonia
may be confined entirely to the
upper lobe, and may even
allow itself to invade the whole lung.
In the chronic form it
is confined to pneumonia
in its acute form.

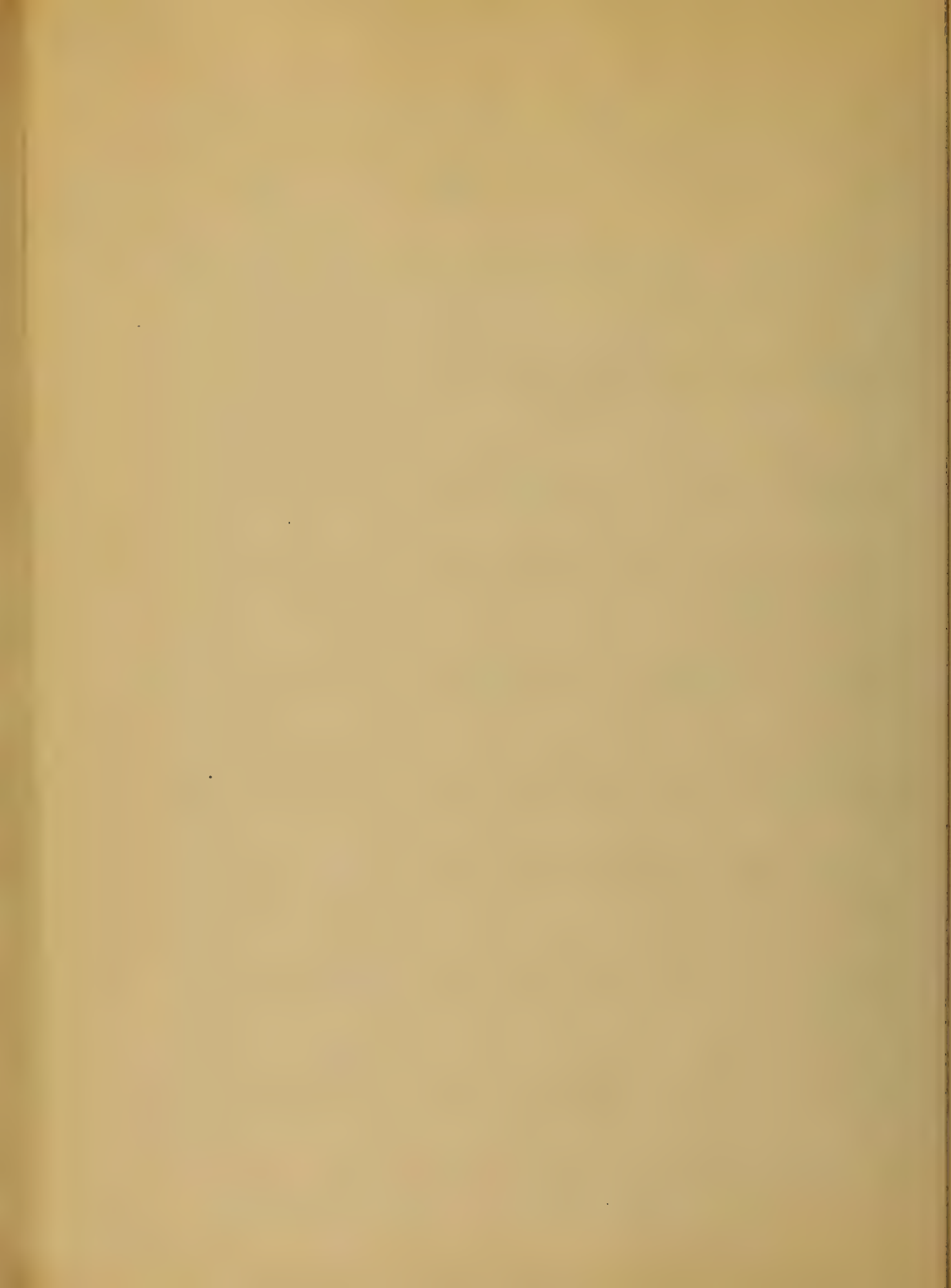


Aspirin and Salicylates. In the
million situations in which they are
used, they are not infrequently
used in the form of a
supernic or suggested condition.
The commonest and most serious
cases of acute poisoning are those
a serious condition. The ^{most} important
to be remembered from
the records of fatal poisonings,
the toxic symptoms are the
typical of the acute poisoning
which will be found in the
depressed state of the patient
in question, we find the most depen-
dent part of the drug effect to be
the same in both cases. In the





utilization, is by some authors thought to be a misnomer. The red appearance of the lung is owing to the corpuscular elements of the blood predominating. The lung, in this condition, is heavier than normal at least owing to the retention of water and an increase of the corpuscular elements of the blood, sinks in water. A lobe in this condition, may weigh two pounds more than in the normal and the entire lung sometimes weigh from three to four pounds more. The cut surface of a hepaticized lung has a granular appearance, and on passing the finger over it, one has the sensation of



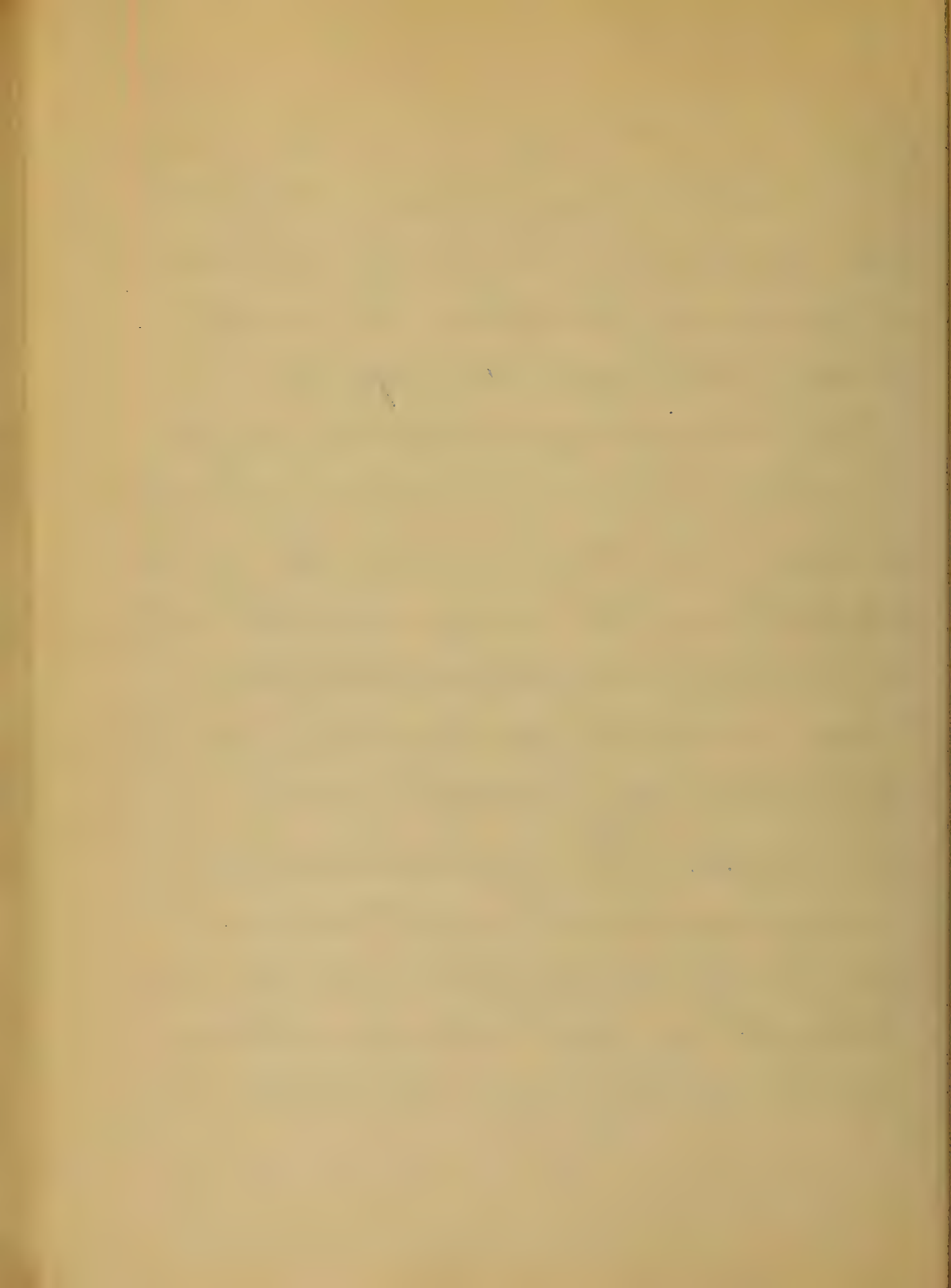
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with granular elevations, in order
less liquid matter escapes from
the cut surface, and then the re-
mains of the pus microscopically
isolation. The pus is supposed to be
made up of molecular matter, which
is supposed to be amorphous fibrin
or lymph in a granular form. It
is supposed to be a soft, fatty granular
and blood discs. If the disease
takes a favorable course, the ex-
cess of matter is removed principally
by absorption, some authors also
think it is removed by exfoliation
of so, what becomes of it, when no
exfoliation takes place, some
authorities suppose. The very same



tion is not destroyed, even the ob-
struction is removed. The air is res-
tituted, and the lung resumes
its normal function. In such
cases, recovery is complete.

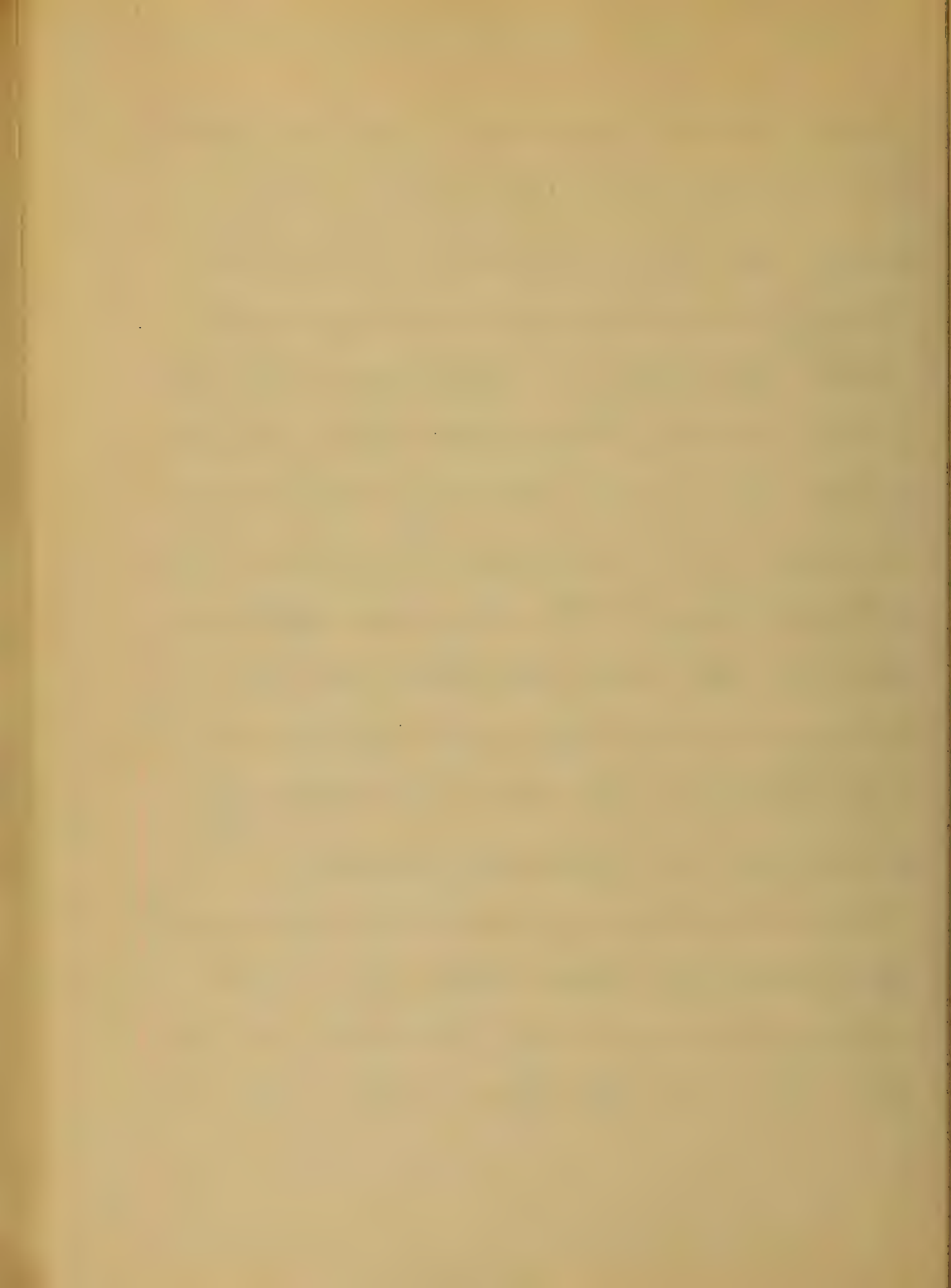
If the disease takes an unfa-
vorable course, the exudate mat-
ter is not absorbed, and the affect-
ed portion of the lung is infiltrated
with liquid fibrin and pus.

This is called pneumoniae infiltration.
Collections of pus often settle in
the lungs. This constitutes what
is known as abscess. Gangrene
of the affected part sometimes
takes place, but this and abscess
are extremely rare. Pleuritis is



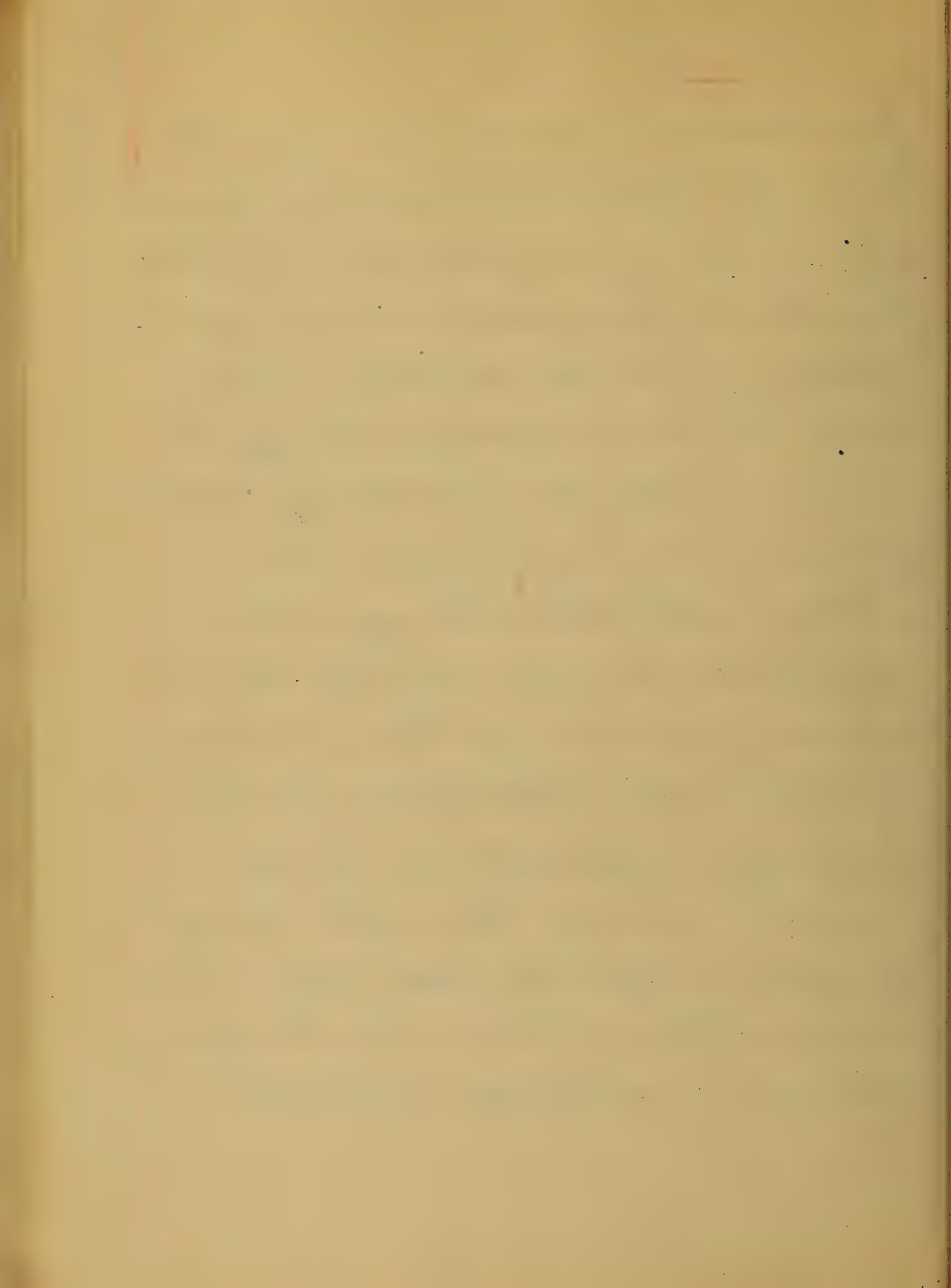
usually occurs in connection with
the disease. In this case, there
may be effusion into the plural
space; or it may be very mild,
with little or no effusion. The lat-
ter is most frequent, thus the term
acute, the term pleura pneumonia
is used; and, as pleuritis, as a rule,
always exists, the term is applica-
ble in all cases. But the term
is used to designate cases, in
which there is considerable effu-
sion into the plural space.

Bronchitis may exist in connec-
tion with pneumonia. In such
cases, it is merely accidental; for
there is no tendency, on the part of

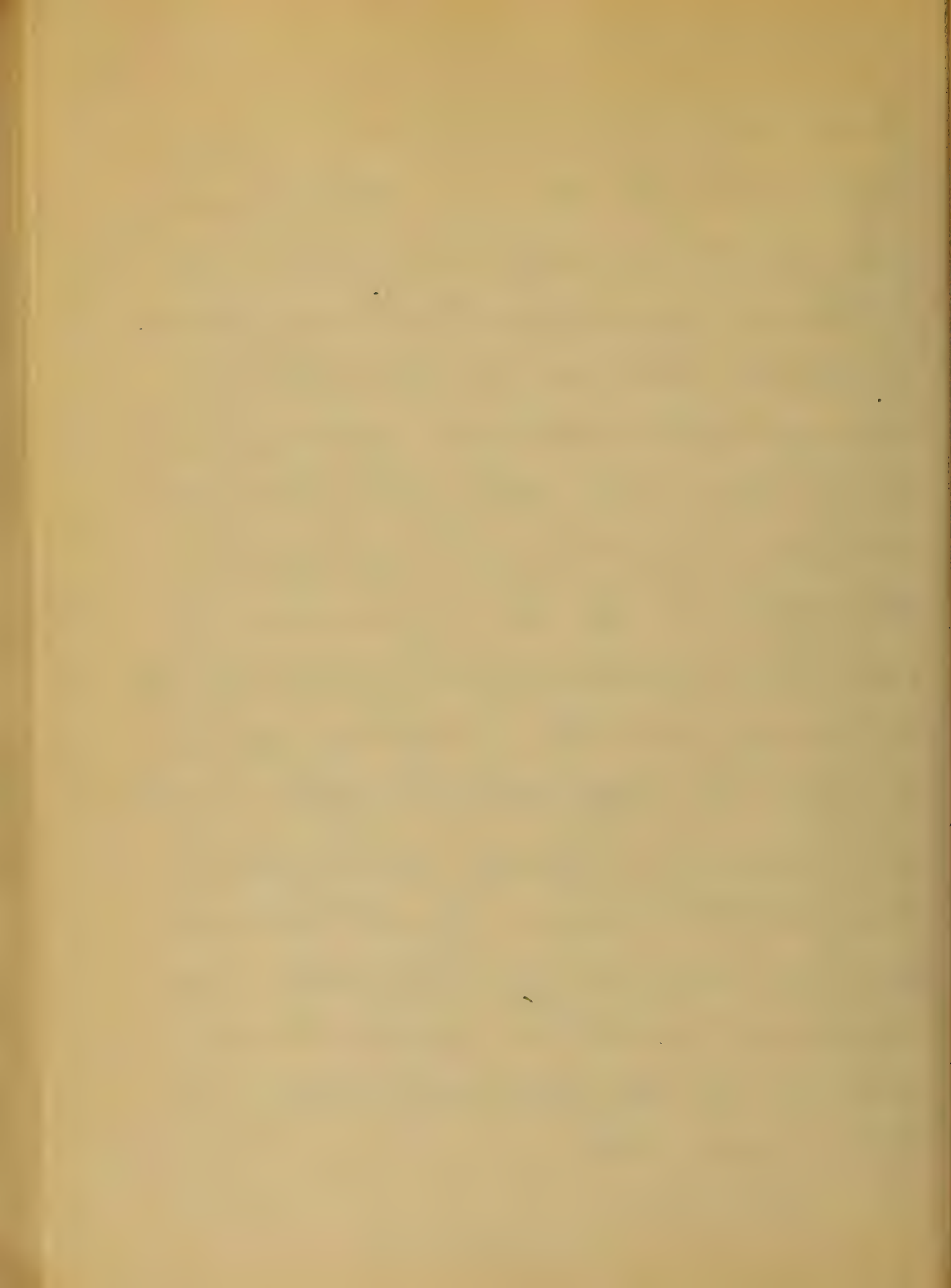


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pneumonia, & invade the bronchial
lobes; so that, when bronchitis is pre-
sent, it may be considered as primary
to the pneumonia, or simply
accompanying it as an accident. There
may be bronchitis in the affected
lobe or lobes, as a necessary conse-
quence of the inflammation.

Along with other things, there
appears to be certain laws which
govern pneumonia. There is always
a whole lobe affected and the
lower lobe seems to be the one
most commonly chosen. The right lung
is oftener affected than the left. There
are exceptions to this rule the upper
lobe may sometimes be the chosen



But cases of this kind are very rare. The disease may attack a single lobe, or it may invade one lobe, or three in succession. Or it may invade a whole lobe on each side. In this case, the disease is called double. The portion of the lobe first attacked is variable. It may attack the upper or the lower portion of the lobe; and the part first affected may be either deep or superficial. The diffusion of inflammation is often very rapid, occupying only a few hours. In other cases, may require days. Physical examinations, made at short intervals, will enable us to ascertain the part, time occupied.



Chronic Phlegm

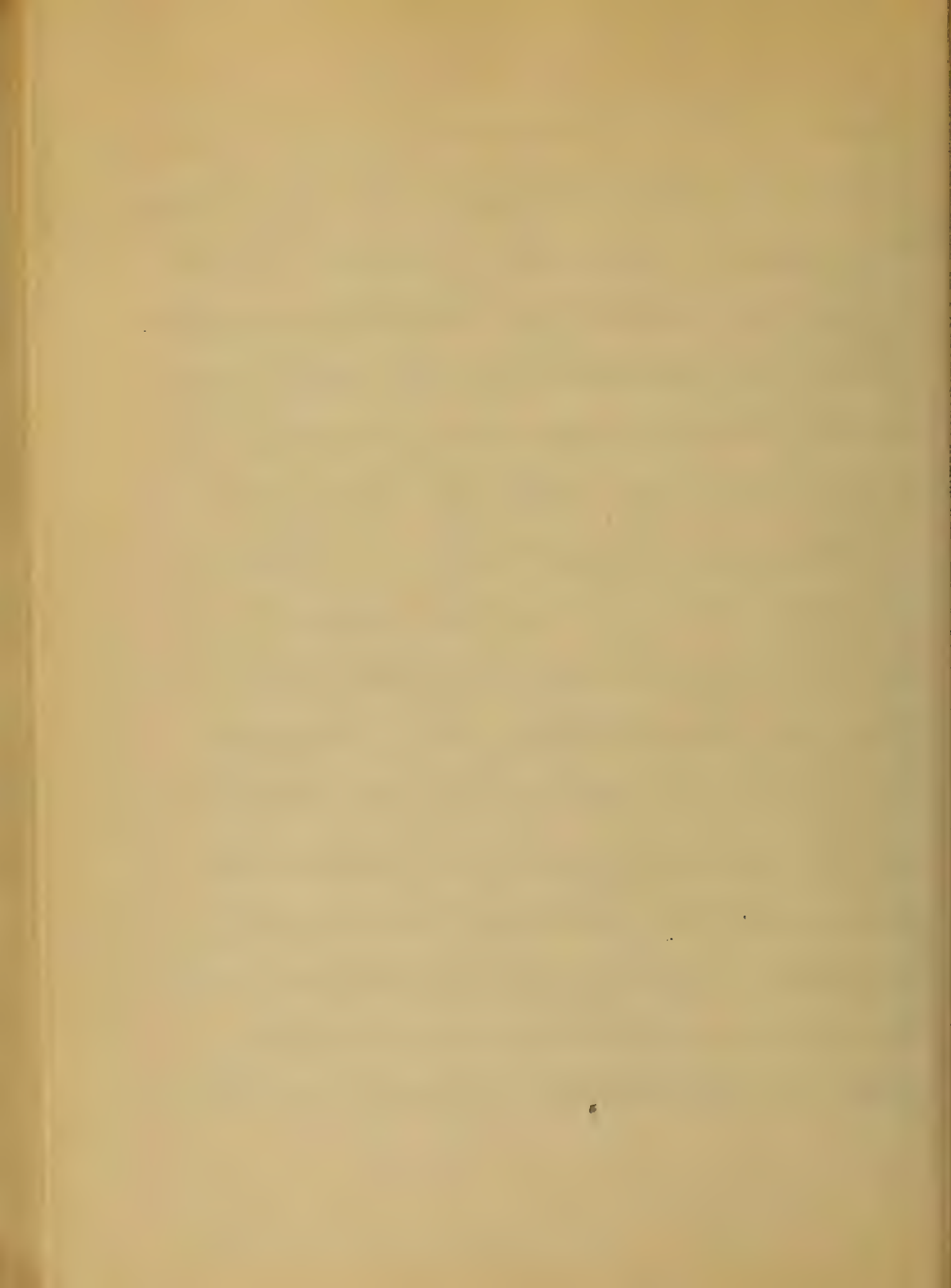
Some lobes pneumoniae is divided into three stages. The first stage occupies a time in which the lung is in a state of active congestion.

This is called the stage of engorgement, the disease has reached its second stage, when the lung has become solidified by the exuded matter. This is called the stage of solidification, or hepatisation.

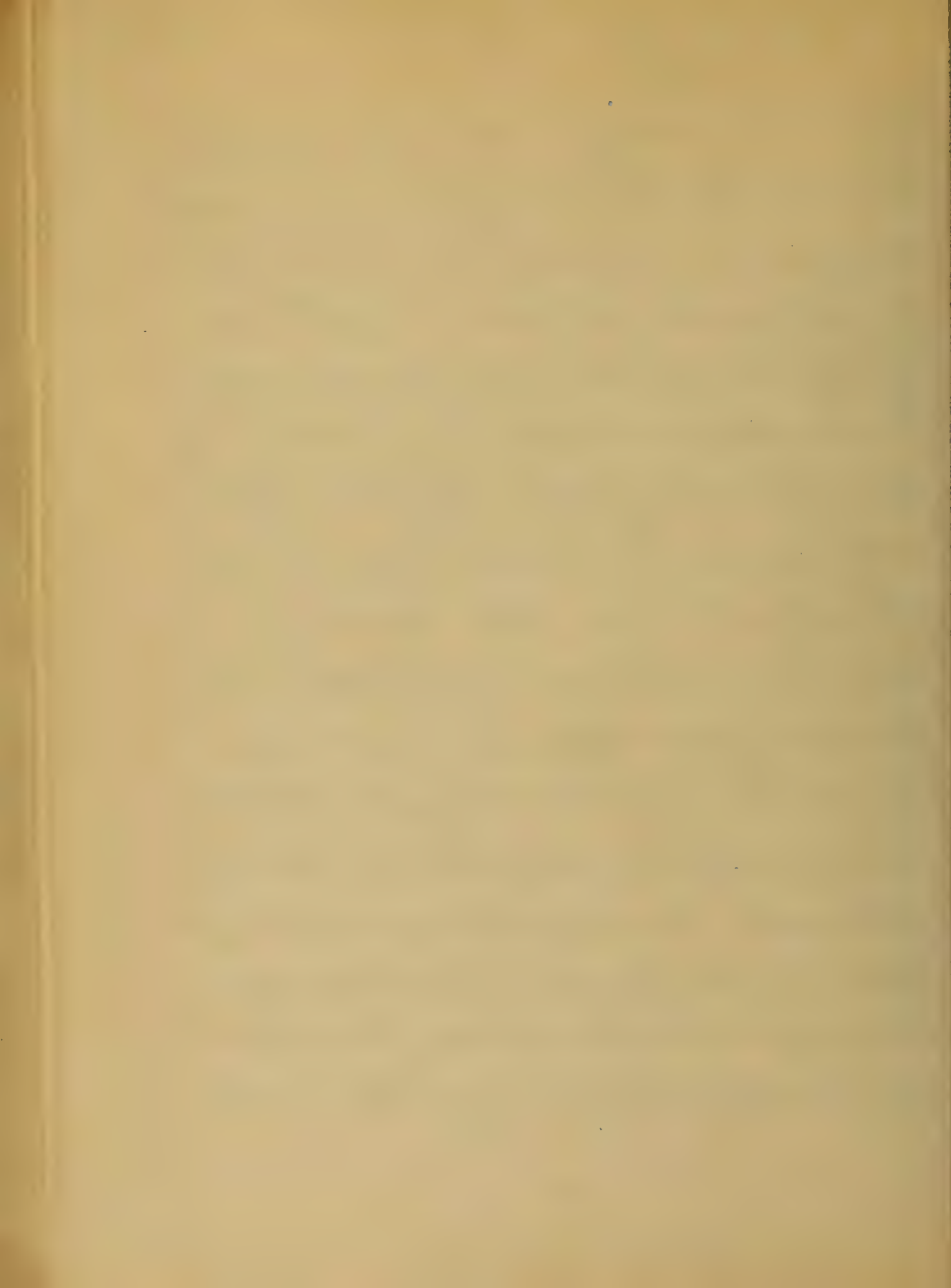
In the third stage, the lung will be found in one of two conditions:

If the disease pursue a favorable course, absorption of the exuded matter takes place, and consolidation is sometimes very rapid.

This is called the stage of resolution.



If the disease passes an unpropitious course, the third stage is one of great duration and may thus be called the stage of protracted infiltration. If this occur, the disease generally terminates in death. The duration of the different stages differs in different cases. The first stage may occupy only a few hours, or it may last for several days. It generally occupies from 12 to 18 hours. The second stage, or stage of solidification, may be of short duration, or it may take one, two, or three days—some times occupying a much longer time. These facts are exceptions to the general rule.



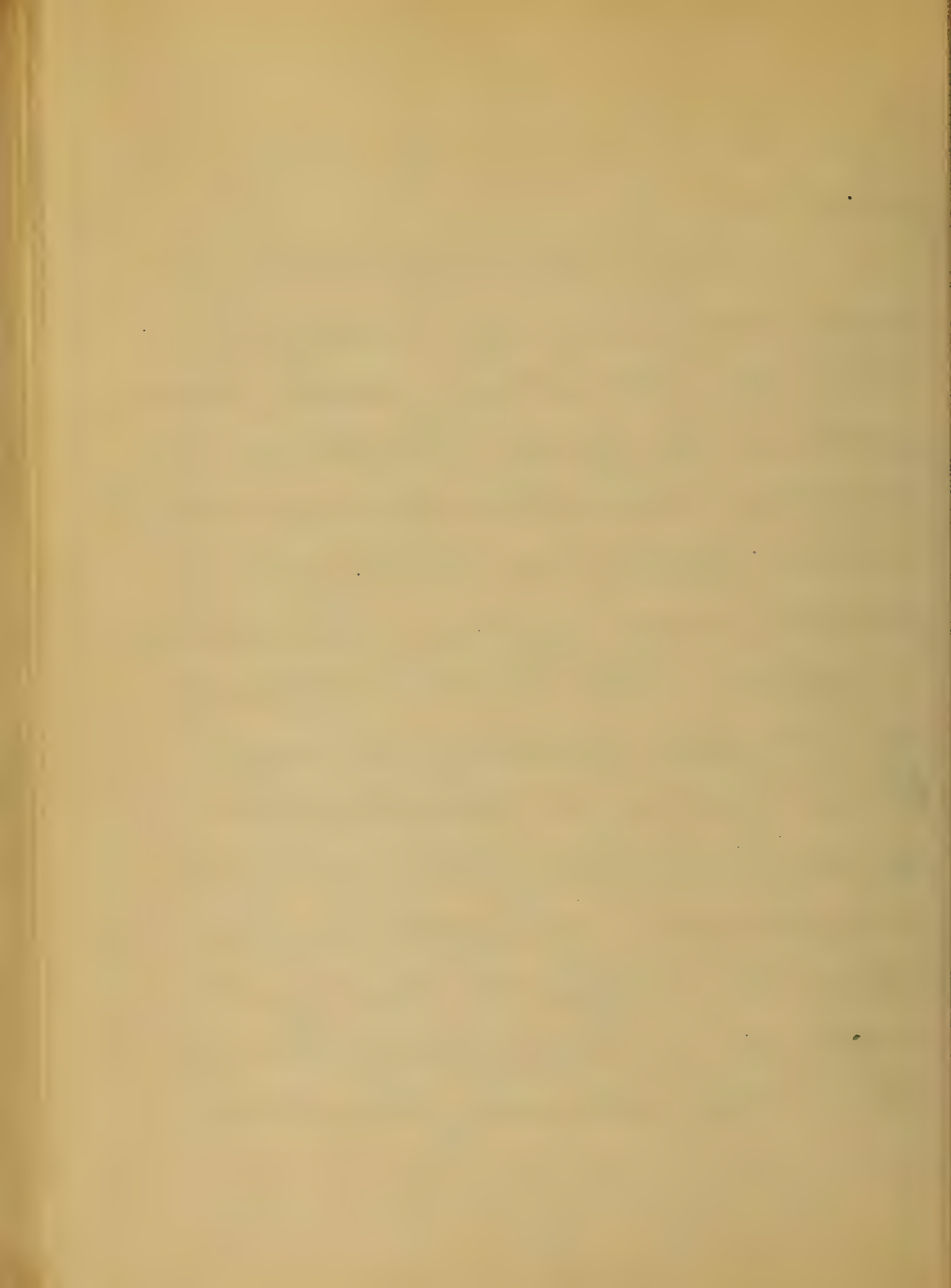
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The majority of cases occupy from
one to four days. The stage of resolu-
tion is variable, as regards the time
occupied in the removal of the so-
lidified deposit. It rarely remains
in less than four days, though
there are cases on record, in which
it has been removed in a much
shorter time. The time for its re-
moval may occupy eight or ten
days, and sometimes may require
a much longer time before the
uric cells are restored to their
normal condition. If the disease
pass into the purulent stage, its
course is very uncertain; and if it
does take place, it may be rapid

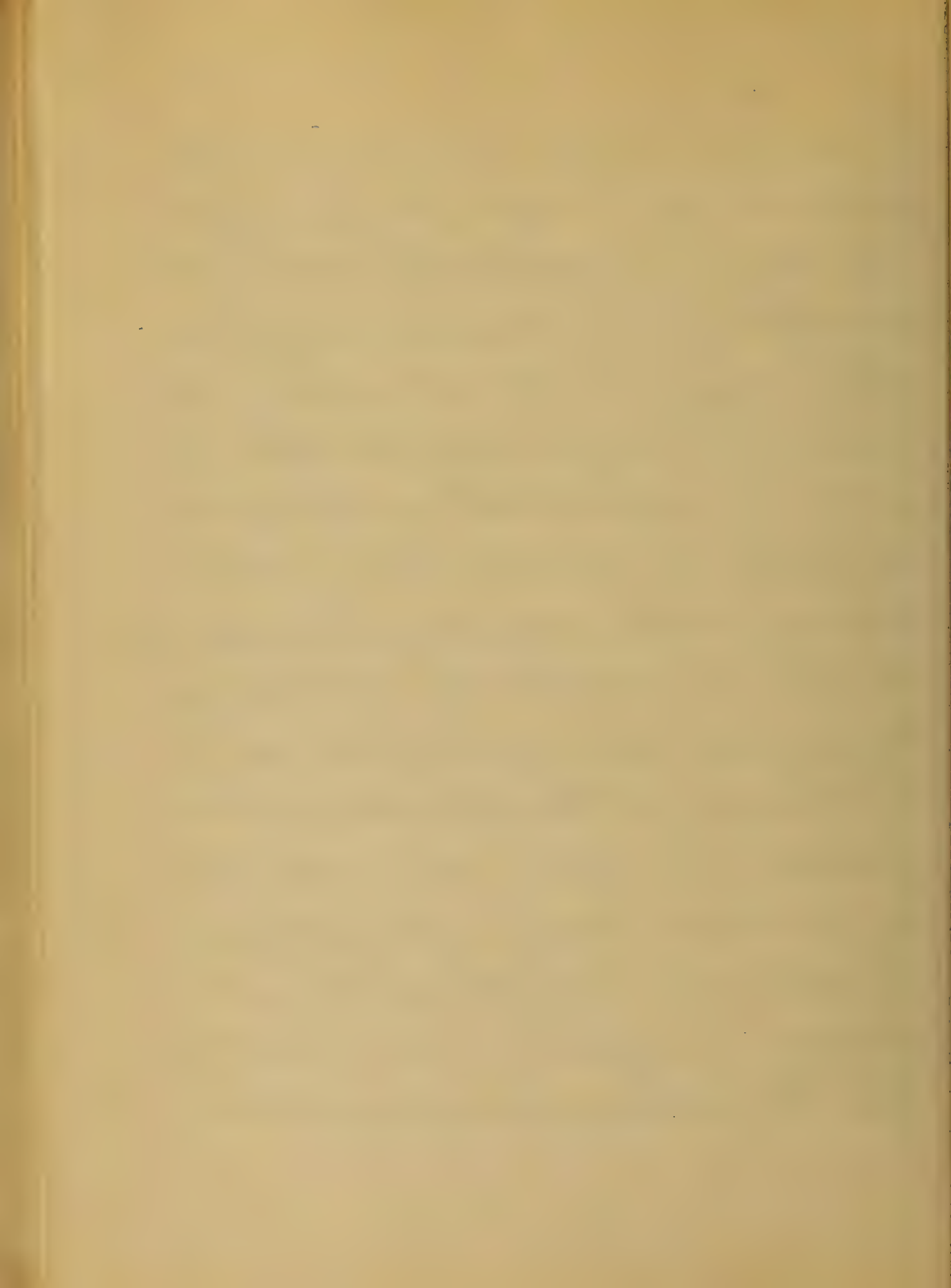


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before the lung resumes its normal
function.

Acute pneumonia is generally ushered in by a chill, more or less pronounced, frequently accompanied with rigors. The thermometer placed in the axilla shows a marked rise in temperature, although the patient may experience a sensation of coldness. The invasion is generally abrupt, often occurring at night. Accompanying or rapidly following the chill, we have pain, often well circumscribed in character, and felt about the nipple; or it may be diffused, radiating and lancinating. This indicates pleuritic



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a complication. The pain is in pro-
portion to the plural surface affect-
ed. Cough is generally present, but
not always. It causes uneasiness
often, owing to the coexisting pleu-
ritis. The cough is often accompa-
nied by expectoration. The sputum
at first is transparent and watery,
and very often assumes a rusty col-
or. This is called the rusty ex-
pectoration, and, when present, is
considered pathognomonic of the
disease. The rusty color is produced
by the blood being intimately mixed
with the mucus, matter in its
passage through the bronchial tu-
bes. The adhesiveness is such, that



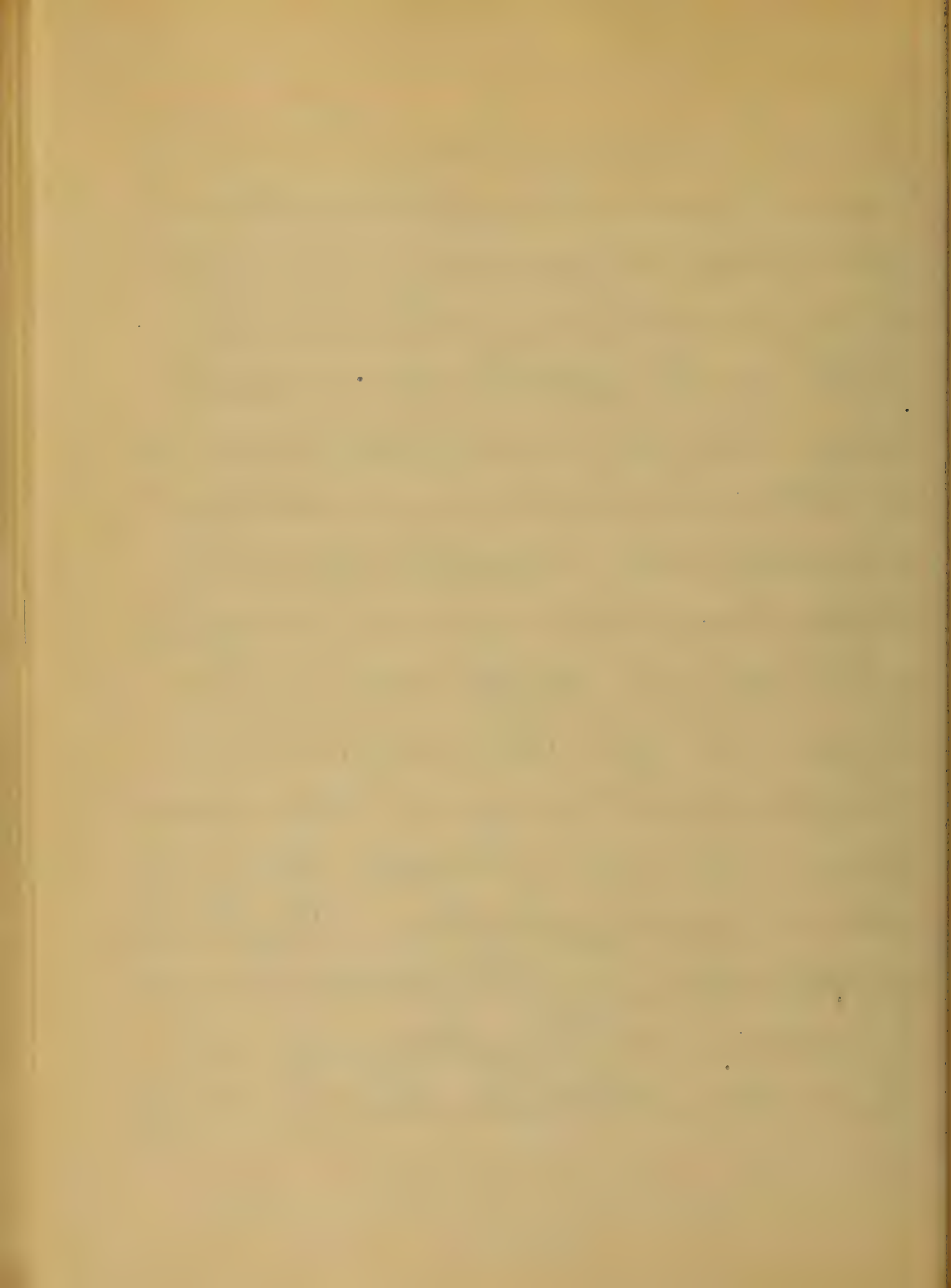
when it is placed on a dish, it will
 remain when the vessel is inverted.
 The expectorated may be of a sim-
 itransparent or yellowish color,
 without the red tint. Sometimes it
 contains blood in abundance, and
 is then known as the purple-jiced
 expectoration. In some cases of pu-
 eumonia, the expectoration may
 be entirely wanting. General pros-
 tration is usually experienced with
 the invasion of the disease, accom-
 panied by fever. In connection
 with this we have pain in the head,
 loss of appetite, and great thirst.
 The pulse may rise from 80 to 120
 beats per minute. The temperature



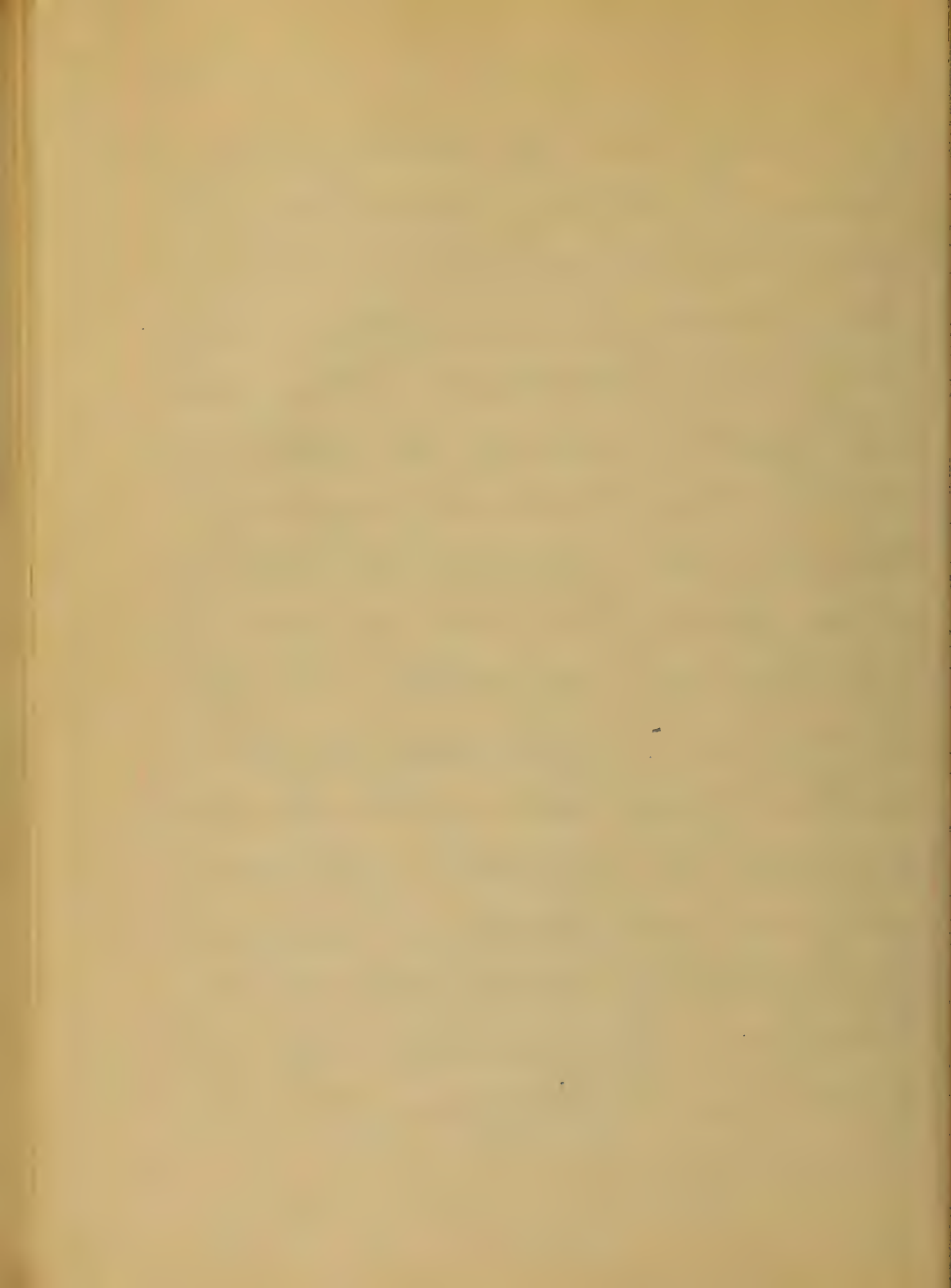
placed in the arilla, shows a rise in temperature, from 102. to 104° F. The temperature rising above this is very unfavorable. The respiration may be increased, owing to the existence of pleuritis, & to obstruction in the diseased lung, preventing the proper aeration of the blood. During the stage of solidification the symptoms change. If pain has existed, it generally disappears, the cough at first dry, now becomes less hard and painful, and expectoration is performed with much greater ease to the patient. The matter thrown off loses its rusty color, becomes adhesive, and



quantity in abundance. It may
now be called the expectoration of
resolution, or resolving bronchitis.
It is furnished by the bronchial
tubes in the affected part of the
lung. Should a new lobe be invaded,
it may be known by a chill and
a sudden rise in temperature. The
respiration becomes more rapid
and extreme dyspnoea may
ensue. The febrile movement is
increased, but may be less intense
than before the invasion, owing to
the incomplete prostration. Cough and
expectoration may be present, or may
be absent, and the pulse may be
but little disturbed. These symptoms



will be equal to us double pneumonia.
During the stage of resolution, the
symptoms derive improvement—
the febrile movement diminishes
enough and expectoration becomes less;
the appetite returns; the respiration
resumes those normal frequencies,
the strength increases, and recovery
is complete. If the disease pass into
the stage of suppuration, the pulse
becomes very rapid and feeble,
matter expectorated is abundant and
purulent; the respirations become
frequent and shallow; the strength
of the patient fails; and death
takes place by the weakening of the
vital powers, blocking of the

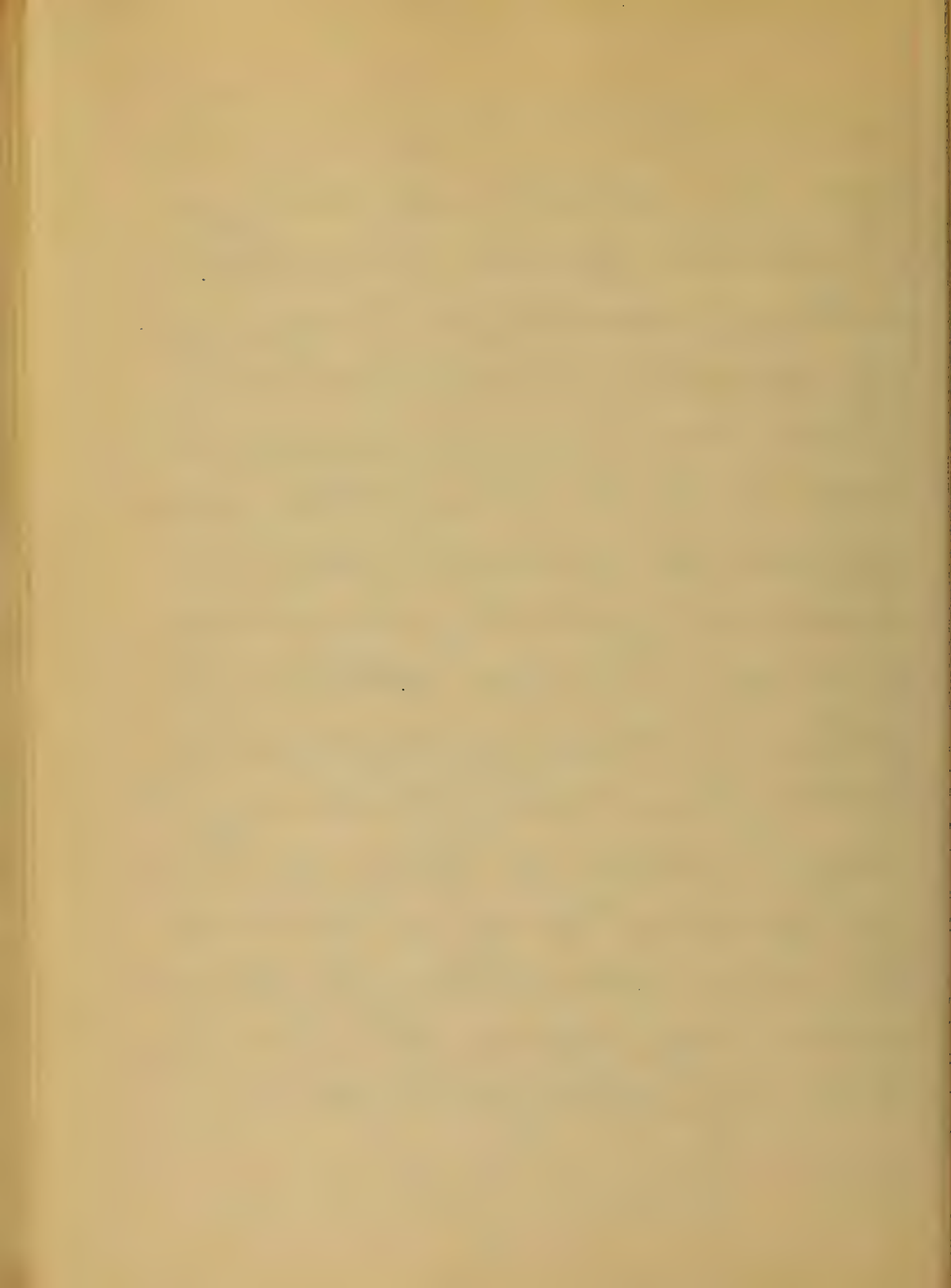


branchial tubes, by an accumulation
of mucous purulent matter, may also
contribute to a fatal result. The
urine affords important indications
as regards the progress of the disease.
During the stage of exudation, the
chlorides are diminished, or may be en-
tirely absent. They may be detected
in the expectorated matter, & return
of the chlorides to the normal stan-
dard, denotes convalescence. The
held good in all inflammatory disor-
ders. The mucus is often deposited
in abundance, and then denotes a
destructive assimilation. Albumen
may be found in small quantity in
the urine, probably owing to churning

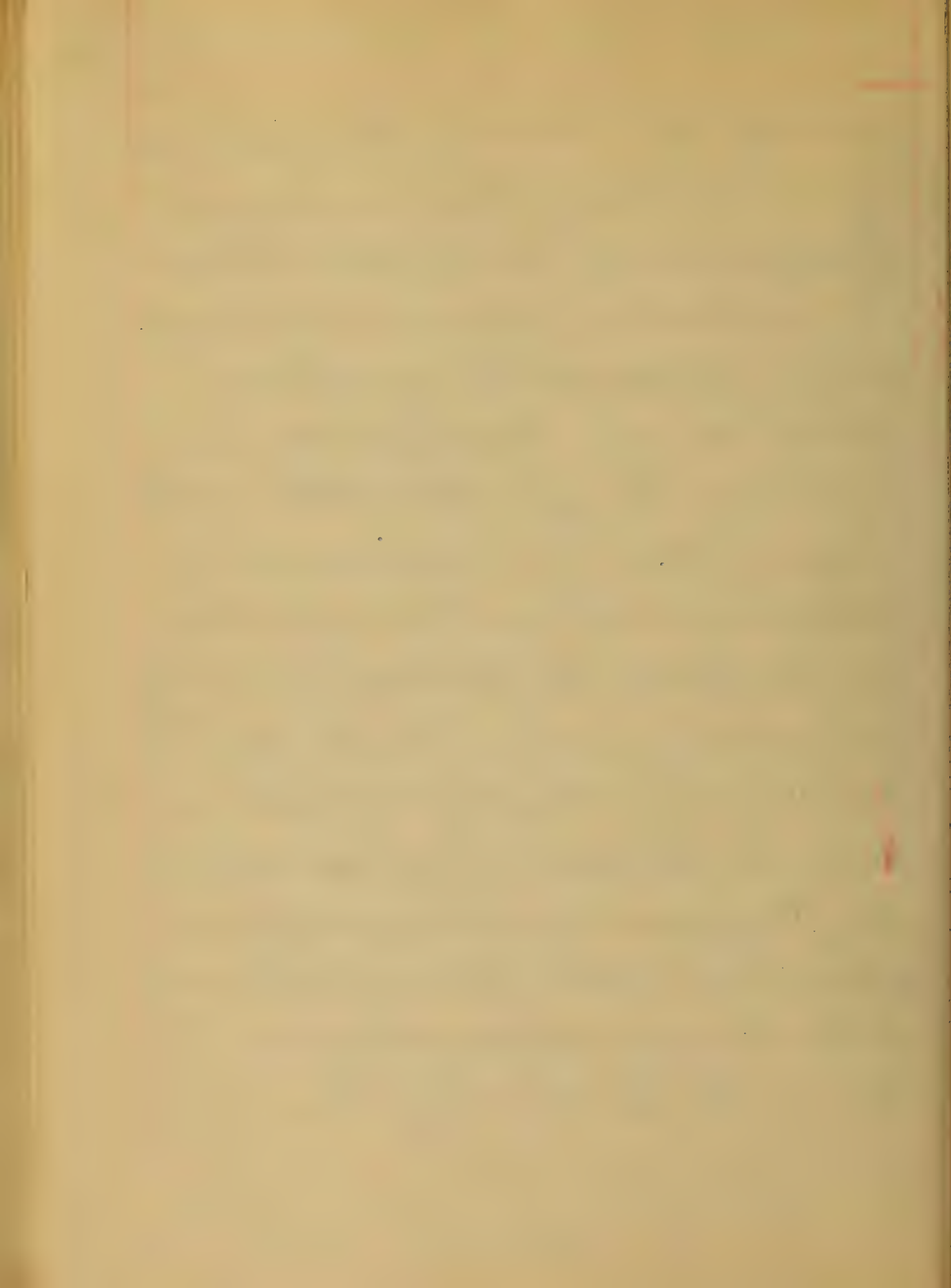


back of the blood, caused by the
absorption of fluid to its passage
through the affected lung. If found
in large quantity, we may sus-
pect coexisting renal disease.

A delirium may be present. It
may be of the low, muttering var-
iety, which indicates the form
known as typhoid pneumonia;
or, it may be more active, the
patient endeavoring to get out of
bed, restraint being necessary to
keep him from doing so. These
symptoms, if long continued,
are very unfavorable. Slight jaun-
dice may appear. The liver may
be enlarged, owing to the staining



back of the blood in the right ven-
ity of the heart, thus causing an
engorgement of the systemic veins.
The existence of gangrene and ab-
cess is followed by symptoms
which denote their presence in
the lung. The pus collected in the
lung leads to a copious and
sudden purulent expectoration.
If the life of the patient be prolong-
ed, recovery may take place. The
existence of a cavity in the lung
may be detected by physical sig-
ns. Gangrene may be suspected,
when there exists extreme fetor, owing
to the decomposition going on in the
lung. Gangrene is very rare and,



almost always proved fatal.
 Pneumonia may be associated
 with intermittent fever, in malarial
 districts, and is often very dangerous.
 The malarial fever may obscure
 the pulmonary disease, and, in turn,
 the pneumonitis may present the
 periodical paroxysms of interm-
 ittant fever. Pneumonia attack-
 ing the intercostate may produce
 delirium tremens. The complicat-
 ion is always serious. A well mar-
 ked fall in temperature often
 precedes a fall of the pulse. The re-
 atement of all the symptoms
 in an uncomplicated case, if
 it pursue a favorable course,

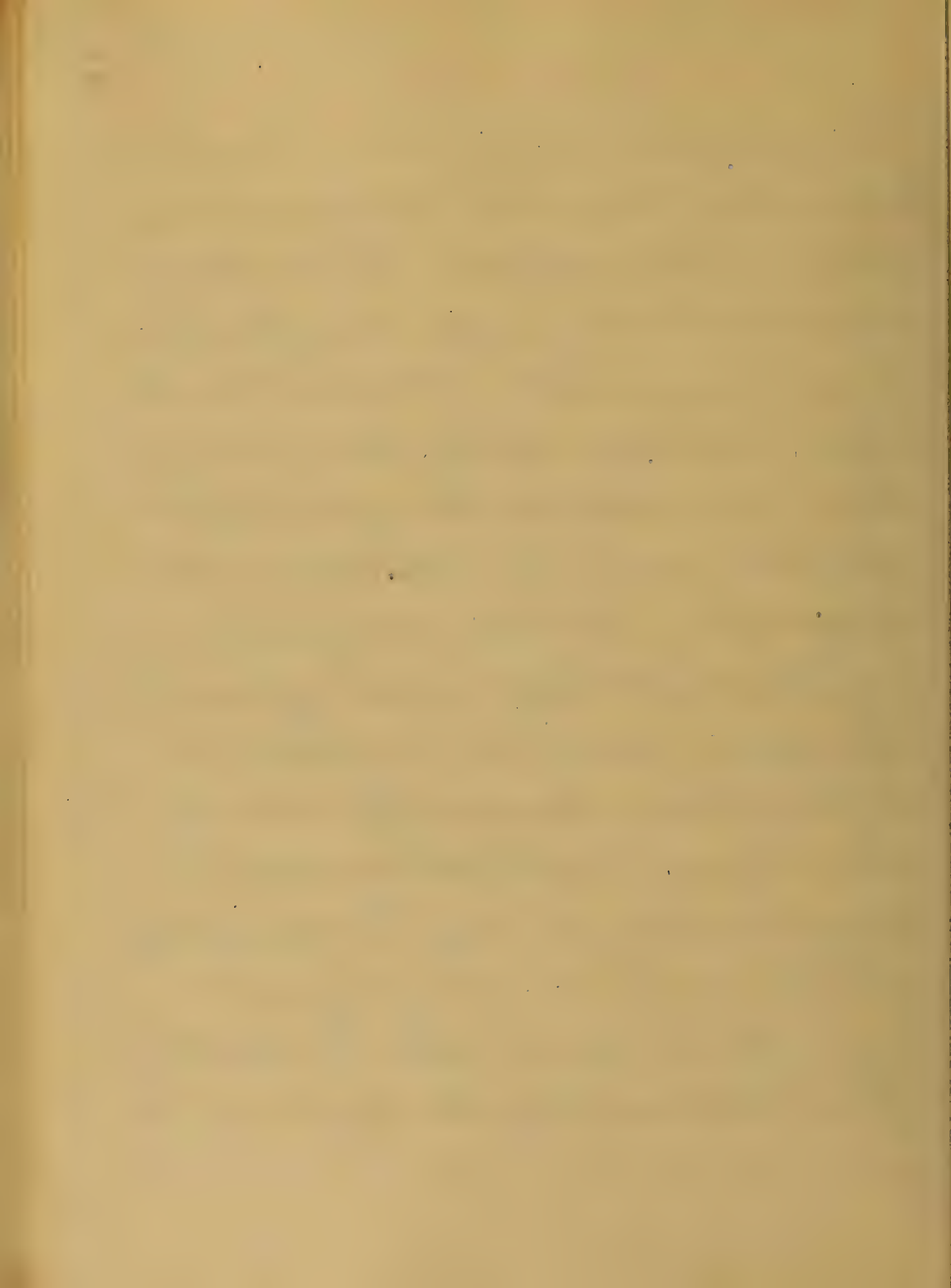
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to very rapid. The pulse during
convalescence may fall below the
normal rate. On some cases it
falls as low as 60 beats per minute.

Pathological Characters.

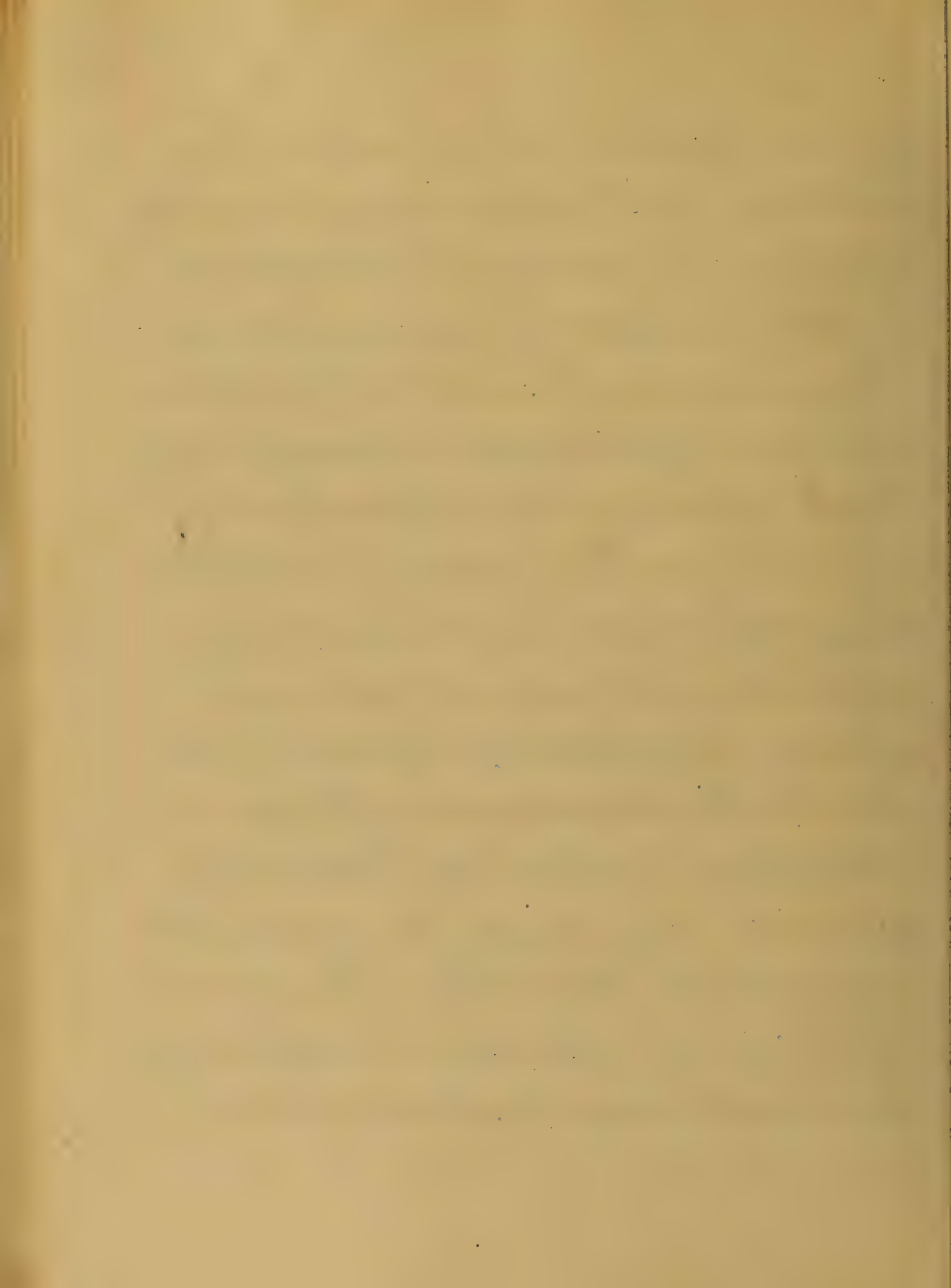
Acute pneumonia is an inflammation
affecting a mucous tissue, but
differing from the membrane lining
the bronchial tubes. As regards
anatomical structure and function,
the exudation of pneumonia does
not become organized, as in
pleuritis. Neither is it consolidated
and expectorated - in this respect
differing from the exudation of
lymph on other surfaces. The



proved matter is subjected to some form
stimulating branches of the pulmonary
artery. Causation. There does not
appear to be any age exempt from
acute pneumonia. We find it rather
often in children under five years of
age; but, between the age of five
and ten years, the disease is not
frequent. Between the ages of
eighteen and thirty cases appear to
be most common. Exposure to
atmospheric changes appears to be
the cause of acute pneumonia in
a great many cases. Presumably,
both wet and cold exposures
are liable to an attack. Intermittent
fever has been thought by some to be

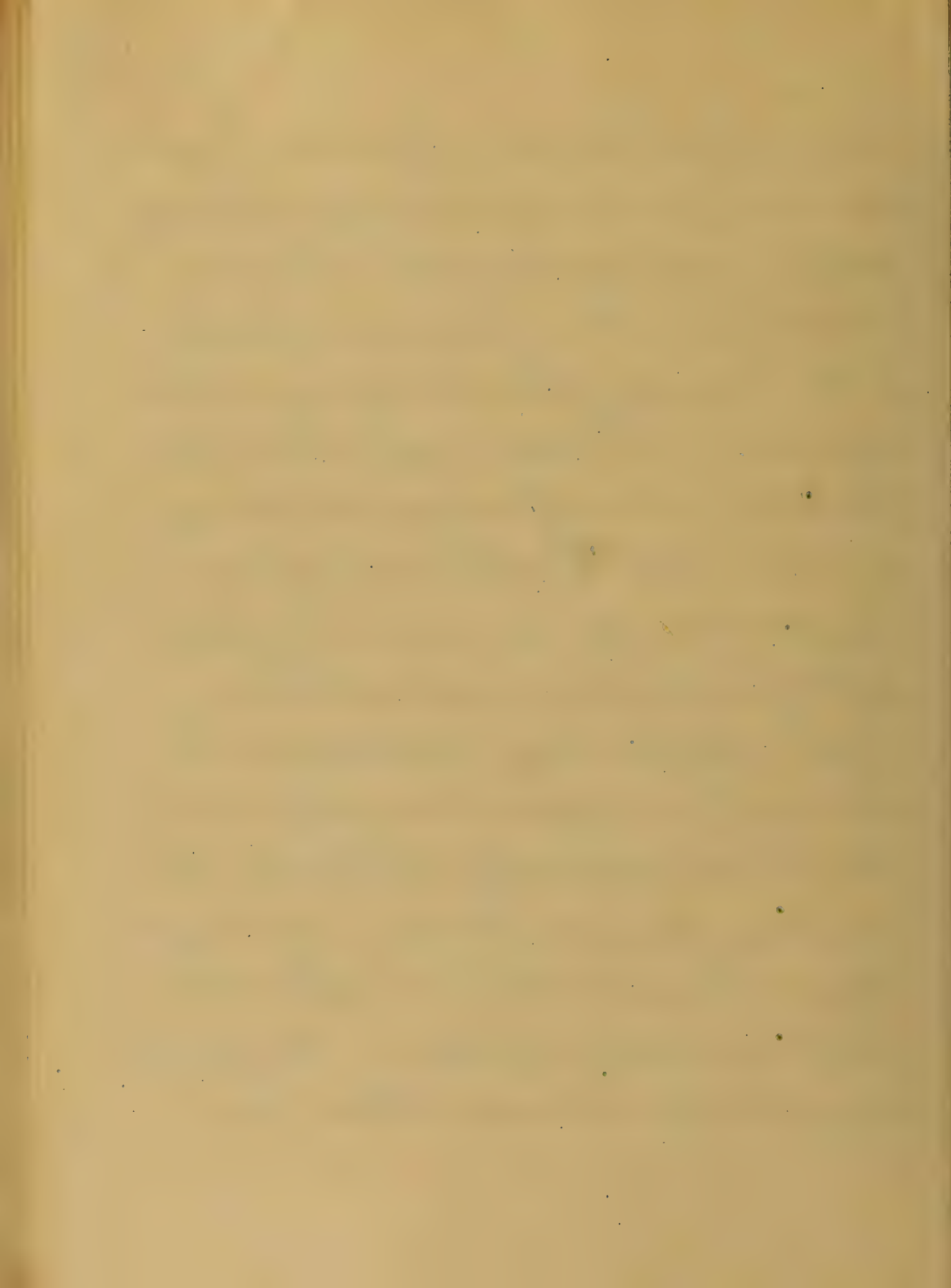


a peculiar cause, while most
doctors think that there is but
one, or the part of intermittent
fever, to produce pneumonia. And
the same may be said of bronchi-
tides in reference to intermit-
tents. Each appears to be dependent on
its own peculiar cause. Intem-
perance appears to be an exciting
cause. A great many of the cases
seen in hospitals have followed a
haunch. The disease occurs oftener in
males than in females. Tubercular
persons do not seem to be more liable
to an attack than others. This is proved
by the fact, that when it does happen
in such cases, it selects a lower

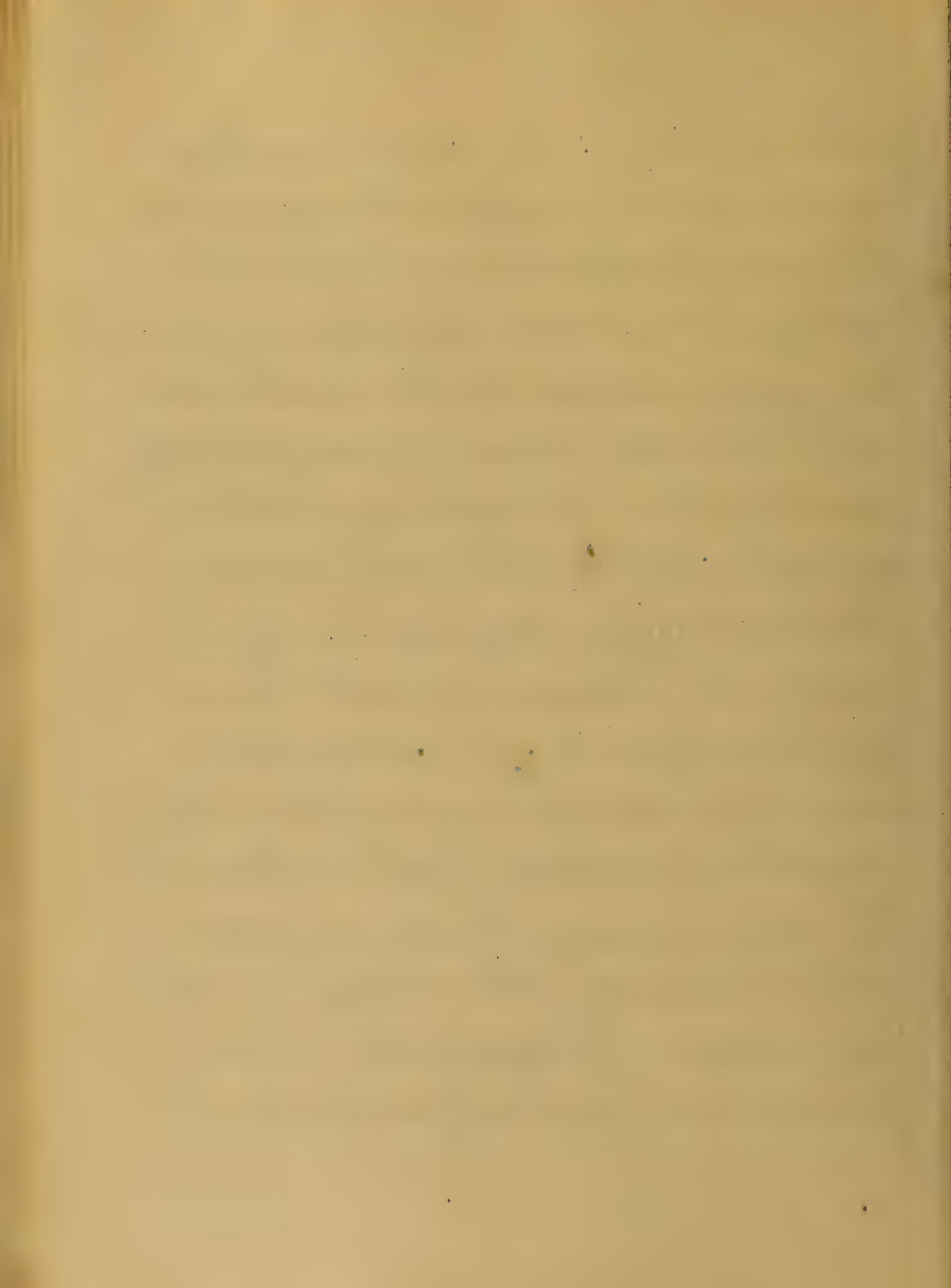


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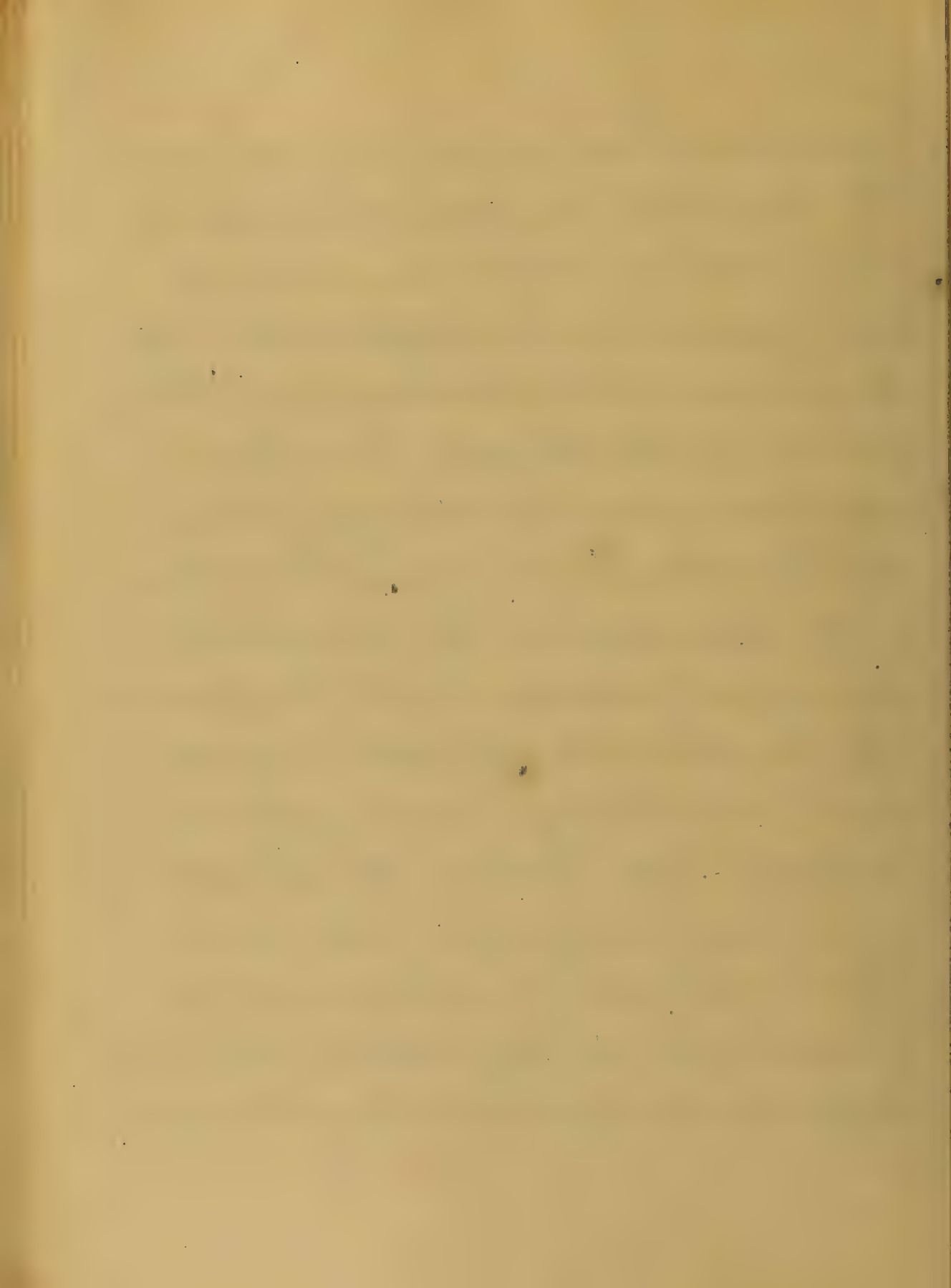
labor rather than an effort, and
are very rare in persons affected with
asthma, emphysema, and chronic
pleuritis, so that persons troubled
with these complaints enjoy natural
immunity. The same may be said of
those affected with organic disease
of the heart. Pneumonia often ex-
ists, as a complication, in typhus
and typhoid fever, and erysipelas.
Some suppose that diseases of the
kidneys predispose to an attack but
this is not generally believed. It
occurs in certain seasons of the year
more than in others. In the northern
states it visits often in the spring
months than at any other time.



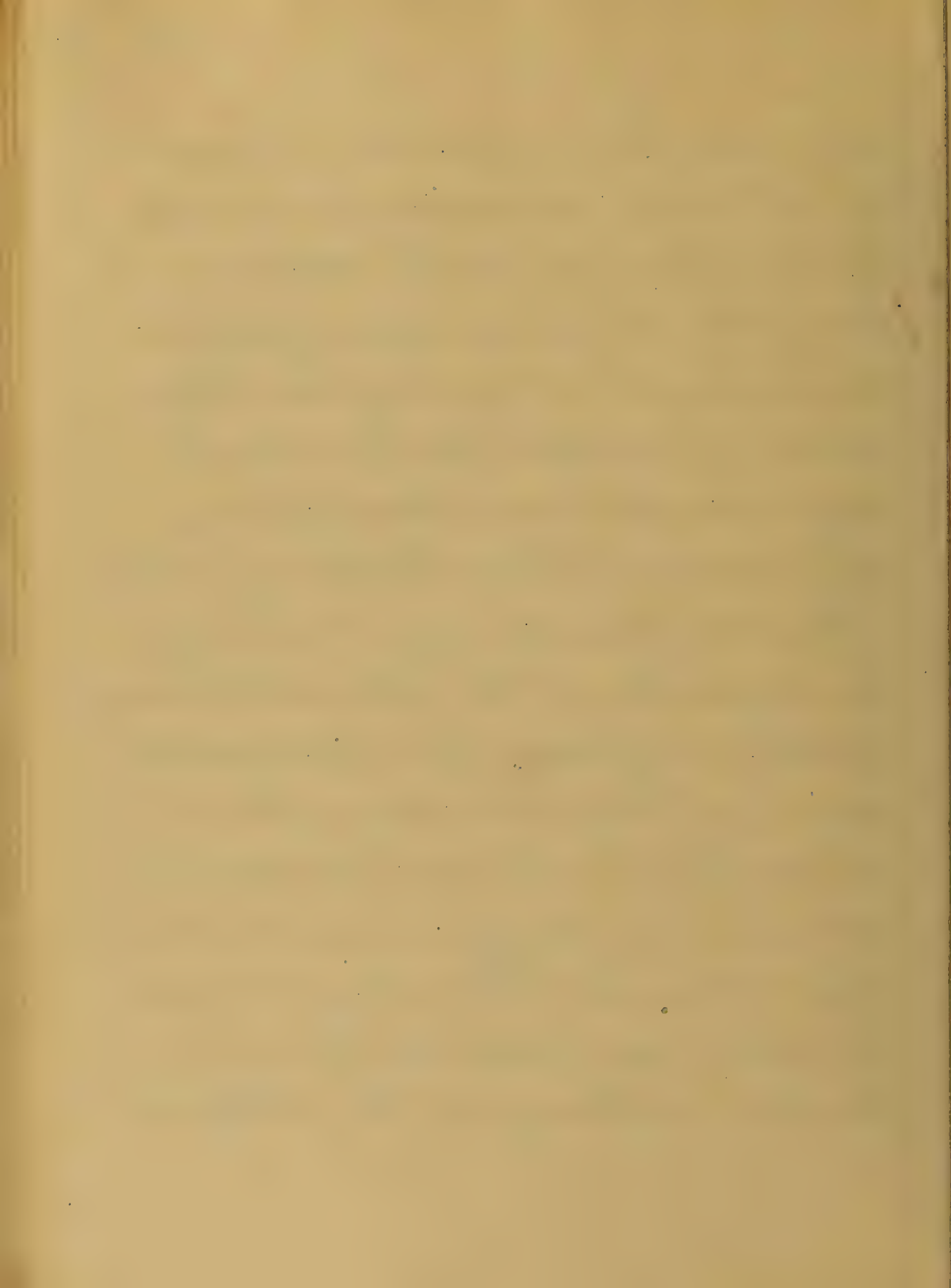
while in the south it comes attended
in the winter months. It appears to
be more prevalent some years than
others; and prevails to such an extent
in some sections of the south as to
be ^{an endemic} endemion. Some years there ap-
pears to be a tendency to attack
an upper lobe. At such seasons
the mortality is very great. In the
south the disease seems to have
a tendency to invade more than
one lobe and thus we find the
mortality greater than in the north.
The disease may be developed
spontaneously, there being no obvi-
ous cause. Diagnosis. Acute
tuberculosis is readily distinguished by



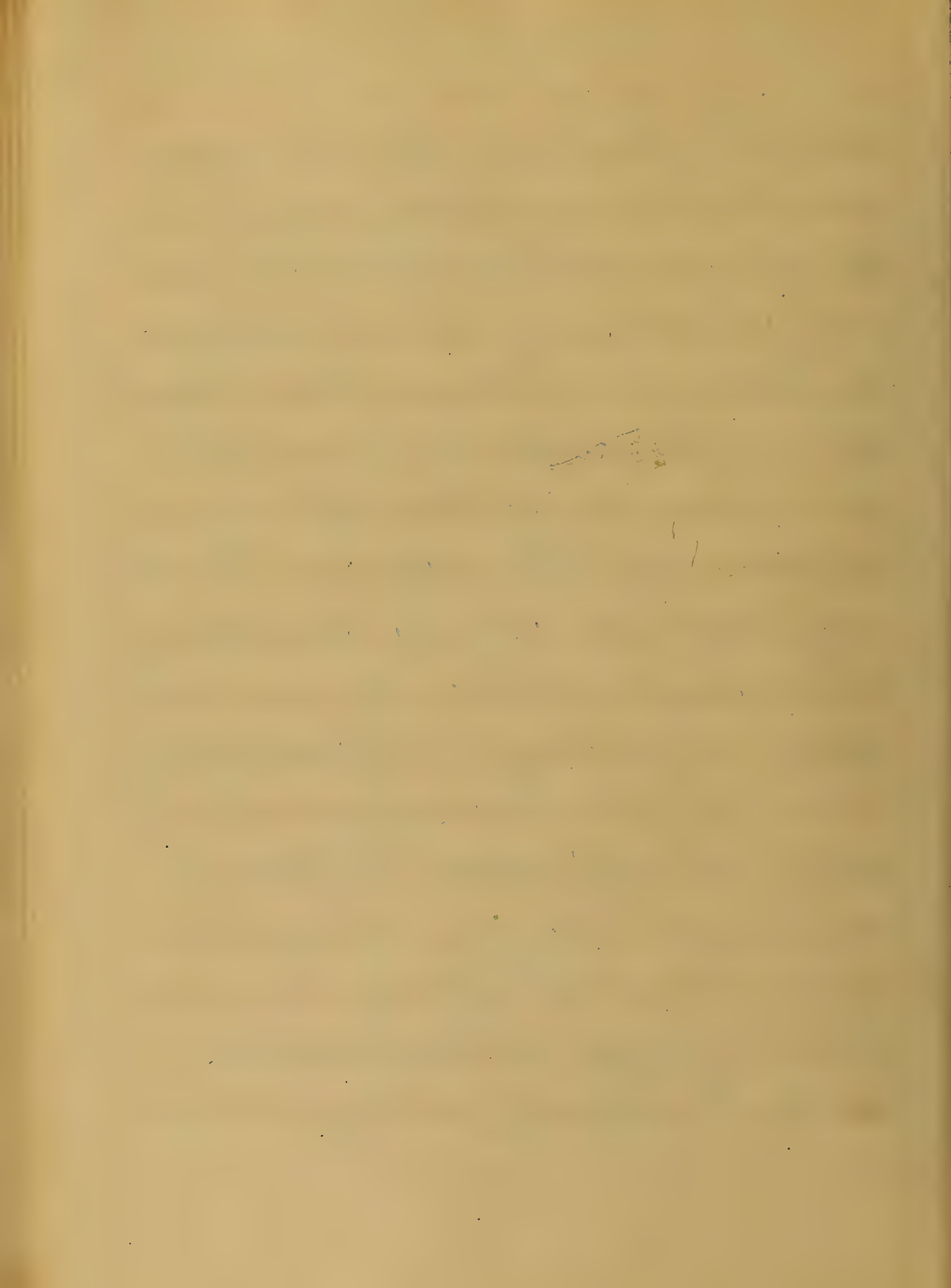
symptoms which are very common.
If the patient be seized with a chill
followed by febrile movements,
with pain about the nipple, and a rus-
ty-colored expectoration, it is pathog-
nomic of the disease. But these
symptoms are not always present,
and then we must resort to a phys-
ical examination. The first stage
has signs peculiar to it. On placing
the ear over the affected lung, we
hear a crackling sound, similar to
rubbing hair between the fingers,
or throwing salt on a hot stone.
This is called the crepitant rale.
It is heard in inspiration. The sec-
ond, or sub-crepitant rale, is heard in



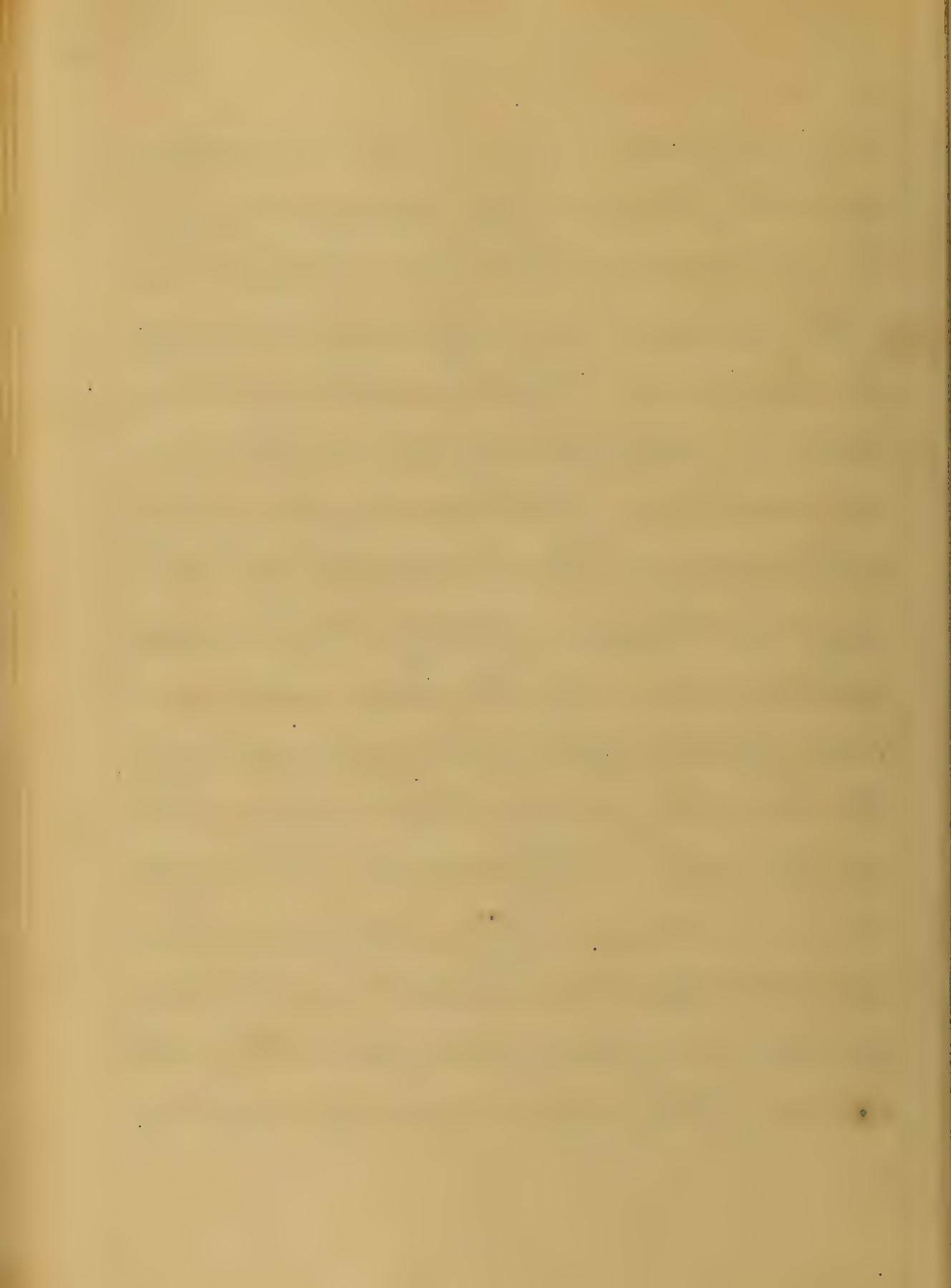
inspiration and expiration. There may
also be slight dulness or percussion.
As do not allow see the disease in
the first stage, it having passed
to the second stage before a phy-
sician is called. In the second
stage we find marked dulness
on percussion. Bronchial respiration
(Bronchophony) is first heard
over a portion of the lobe but becomes
rapidly diffused. The rales may
may exist in this stage, but it
is usually the dry and moist. Bron-
chial rales may be heard in this
stage also. The third stage, a stage
of resolution, is marked by signi-
ficant softening of the solidified



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matter. Bronchial respiration gives
rise to a bronchial vesicular sound,
and this generally assumes the nor-
mal vesicular murmur. Unless
on percussion becomes less distinct,
but slight dulness may continue
for a considerable time after the ex-
udation has been absorbed. The sub-
crepitant rale may be heard during
resolution, and the crepitant rale
often returns (crepitant rale
redur). If the disease pass into the
stage of supuration, the dulness
continues. There are moist bron-
chial rales owing to an accumu-
lation of pus in the bronchial
tubes. The signs of solidification

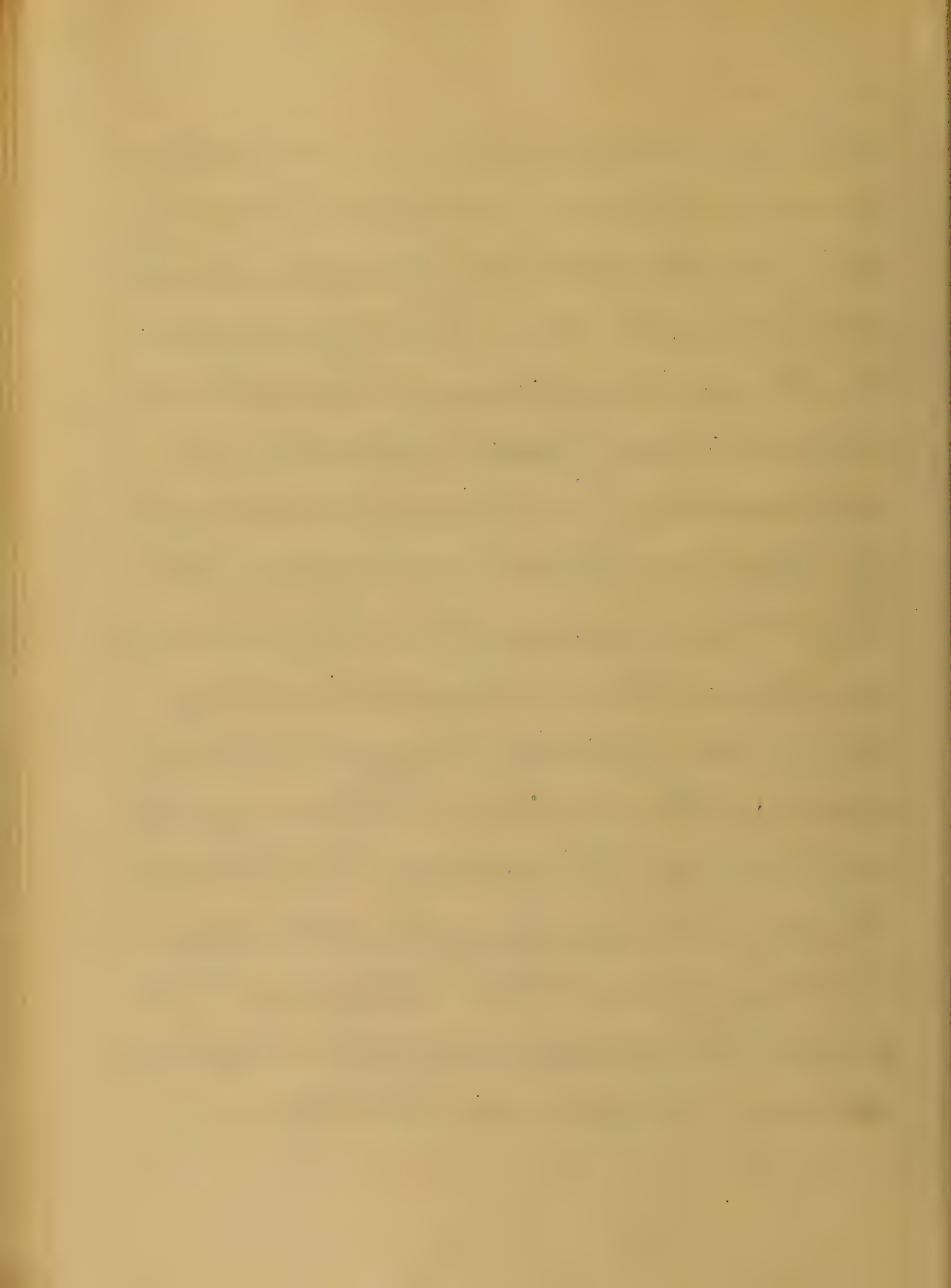


are less marked, and a transfusion
and the patient's life prolonged till
it is discharged into bronchial
tubes, numerous respirations may
be counted. Effusion taking place
may be detected by the presence of
signs such as, flatness on percussion,
obliteration of the intercostal spaces,
and the absence of vocal fremitus.
Contractions of the chest wall may
take place after the removal of
the liquid, owing to adhesions tak-
ing place. Prognosis—The prog-
nosis in cases of a self-limited pneu-
mia, will depend on the amount of lung
affected, complications and the resist-
tance of the patient. In these respects,



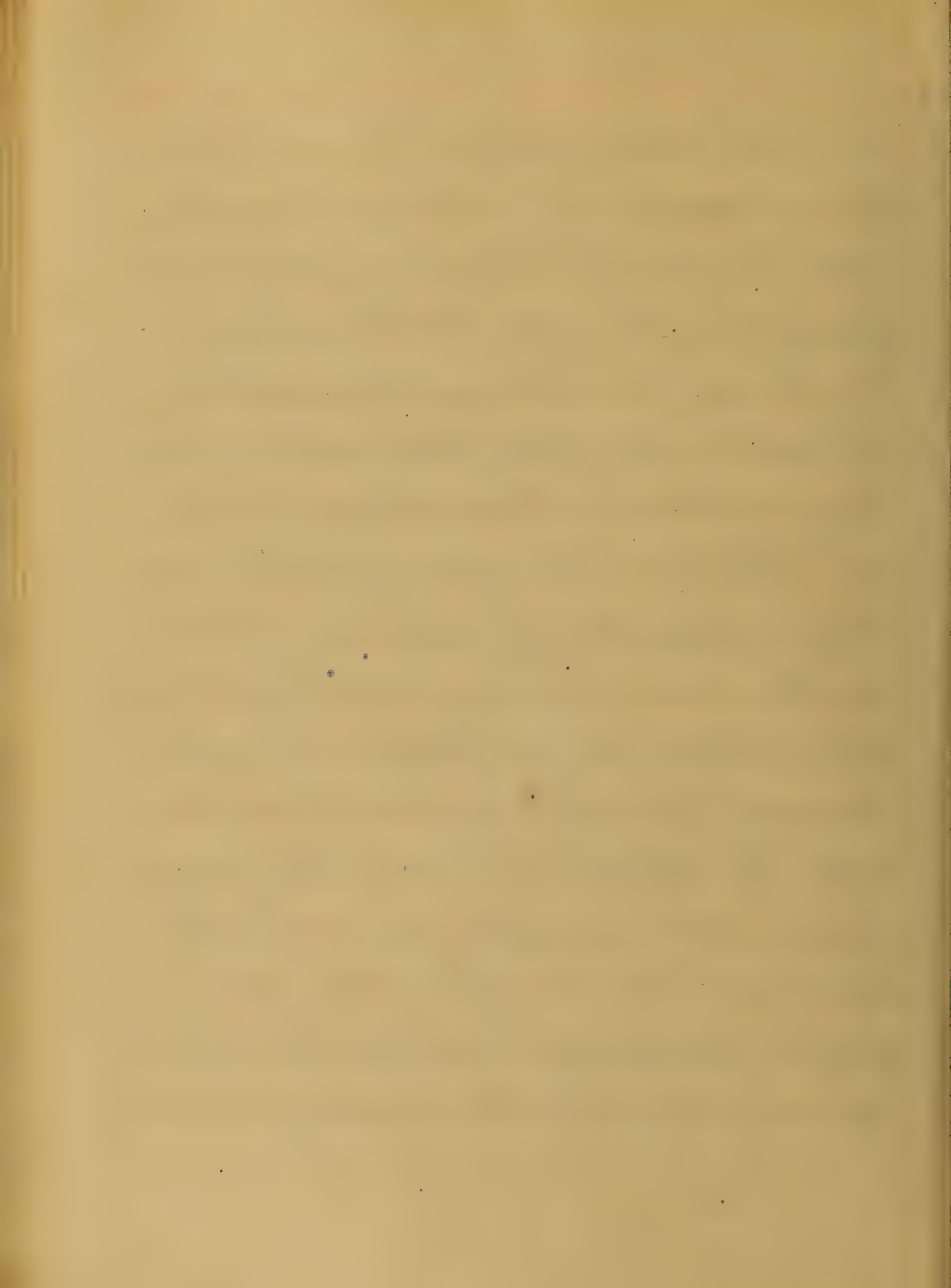
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different cases differ as much as though
they were different diseases. Considering
as a simple case of pneumonia, affect-
ing a lower lobe, there is an intrinsic
tendency to recovery. This is the rule.
When the whole lung is affected it is
unfavorable. It is also unfavorable if
the disease attacks an upper lobe.

But these cases, if uncomplicated,
are favorable as regard recovery,
unless the patient be overhauled by
age or other causes. The gravity dep-
ends, not on the disease itself, as much
as a co-existing affection, and
had hygienic surroundings. A recu-
ded in the course of continued fever
it may terminate fatally.



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Swaged and infected persons, when
this is ~~in~~ complication it usually
ends in death. Occurring in persons
affected with organic disease of
the heart, it is very dangerous, and
the pulmonary symptoms more severe,
Pleuritis, intercostal pain, fever
and delirium tremens, present very
unfavorable complications, and
renders recovery very doubtful, though
some cases may recover, danger
is much greater if more than one
lobe be affected. There is danger of
heart stop in several cases, when
an entire lobe is affected, owing
to the burning heat of the nervous
circulation, and the increased amount

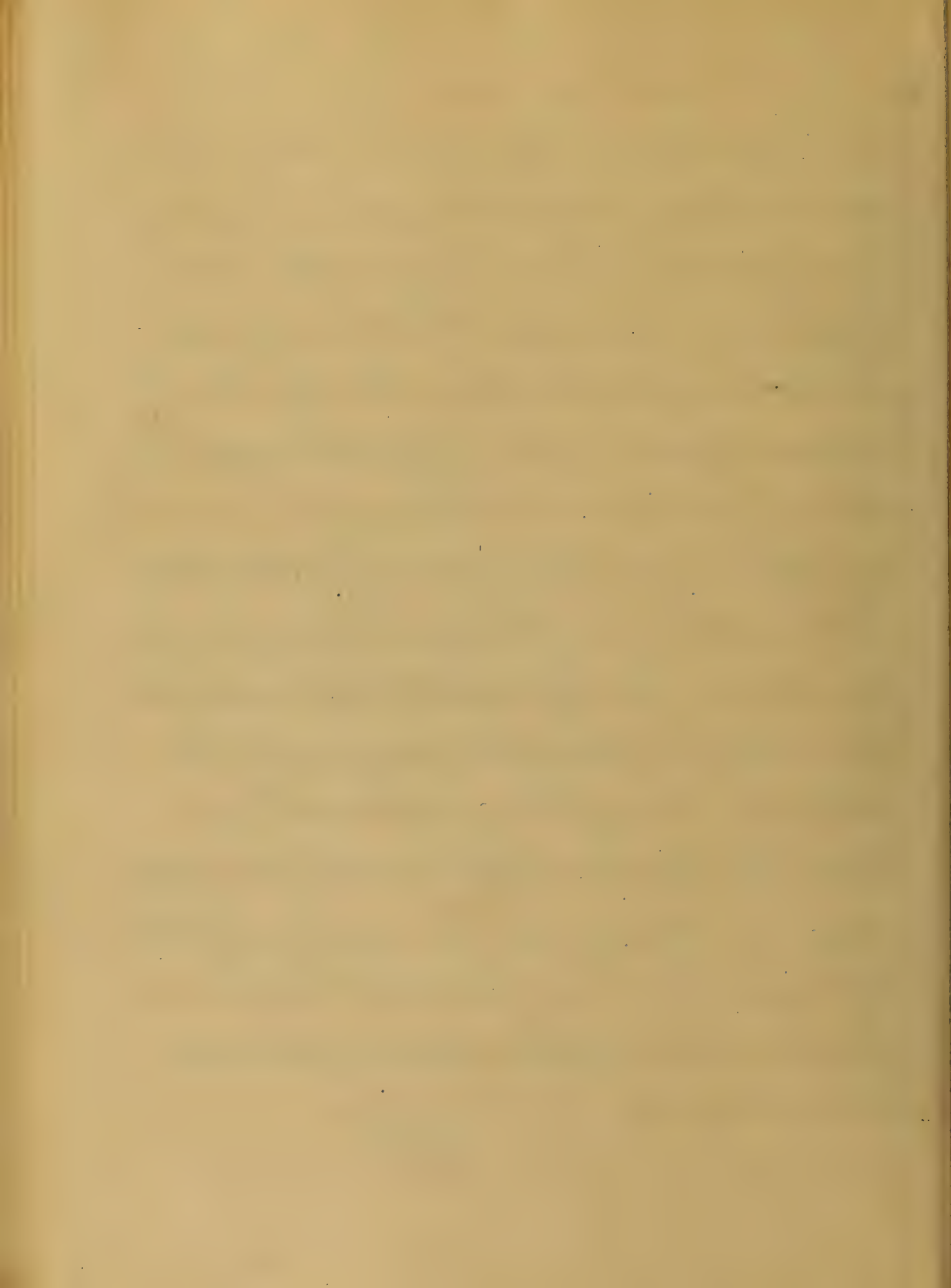


of fibrin in the blood, causing it to coagulate. This may be suspected if the disease has shown no improvement, changed by a sudden change for the worse. This change is shown by the increased action of the circulation, the respiration is labored, the countenance becomes anxious, expressions of impending danger, and patient speedily sinks into a moribund condition. In this case there is a new cardiac murmur developed. In most fatal cases of acute pneumonia, death takes place by asphyxia. It may take place by apnoea if two or more lobes become rapidly involved. The case in which the



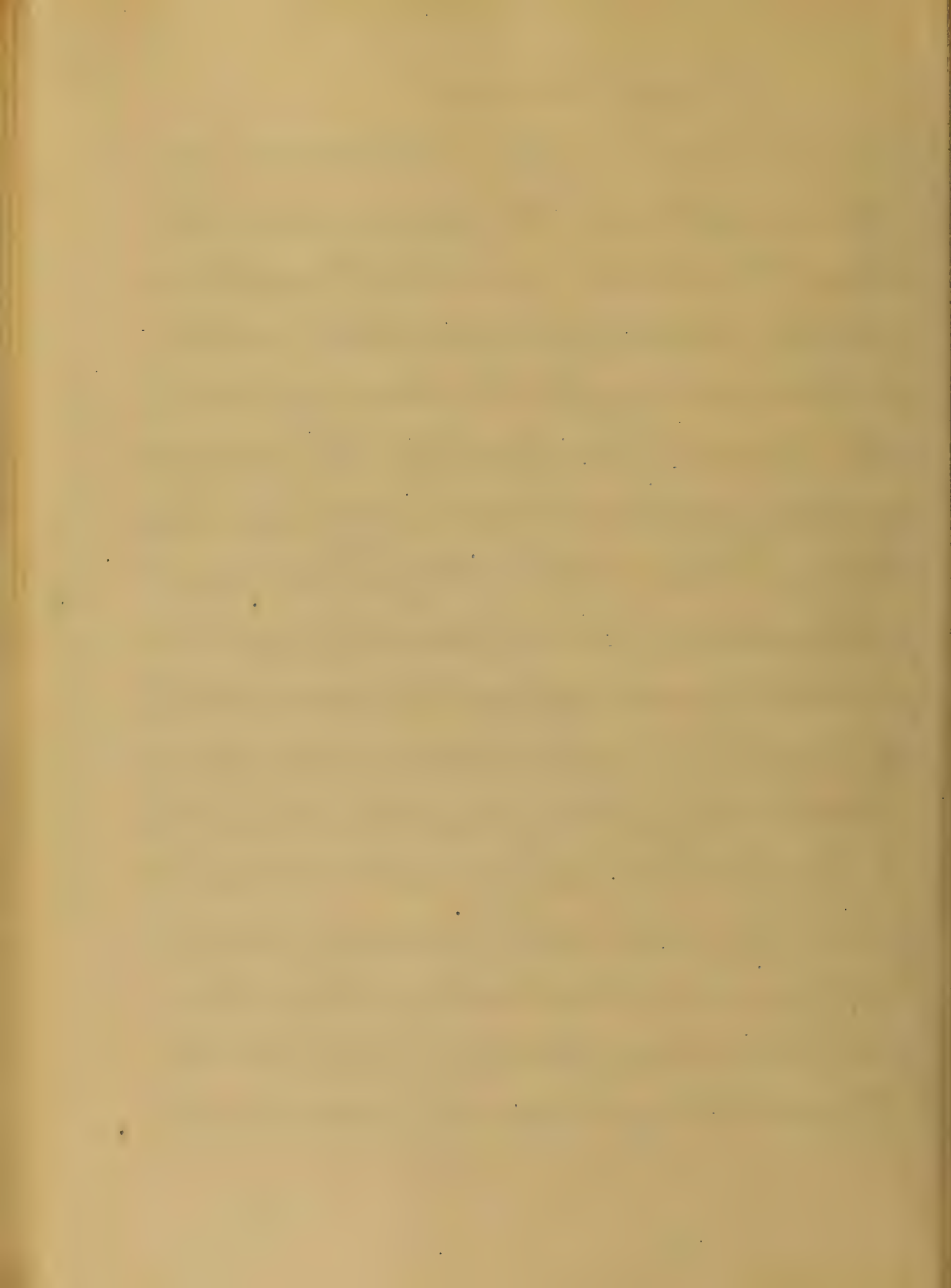
is extremely hot, and is attended
with a great deal of fever, and
restlessness, labored respirations, thirst,
and a constant cough, which is
productive of expectorations bloody, dark
colored sputa (some of which are
attended with a great deal of
delirium, and a great deal of
delirium, with great prostration.

Sub-cultus tordimus These symptoms
point out the typhoid state, in which
the vital powers give way, and the
patient dies from exhaustion.
When the disease is favorable, recovery
is rapid, and there is very little
tendency to terminate in the chronic
form - nor is there any tendency
to a relapse.



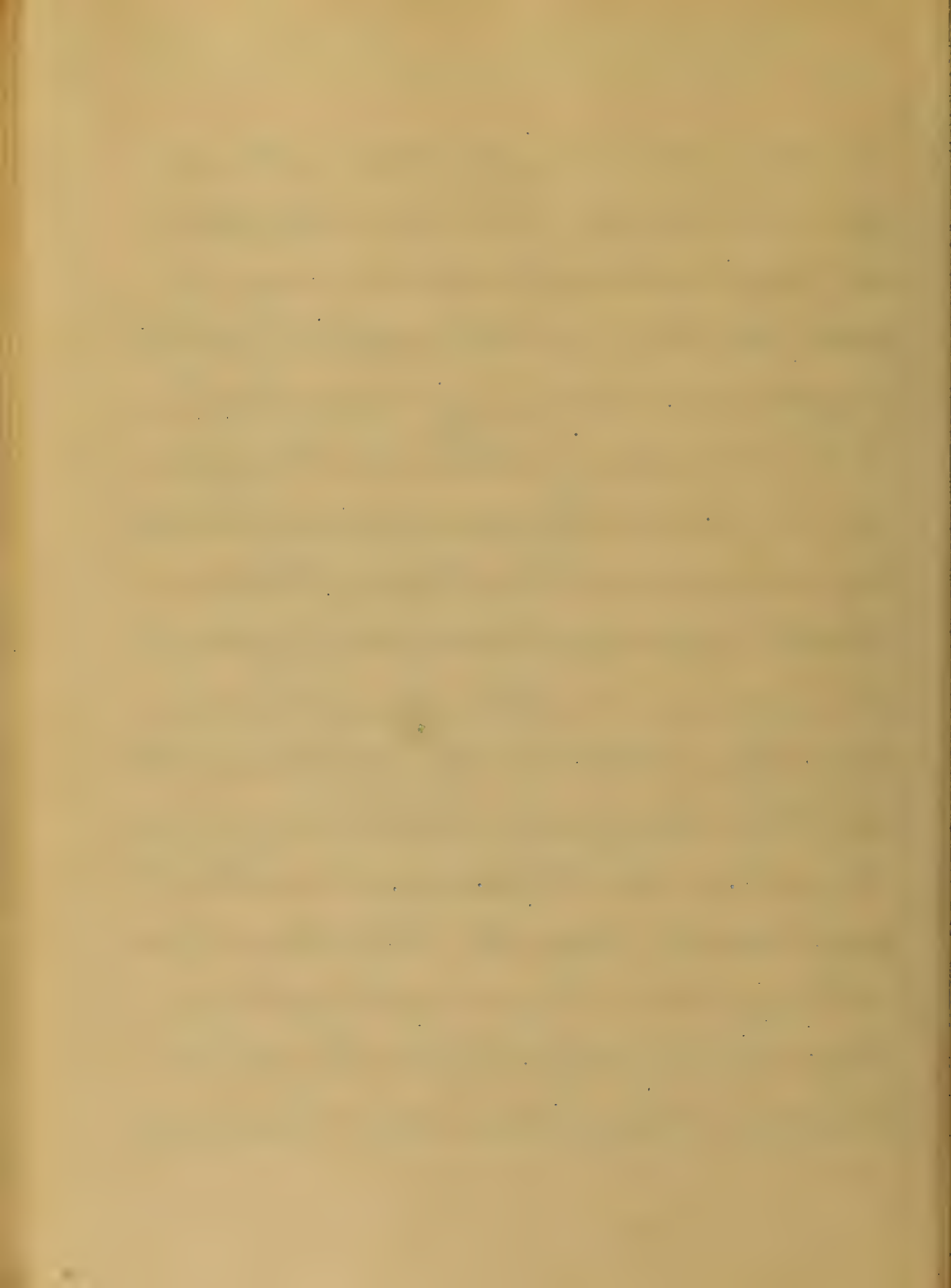
Section 1

The different stages of acute pneumonia require different treatments. In the first stage, the objects are to allay inflammation, to relieve symptoms, and to prevent the system to break up under the disease. In this stage, the so-called antiphlogistic method — such as blood-letting, saline cathartics, ^{and} antispasmodic preparations — is supposed by some to be abortive and useless. But many think differently. It is in a case may require blood-letting. It is warranted when there is high febrile movement, and when the pulse is bounding and is full, and when there is a plethora in condition of the system. Blood-letting in such a case is often

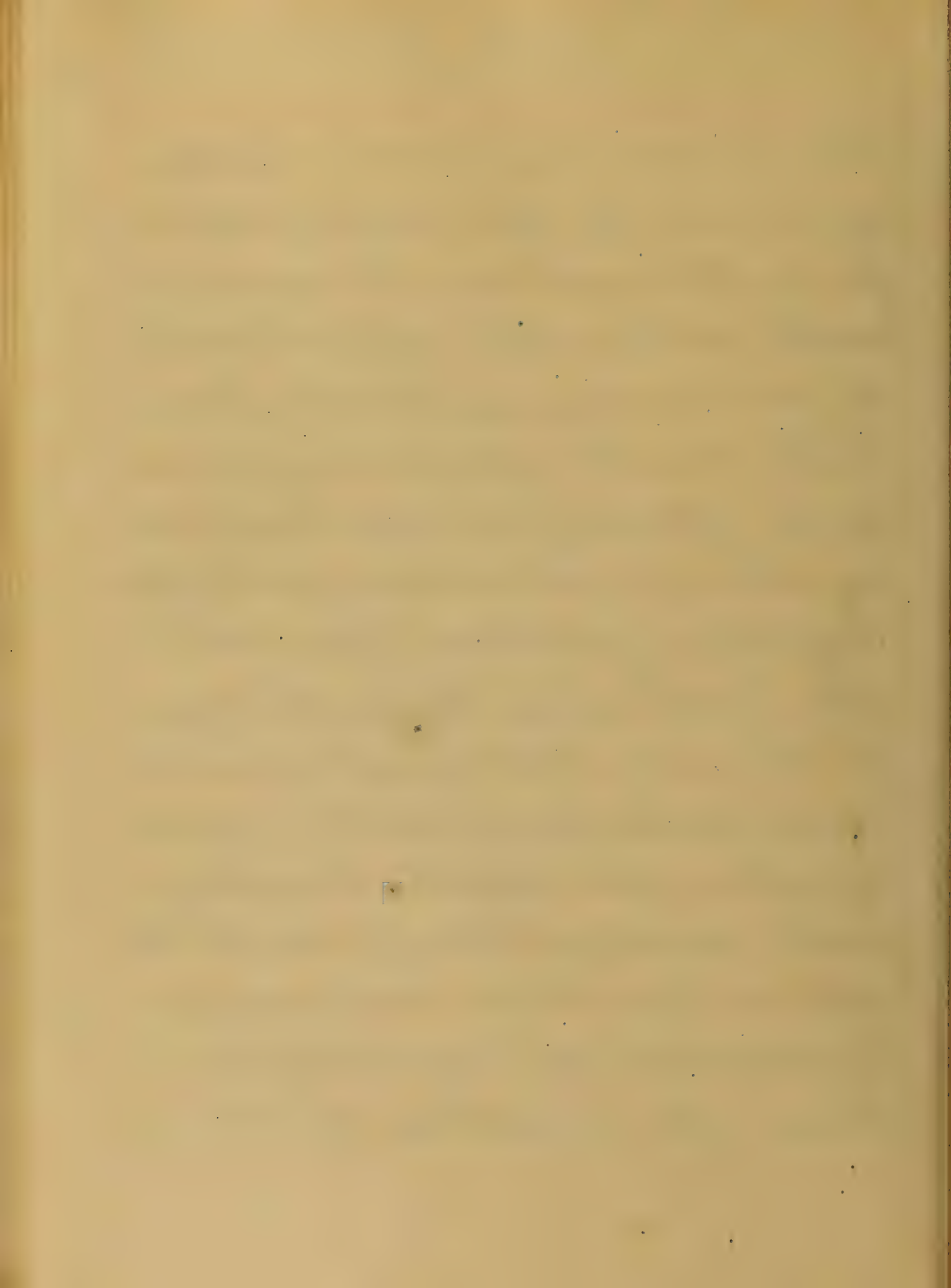


followed by the usual amount of dyspnoea.
The respirations become slower and
easier, much to the patient's comfort.
The blood pressure is lessened, and there
is less danger of its accumulation
in the right cavities of the heart,
and the consequent tendency to haem-
atose. Blood letting is contra-indi-
cated, when the febrile movement is not
marked; when the pulse is weak and
frequent; and when the patient is of a
feeble and aemic constitution. Some
purgatives may be given, and these fol-
lowed by some form of counter-irri-
tation to the skin, but the pulse frequent
not, but this should not be given to
the extent of producing distension.

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success. A milium powder sometimes
proves of benefit. Nutrient Dieties
and preparations of acornis may be
given for their sedative effects. If the
symptoms are not urgent, and there
is a tendency to asthma, they should
not be used. Opium, in some forms,
may be given in this stage. A downy
powder is a very convenient form,
when given at bed time, it is very
generally swallowed by good results.
It allays restlessness and tranquillizes
the system, and the patient awakes
very much relieved. Klisters are not
admissible. Symplics and castoreum
be used with advantage. Sinapisms
and stimulating liniments may be used.

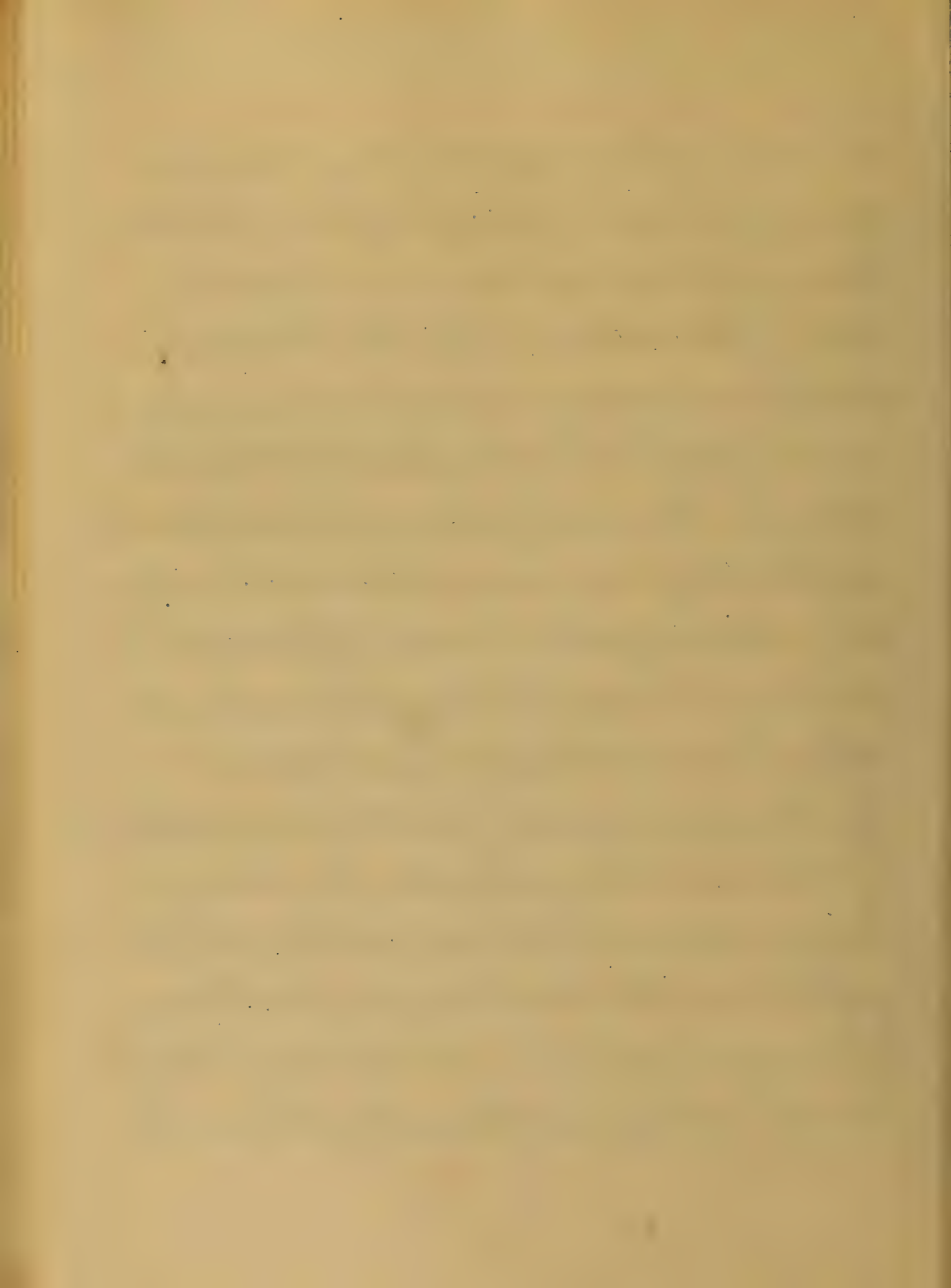


These presentations to the chest are
useful, and may often do something useful
porting to the patient. Some medical
writers advise cold applications
to the chest, and some extol the cold
bath, in such cases, we must consider
the patient's feelings. The sponging,
with careful nursing and proper
hygienic regulations, forms the most
valuable treatment in the first stages.
In the second stage, we must en-
deavor to hasten resolution, relieve
symptoms, and support the system
until resolution takes place. If there
still be high febrile excitement,
Veratrum Viride, in small doses, may
be used for its sedative effects.

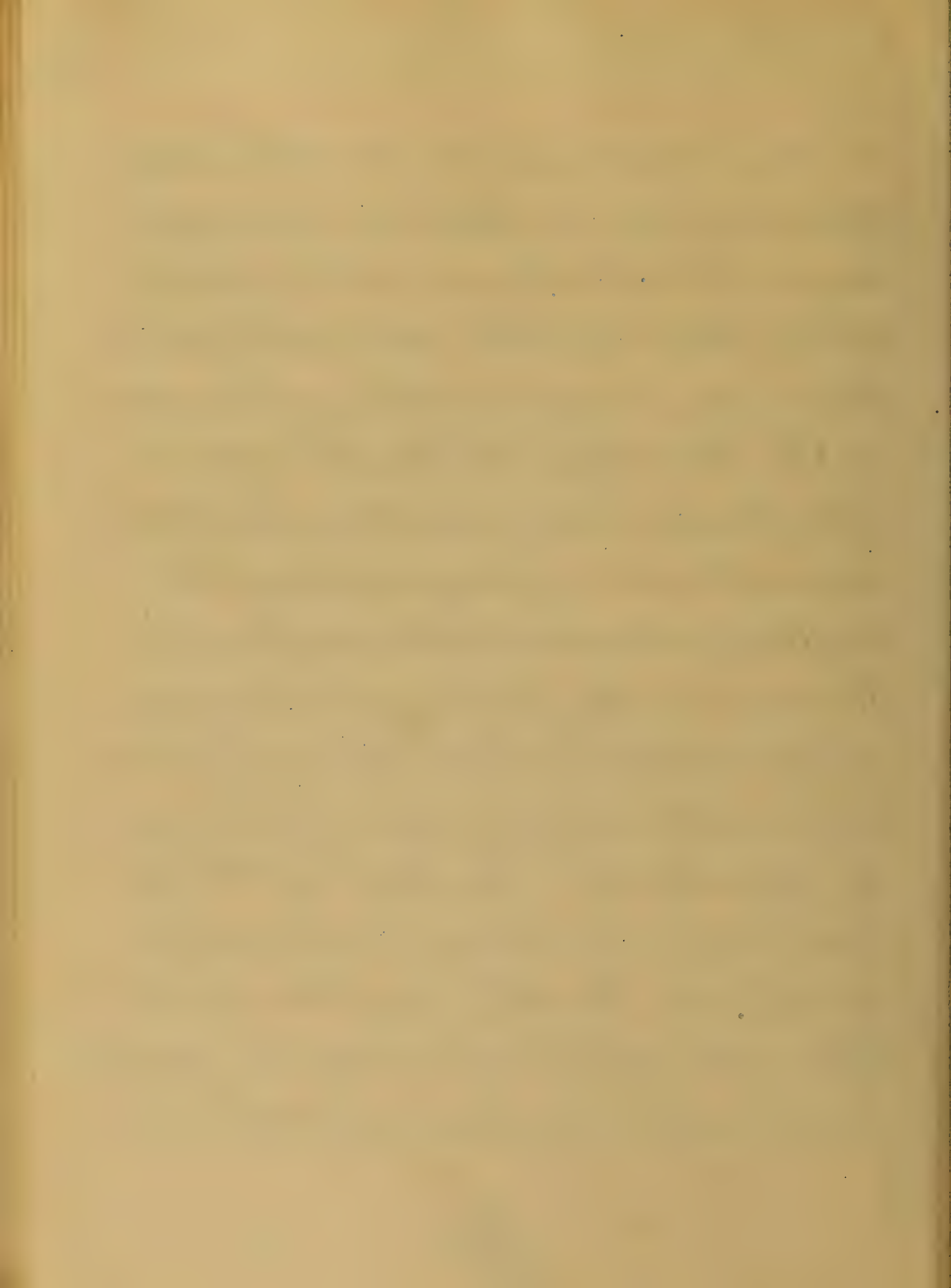


or some antispasmodic preparation, these
are opposed, by other, to favour resolu-
tion. If pain and swelling remain,
the application of the Tr. Sc. line,
or stupes of warm water only, may
contribute to the comfort of the pati-
ent. If the vital powers begin to sink,
supporting measures must be adop-
ted. Among the most efficient of
these are alcoholic stimulants.

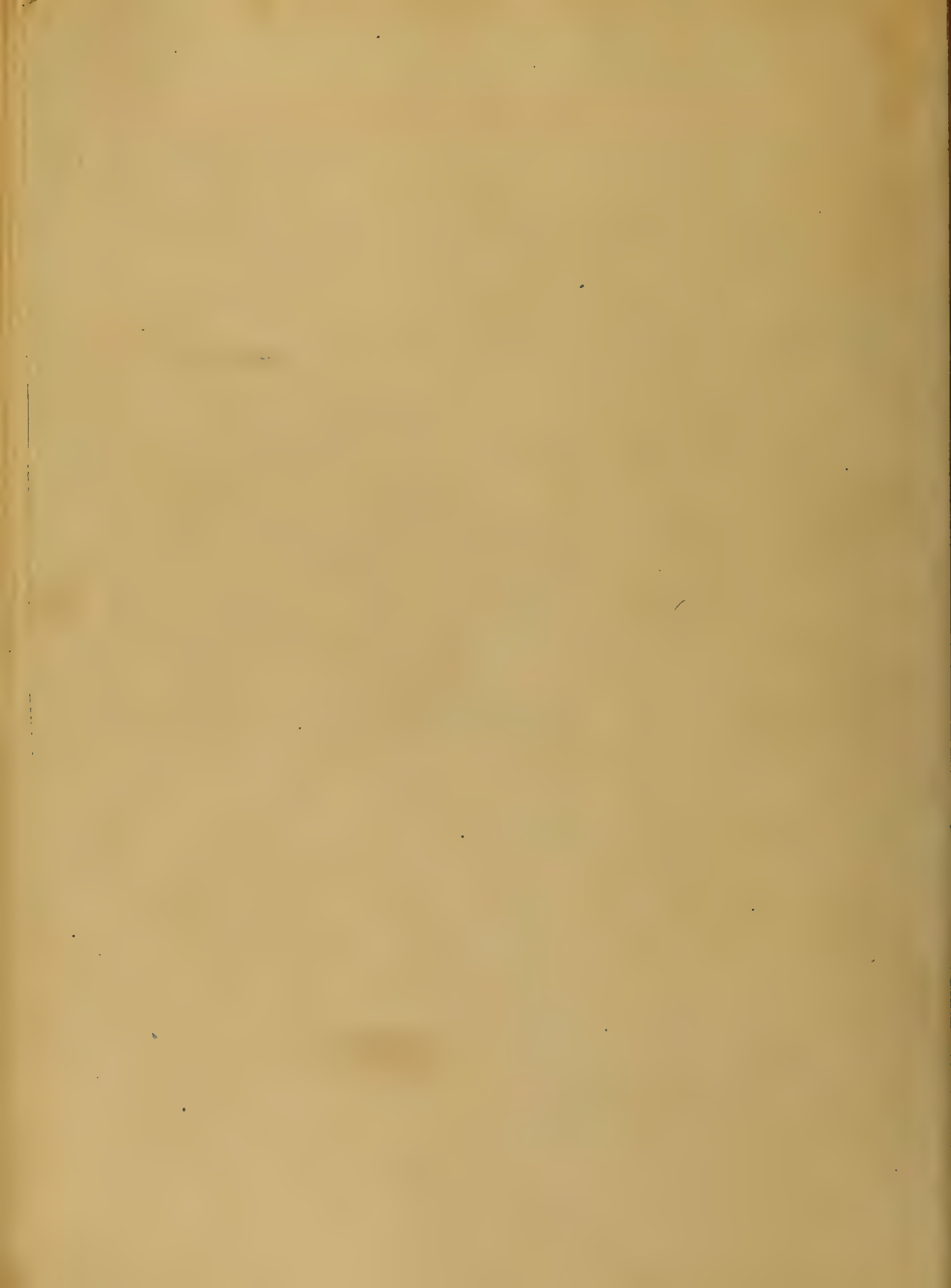
Quinine is also of great value.
Milk and animal broths are useful.
Of course, they should be given in
larger or smaller quantity, in pro-
portion as the tendency is to asthenia.
Opium may be used beneficially
in this stage, especially when there



is pain, vigilance, and restlessness depending on constitutional disturbances. It often brings about refreshing sleep. It is contrd. indicated when there is an accumulation of mucus in the bronchial tubes, at least in full doses. When resolution has commenced, and is progressing, the treatment abovementioned should be continued, until convalescence is established. When this is the case, very little danger of relapse need be apprehended. The diet of the patient may be more solid and nutritious. Gentle exercise in the open air, either alone, or in quiet, innocent company, would be



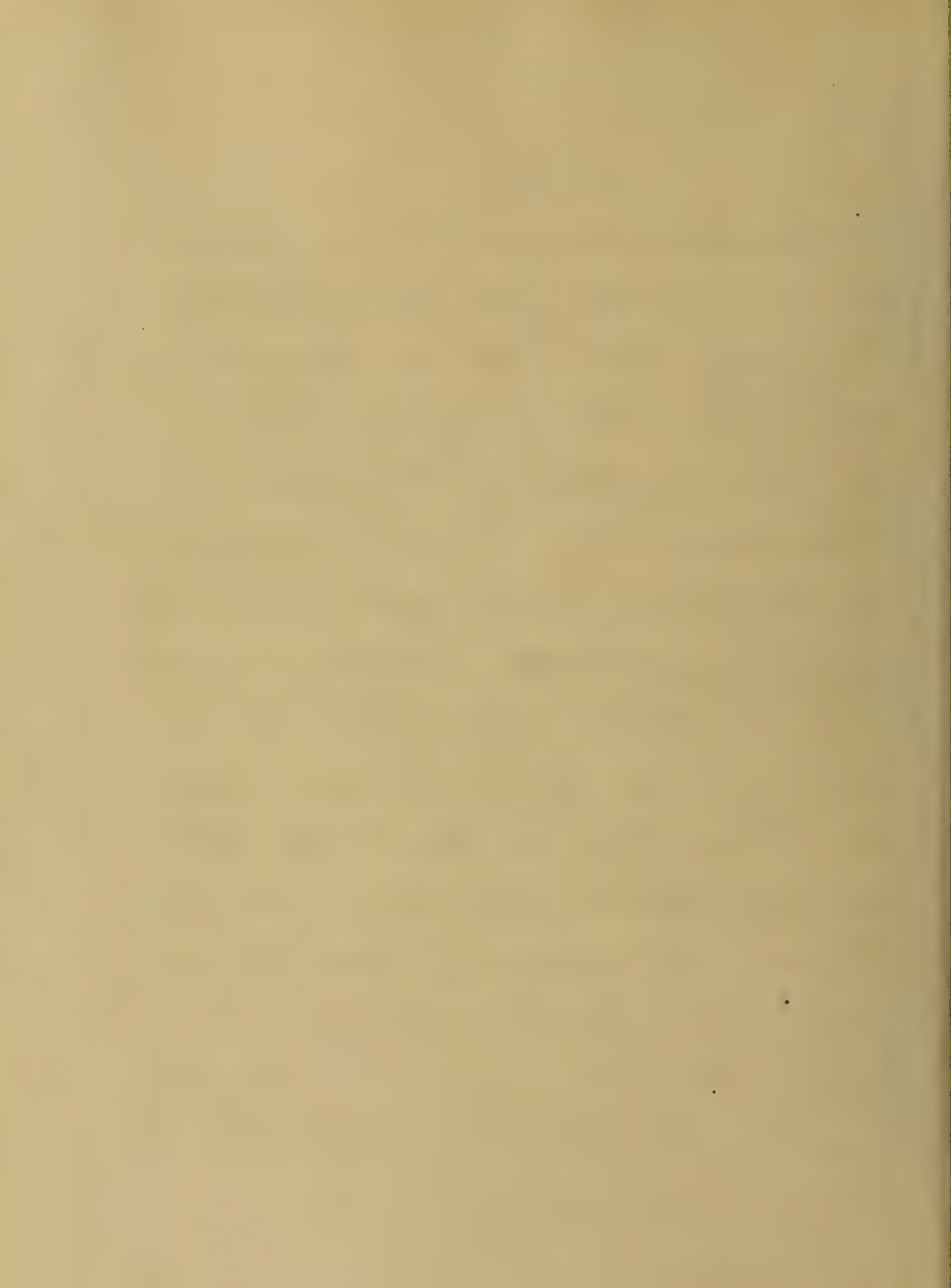
to restoration. Of course the laws of hygiene, in all cases and in every stage, must be observed along with judicious nursing as the most important measures in the treatment of the disease. Complications must be treated on the general principles applicable in such cases in the best manner possible.



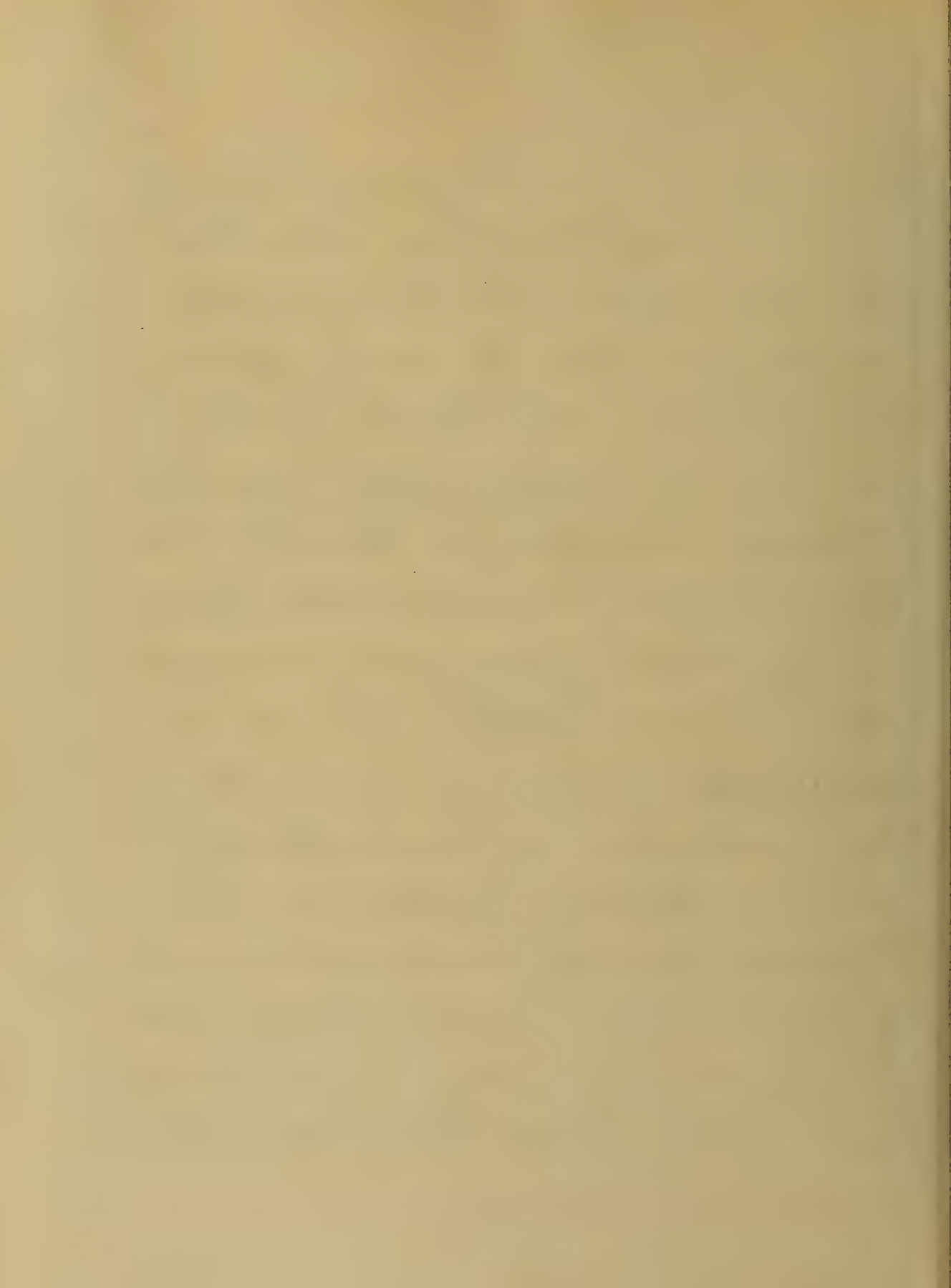
Thesis
 For the degree of
 Doctor of Philosophy
 in the
 Department of Mathematics
 at
 the University of California
 Berkeley
 1958

Thus

Notwithstanding it is in accordance with the requisition of the Faculty that I shall deposit with them an essay on some subject pertaining to medical literature, I do it with unfeigned diffidence and embarrassment - knowing that it is to be perused and criticised by gentlemen of eminence in the profession, whose lives have been devoted to the study and observation of disease in its diverse forms - thus acquiring such knowledge as has entitled them to rank and distinction; and whose teachings are accepted as indubitable

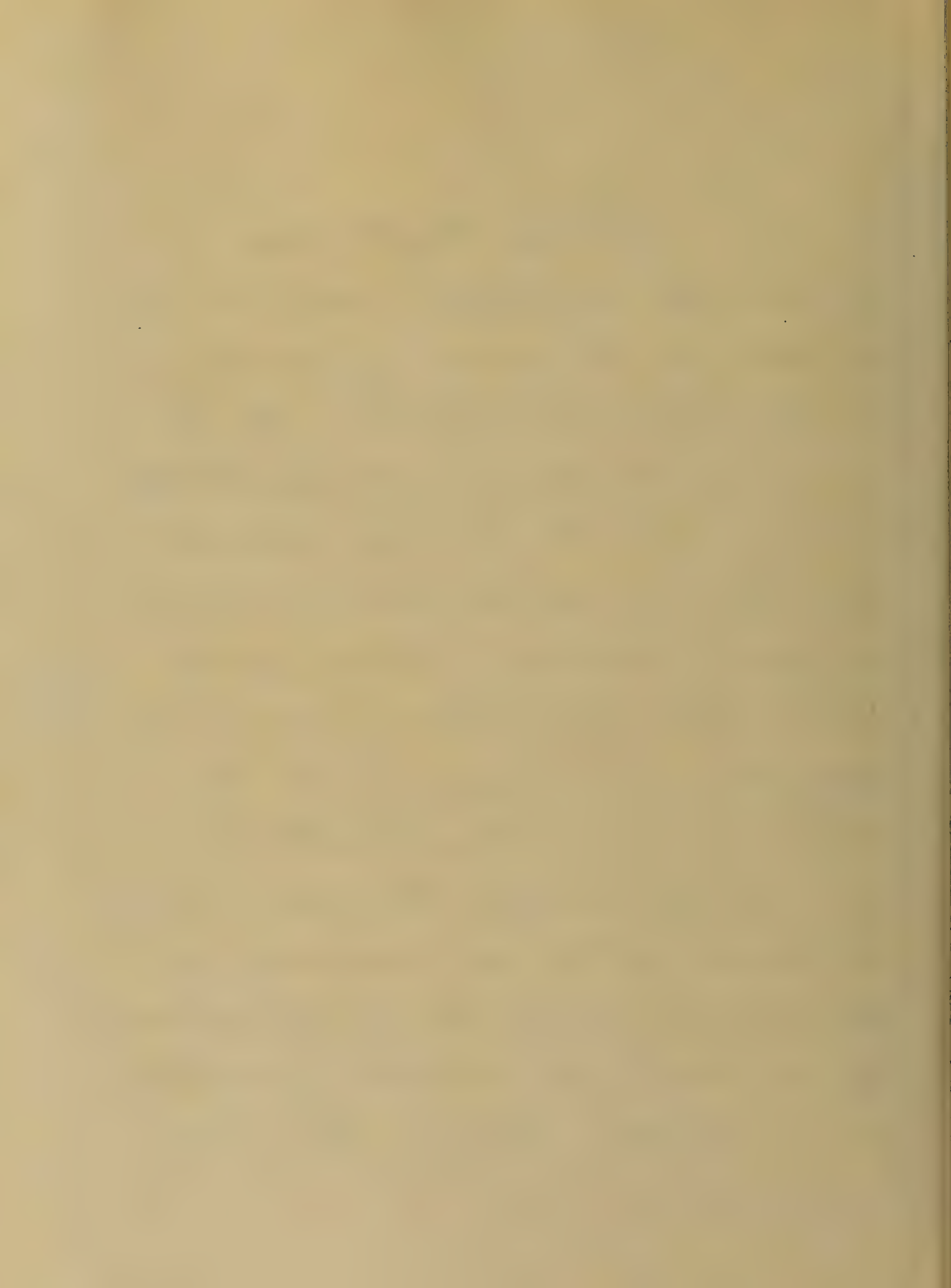


authority. I can but feel too sensibly
my inability to set forth facts which
have not been elicited by my worthy
predecessors whose far-seeing eyes have
accomplished so much towards the re-
velation of the etiology, progress and results
of disease; whose fields for observation have
been vast, experience great, and energy un-
tiring; whilst my acquirements are yet
embryonic, comparatively, hence I do not
expect to present disease in a new phase
but to exhibit it more or less in detail as it
has been observed. The disease to which
I advert is one of great importance, and
as it plays such sad havoc among infants
it should occupy greatly the medical mind
namely the infantile affection "cholera Infantum"



Cholera Infantum.

Of all the complaints incident to childhood, the above especially, merits vast consideration as it contributes so largely, to the mortality of infants. Indeed there are few diseases, of childhood, in the middle & southern portions of the United States, that tend more generally to a fatal issue than the subject under consideration — called, also "Summer Complaint" of children. It is an endemic of our larger cities during the season of greatest heat; attacking children, generally, between four and

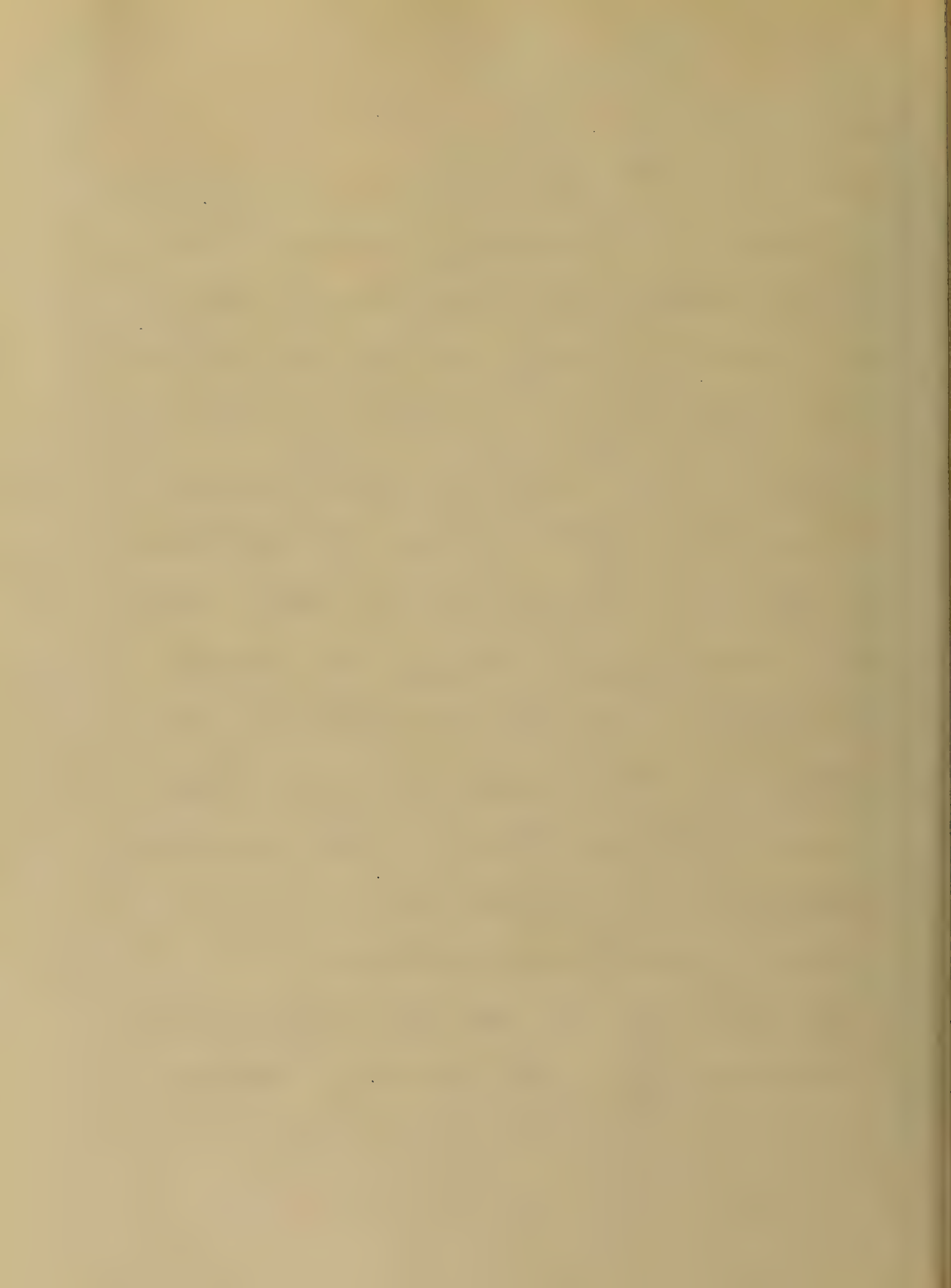


twenty months of age or at the period of first dentition. So generally is it confined to this period of life that mothers consider their infants, in their second summer, as subject to unusual peril, and should they escape an attack at this period or pass safely through the disease, they are thought to have a fair chance of surviving the stage of infancy. It is not strictly confined to cities for occasionally typical cases are observed in towns. The term Cholera Infantum has been so extended as to embrace a large % of the diarrhoeal maladies of infants in the summer



months. It has been and is still applied to many mild, but protracted non-inflammatory or inflammatory forms of diarrhoea occurring in children during summer months — which indiscriminate applications of the term I think is erroneous, as it should be employed to designate only that form of the diarrhoeal affection characterized by frequent watery stools, with vomiting, elevation of temperature, and rapid & great emaciation.

Symptoms — The disease is generally preceded by a premonitory stage — that of diarrhoea — sometimes



very profuse. And sometimes it begins very abruptly without previous notice - the child previously in good health. The stools are thinner than natural and rather more frequent, but not such, always, as to occasion much alarm.

Suddenly the evacuations become much more frequent and watery, attracting the attention of the parents & giving rise to fear and anxiety by the rapid sinking and apparent danger to which the child is exposed.

Discharges, designated, by some watery, and by others, serous characterize the disease.

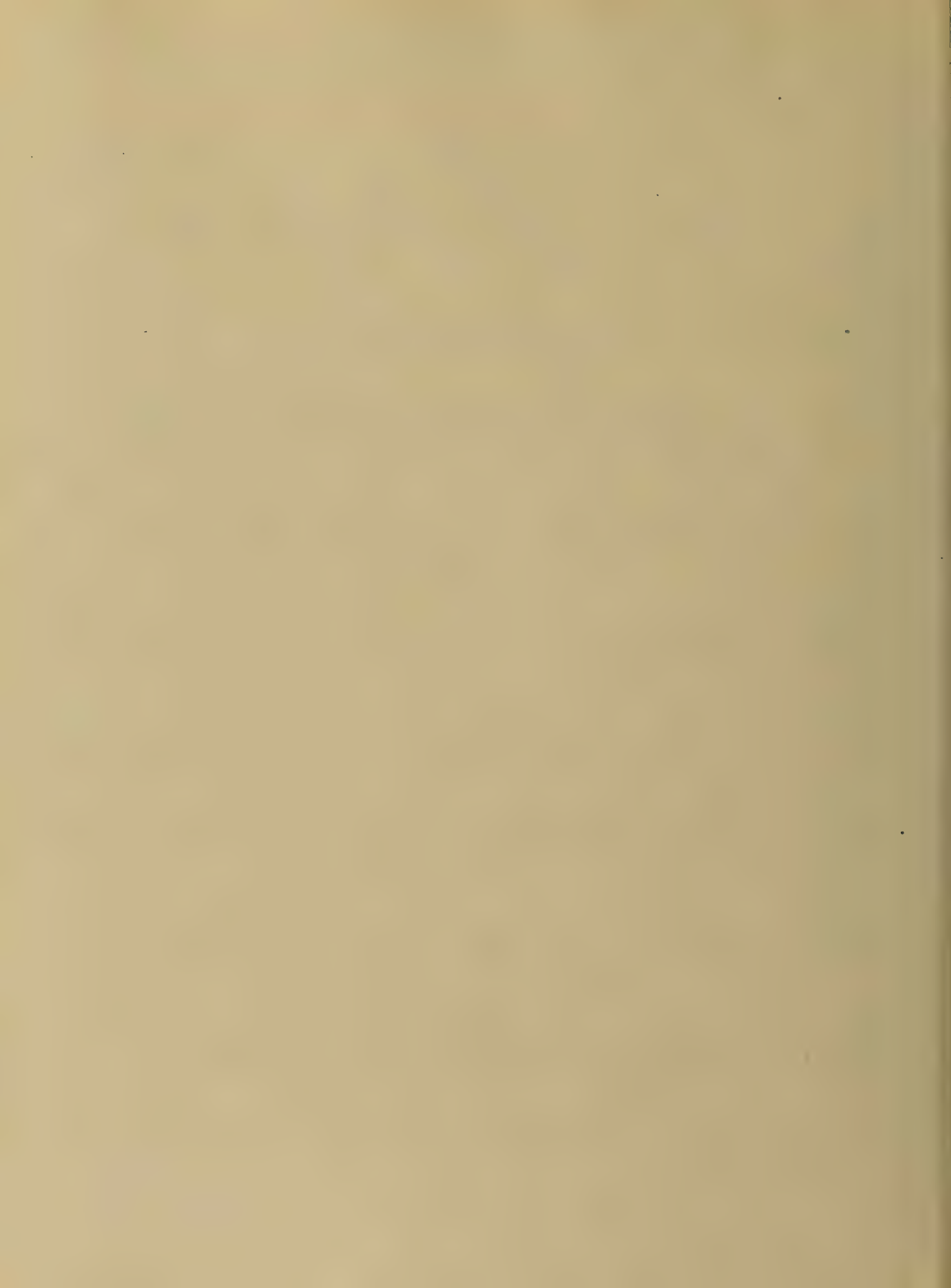
Unless the preliminary stage of diarrhoea occurs there is considerable fecal matter in the evacuations at first; then they become so attenuated as to soak into the diaper like urine and frequently do not stain the cloth any more than this secretion.

They have not the peculiar fecal odor, but a musty, offensive smell. Simultaneously with the watery discharge, or soon after, another exhibits itself, namely, irritability of stomach, which greatly increases the prostration and danger by the patient being unable to retain food

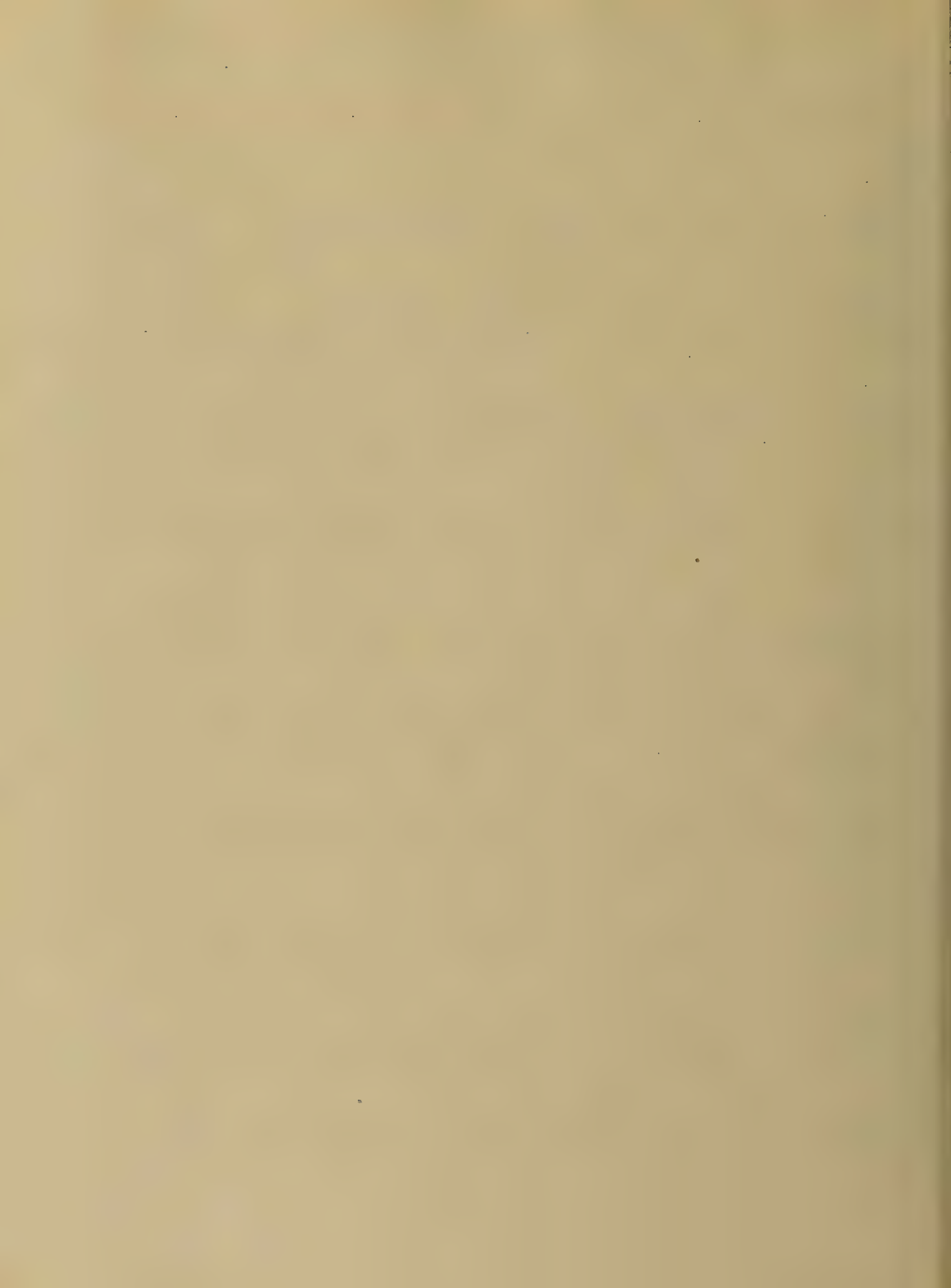


as it vomits every thing, and retching may occur without the the stimulus of food &c. There is anorexia with great thirst.

Cold water is generally very acceptable and when the child is nursed, it seizes the breast eagerly in order to relieve its thirst. Tongue is moist at first and clean or covered with a light fur. The pulse is accelerated, while the respiration is normal or slightly increased in frequency; the surface is warm, but its temperature is speedily diminished. The temperature of the blood attains a greater height in this than al-



most any other infantile affection. In ordinary cases the rectum will give an indication of 104° to 105° and sometimes more. At first the infant is restless, which is due, not to pain, but to thirst or that unpleasant sensation which the sick experience when the vital powers are reduced. The urine is scanty as the disease is grown. After a few days the appearance of the child is so much changed that one unacquainted with the malady would wonder that such a change could be made in so short time. As the disease approaches a fatal termination (often



in a day or two) the child seems to notice nothing & remains quiet. The eyes are open and the pupils contracted; limbs and face are cool. As death draws nearer the breathing gets more rapid from the pulmonary congestion consequent on feeble action of heart. The surface becomes cold and clammy, and stupor results from which the child cannot be awakened. In favorable cases the disease is checked before the fatal symptoms occur.

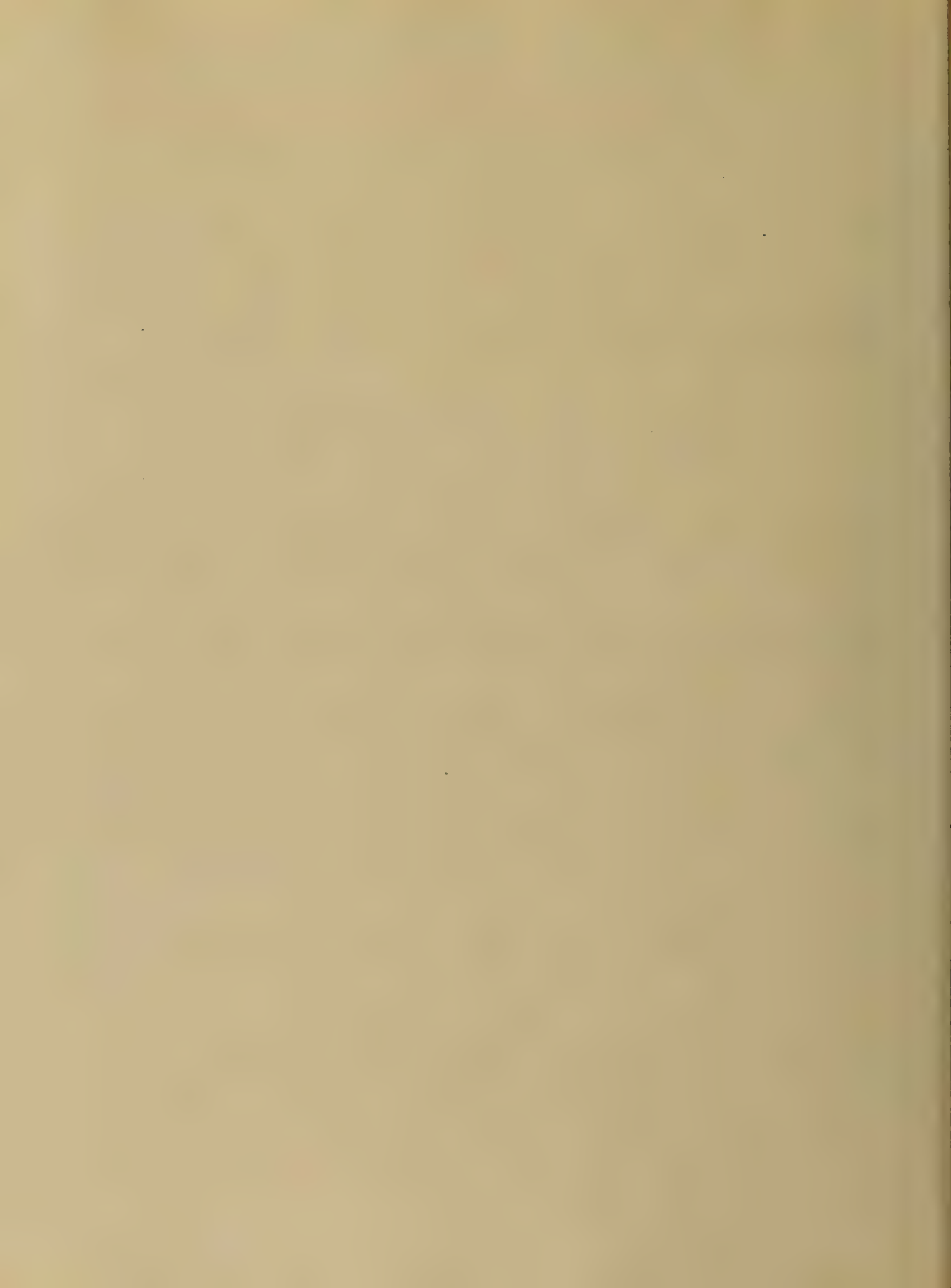
The anatomical characters are principally intestinal. Killieb &

Barthez, foreign writers state that the gastro-intestinal canal may present one of the fol. four conditions, viz-^(a) that the stomach may be softened without any lesion of the digestive tube; (b) or the stomach is softened at the same time that the mucous membrane of the intestine, and especially its follicular apparatus, is diseased; (c) or the stomach is healthy whilst the follicular apparatus, or the mucous membrane is diseased; (d) or that the tube is not the seat of any lesions appreciable to our senses in the present state of our knowledge, or it presents lesions so insignificant that they are not sufficient to explain

the gravity of the symptoms"

American writers divide the disease into three stages; first, characterized by turgescence of intestinal follicles with more or less softening of mucous membrane; second, by the mucous membrane being vascular in patches and streaks & somewhat softened and thickened, while the solitary glands and the patches of Peyer are somewhat inflamed; third, the brain is involved, the cranial sinuses, veins & capillaries are congested, & there is transudation of serum upon surface and into ventricles of brain. Dr Watson says in his *Work on Prac. of Medicine* that "the Liver is almost invariably

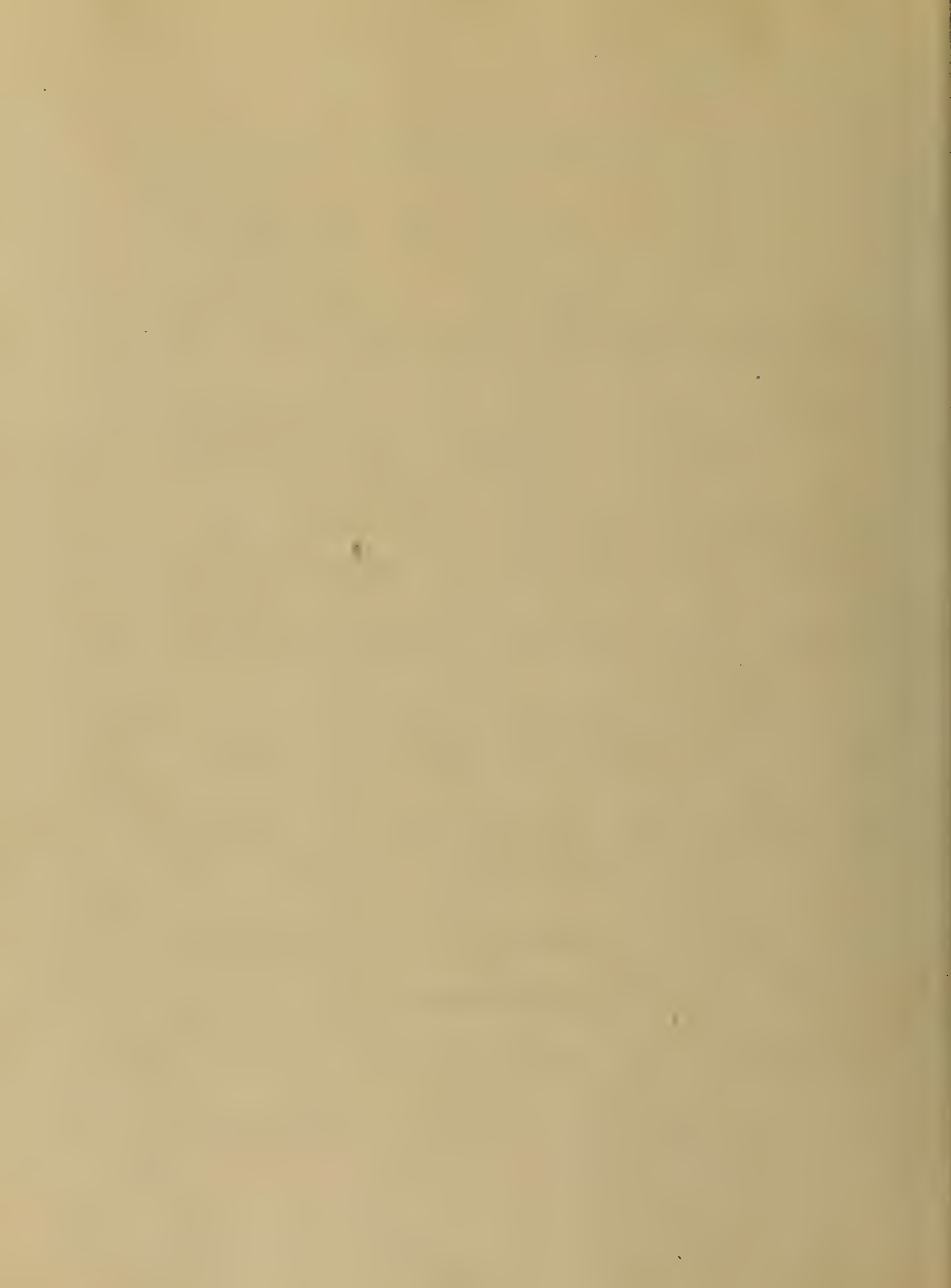
enlarged and more or less congested; while the Gall bladder is filled with dark green bile, or a pale and almost colourless fluid". Different observers have discovered various pathological conditions of the internal organs in infants dying at different, and at the same stage of the disease. It appears to be dependent upon excessive heat and deficient hygiene, generally, as it is especially prevalent in heat of summer among the poor who live in small, close, ill-ventilated houses situated in narrow streets, courts, and alleys where there is generally much filth filling the atmosphere with effluvia, but other



agencies contribute to its production as it occurs in children of higher ranks showing that other circumstances aid in its generation, such as dentition, temperament, age, and diet. As an evidence that such are generally the causes, if the patient be placed under good hygienic treatment it will begin to improve at once; and the very rare occurrence of it in rural districts tends to confirm what has been said above as to its cause. The diagnosis requires no particular elucidation. The season at which it occurs, the age of the patient, the concomitance of vomiting and pur-

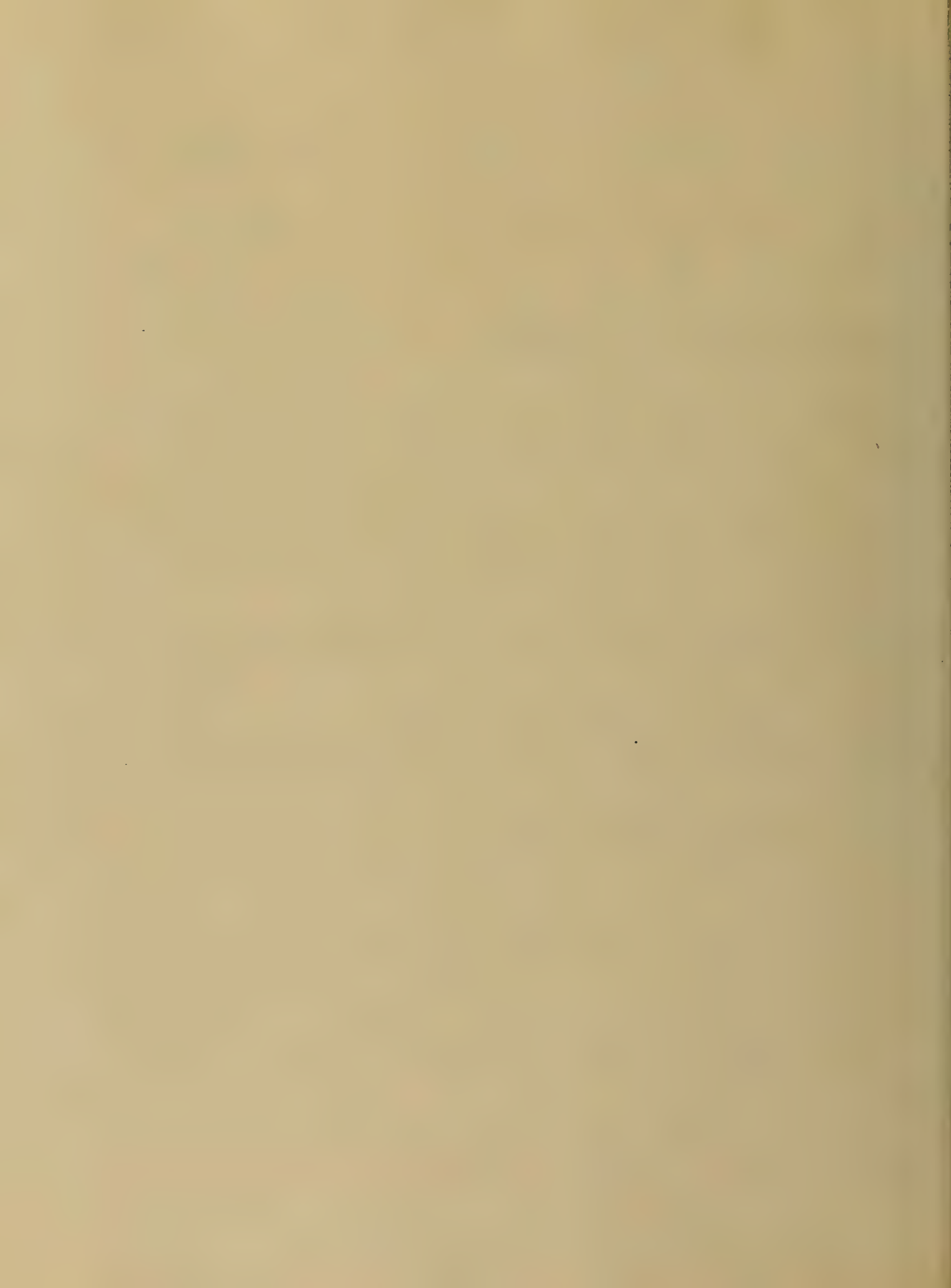


ging, the nature of the discharges, and the course of the affection render it easy of recognition, except when Asiatic Cholera is prevalent from which it is exceedingly difficult & often impossible to distinguish it. But the latter is so rare in this country that we seldom see it. As regards prognosis it is a very dangerous disease and every physician, however, well qualified, as he values his reputation, should be very careful in expressing his opinion as to the termination of the affection. If the urgent symptoms are relieved the disease may continue as an ordinary inflammation



of the intestine which is often fatal in hot weather. If the evacuations become thicker and less frequent, without cerebral symptoms & with warmer limbs and good pulse we can generally give a favourable prognosis. It is of variable duration. In violent attacks the prostration is so sudden and rapid that the child often dies in a day or two, or it may soon begin to abate & get well or it may continue as an Entero-colitis for sometime & get well or terminate fatally.

Treatment - As the affection is one of very rapid progress it requires equally as prompt treatment. First of all proper hygiene is to be observed.





The following will be found useful

\mathcal{R} Lactus, Prep. $\mathcal{I}\mathcal{I}$ Pulv. Kinds good Gum
Acacias Sac. alb. $\mathcal{a}\mathcal{a}$ $\mathcal{I}\mathcal{I}$ Opia $\mathcal{g}\mathcal{r}\mathcal{i}$

Nyctican. $\mathcal{g}\mathcal{r}\mathcal{i}$ $\mathcal{F}\mathcal{u}\mathcal{r}\mathcal{t}$ chart. $\mathcal{m}\mathcal{o}\mathcal{x}\mathcal{i}\mathcal{j}$ $\mathcal{P}\mathcal{i}\mathcal{g}$
one at dose. May use morphia hypodermically

or \mathcal{R} \mathcal{L} $\mathcal{O}\mathcal{i}\mathcal{i}$ dec. $\mathcal{g}\mathcal{r}\mathcal{i}$ aq. dist. $\mathcal{g}\mathcal{r}\mathcal{i}$ $\mathcal{m}\mathcal{i}\mathcal{j}$

use all hypodermically. But when there is a
tendency to coma use opiate very cautiously.

Ice & brandy & iced water is very useful.

Mustard plaster over abdomen is often
of benefit. Lime water & trichs, Carbolic

acid & aq. calcis, Creosote & water.

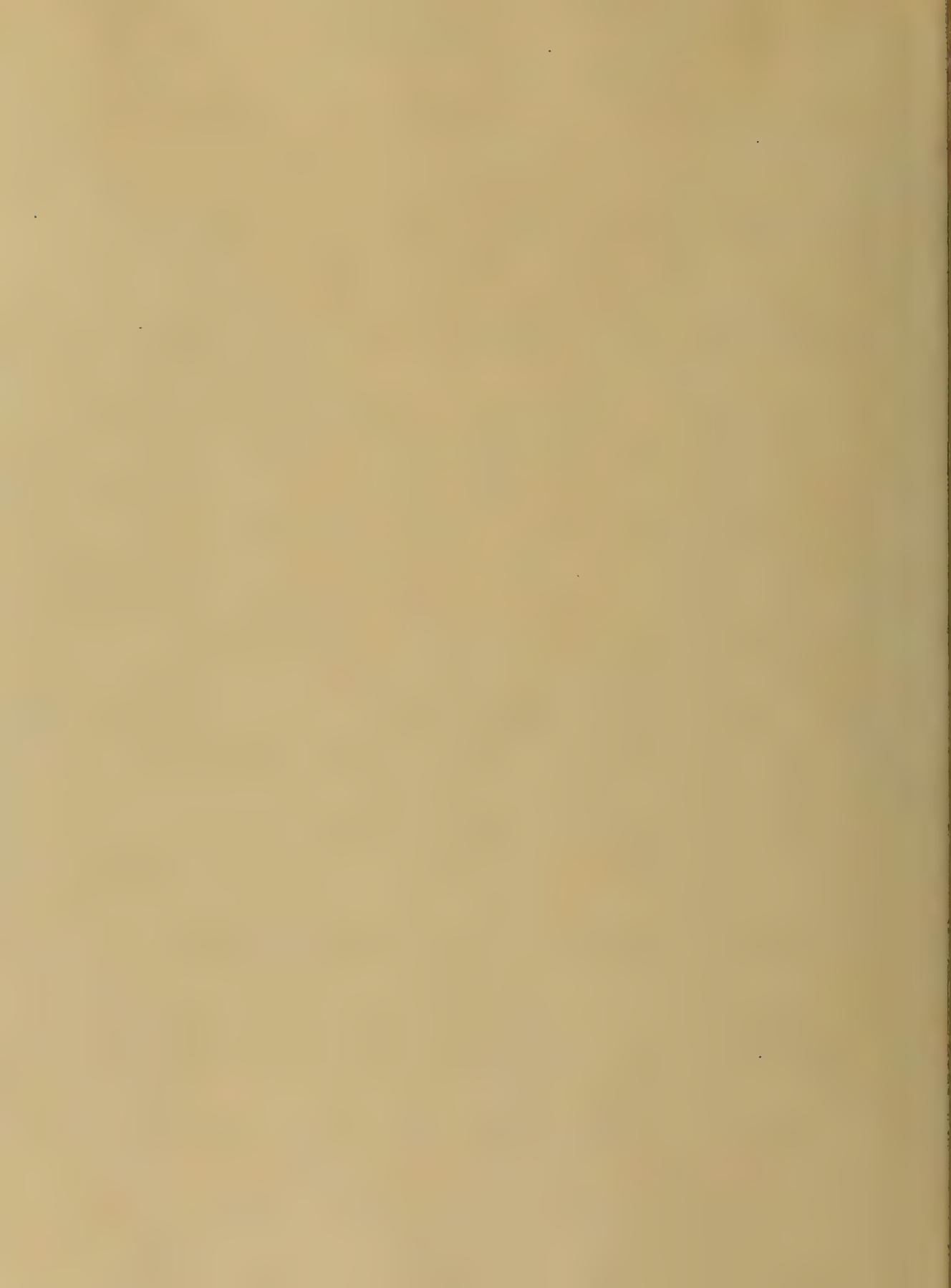
High temperature may be reduced by baths

of 80° Fah. If tendency to Hydrocephalus

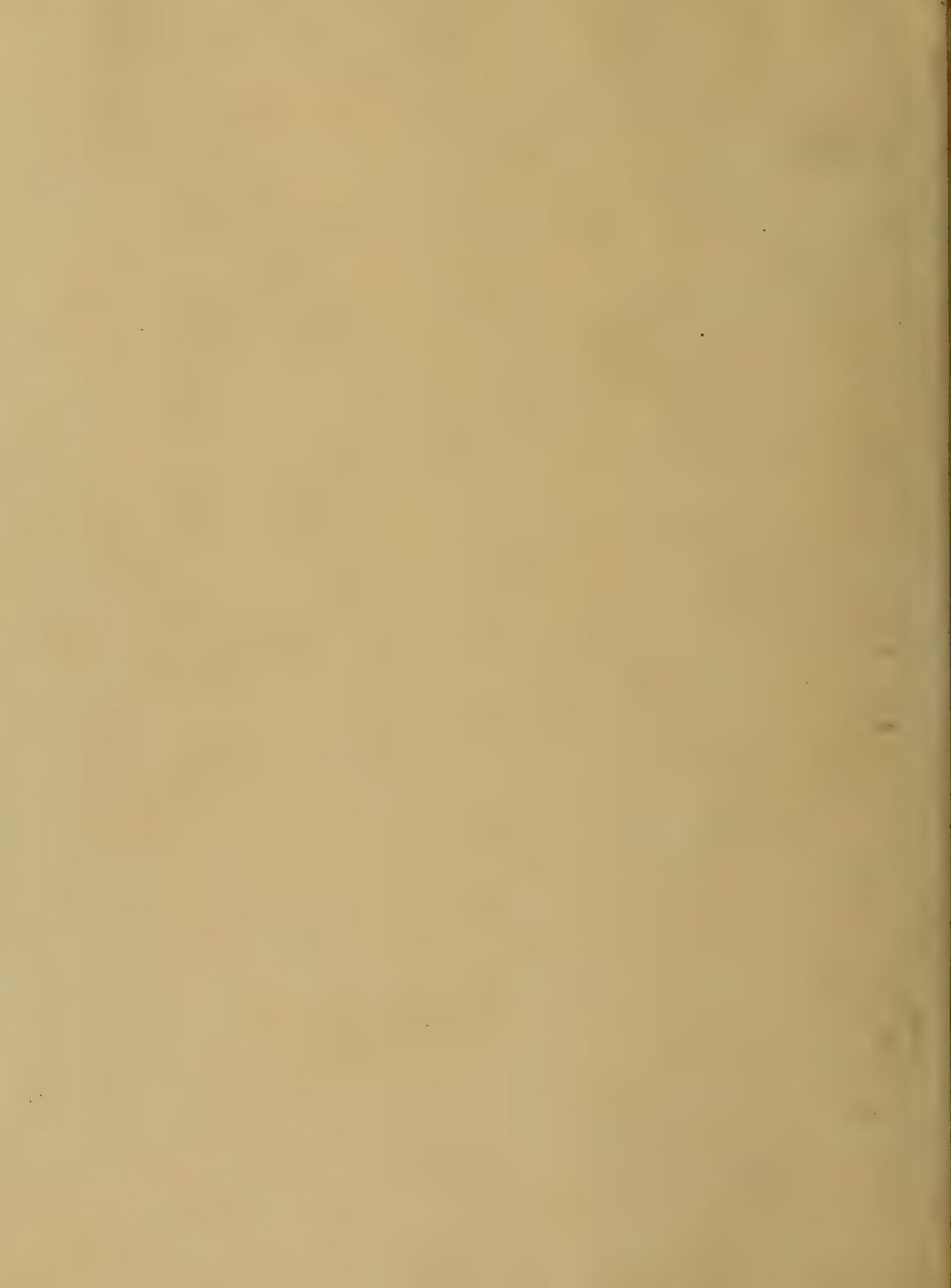
or cerebral congestion, deplete carefully,

especially if hot & febrile with tendency

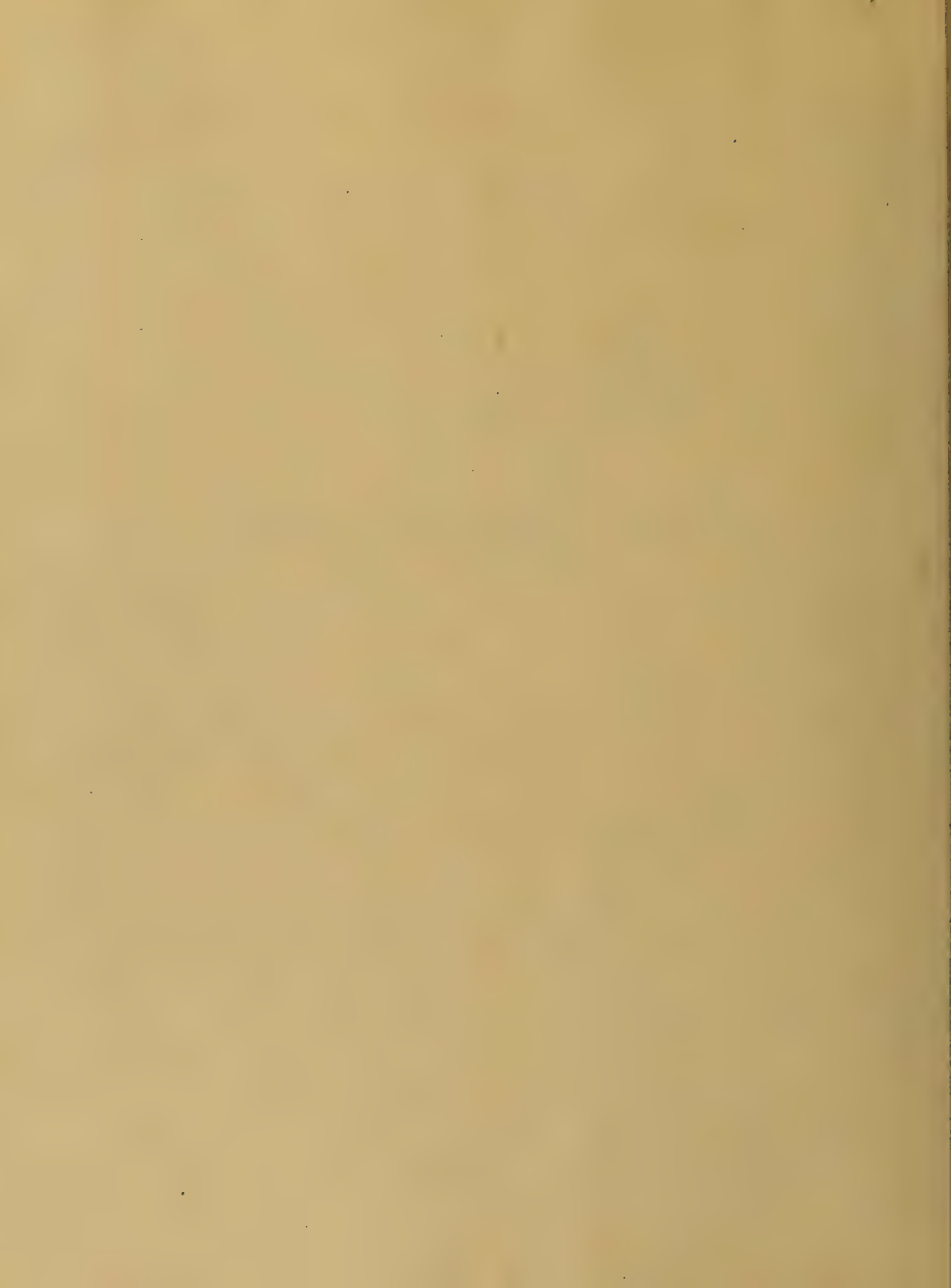
to coma. Stimulant should be given



	The following is a list of	the names of the	persons who
	were present at	the meeting	held on
	the 15th day	of the month	of
	the year	1900	at
	the place	of	the
	meeting	was	as
	follows:		



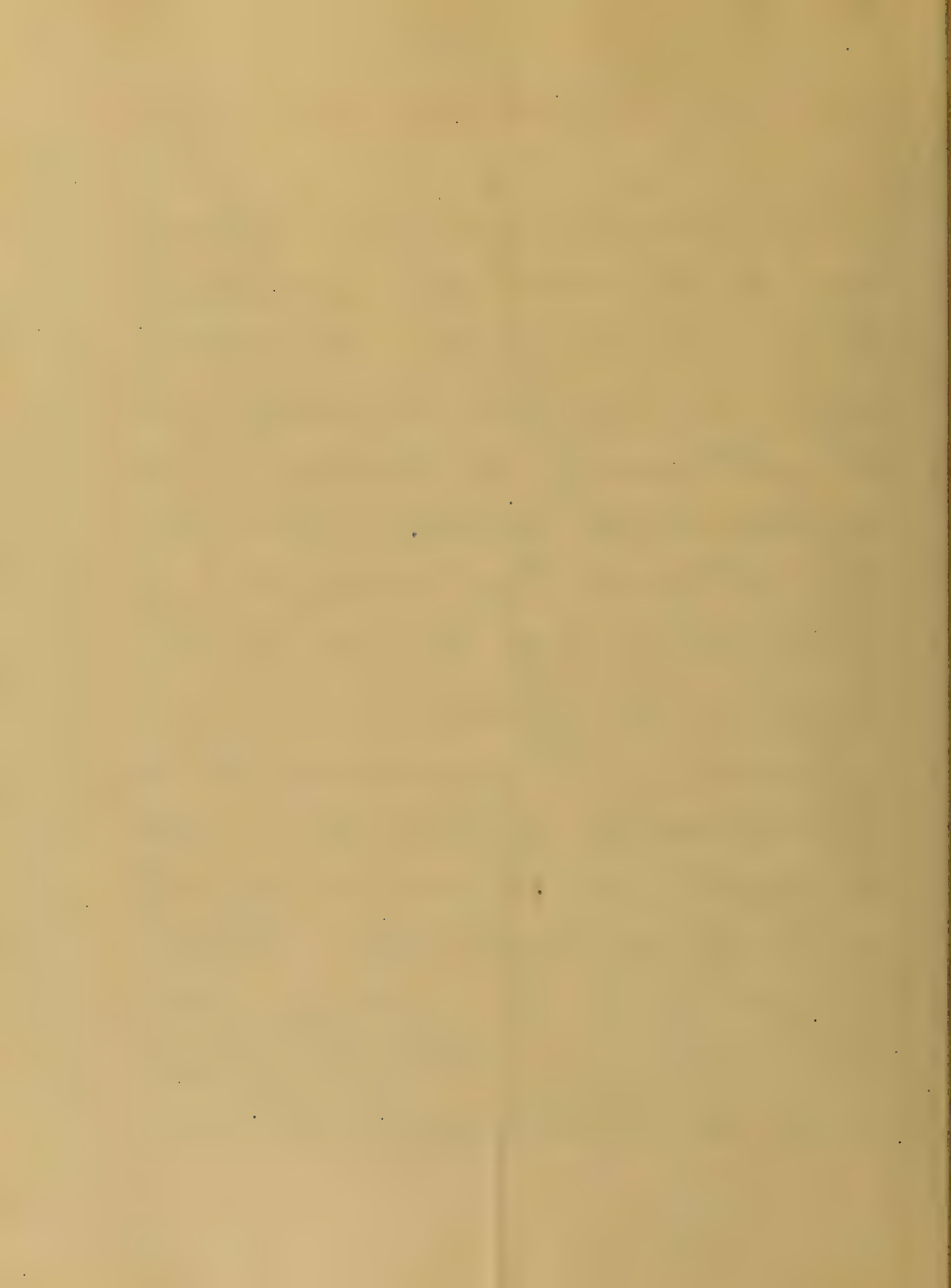
Prosis
of
Jas. B. Woodworth
Feb. 1881.



Typhoid Fever

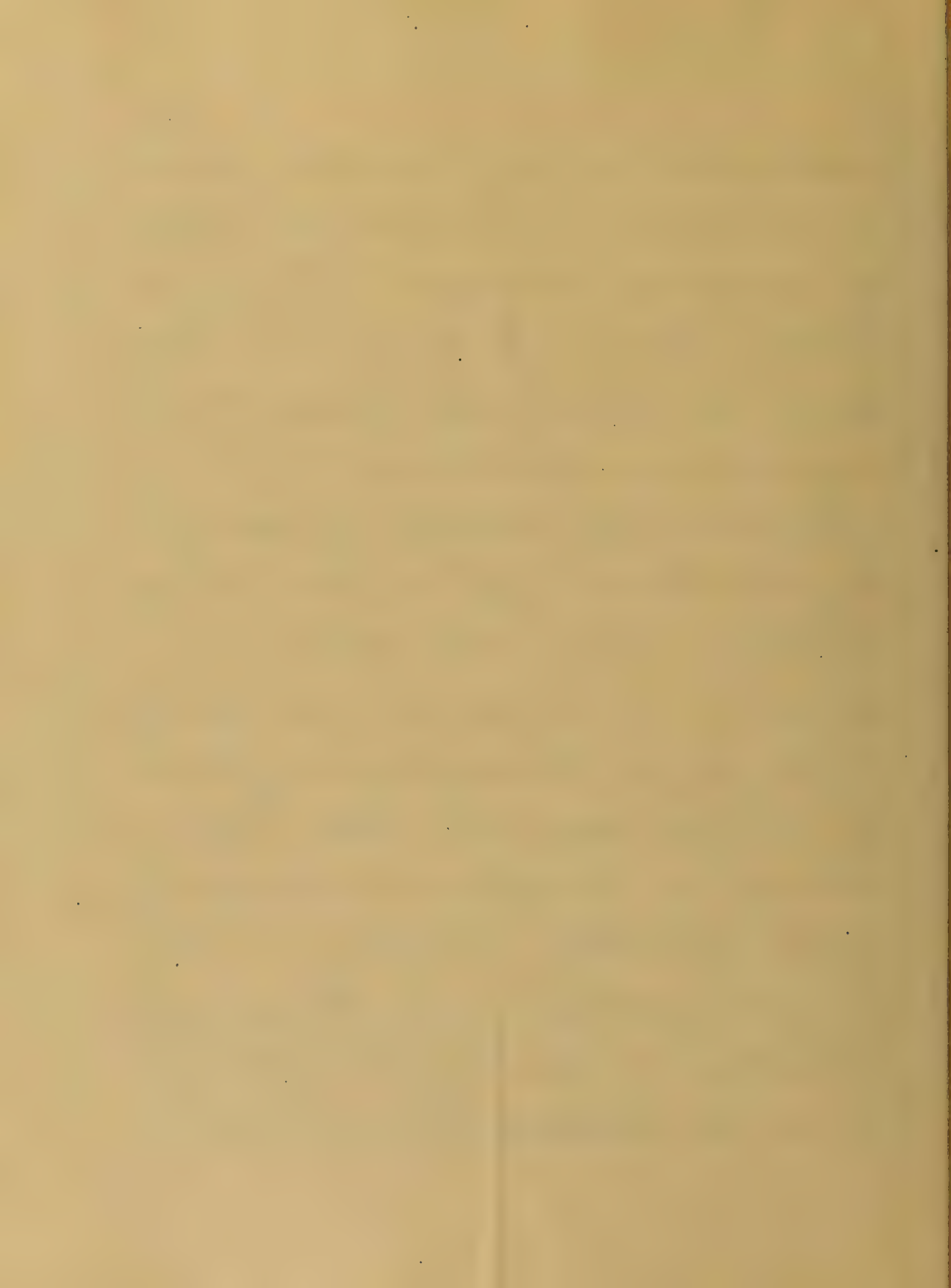
Definition. — Typhoid fever is one of the continued exanthematous fevers characterized by rose colored spots, which appear primarily upon the abdomen; by a tendency to diarrhoea with mucous lesions of the intestinal tract, and especially by involvement of the glands or patches of Peyer.

Causes. — The question of the contagiousness of Typhoid fever is still a mooted one. There being equally authority on each side. Hirston, Sillken and others contend that it is often propagated by contact, while a distinguished German



number has been recorded 1200
cases - one of which would be traced
to contagious influence. It is best
& safer however for a physician to
as if he believed the disease to be
contagious or infectious.

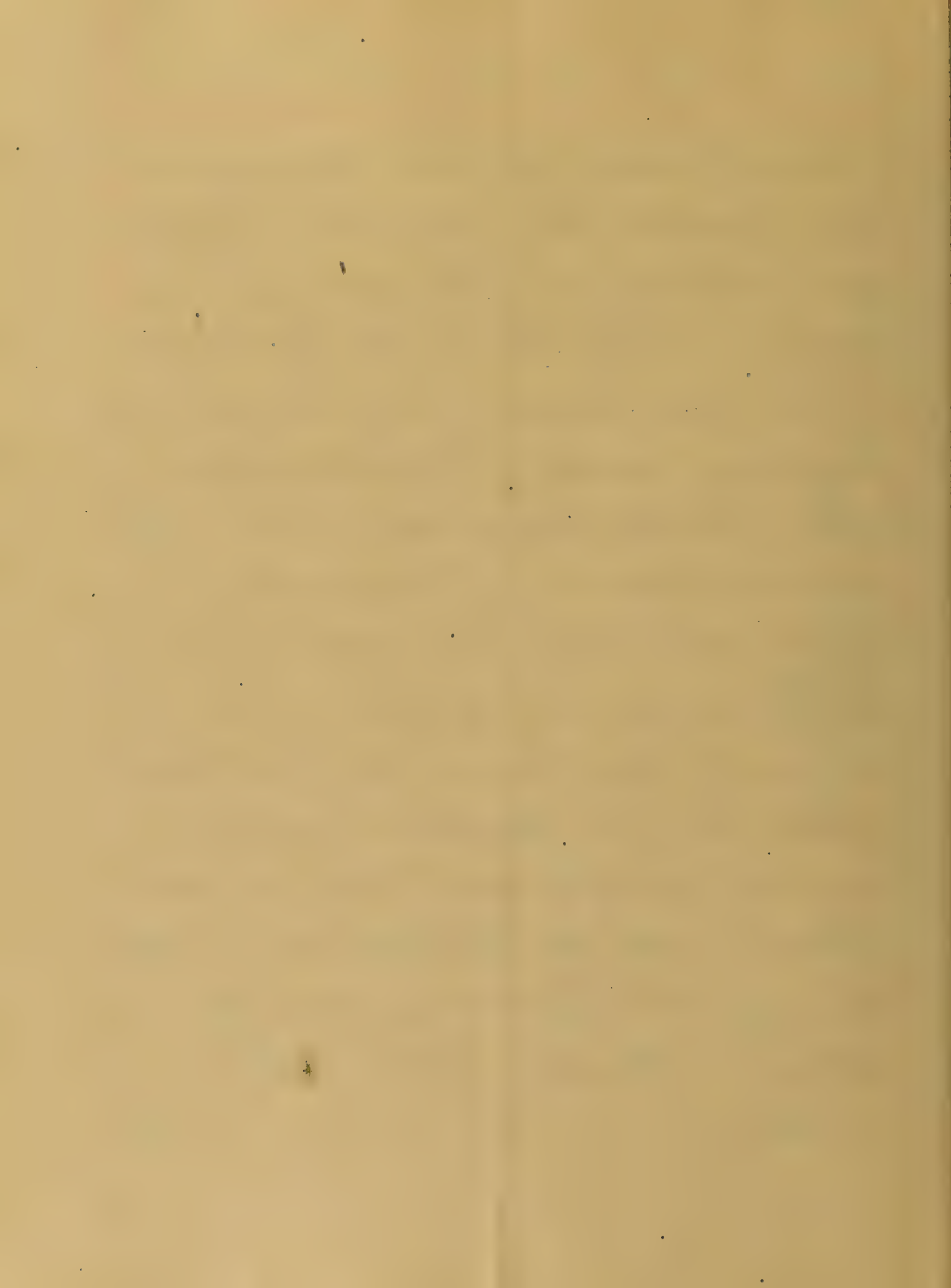
This area is considered by some to
be productive of typhoid fever. It is
doubtful whether this alone ever
causes it. Georgetown is a beautiful
little city in the north western part
of So. Car., near the Blue Ridge
Mountains. The air is cool & breezy,
with but little wind, and is
decayed, vegetable matter being largely
productive of disease; yet typhoid
is not the endemic fever of that



mountain city. It is not the case
of this disease as that from a serious
partly microscopic, occurs rising in the
atmosphere from the lower part of the
State which are then deposited in
the rain & snow on the mountains &
there is a great deal of original
forest & by a sort of insurrection in
the summer months, produce their
mortality. This seems not unrea-
sonable. - It is observed some instances,
the largest number of cases occur
between the ages of twelve & thirty,
& support here is one of the times &
then again appears in some cases
twice. - Summer does fall appears
to predispose to the disease by causing



to each member of your society in
the summer & winter months. I should
have attacked the two series about e-
qually. All these, contagious, ma-
laria, &c. season may be called pro-
trahent causes of Typhoid fever.
On the humble opinion of the writer
it is not any one of these which
produces it but rather a com-
bination of all of them. The
origin of this disease as of all dis-
eases is the greatest uncertainty;
and it is to be hoped that at some
period not far distant science will
discover the true cause so that it
may be cured; and, better still, pre-
vented.



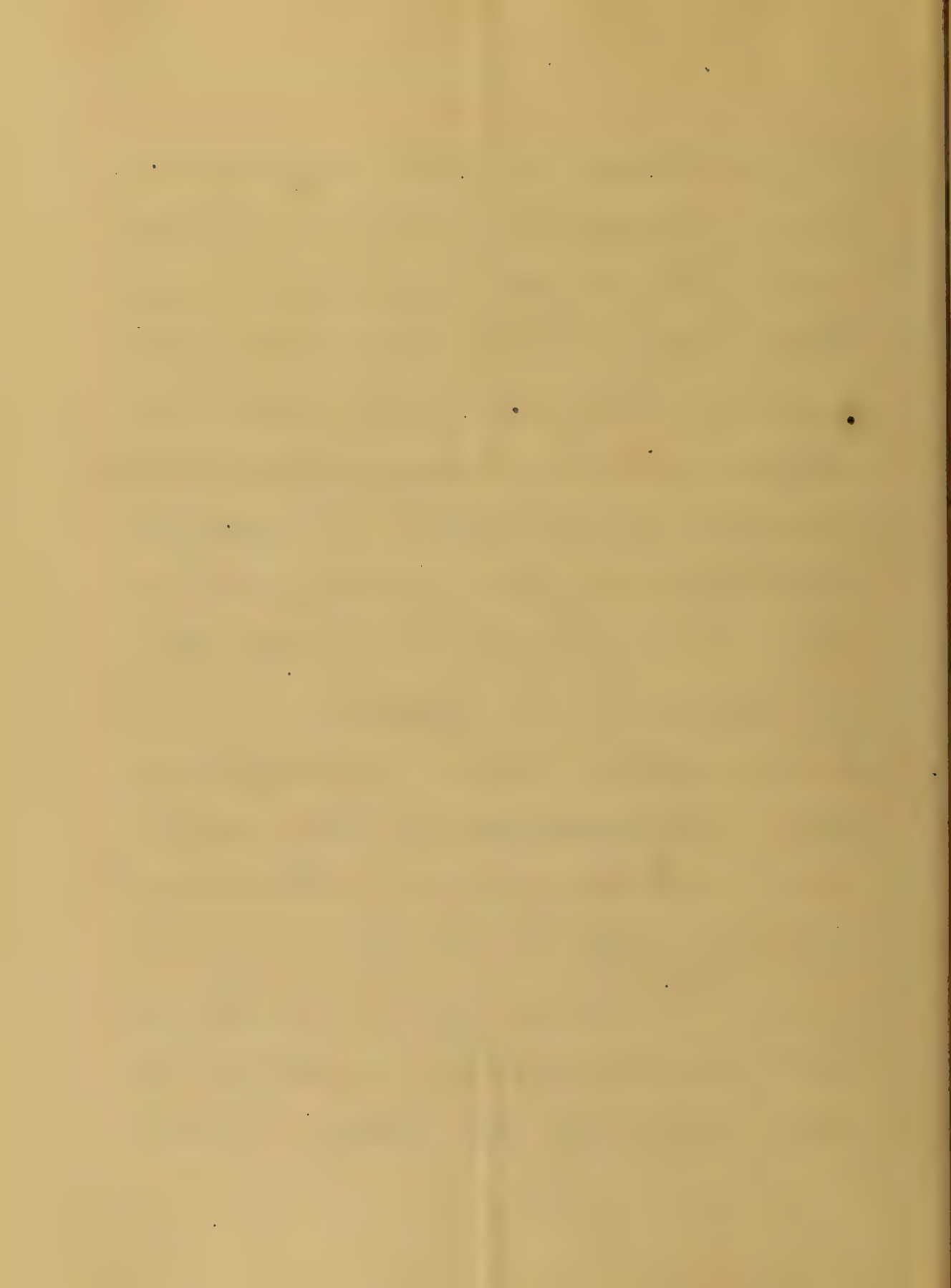
Cholera History & Symptoms.

This affection is usually divided into three stages the prodromic eruption & stage of decline. The person presents ^{no} ~~very~~ characteristic in the first stage: & sometimes there are no appreciable phenomena in this stage. Anorexia, epistaxis slight diarrhoea frontal headache, tympanites chiefly sensations & general malaise are the usual symptoms attendant upon the beginning of the attack. The eruption of the second stage is considered pathognomonic of this form. It begins about the second night or when the patient takes to bed, appears principally up

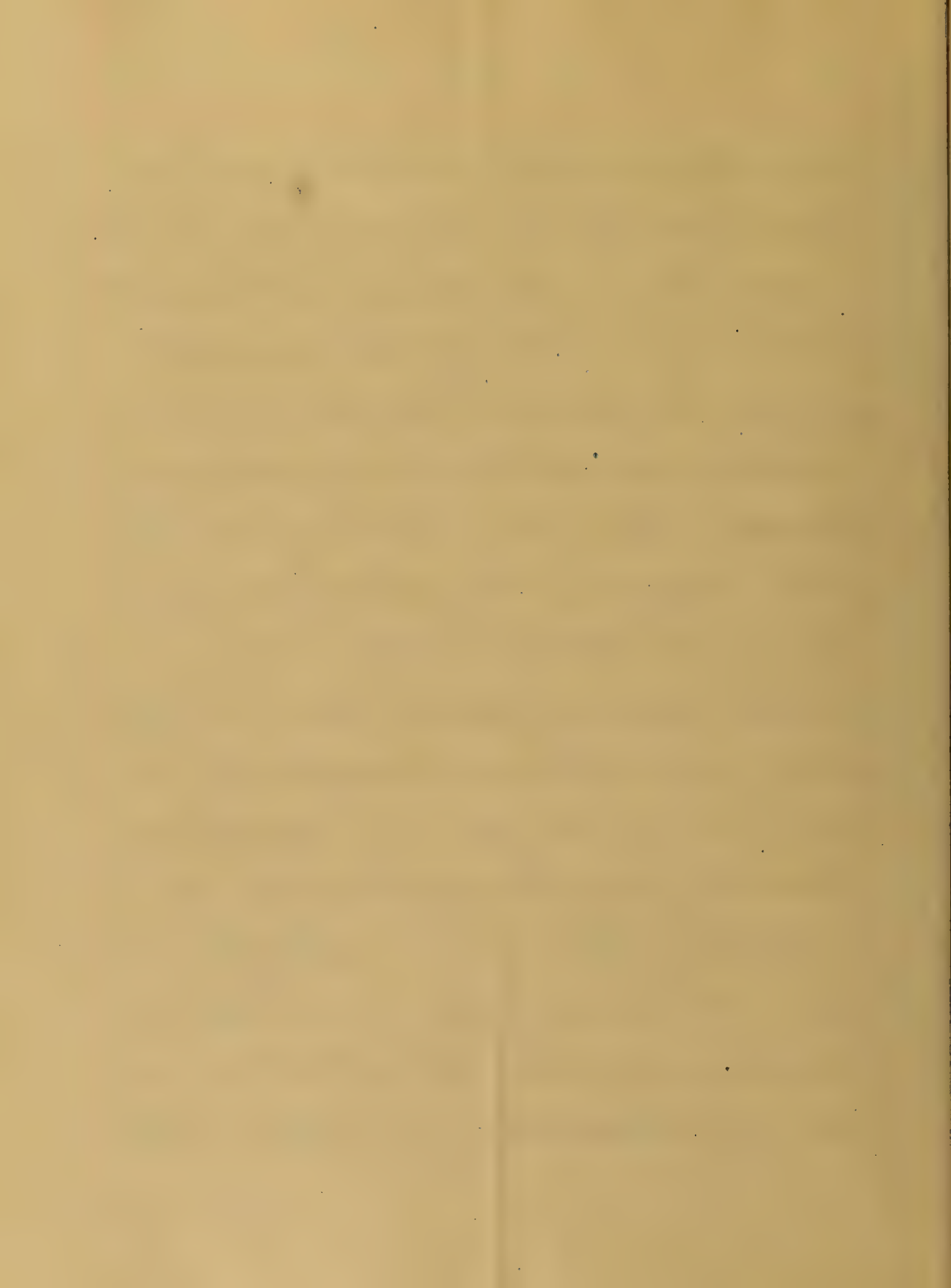


The attack is of a ~~very~~ ~~acute~~ ~~character~~
but it passes away on gentle press-
ure. This symptom is present in about
three fourths of the cases, & generally
continues throughout the successive
stages, sometimes changing from the
front to the back. The second &
third stages are often indistinguishable, and
will answer therefore to consider the
symptoms of both together.

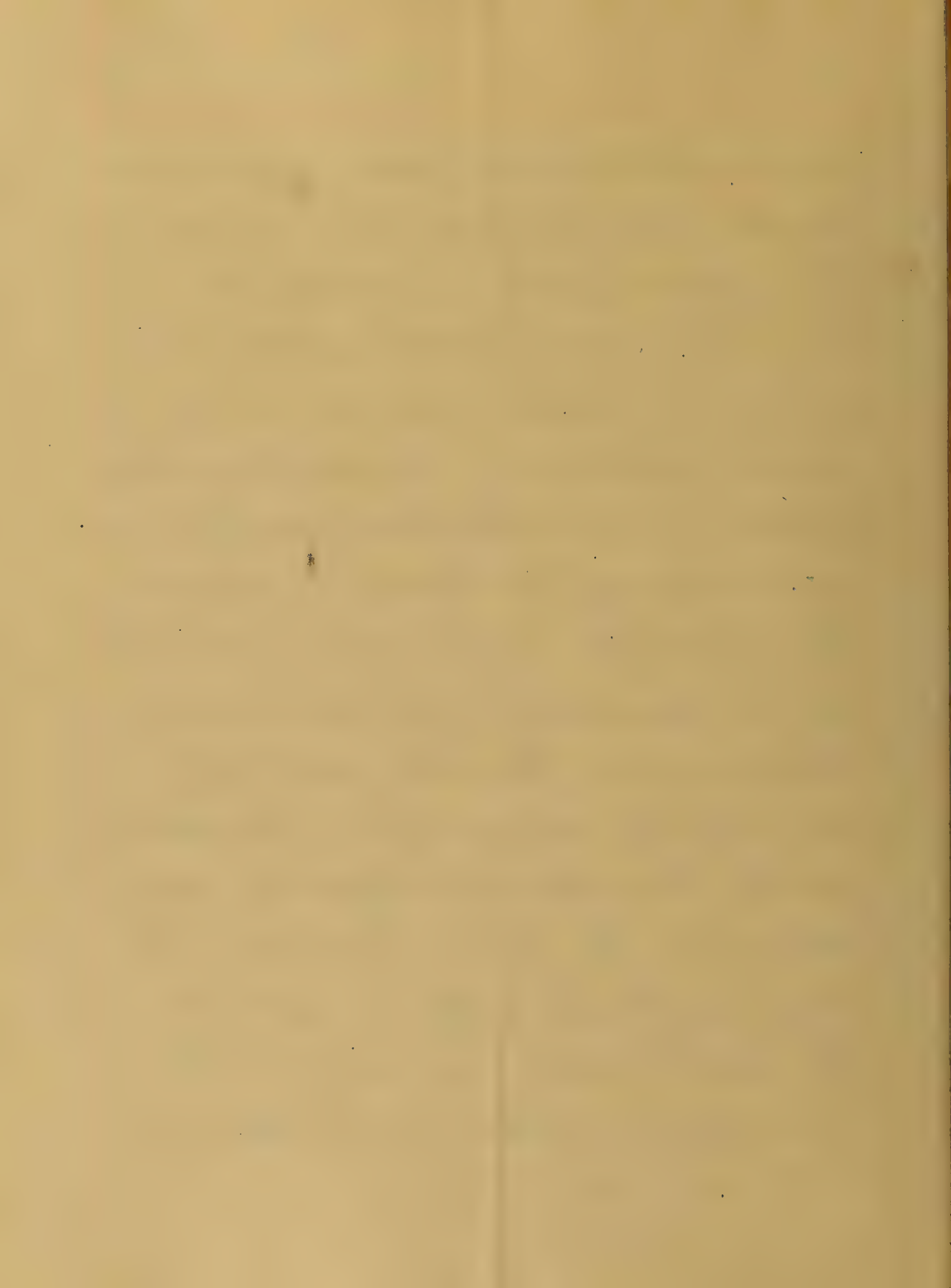
Nervous system. - Pain in the head, particu-
larly in the frontal region, is often noticed
with intolerance of light. This occurs
most frequently in the big ring of the
face. Relicium of a more or less vio-
lent character is present in nearly every
case. Generally the person is affected



from sleep and it asks some in-
sistent question. Or he may appear to be
with some one for a moment then fall
into a low muttering delirium of the
saying he wants to go home or his
remarks may relate to his ordinary
pursuits. This kind of delirium is of great
use in diagnosis. Exceptionally the delirium
is hysterical & active, & when per-
sistent is an unfavorable omen. Picking
at the bed clothes or at imaginary things
in the air, is a common symptom.
Twitchings of the muscles of the face
& extremities, & various sorts of the ten-
dons of the wrist are various kinds of
several or may be referred to the
same phenomena. Symptoms of a

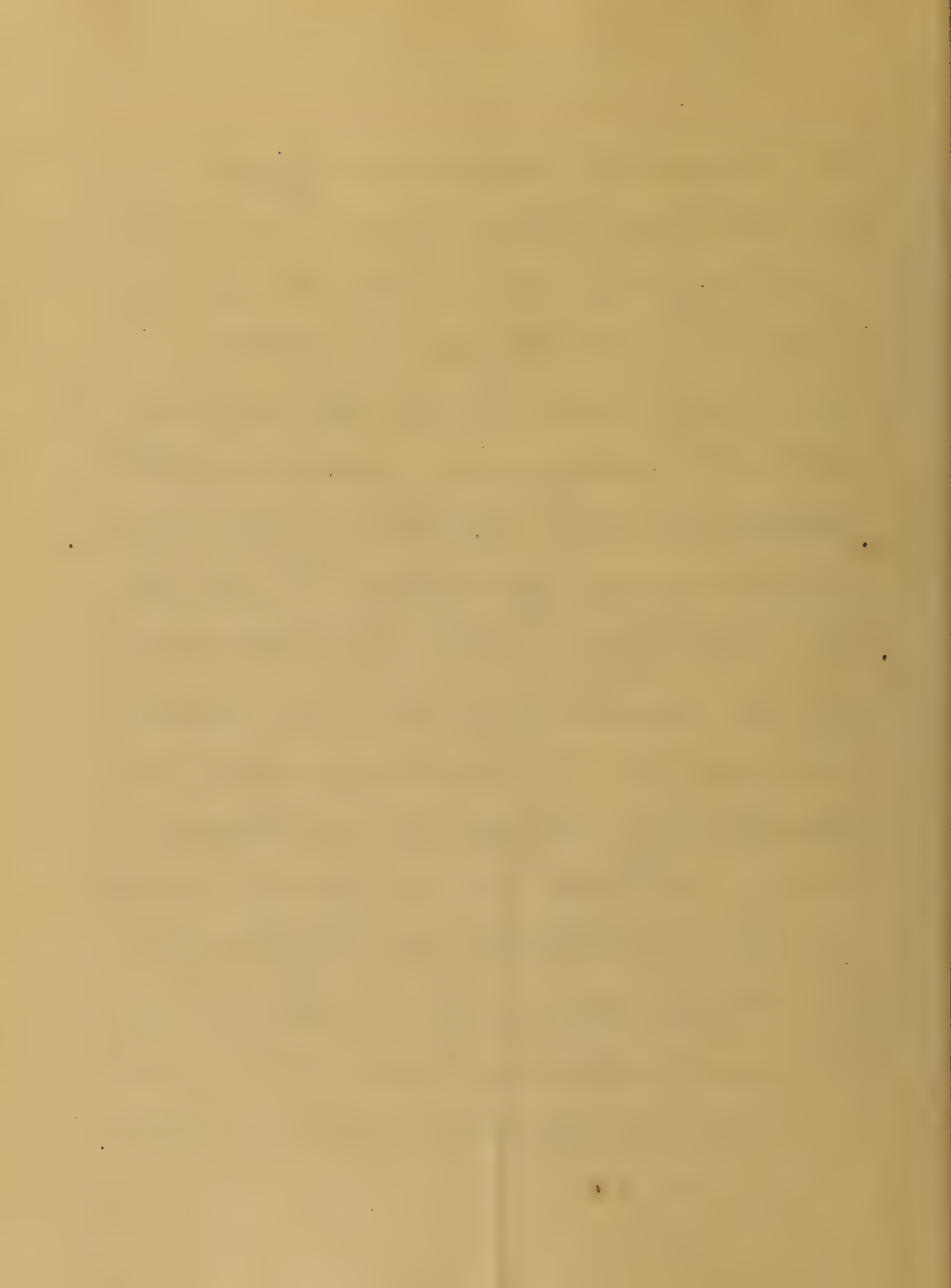


existing disturbances are very charac-
teristic. Nausea & vomiting are some-
times present while prostration is ex-
treme. There are nearly always delir-
ium. The patient may not talk for
hours but will usually drink if he holds
to his senses. Diarrhoea is usually present
and is one of the diagnostic signs.
The discharge is of a yellow color. It
may be hemorrhagic from the lower
bowels. The teeth grow and
is likely to occur during the second
week. The edge of the tongue is usually
red, with the centre brown. The
parotid glands may be involved, or
the writer has seen very troublesome
abscesses in them formed during



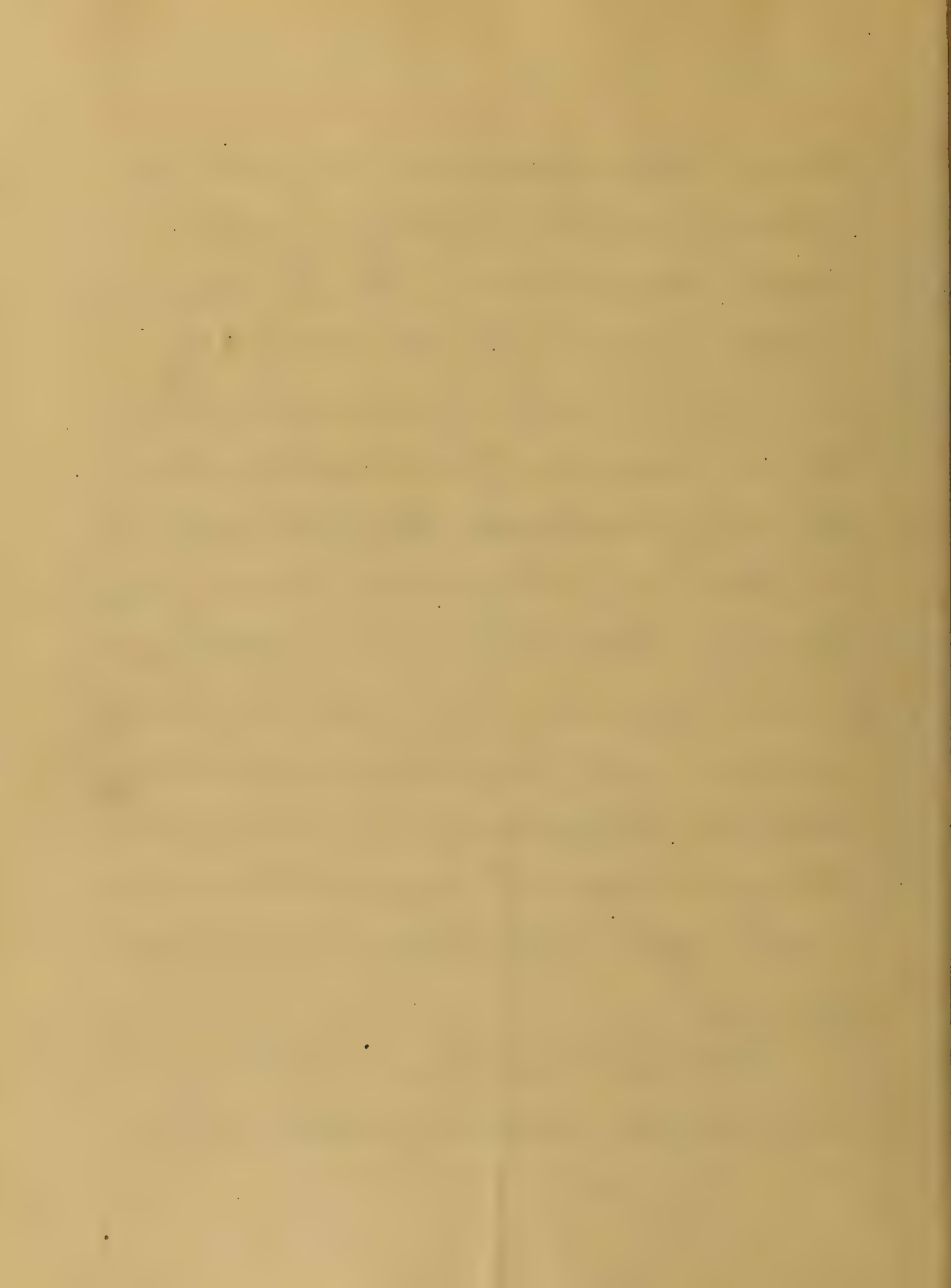
The progress of the fever. Tenderness
in the right iliac region, combined
with guarding, is one of the most
important abdominal symptoms.

There may now be complained of a
felt bill pressure is made on the
abdomen. If perforation of the in-
testines occur symptoms of periton-
itis will very likely manifest them-
selves, such as great pain, marked
increase in the frequency of the pulse,
prostration, frequent vomiting
&c. There is a steady increase
in the circulation and temperature
for several days. The temperature
at a rate continues to rise till it reaches
102° or 103° when it ceases and



falls being highest in the evening, especially is this excitation noticed toward, convalescence. It has been recently observed that the number of pulse beats & the degree of temperature do not bear a definite relation to each other; for instance, the pulse may be 90 during the temperature 102° or more, according to the old rule it ought not to be more than 97 or 100. The circulation and temperature continue to be elevated throughout the course of the disease & sometimes for two or three weeks after the person is apparently well.

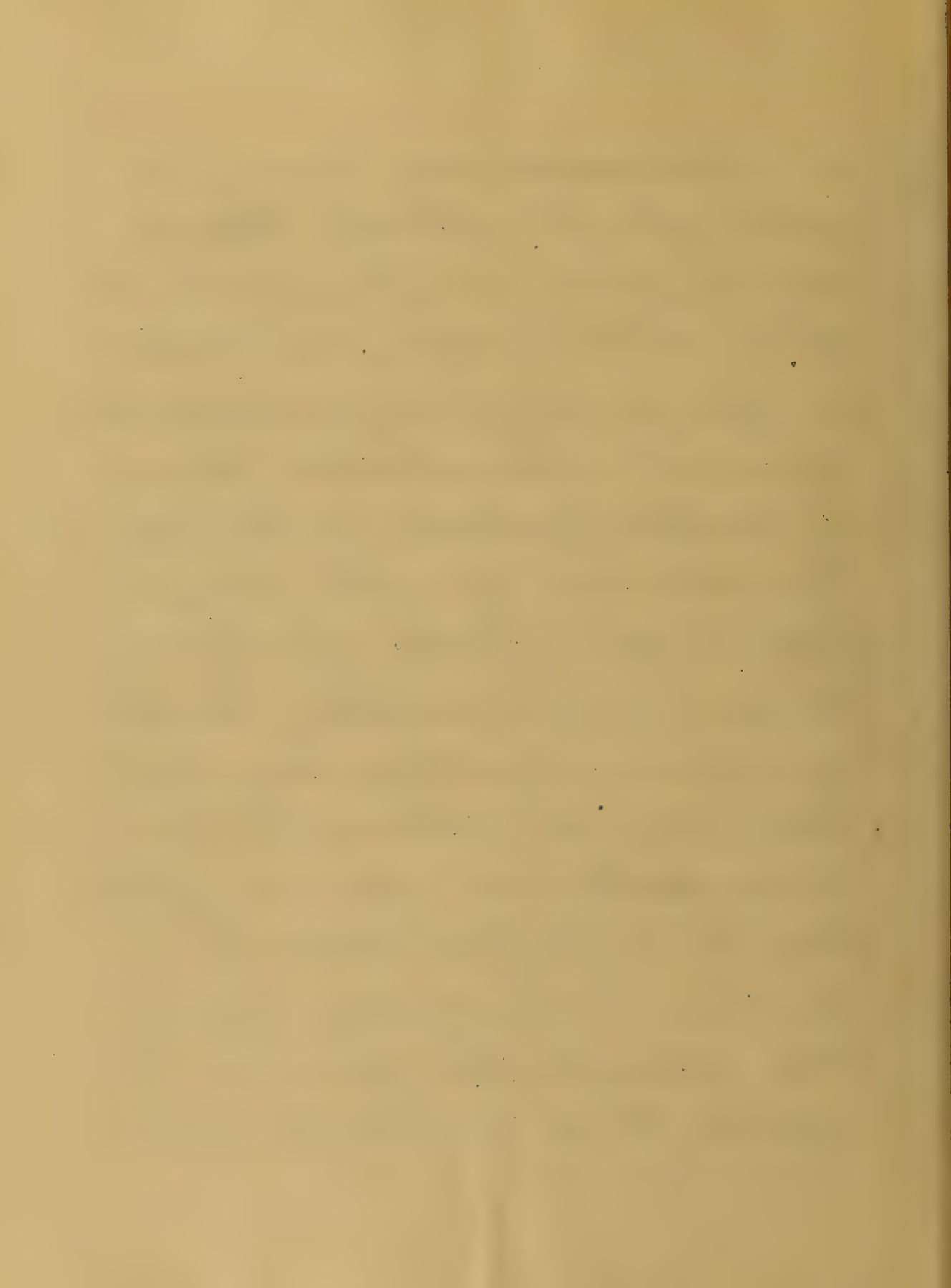
Morbid Anatomy & Pathology.
Post mortem examination does not



... custom characteristic of typhoid fever.
There may be evidence of meningitis
of brain, but this is very likely owing
to complications. The spleen is
tender and enlarged than any other organ &
is usually enlarged and soft. The
liver, lungs and heart may be im-
plicated if so it will be an index
of the complications which sometimes
occur. The most important changes
and lesions take place in the
solitary glands of the small intes-
tines & sometimes in the mesenteric
glands. The large intestines present
nothing characteristic. These glands
may go through the whole process



of inflammation may become con-
solidated, slough & ulcerate. Occasion-
ally the ulcers eat through the wall
of the intestine, and most fatal
consequences result as peritonitis, ab-
cesses, etc. The ulcers fortunately
generally terminate in cicatriza-
tion and healing. The larynx
pharynx and trachea may become
the seat of inflammation. The kid-
neys are usually altered, being found
pale and soft. These are the or-
dinary pathological signs in typhoid
fever, the intestinal lesions being
peculiar to this disease. Indeed
the name Enteric fever has been
applied to it on this account.



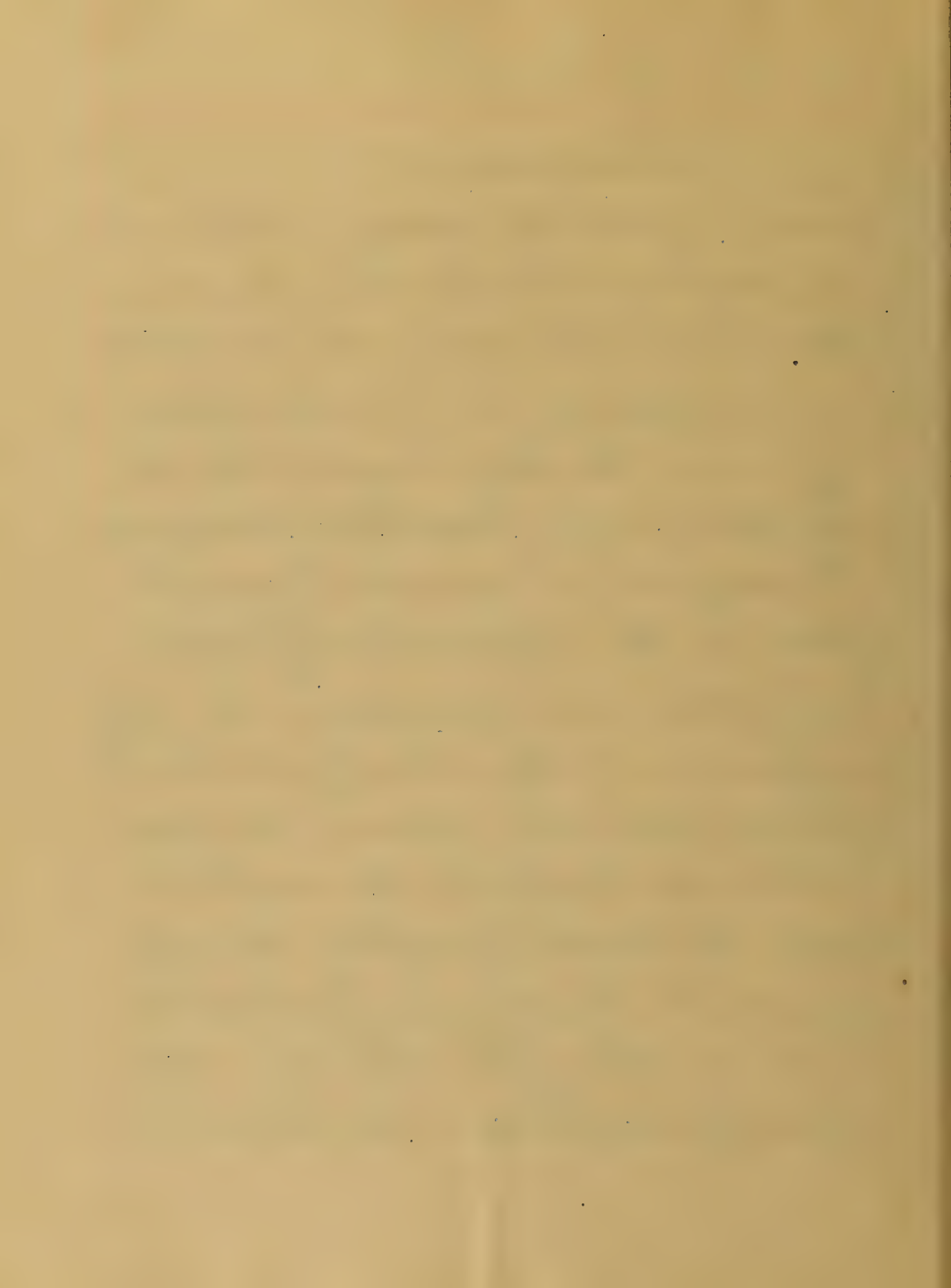
Diagnosis.

This is generally easily made out by grouping together the signs and symptoms that have been enumerated in the foregoing part of this lecture.

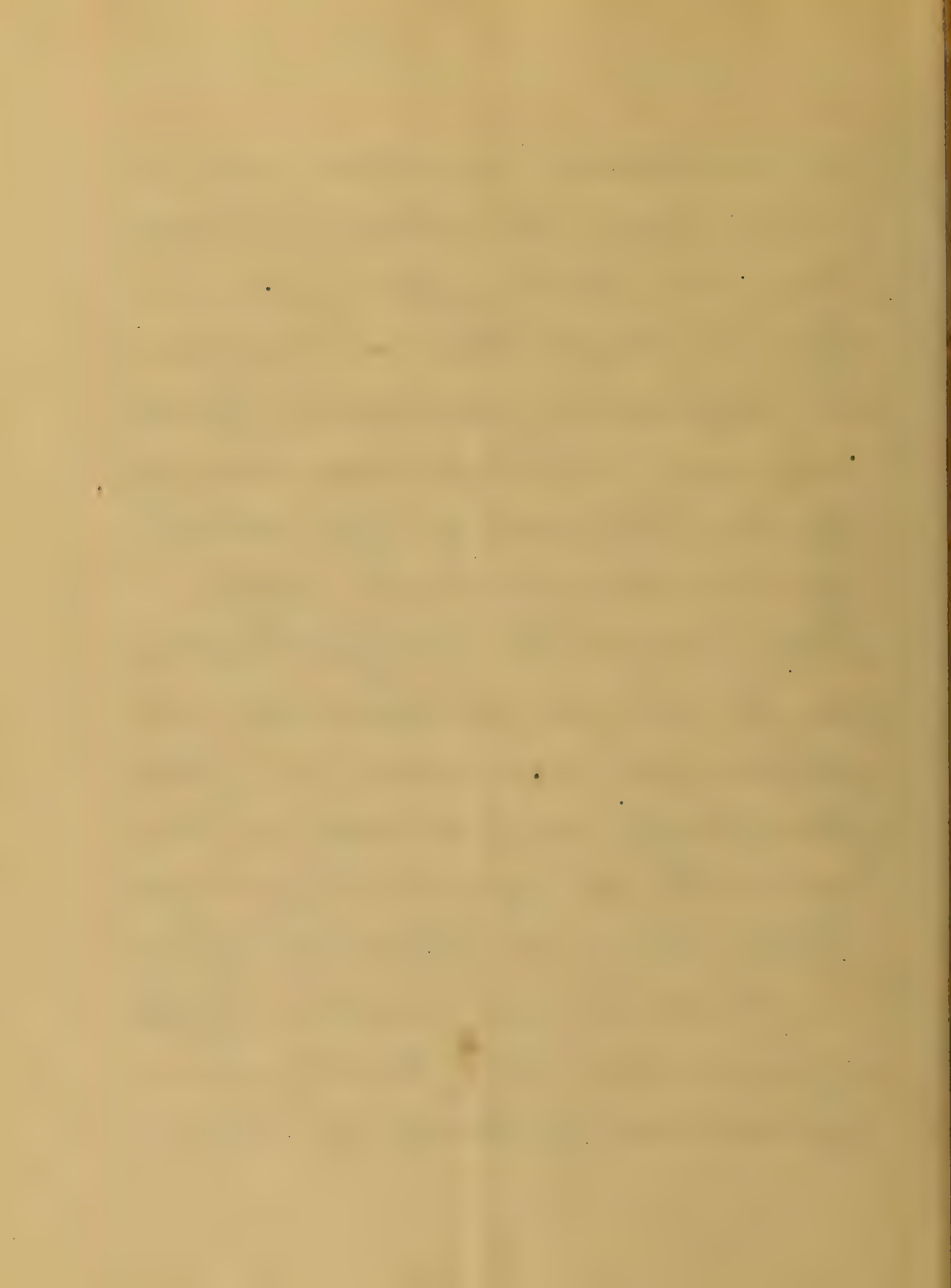
It may however, be mistaken for Typhus and Remittent fever, and it may not be amiss to mention some of the singular differences.

1. Typhus is a rare disease, not being indigenous to this country; while Typhoid fever is of frequent occurrence.

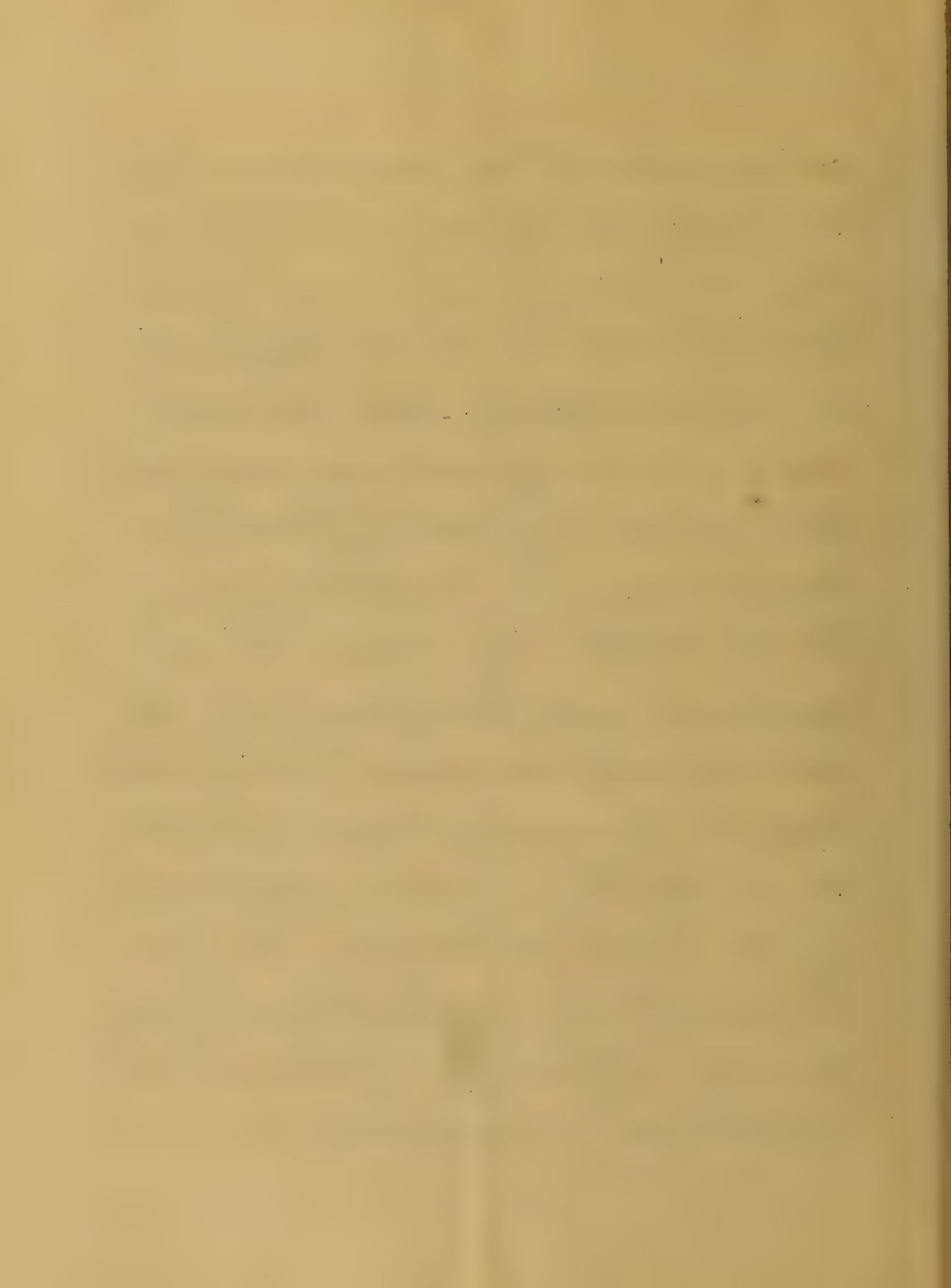
2. The peculiarity of the eruption and abdominal symptoms are sufficient to distinguish Typhoid from Typhus, the latter having a scar, merely eruption with absence of



the intestinal symptoms, and the
disease having the characteristic marks
that have already been given. 3.
Age and season have some value in
the differential diagnosis. Typhoid
never rarely affects persons over forty
five or fifty years of age while
Typhus does affect old people.
There seems to be a physiological rea-
son for this, as we know that the
arteria that are involved in Typhoid
fever atrophy and almost in a
way after the age of forty five years.
Typhoid fever most frequently occurs
in the autumn months. Typhus
may occur at any period. 4.
Typhoid fever is rarely if ever

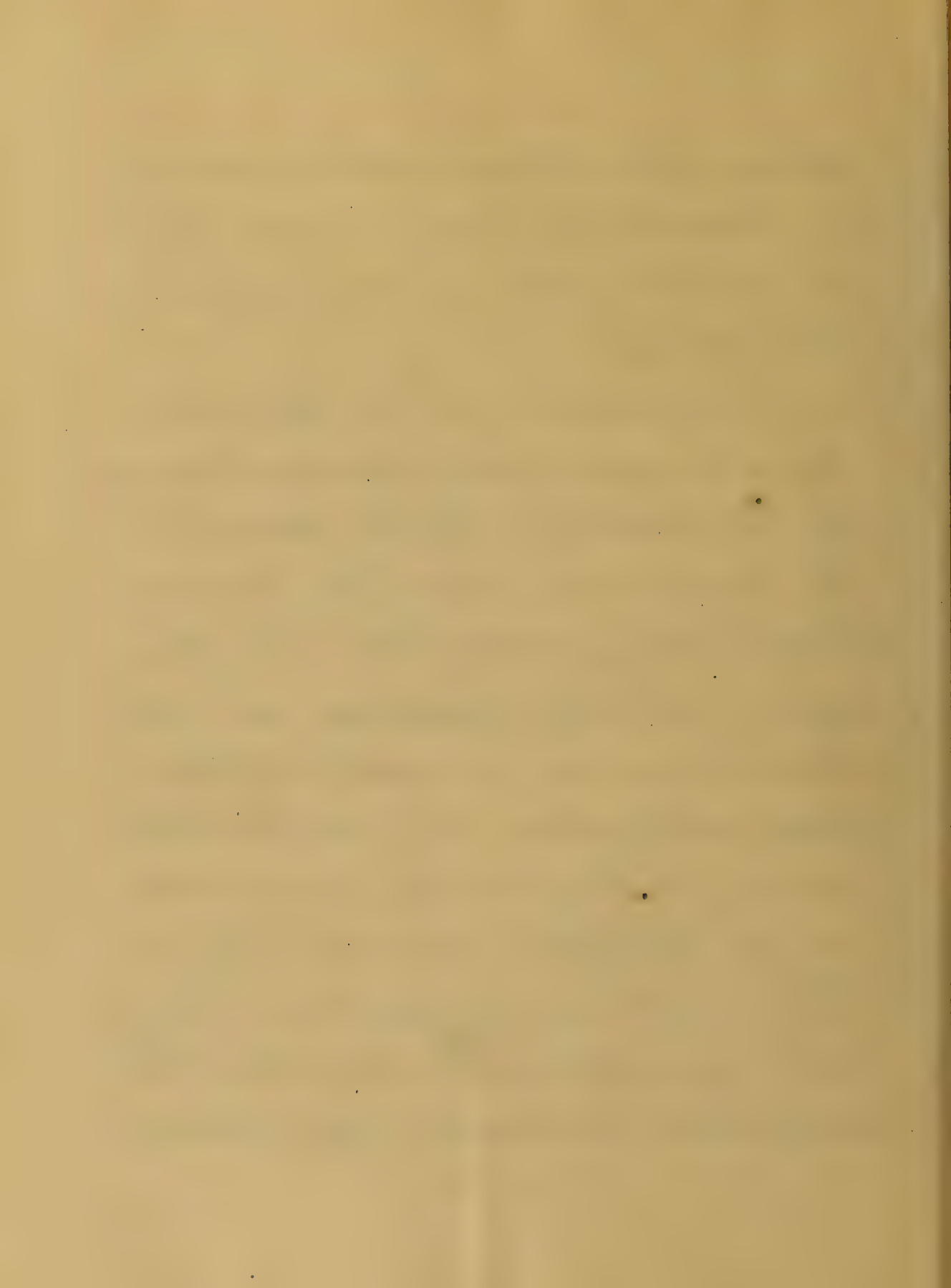


communicated by a single fly
is highly contagious. Having
these differences in mind there
should not be much difficulty
in discriminating the two dis-
eases. It is not so easy to
distinguish Typhoid fever from
some cases of remittent fever
for the latter may have the ab-
dominal symptoms and even the
rose-colored eruption. When this
occurs in a malarial district
it is called Typho malarial
fever. Most cases can be dis-
tinguished by recollecting the pri-
mary differences between the two
affections. Typhoid fever



often has complications such as bronchitis, pneumonia, etc. it must not be confounded with them.

Prognosis The prognosis depends upon many circumstances, as the condition of the person at the time of the attack, the disease usually proving more fatal in a previously healthy vigorous subject than in one of a weak constitution; also upon the complications, most uncomplicated cases recovering. Statistics show that the mortality is about 20 per cent. - Common and violent delirium, comatose state, subsultus cordium symptoms of

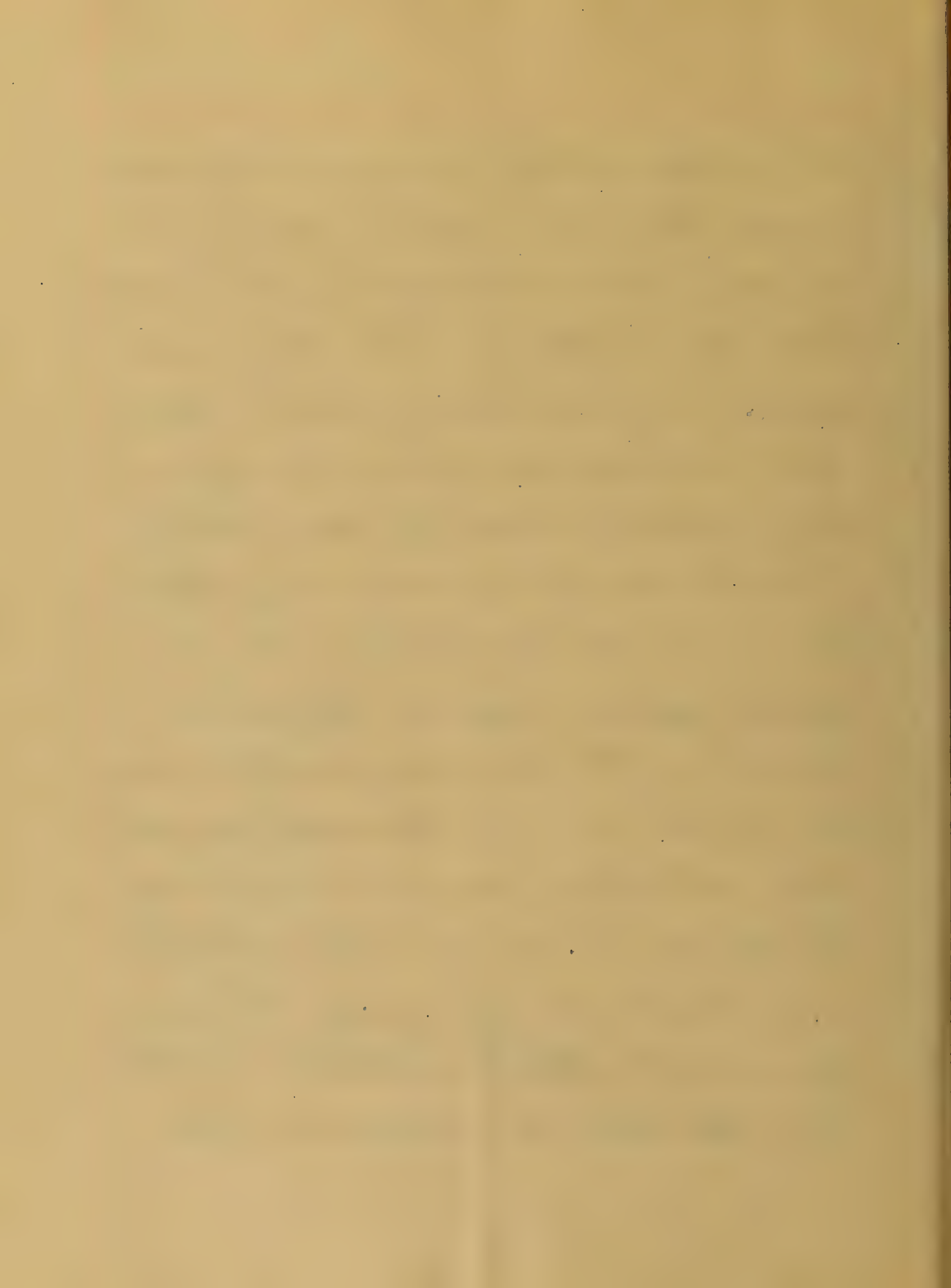


peritonitis indicates a fatal result.
The mode of death is generally
by absorption of bacteria.

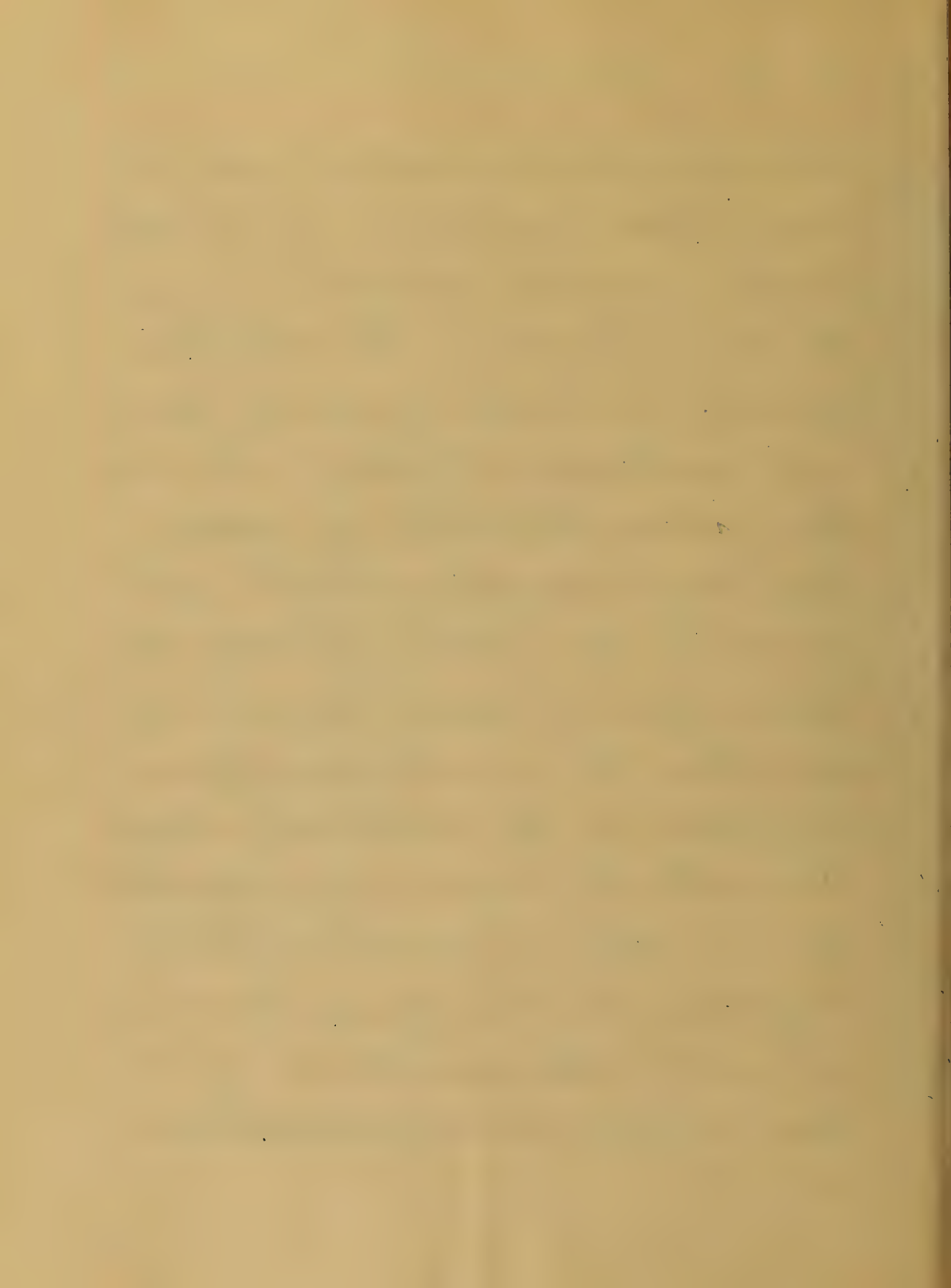
Treatment. No specific or
abortive remedy has been discovered.
The best line that can be given
is to treat the symptoms as they
arise. Nearly every case requires
stimulants, tonics and good nour-
ishing diet. Hutchins's Tonic &
bark is a good stimulant tonic in
30 doses. Alcohol is often need-
ed though some say the patients
do as well without it. Its use
is indicated when the pulse is very
weak and very frequent. Animal
broths and above all milk and



be administered as such, unless
the person, say he wants it
or not, but be careful not to over-
load the stomach. The physician
should give directions about the
diet of the person ^{as} he requires
his appetite, and is coursey.
Fresh air is a very important
point in the treatment, or in a
word good observation requires
it. If the temperature rises
to 102° or 103° it demands immedi-
ate attention, and the best way
to reduce it is by the wet sheet,
cold bath or sponge the sur-
face with cold water. The lat-
ter method is recommended.

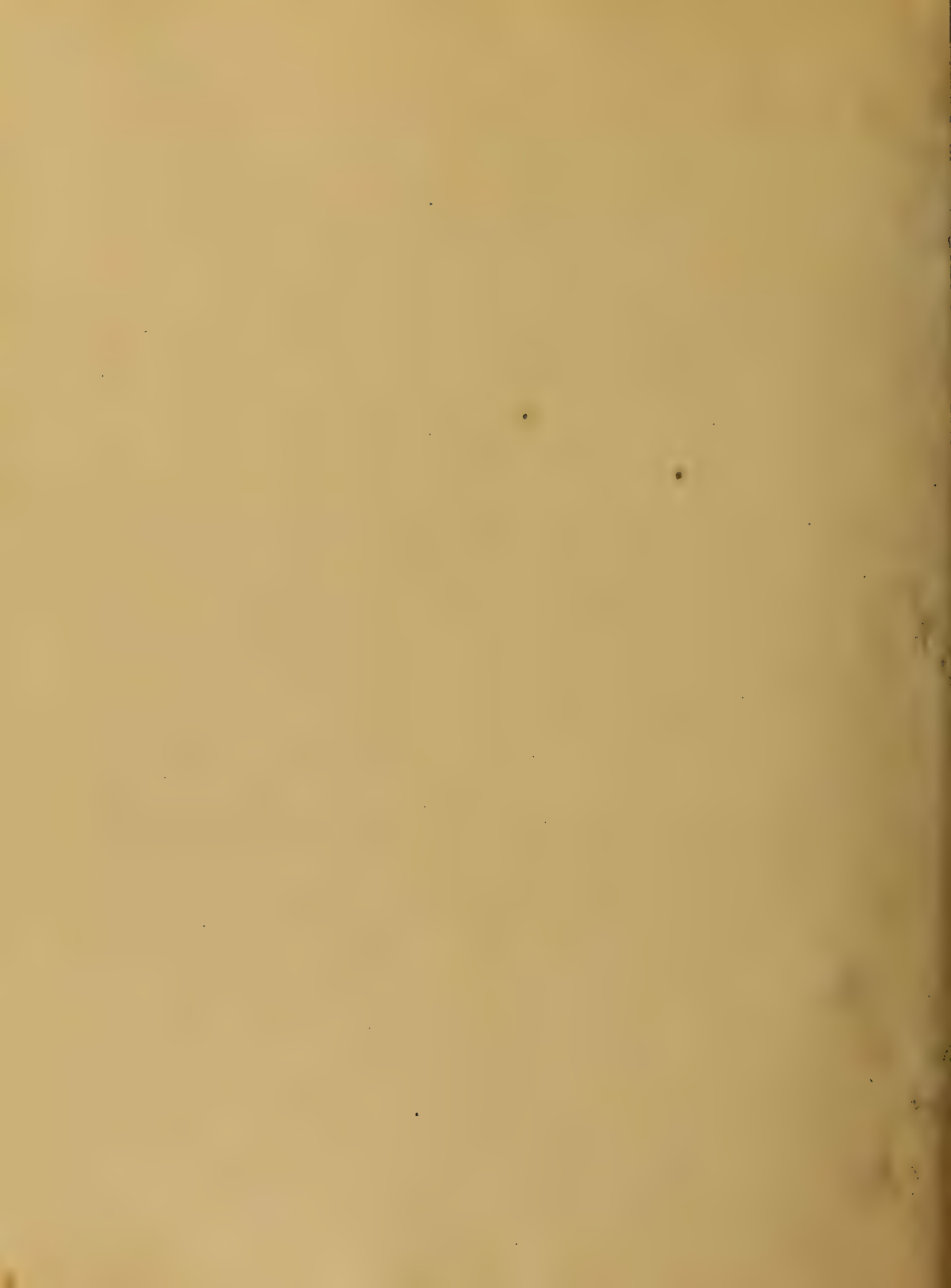


It can also be obtained from the
irradiation conducted by vacuum
tubes 3-6 etc. repeated every five
or six hours. The duration
should be brief in each case
not suddenly stopped. This is
best accomplished by opium,
leaf and Camphor. Cold water
enemas are used by some prac-
titioners with great benefit. If
symptoms of irritation or inflam-
mation of the intestines exist,
5-20 gr. of Turpentine repeated
by re nata is indicated.
Morphia has been found to act
admirably in some cases where
there is continued wakefulness,



and a low muscular telicium. When de-
pletion is contra indicated, Quinine has no
special value in this affection unless there
be distinct intermissions or evidence of ma-
larial influence. The bladder should always
be carefully attended to and the catheter em-
ployed when necessary. Occasionally the
person passes his urine and feces in his
bed, either involuntarily or from indifference.
Bed sores should be prevented against any
properly treated when they occur. After all,
the best treatment in this malady is
not medicine but good nursing.

It is proper for me to say that I have been
by invited Mrs. Watson, M.D. to
write in the



J. J. McGeer

Bellaire C.

"Hereditary"

18.80



Heredit.

Heredit. is that Law by which
all things endowed with life
tend to repeat themselves,
Here I a visitor on this planet it
seems to me, this is the first
thing that would attract my atten-
-tion, In every class of the animal
and vegetable kingdoms, what a
similarity! How long has this
similarity existed? would be the
question that would naturally
suggest itself, The oldest history
we have tells in its first pages
of the creation of all things, and
that the living, moving creation
brought forth each after its kind,
Thus ever since the world began.



or was set in motion so long as
the law existed. And as long as it
continues to hold its place in space
so long will it continue to exist,
and its influence be felt.

In the vegetable kingdom is the
perfection of this law most clearly
shown; modified only by climate,
the seed produces a plant which
retains all the beauty and perfection
of its parents. From the tiniest growth
to the grand trees of the forest we see
with what mathematical precision
the truth of the above is verified.
And what true copies the vegetable
world make. The plant with roots,
stem, branches, and the order in which



19

They come off. leaves, with its many dif-
ferent shapes, and the flowers with all
its complications of Calyx, corolla,
stamens, petals, pericarp and seed,
are all the facsimile of the parent
plant, also, if the parent was an
annual, a biennial, or perennial, so
also will be the plant produced by
its seed. The size depends much on
climate, which modifies it to a great
extent, thus, in the warm climates
we have the most luxuriant veg-
etation, tallest, and most gigantic
trees. In the temperate climate we
of the same species a more moderate
growth, and in the cold climates the
tenderest vegetation is wanting, and



nothing but the kindiest of trees are
found and of the smallest size.

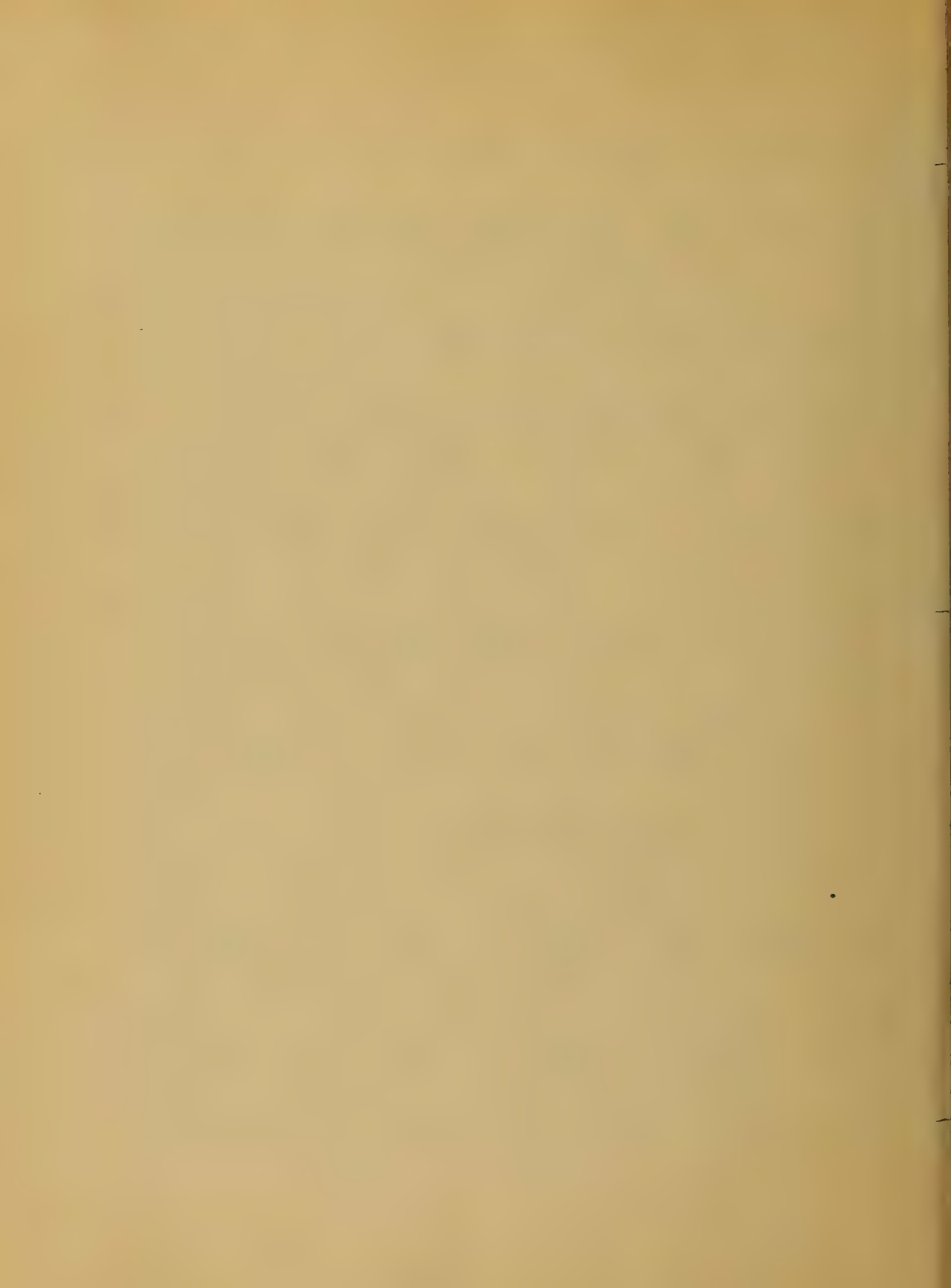
The oak is found in all climates,
and in the warm we find it the
king of the forest, huge in propor-
tions, and majestic in beauty, and
it is the more wonderful when we
know that it came from the insig-
nificantly little acorn which covered
its head in the earth, and was aroun-
ed from its sleep in due time by
the influence of the growing showers
of spring, bursting its shell, sends
its roots into the earth and toward
the heavens - it shoots its stalk, we
look and marvel, saying, The infants
of the giants of terror!



Its leaves are in pairs and are
identical to the leaves of its ancestors,
the coach shape. Oblong, sinuate, pinnat-
ifid, pubescent beneath, lobes obtuse,
entire, narrowed at their base,
The ^{wood} is ^{so} common that the school
boy can easily distinguish it
from any other variety.

The bark presents peculiarities
that cannot be mistaken, and
is selected for tanning, being
rich in tannic acid.

It is as obvious that nature ever
imitates herself in the animal as
well as in the vegetable kingdom,
In the feathered creation we see
to what a remarkable extent, the



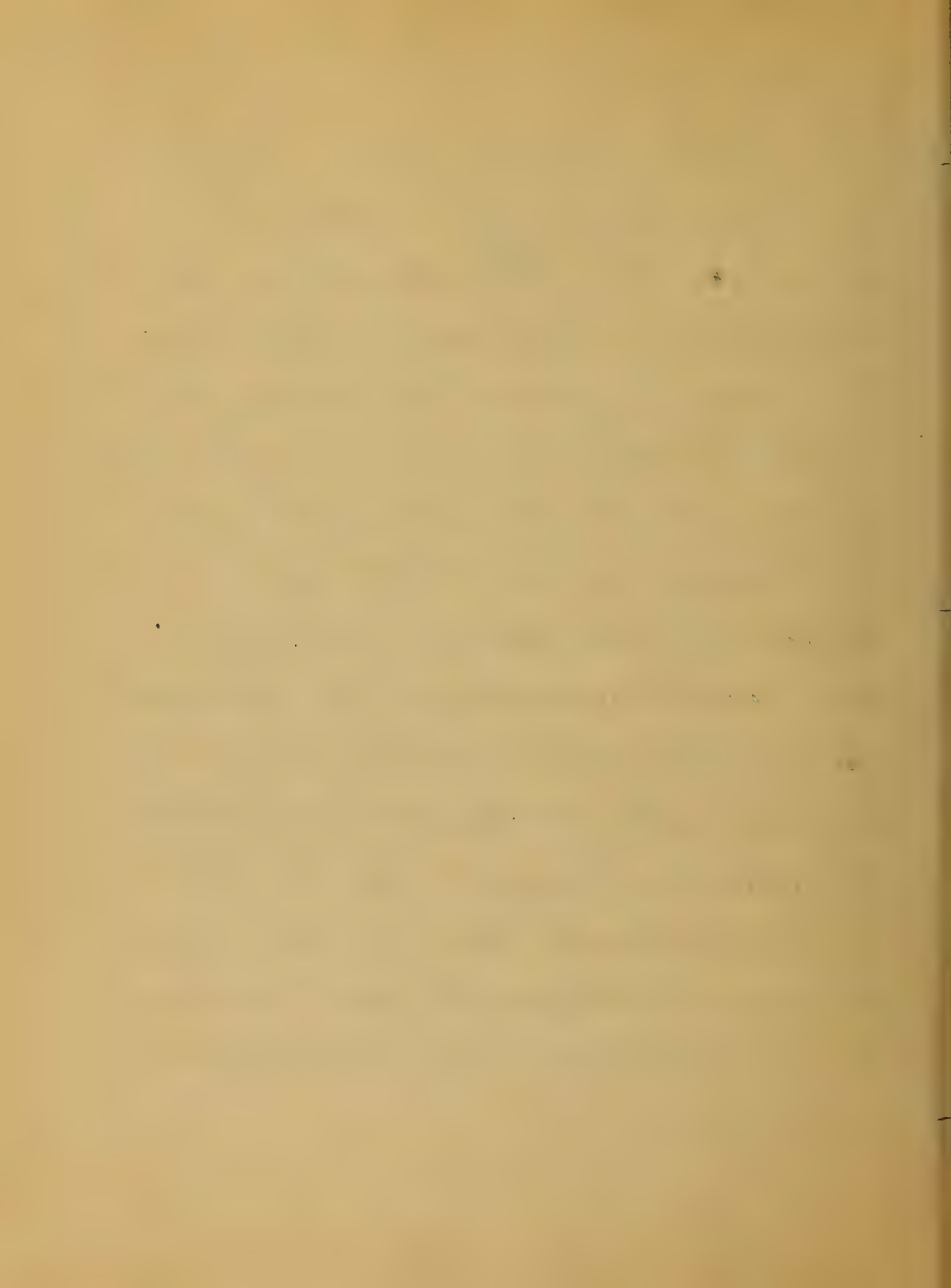
great low ground. From the
insects, and microscopic insects,
to the largest of winged birds,
we see daily many striking
examples. The color, shape,
instincts and peculiarities.

The duckling, which has not
yet seen one of its species, hatched
by a hen, all goes well with all
within her family, 'til she takes
them to near the brook, when to
her great astonishment in the pa-
use we have seen with what efforts
she tries to persuade them to
abandon the water by running
along the edge and calling in
her plainest accents, but to no avail.



They continue their game. The in-
struction taking for water is
stronger than the persuasion of
the old hen. We could soon class
the duckling, from its having the
"web feet," showing it to be a water
fowl, else its flat bill tells us
something, and its short legs.

The prosperous farmer recognizes
and tries to account his knowledge
of heredity. He modifies things of
pleasure, his grains, corn, wheat, oats,
rice, barley, changing them all from
a low grade to high, simple, to
sowing the best as 'picked' seed,
saying, "what we sow that also will
we reap."



For a inferior grade, he transforms
his animals into sleek and well pro-
portioned stock. Thus, from a run-down,
rough, breed of cattle he manufactures,
as it were, a breed of smooth and
curly, kept animals, for which he can
find more ready sale. The way
he does or brings about the change is
as follows. He procures a male of
the breed preferred, and brings togeth-
er him and his rough breed, the
product is of a grade higher than
his first. then with this product he still
keeps his "blooded" stock and at last
he reaches the point nearly at par.
He manipulates his horses, sheep and
hogs, the same as the cattle,



When a sporting man wants his horses
to be fleet, and this is the way he
gets them, he brings together a
"fast" mare and a "fast" horse, and
the colts will most surely be swift,
also have shape, strength, and color
also all the peculiarities of the mother
kicks, jumps, bites as is a run-away
the colts is very likely to be of the
same disposition. With dogs the sport-
ing men take for fleetness, the hound,
for "wit" the bull-dog, for knowingness,
the shepherd, with the three varieties
he obtains almost any kind of dog
he wants. Thus he wants a knowing
dog with "gait" he combines the gait
of the "bull" with the knowingness of shepherd.



All along down the grades of life we see this inevitable law manifest, from the lowest to the highest, even man, the noblest of all creation must be submissive. Heredity extends over all the elements and functions of his organism to his external or internal structure, his special characteristics, his acquired modifications, and his maladies.

Of his internal structure.

When looking at the infant, the first thing that attracts our attention is its resemblance to one or both parents. Every one ready to say "It is the very image of its mother," or if you want an enemy, say it resem-



— The same are these, and you have seen,
 Everything speaks its rank, rank,
 head, nails, hair, and expression —
 characteristic features.

It would be considered an anomaly
 indeed, should ~~not~~ the hair of an
 infant born of "red-haired" parents be
 otherwise than red,

2) His internal structure,

Excesses and defects,

These, appears often amid procreative
 and procreative, I am acquainted with
 a family, the mother was a corpulent
 lady, and her five daughters were
 also, some of them weighing less
 than one hundred and seventy pounds,
 the heaviest weighing two hundred & thirty



The circulatory, digestive, muscular, and nervous systems, the quantity of fluids as well as solids, Superabundance of blood in some families predisposes to apoplexy, hemorrhages and inflammations,

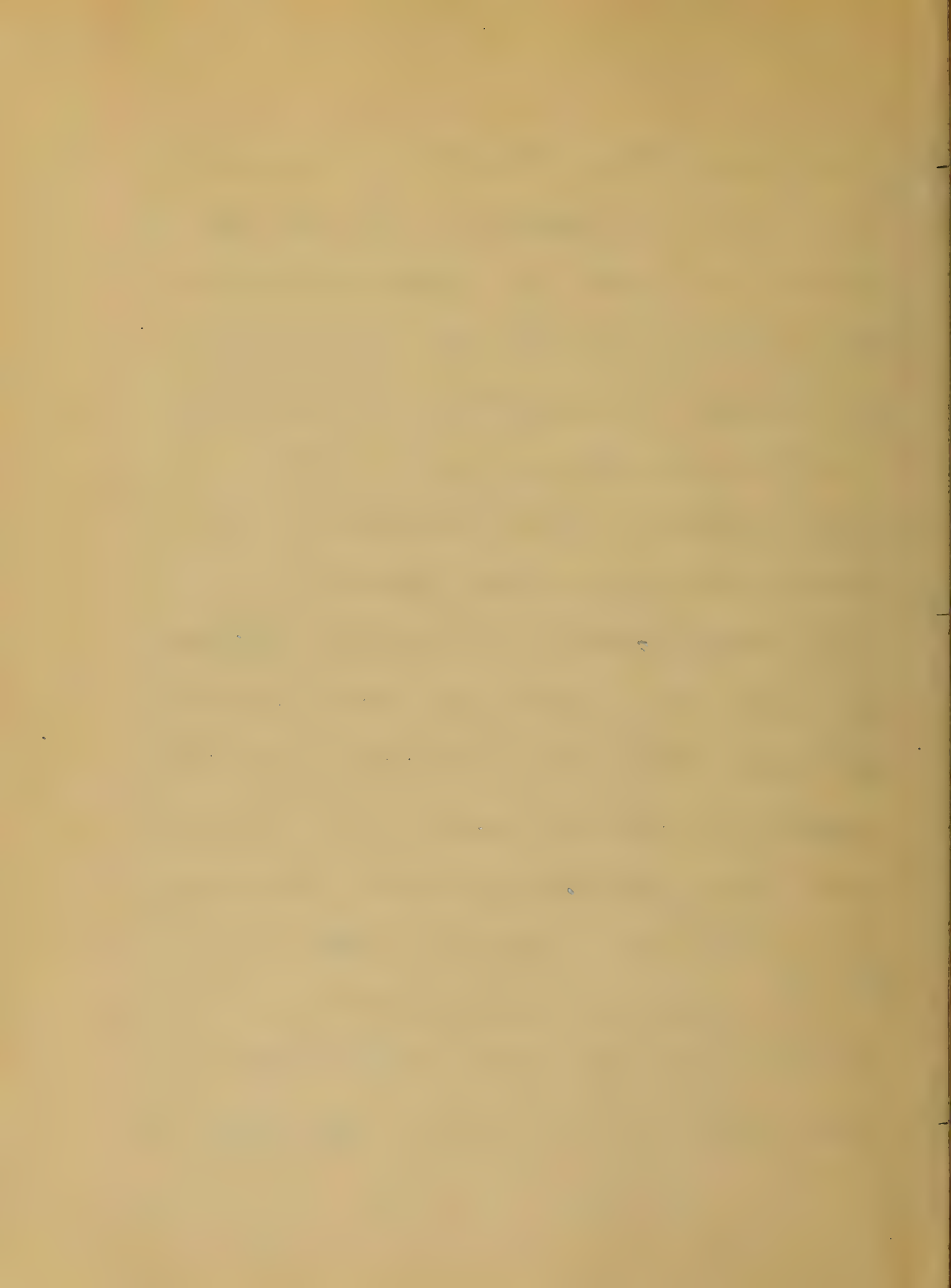
3. His special characteristics

Transmission of mental faculties,

It is observed that nations as well as different families are noted for some special faculty, which they transmit to their offspring, Some music, Some the fine arts, Some sciences, some learning some inventions and machinery,

4. His required modifications.

Faculties of voice, Stammering, speaking through the nose, laquacity.



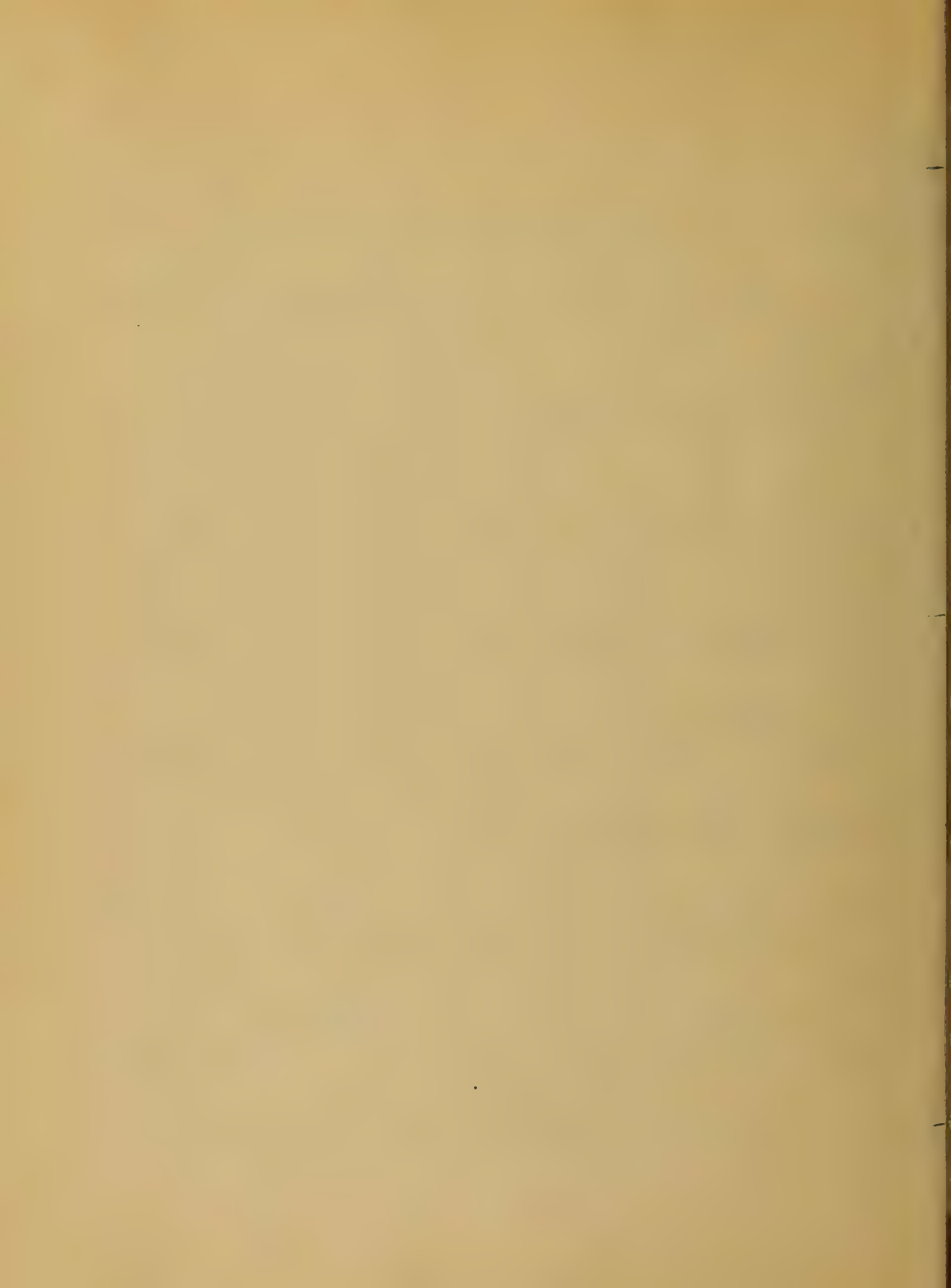
insanity, hallucinations and ideas,
stereotyped anomalies, ticks
hand-lip, albinism, six fingers and toes
etc.

Of his maladies,

Diseases are not less transmissible
than anything else, or at least the
peculiar type of constitution in which
a certain form of disease is likely
to appear.

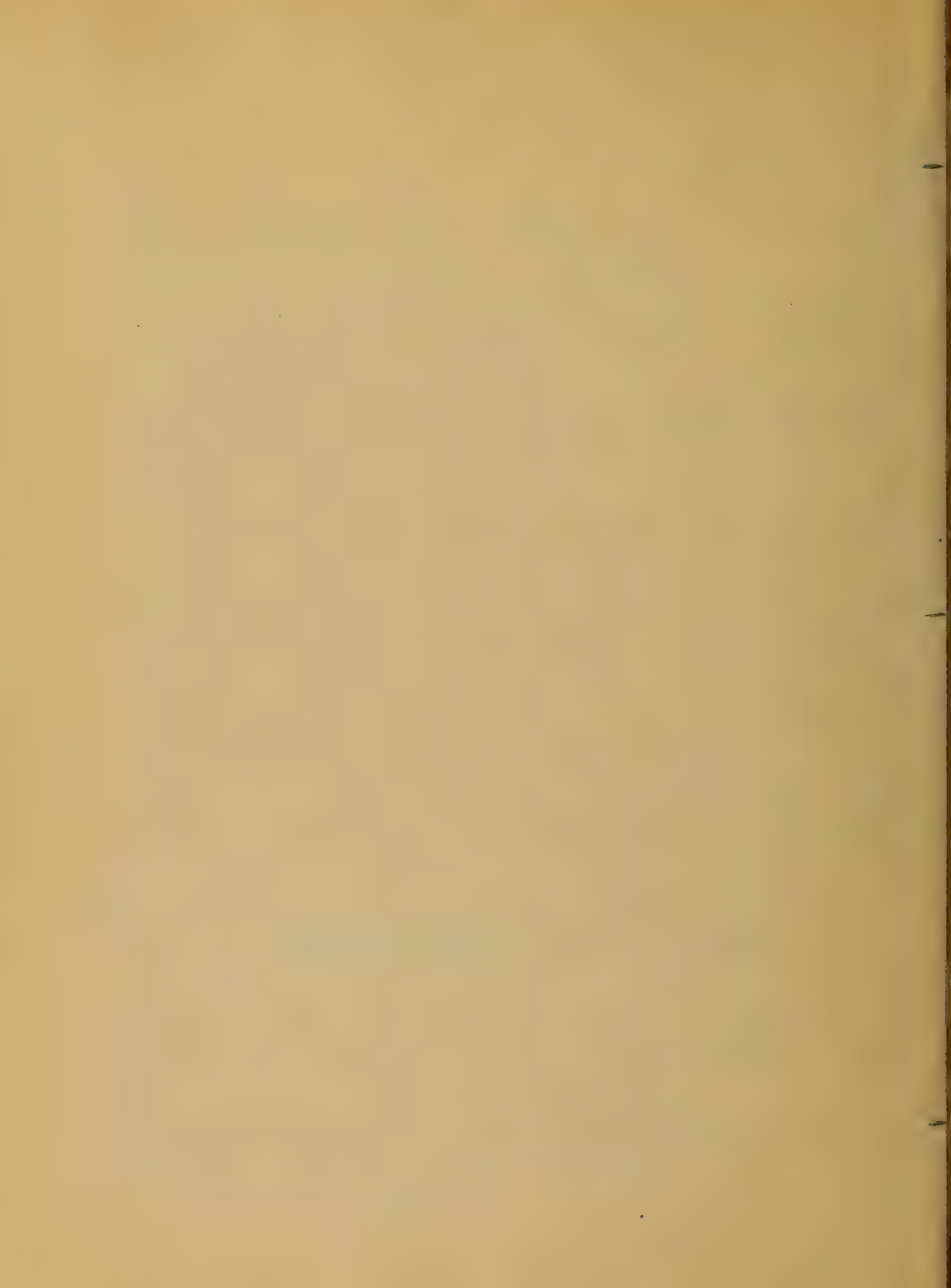
Such is the sin of the parent visited
upon his children.

Scrophulous - If there is a disease trans-
mitted as a disease this is one,
The first thing we notice is, "the
baby has the snuffles." In addition
to this the child is found to have



condylomata about the anus, and
diagnosis is sure. The child is thin,
poorly nourished, its muscles are flabby
and its skin is brownish, cracked,
thick, rough, and unwholesome looking.
Ossification proceeds slowly, and the
fontanelles close late. The second
incisor teeth present a characteristic
appearance. The child looks prematurely
aged; the hair may have fallen off,
even the eyelashes and from the eye-
brows. Also you see a peculiar erup-
tion.

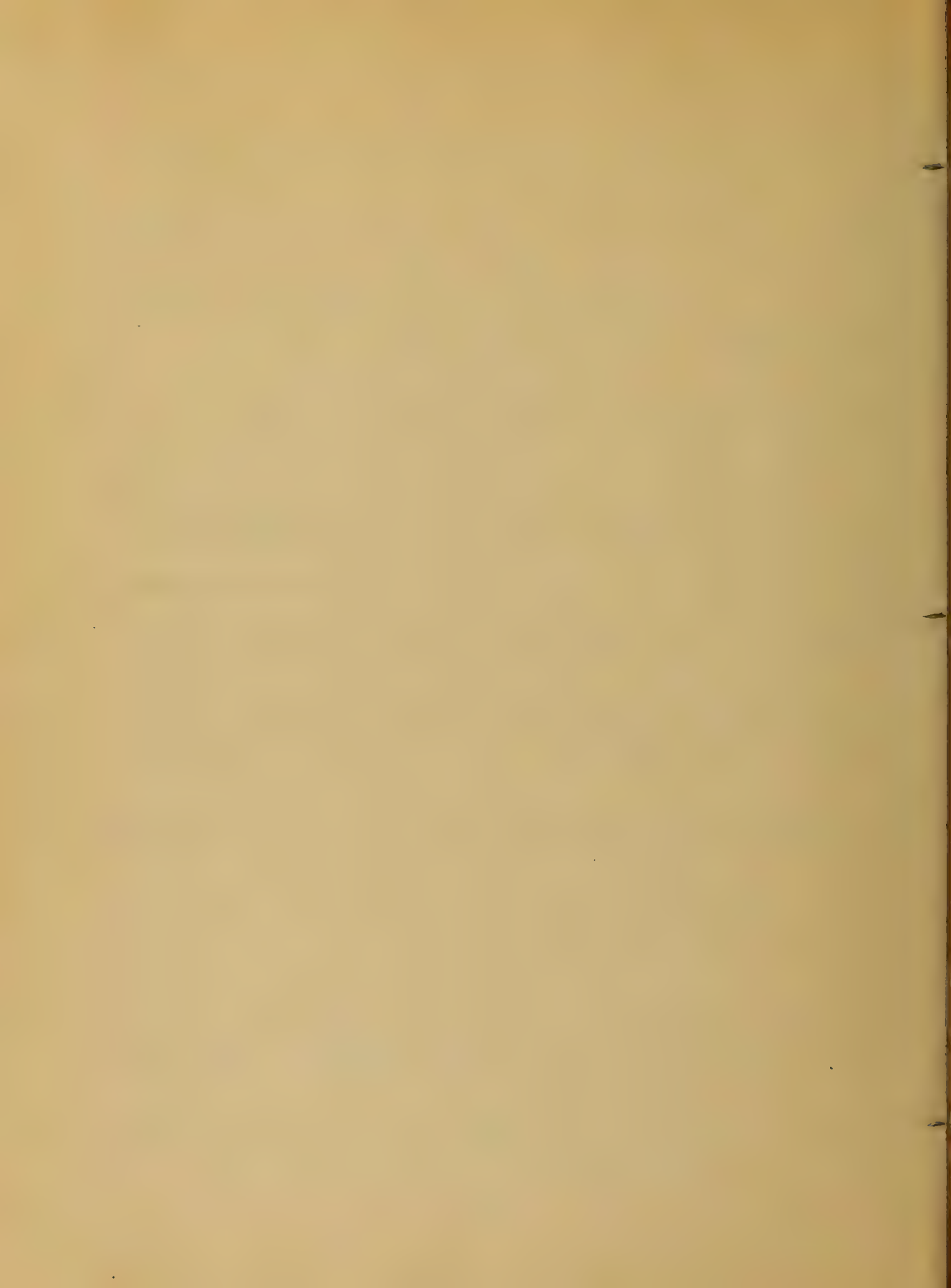
Tuberculosis.—The characteristics of this
disease may be summed up as fol-
lows: thin skin, clear complexion, the sur-
face veins distinct, eyes bright.



capitals large, incisors long, canines thick,
free and, ends of bones small, shape
the limbs straight, and have a highly
developed nervous system.

Scrophulous.- The child is of a
phlegmatic temperament, its mind and
body are backward; it is dull and
heavy, its skin is thick and muddy
looking; its complexion doughy, upper
lip thick, nostrils wide, the alae of
the nose thickened, cervical chain
of glands enlarged, abdomen tumid,
and the ends and shafts of bones
large.

Many diseases are considered as
hereditary, but let these three diseases
suffice, they develop in many forms.



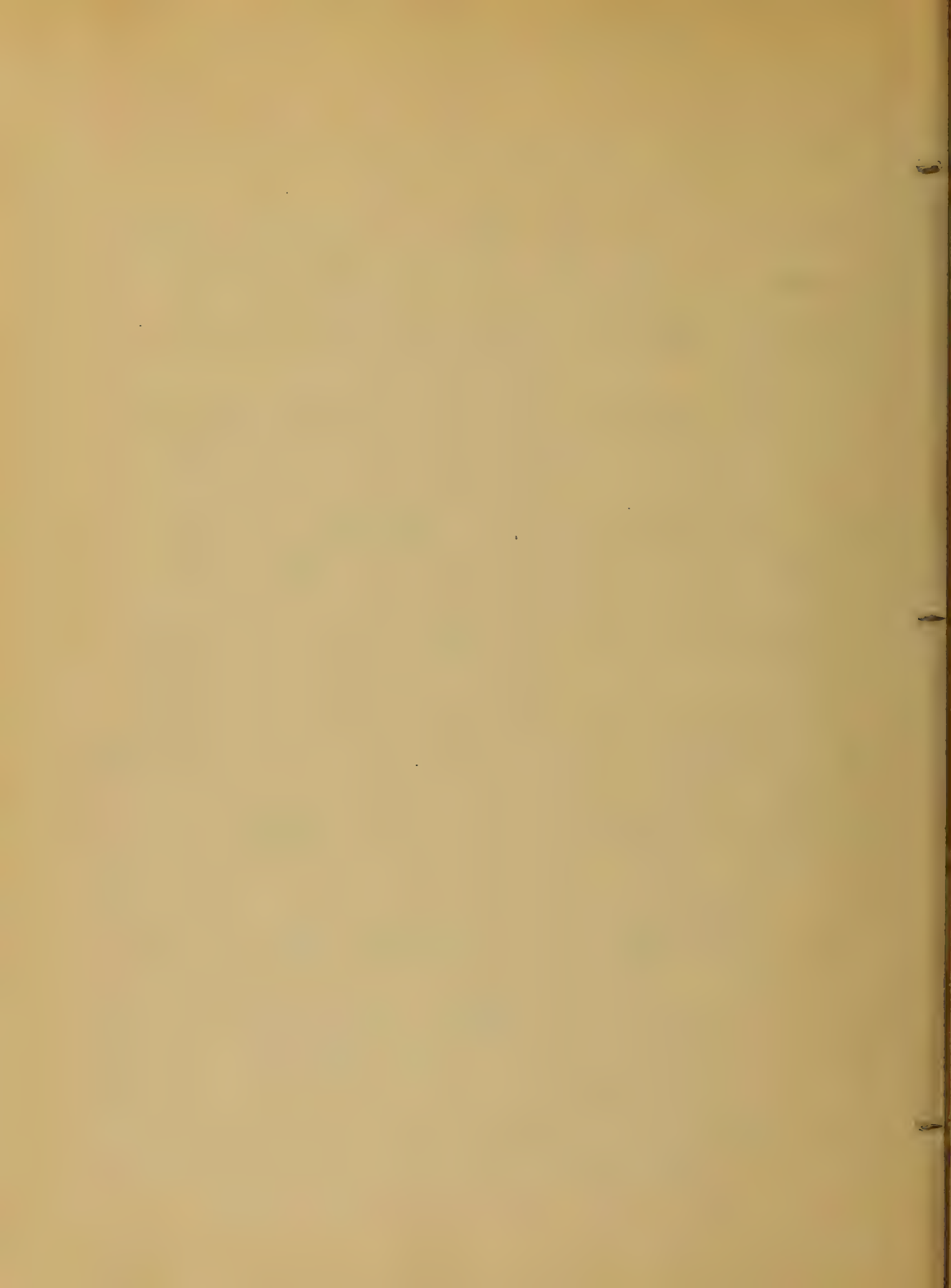
then shall we account for this
 great law that is so obvious the
 most casual observer must see
 and admit, its cause not in
 the material identity of the materials
 constituting the organism of both
 parent and offspring in the tissues
 of the substance of reproduction?

This being the case could we
 not create able races of able men,
 by employing the means adopted
 by Frederic William I with his
 regiment of giants? He allowed
 them to marry only women that
 were not their inferiors in stature,



Could we but manage hereditary diseases and had only to deal with acute, I think the fight between physicians and death would be more even. And how many more would reach the allotted age, (3 score and 10)

Let the fight be by preventive medicine! and the time would come when the earth would be populated by a strong and healthy people. What a grand *era* it will be in the science of medicine when the doctor shall not only be called when people are sick, but be called on in council to advise and guard them against con-



11
-treating transmissible tenden-
-cies and to ward off the
-attack of a transmitted destruc-
-er, You can ^{say} indeed, "It
is a blessing to be able to cure
disease but to prevent it is
thrice blessed."

8-1

