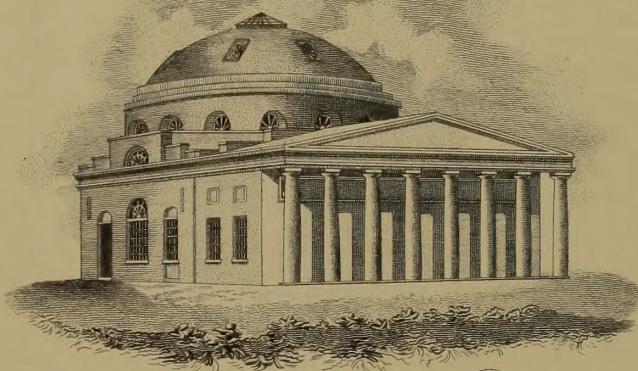




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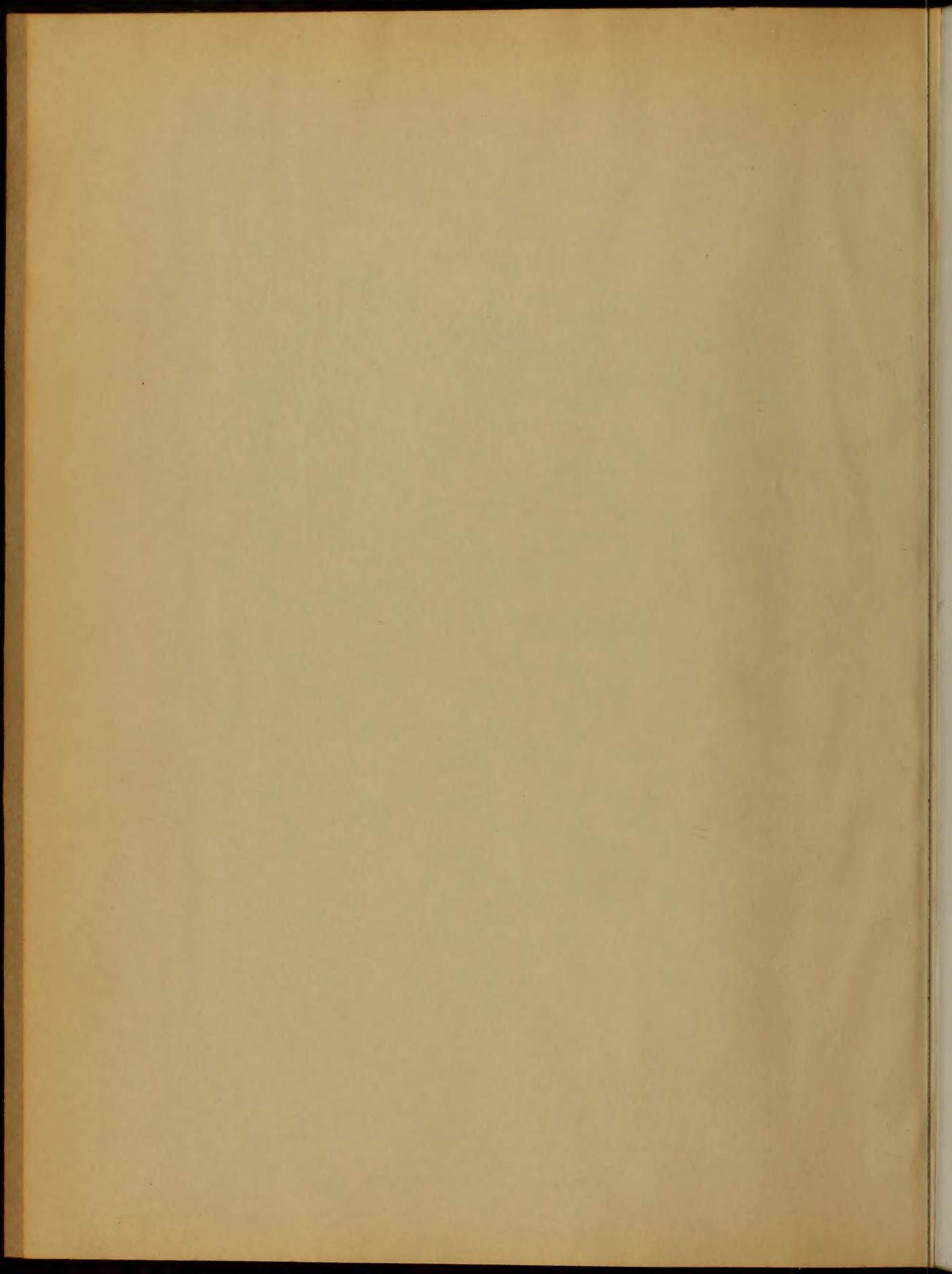


**University of Maryland**









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.

These dissertations were digitized in 2011-2012 and are available at the UM Digital Archive ([archive.hshsl.umaryland.edu](http://archive.hshsl.umaryland.edu)) and the Internet Archive ([www.archive.org](http://www.archive.org)).

## Geological sketch of the plateau

about 2000 feet above sea level, and the plateau is bounded by a range of mountains.

The plateau is composed of two main groups of rocks, the older being metamorphic rocks, and the younger being igneous rocks. The metamorphic rocks are composed of gneiss, mica-schist, and amphibolite, and are found in the northern part of the plateau. The igneous rocks are composed of granite, diorite, and gabbro, and are found in the southern part of the plateau. The plateau is bounded on the west by the Colorado River, and on the east by the San Juan River.

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(CORRECTED TABLE OF CONTENTS)

UNIVERSITY OF MARYLAND

THESES

1869 (c)

<b>Author</b>	<b>Title</b>
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Cook, George Wythe	Syphilis
Boyle, Charles B.	Scarlatina
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Jenkins, Charles A.	Delirium Tremens
Downey, Jesse W.	Cinchona
Ligget, John J.	Tetanus: Its Nature and Treatment
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Chapman, James K.	Typhoid Fever
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Shertzer, Abram T.	Intermittent Fever

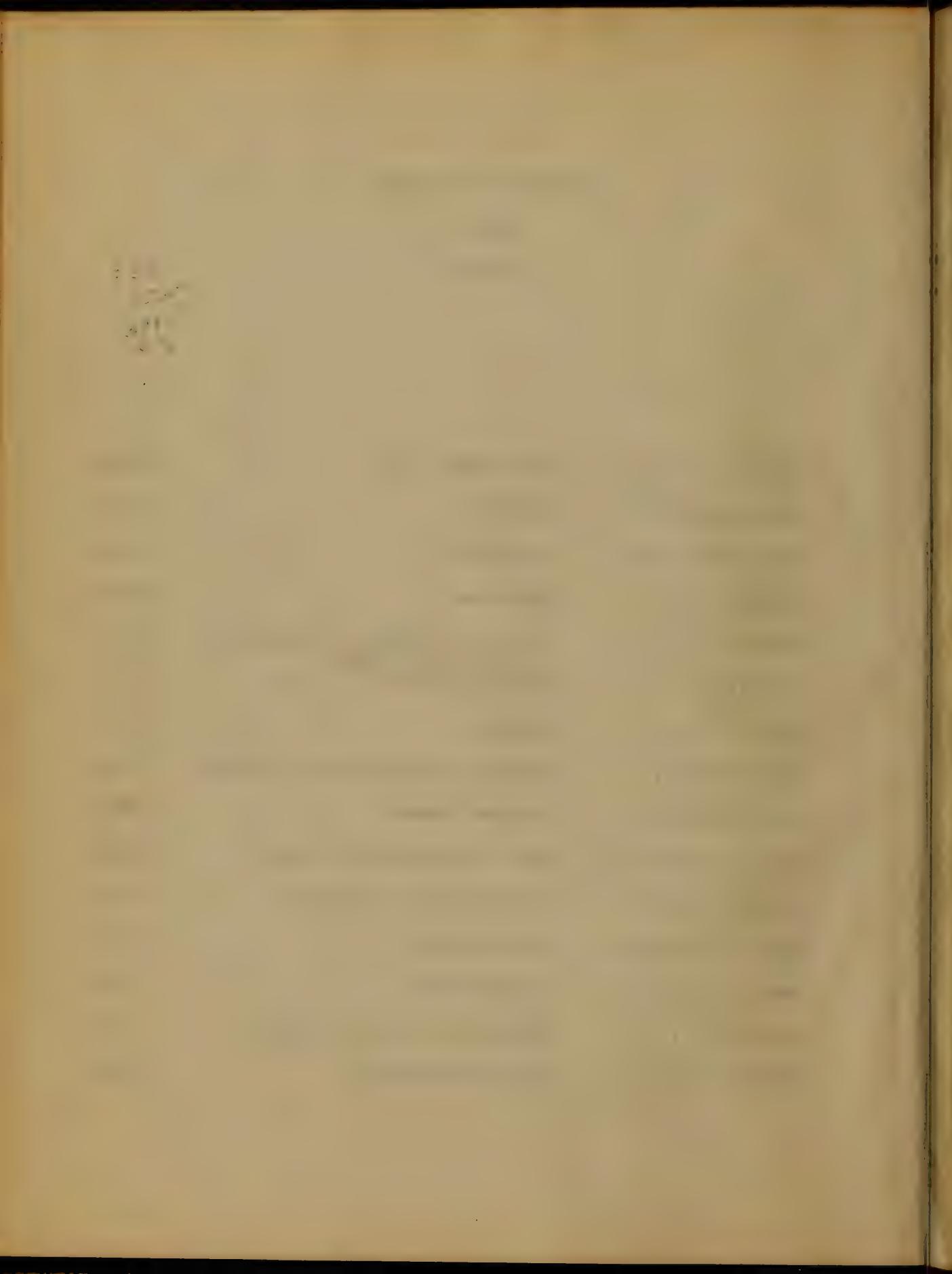


## UNIVERSITY OF MARYLAND

## THESES

1869 (c)

Hartman, Jacob <sup>Henry</sup>	Six Surgical Cases	39p.
Cook, George <sup>W.</sup> <sup>Wythe</sup>	Syphilis	24p.
Boyle, Charles B.	Scarlatina	22p.
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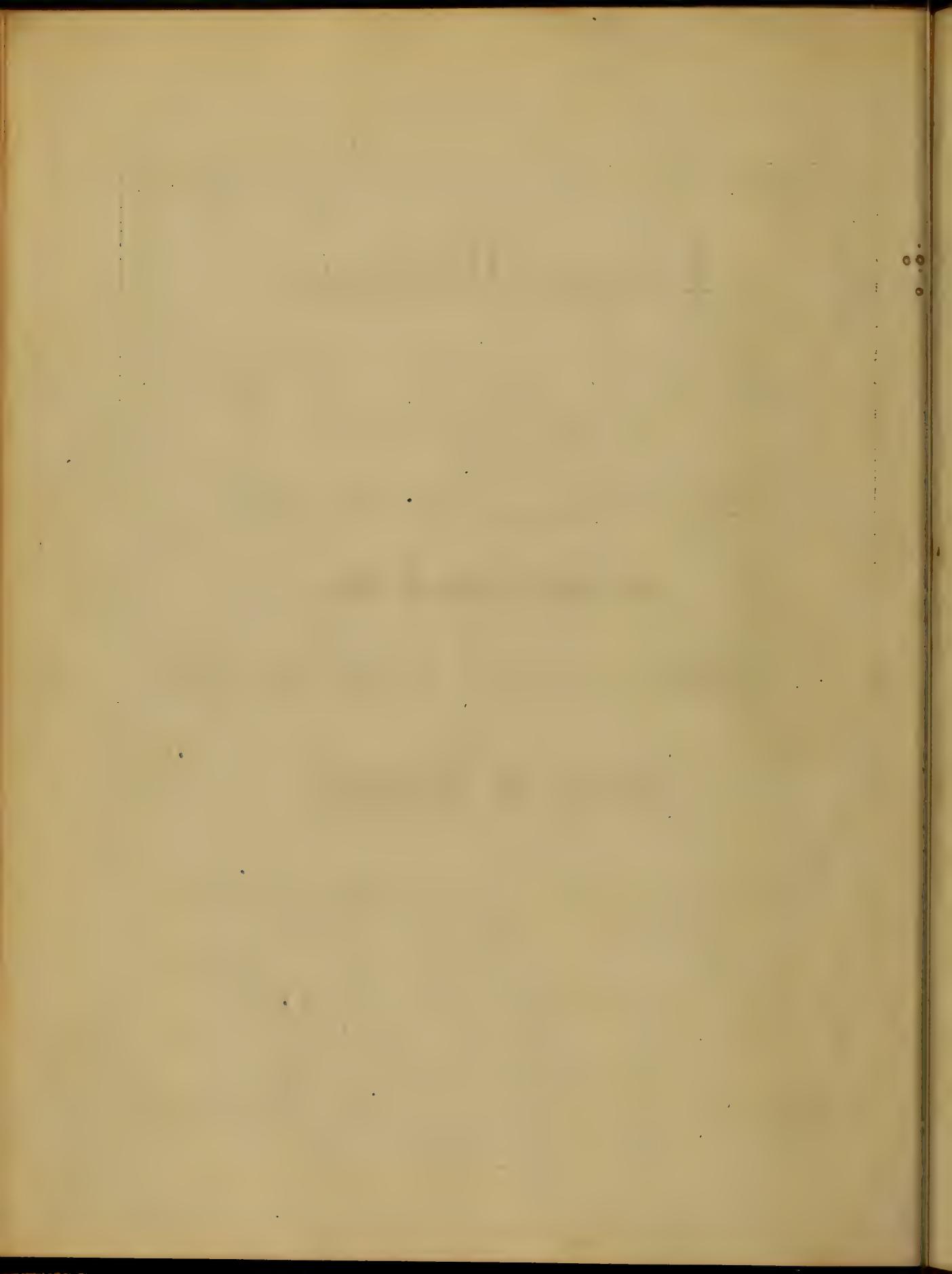
AN  
Inaugural Dissertation  
ON  
*Six Surgical Cases.*  
Submitted to the Examination  
OF THE  
Provost, Regents and Faculty  
OF  
**PHYSIC,**  
OF THE  
UNIVERSITY OF MARYLAND,  
FOR THE DEGREE OF  
DOCTOR OF MEDICINE,

*Jacob Henry Hartman*  
*Baltimore - Md.*

*Session of*

*1868-69*

*ML*  
1897



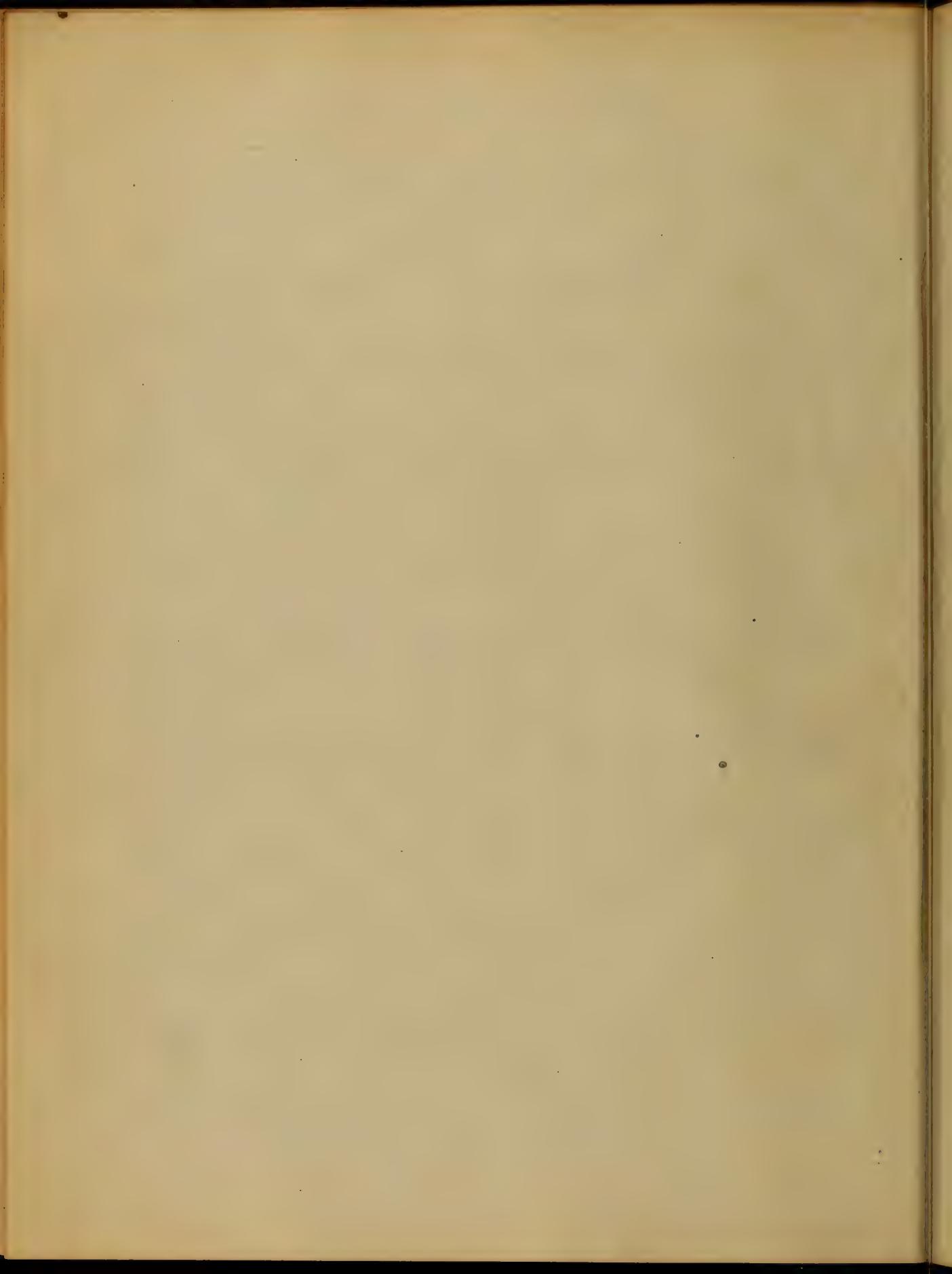
# Case 1

## "Dislocation of the Femur"

Nov 23<sup>rd</sup> 1868.

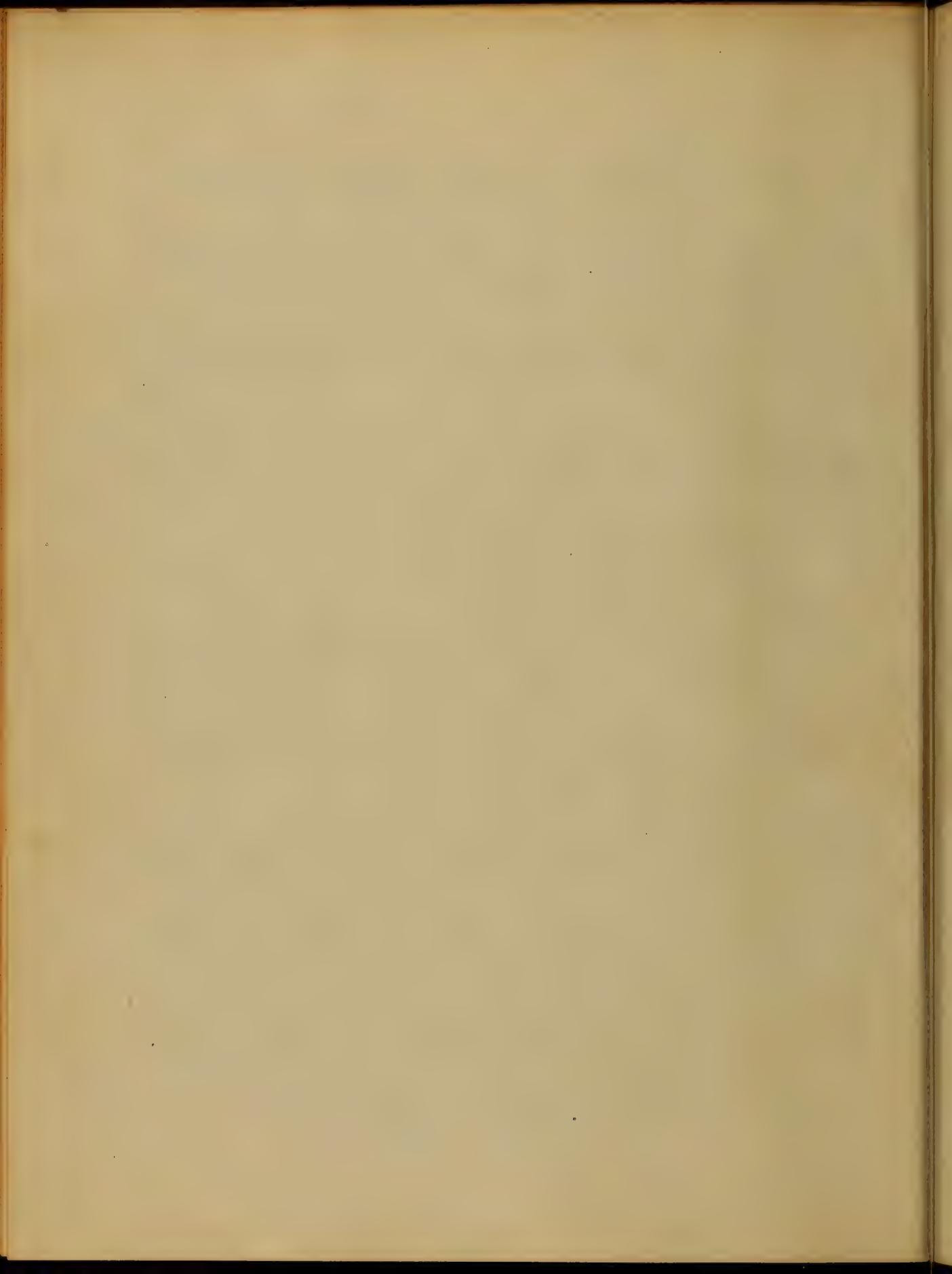
James C. Dowling, white aged 33 years, was admitted into the Balt<sup>o</sup>: Infirmary from one of the lower counties of Maryland.

He was a person of fine muscular development, a carpenter by trade, and gave his history of the accident as follows: On the morning of the 23<sup>rd</sup> of Nov, after indulging in several drinks, he was riding in an open carriage with two other persons (the seat being only intended to accommodate two) he either lost his balance or was pushed out of the carriage by the



others, falling upon the right hip,  
the fall occasioned a dislocation  
of the right Femur, upwards and  
backwards upon the dorsum of  
the ilium. He was conveyed  
home and three physicians were  
summoned, who placed him  
under Chloroform and made  
long and continued efforts at  
reduction, they failed to reduce  
it, and sent by him a written  
certificate to that effect.

When admitted, the affected  
limb presented a shortening of  
one and a half inches, an in-  
version of the knee and foot,  
the inner margin of the latter,

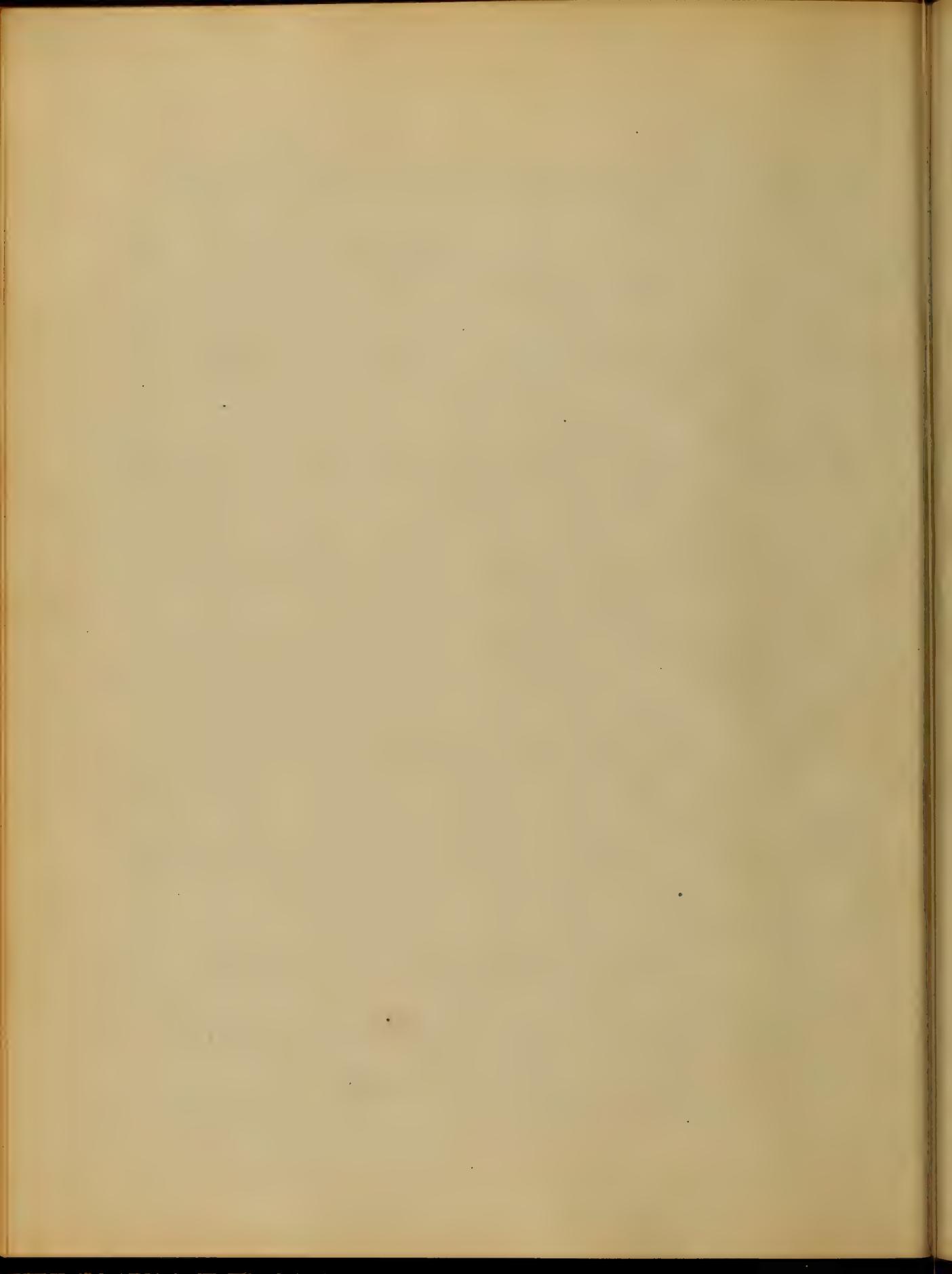


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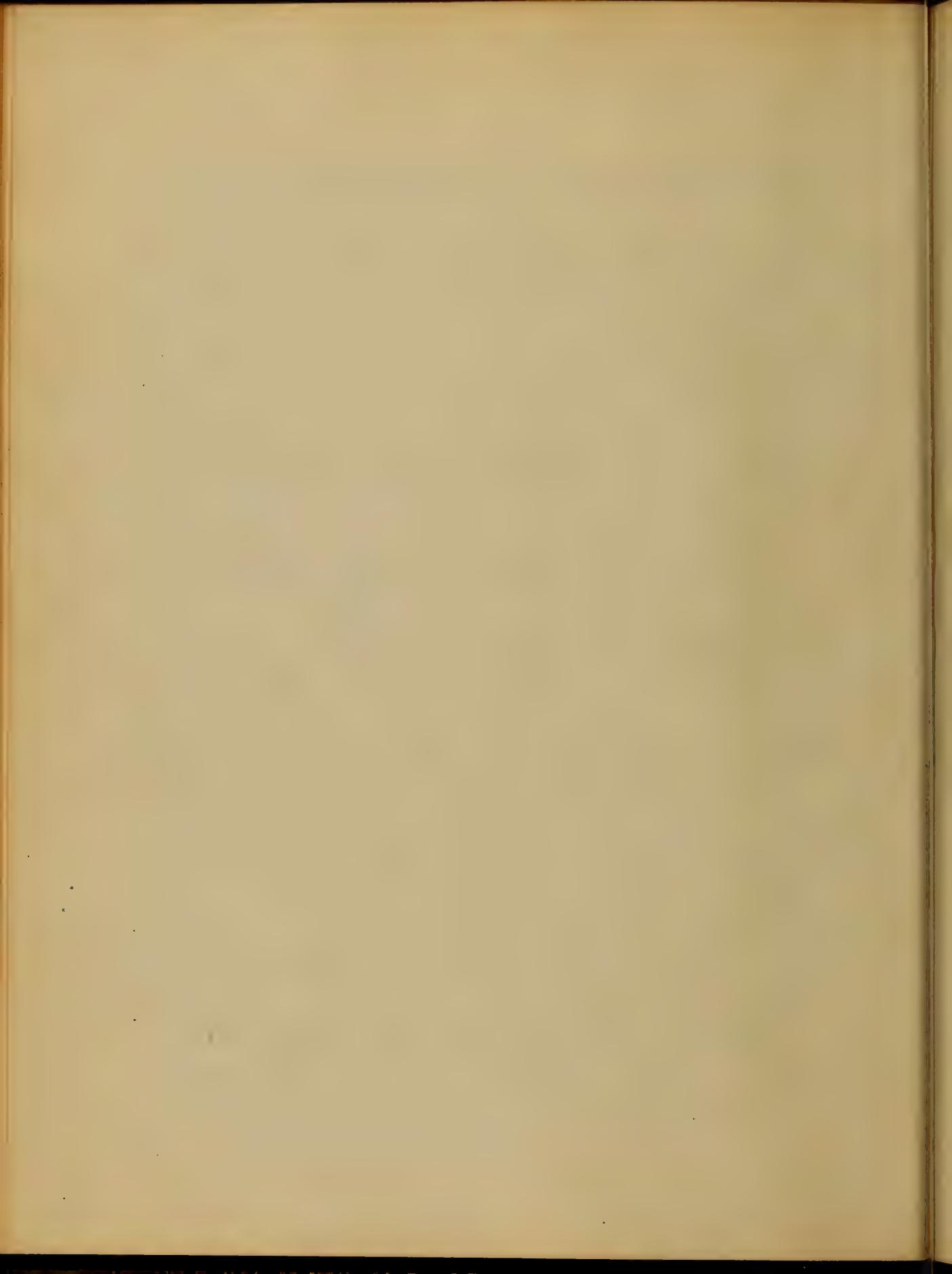
resting against the instep of the left foot, the knee in front of, and a little above the opposite one, the anterior surface of the limb, facing almost directly to the left side, the trochanters prominent flattened, less prominent, and more elevated than on the healthy limb. There was considerable ecchymosis and swelling around the joint, he complained of great pain, especially on the upper and inner side of the thigh.

Nov 28<sup>th</sup>

The patient was still con- formed in the position of the glass and the reduction was

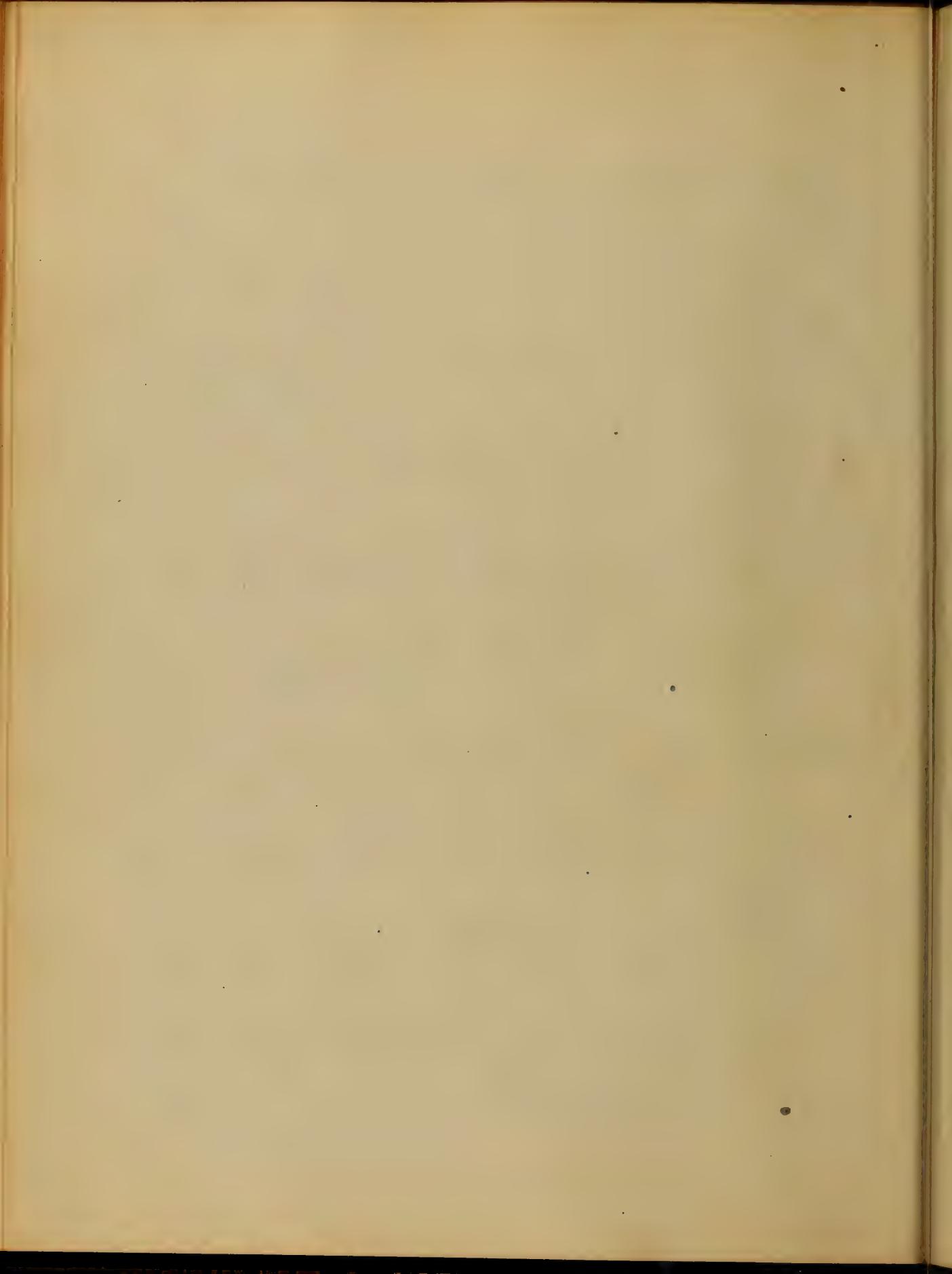


was accomplished by the following manipulations, Prof Smith standing on the right side of the patient, (who was placed on a table of convenient height) seized the right knee with his left hand, and with the aid of an assistant forcibly flexed the thigh upon the Pelvis, and the leg upon the thigh, the knee then being in the vicinity of the left shoulder, this constituted the first stage; then holding the foot in the position mentioned viz. inversion, the knee was pushed as far to the right as possible, or in other words "everted"; this



completed the second stage.  
Eversion of the foot followed  
by complete extension of the  
limb, <sup>which</sup> was the third and last  
stage, during which the head  
of the Femur, slipped over the  
border of the Acetabulum into  
the cavity with a loud snap,  
which was audible over the  
whole Theatre. The operation  
occupied but a few moments  
and nothing could have been  
more satisfactory than the result.

The patient suffered for some  
hours after the operation with  
severe pain, a few grains of  
Opium, was directed for him.



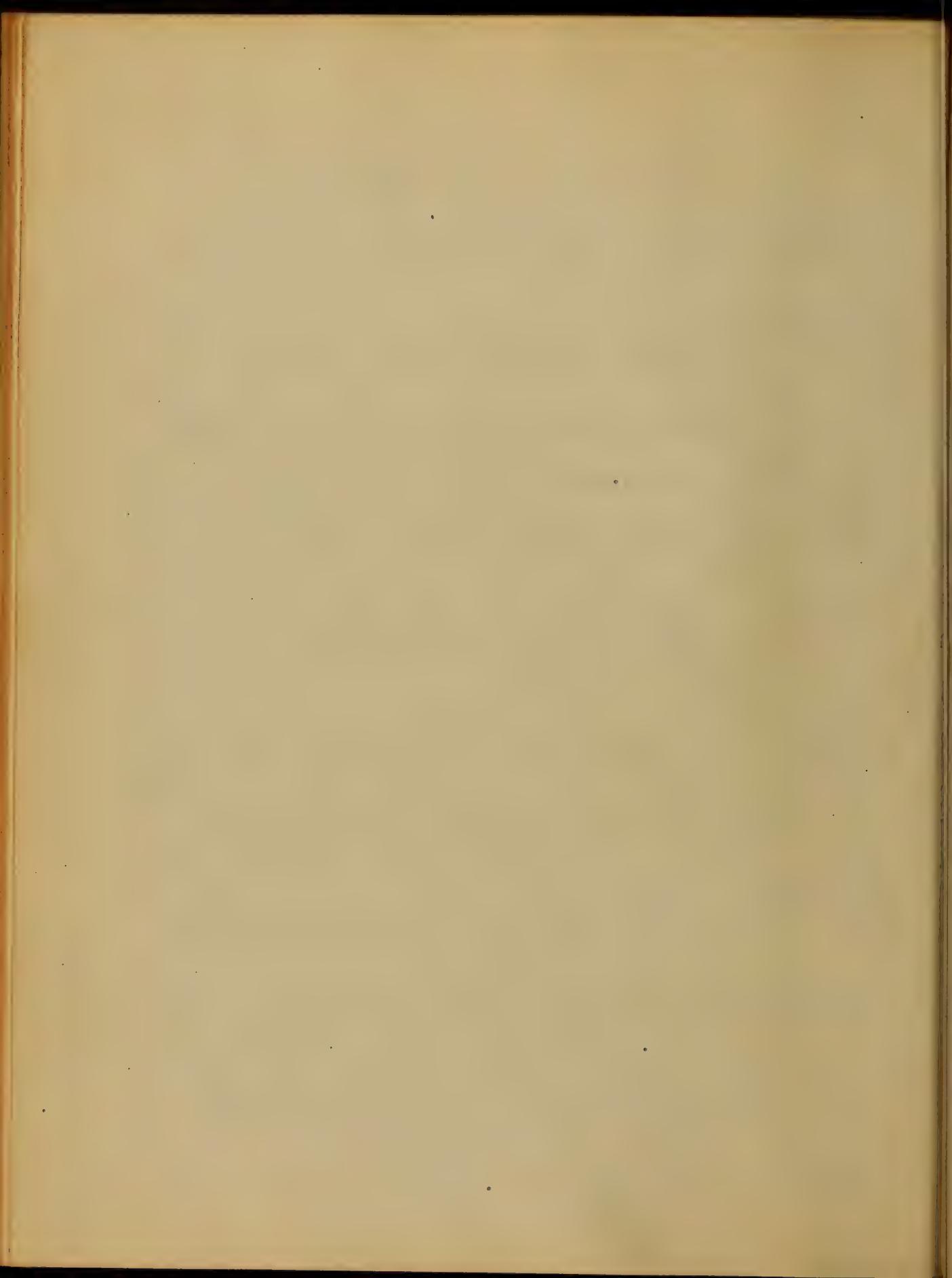
in broken doses, which somewhat relieved the pain.

Chor 29<sup>th</sup>

The patient was doing very well and comparatively easily, rested tolerably well the night before. There was considerable swelling and he complained of slight pain about the seat of injury.

Chor 30<sup>th</sup> The patient was improving rapidly, and was sitting up in bed.

Dec 5<sup>th</sup> Found the patient sitting up in a chair, had considerable use and motion in the limb, complained of no pain whatever; Dec 11<sup>th</sup> He had left the Hospital well, and with the use of his injured limb.



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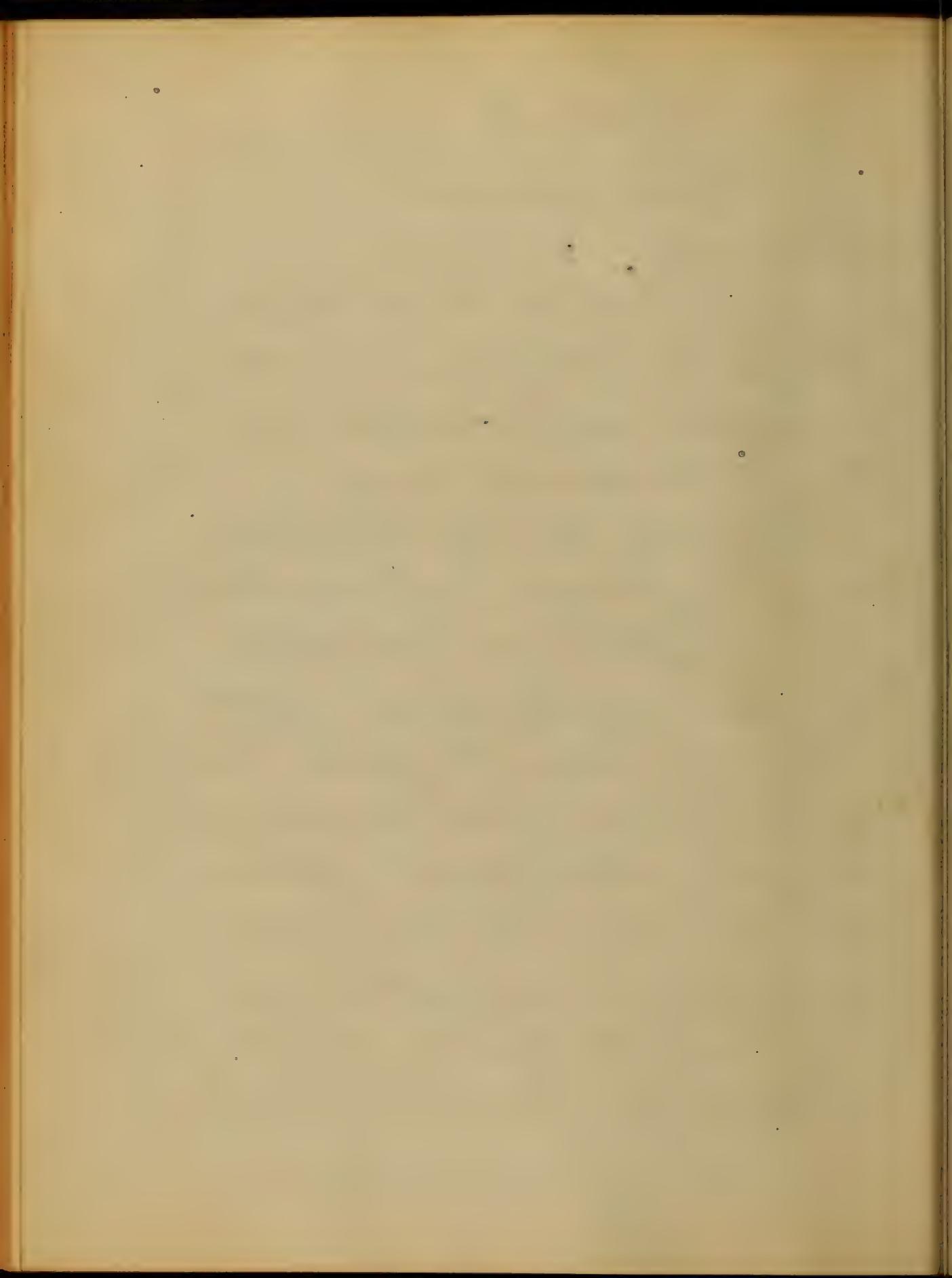
## Case II

### Epithelioma

Sep 28<sup>th</sup> 1868.

Col R. P. of Prince  
George's Co, Maryland aged  
sixty five, was admitted into  
the Baltimore Infirmary.

He gave the history of his  
case as follows, about three  
years before a minute ulcer  
appeared in the groove of the  
upper lip, near the junction  
of the mucous and cutaneous  
surfaces of the latter. It had  
been treated with ointment  
"citr. Argenti" and other appli-  
cations by his County physician  
and sometime it would seem



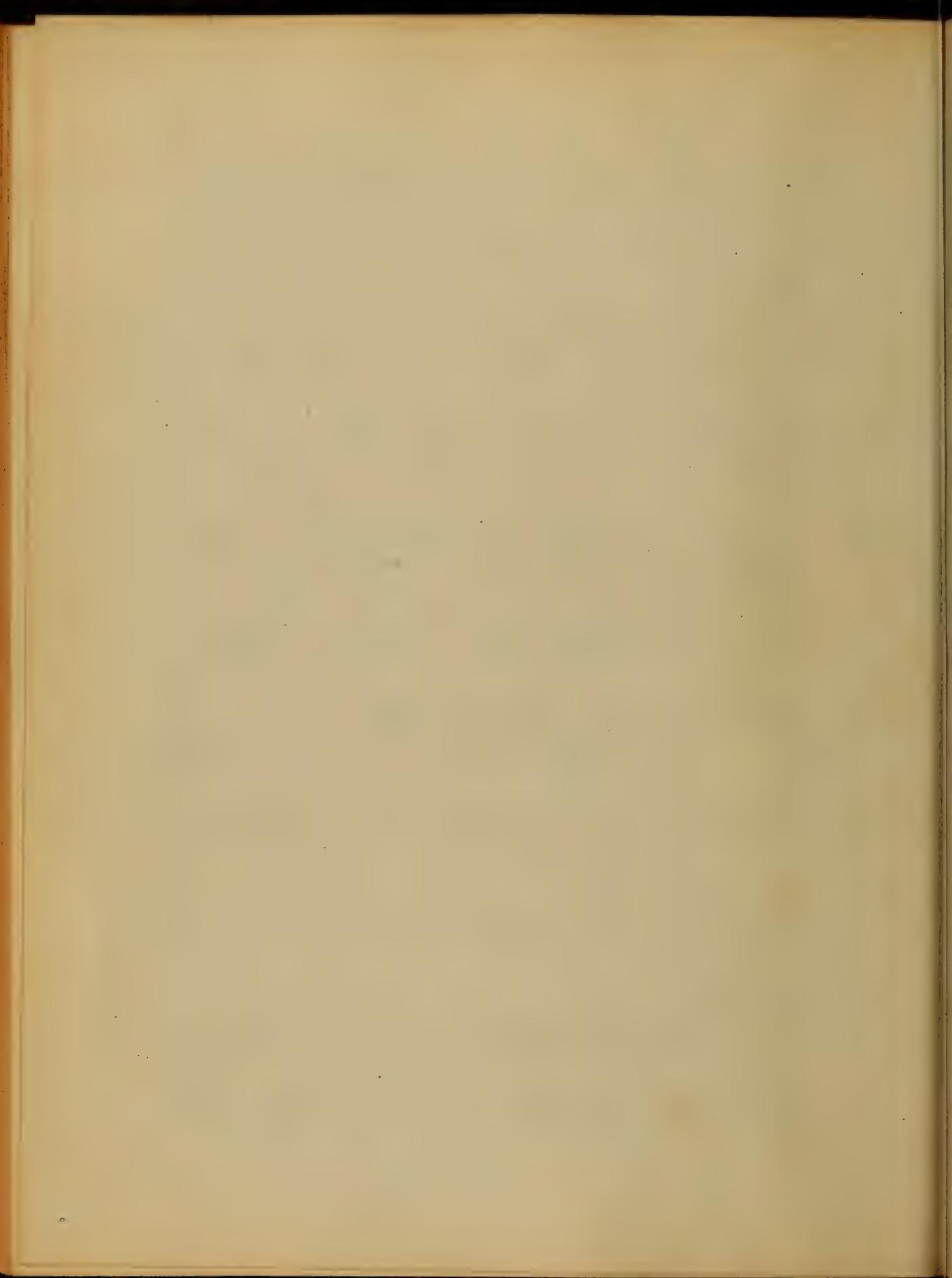
almost healed only to break  
out again as badly as before.

He had suffered no pain in  
it whatever. He did not drink  
or use tobacco in any form, but  
attributed it to a cut of the  
lip by his razor whilst shaving.

When he came into the  
Hospital, the ulcer presented  
the following appearance, it  
was about the third of an inch  
in area, of a greyish color,  
hard elevated edges and  
depressed in the centre.

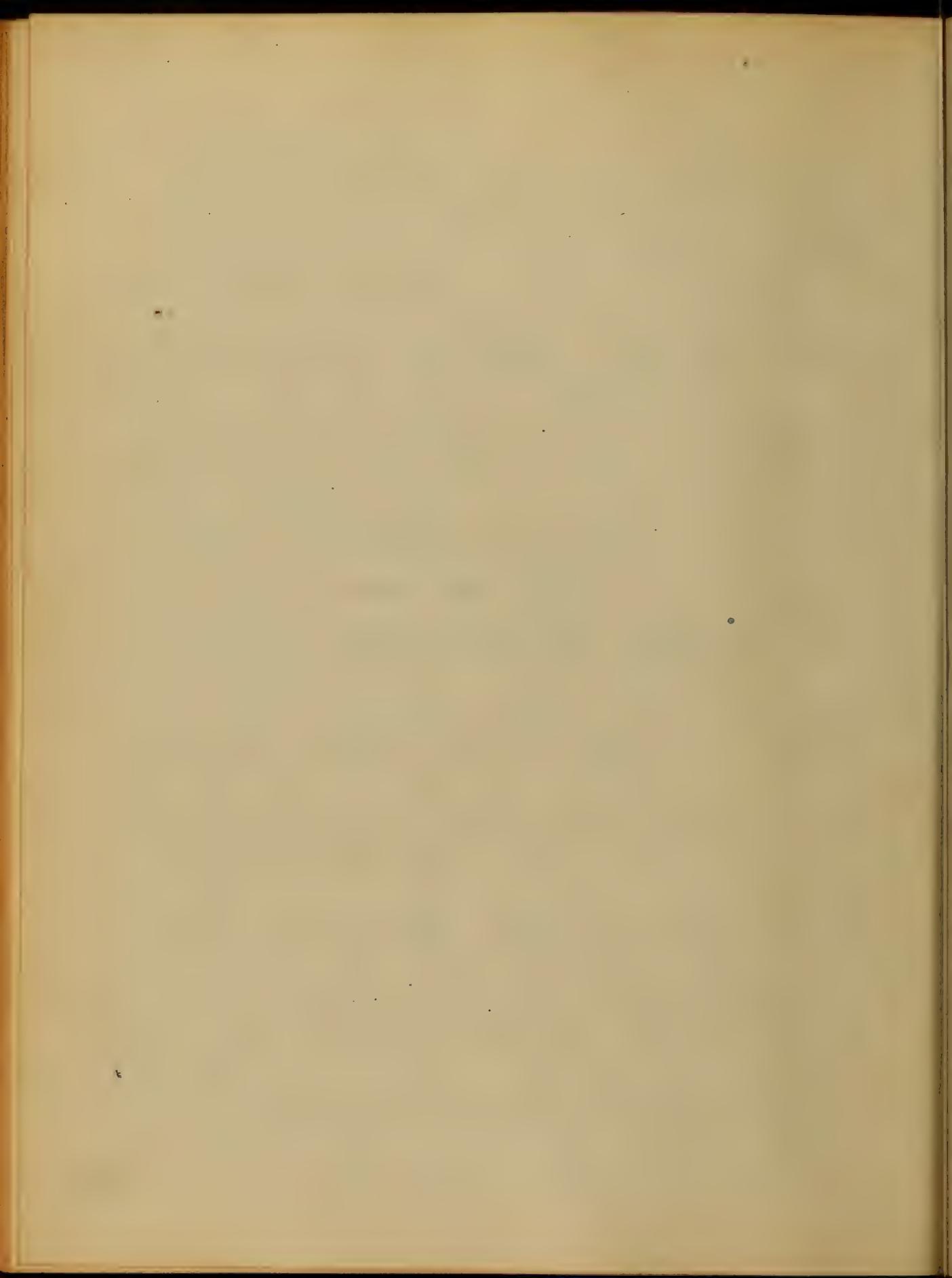
Octo 1<sup>st</sup>

Dr Butler, then visiting  
surgeon to the Hospital, saw the



patient, and diagnosed it  
"Epithelioma".

He determined to excise  
it as the only hope for permanent  
relief. The patient being  
chloroformed in the recumbent  
(posture), and his head being  
firmly held by an assistant;  
Dr Butler, made with a  
scalpel two incisions like an  
inverted V - meeting beneath the  
nose; and separating one half  
inch at the tip the bleeding  
from the superior coronary artery  
was arrested by the fingers,  
cold water and traction, the  
ligature being objectionable.

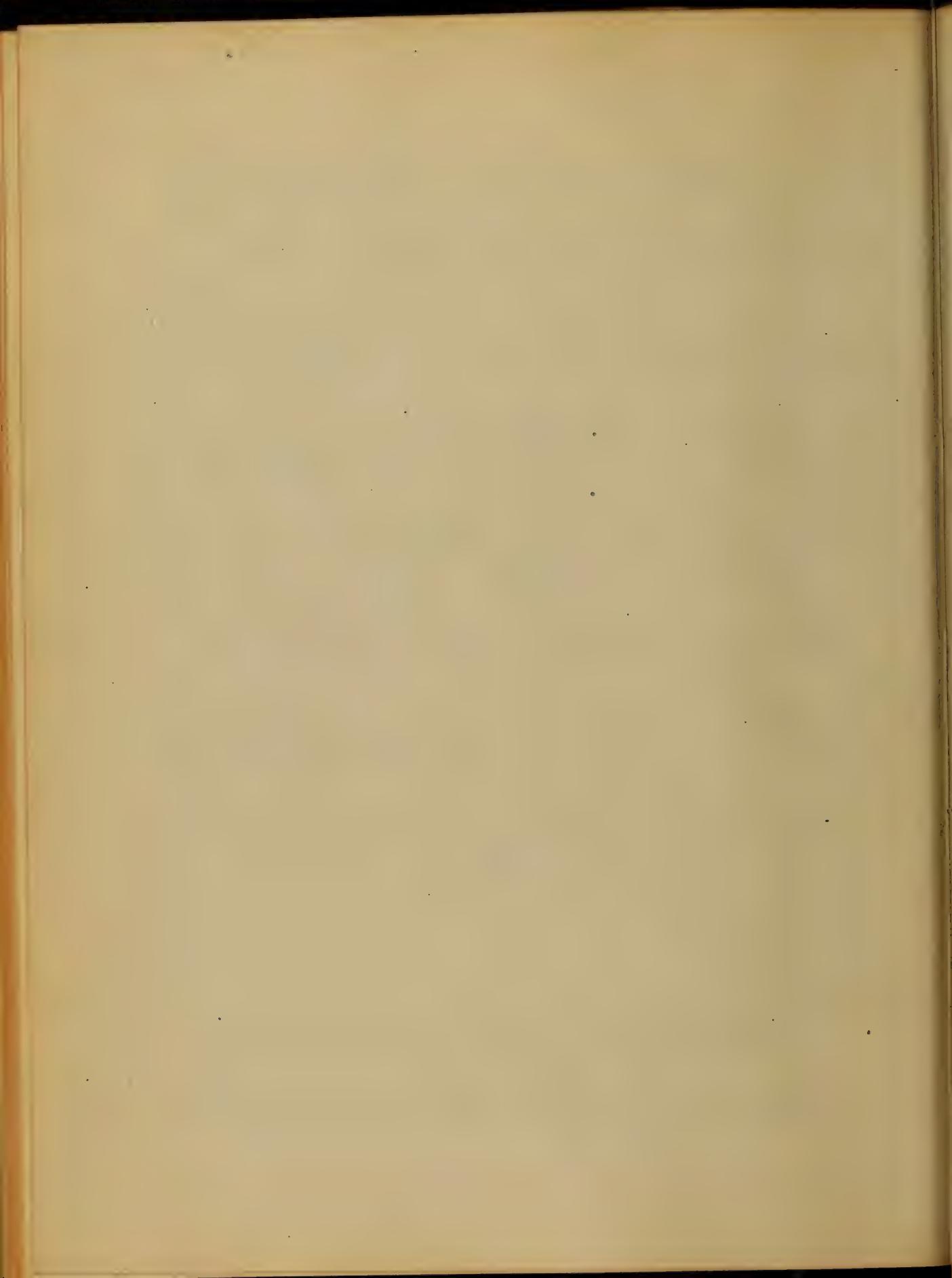


as adhesive union was proposed.

Three suture pins were then passed through the skin and out surfaces, but not through the mucous membrane; and a figure eight ligature twisted about the end, thus there was accurate apposition of the cut surfaces. The part excised presented a grayish white appearance and was hard and grisly to the touch. Dr. Butler ordered the part to be dressed with boracic simplex and lint.

Oct 3<sup>rd</sup>

The patient had been sitting up since the day before, and I felt



very well, Union had taken place below and there was no suppuration; pain or bleeding.

Oct 5<sup>th</sup>

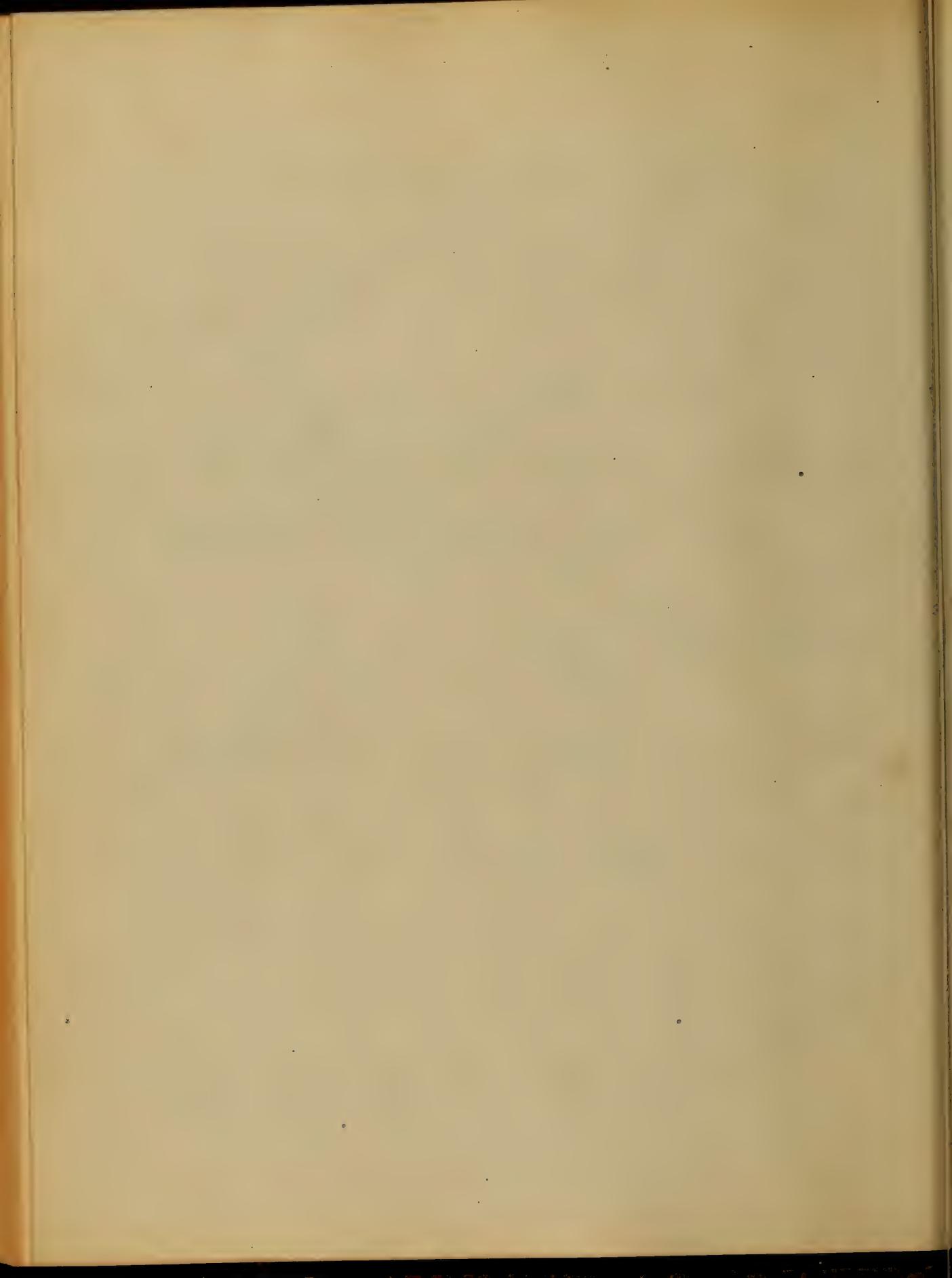
Col R. was doing well, complete union had taken place Dr Butler removed the suture pins.

Oct 6<sup>th</sup> to 9<sup>th</sup>

The patient was still improving and had been walking about the city for the last two days. He had no soreness or pain in the part operated upon.

Oct 10<sup>th</sup>

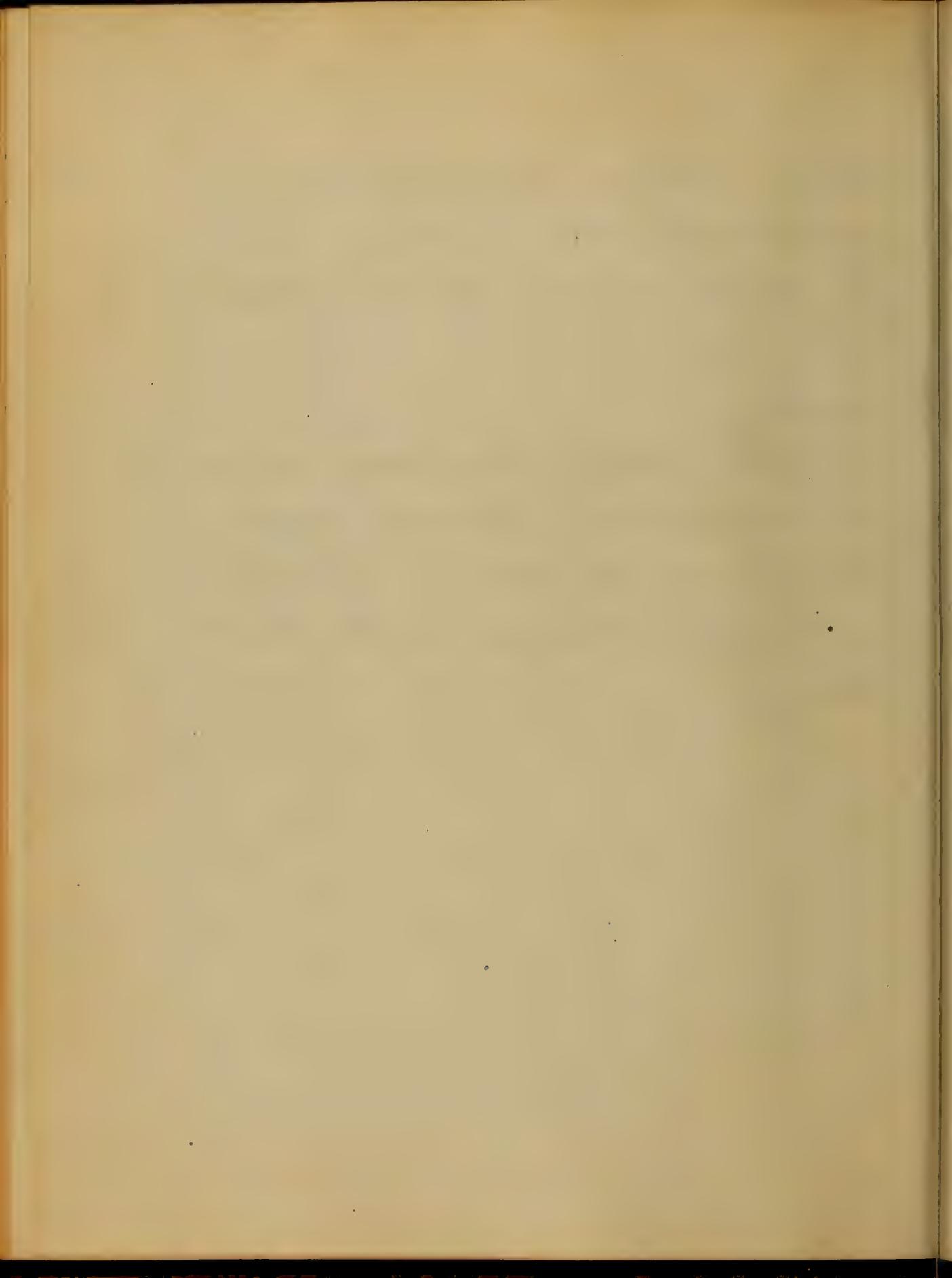
Col R. left the Hospital



well. There would be no perceptable scar, as it would be concealed by the mustache.

chote.

This patient was seen about the middle of December and there was no return of the original disease up to that time



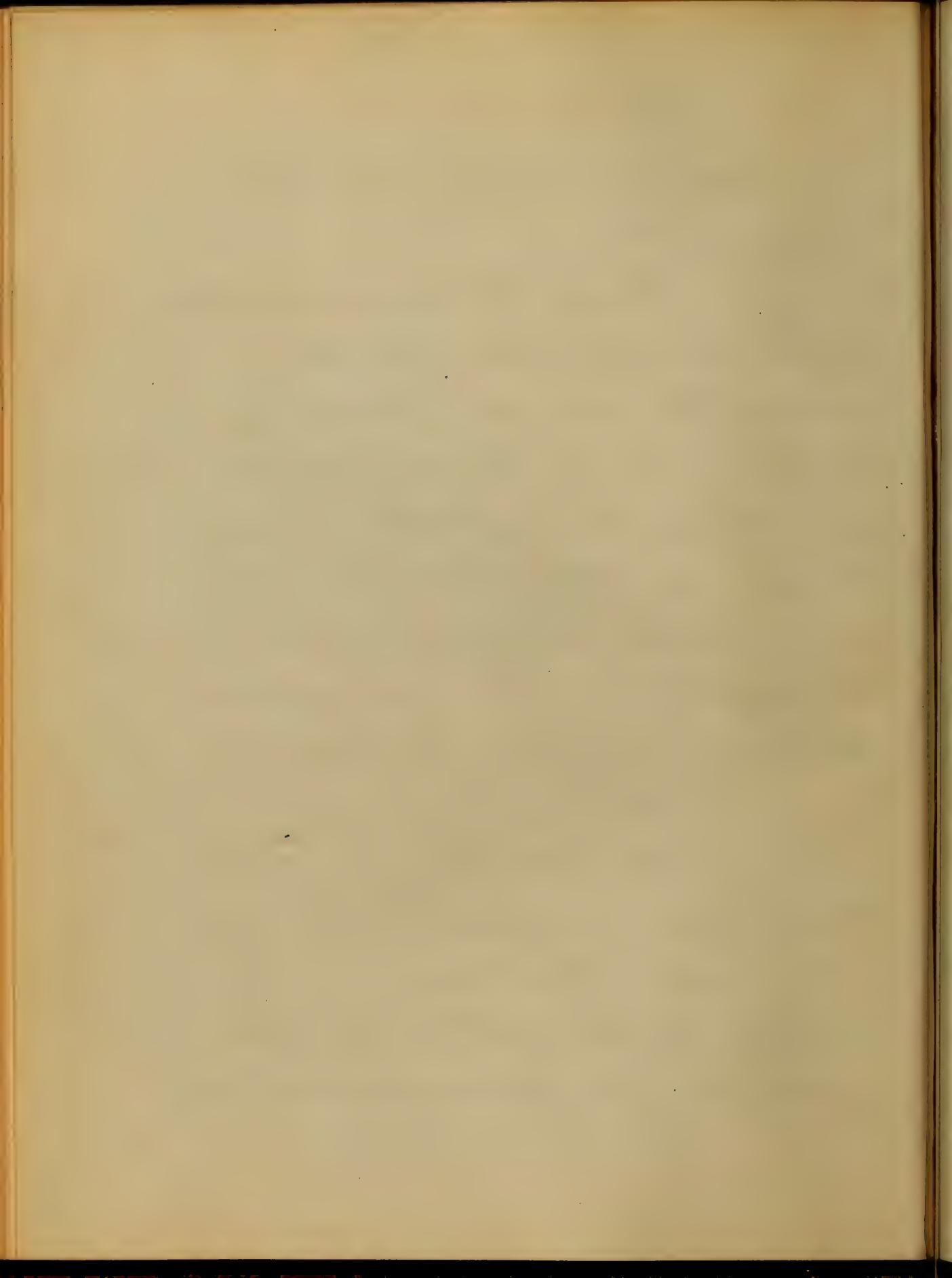
## Case III

### Ligation of the Femoral Artery.

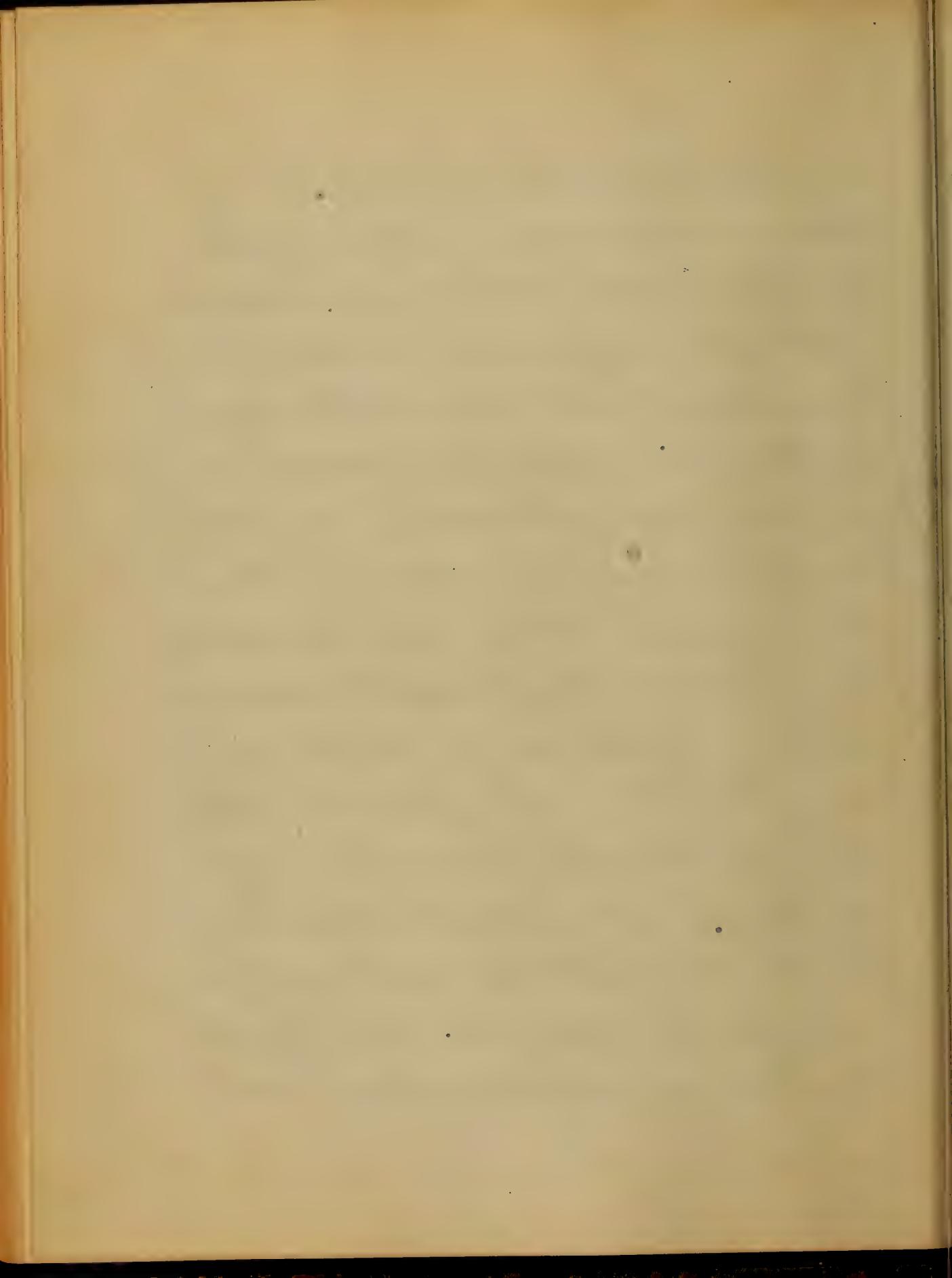
June 13<sup>th</sup> 1868.

Thomas R., by occupation a fisherman, aged 59, was admitted into the Baltimore Infirmary for Epithelial Cancer, involving the right Ala, of the nose, part of which was eaten away, and the inner Canthus of the right eye, the sight of which was still perfect. It began five years before, but had advanced none for the past two years, and had never caused him any pain.

Proper treatment was instituted on the 25<sup>th</sup> of July. In forty-two days after admission into

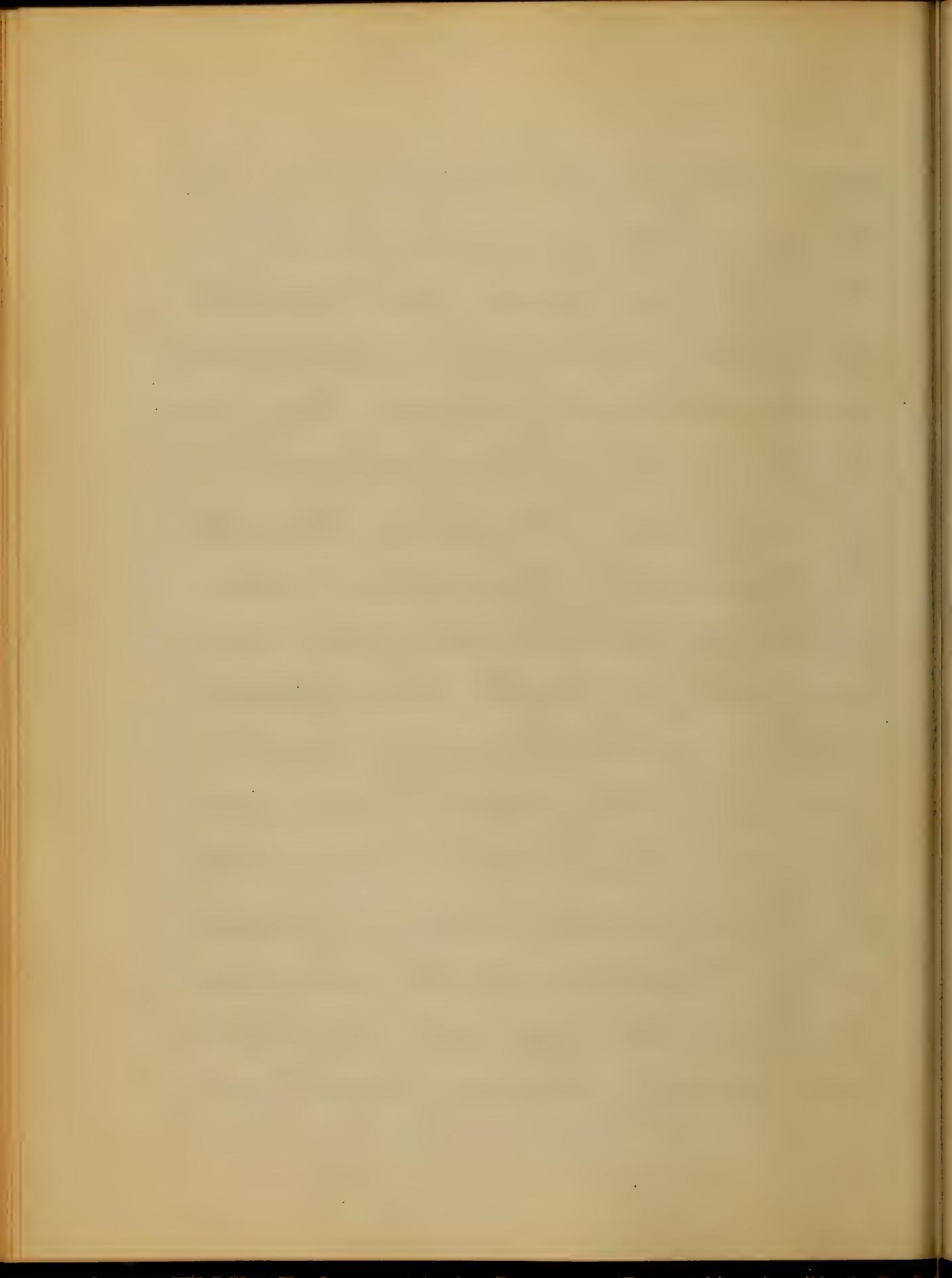


the Infirmary, he complained of pain and swelling in the right Popliteal Space, which upon examination was found to contain a pulsating tumor, about the size of the fist, expanding synchronously with the action of the heart, ceasing its pulsation, when the Femoral artery was compressed above in the thigh, and communicating to the ear a loud rushing Bruit. The patient when questioned as regards the origin of this tumor, stated that he had observed a swelling for two months past at that point, but as it was painless, and



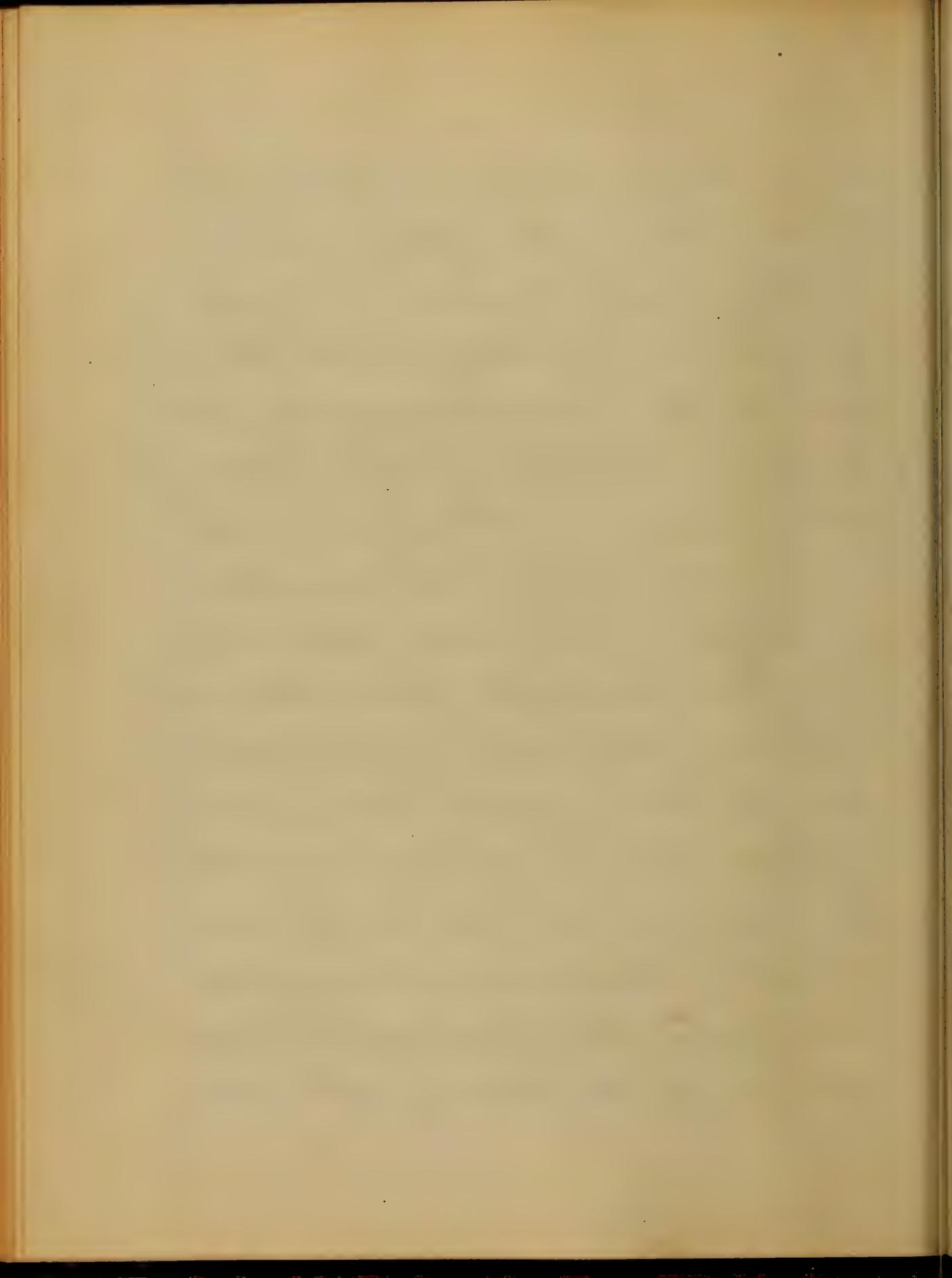
and caused no inconvenience, he thought it of no consequence, also that he had never had Syphilis or taken courses of mercury, but his health had always been good until the Epithelioma appeared.

Compression was first attempted by means of a Tourniquet continually applied over the vessel in the thigh, under this treatment which was continued for some days, the Aneurism increased in size, the pain in the back of the leg became severe, and extended along the course of the Popliteal nerve to the foot, and the patient was unable to straighten his leg



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or walk. After an examination  
of the Aorta throughout its  
course, it was decided to ligate  
the Femoral Artery, which was  
done on the 12<sup>th</sup> of August by Dr.  
James H. Bulleit, in the following  
manner — He first made  
an incision about three inches  
in length in the lower portion of  
Scarpa's triangle, which divided  
the skin and superficial fascia,  
due care being taken to avoid the  
Saphena vein, he next divided the  
<sup>deep</sup> fascia on a director to the same  
extent of the previous incision, and  
then treated the sheath of the Femoral  
Artery in like manner; a silk

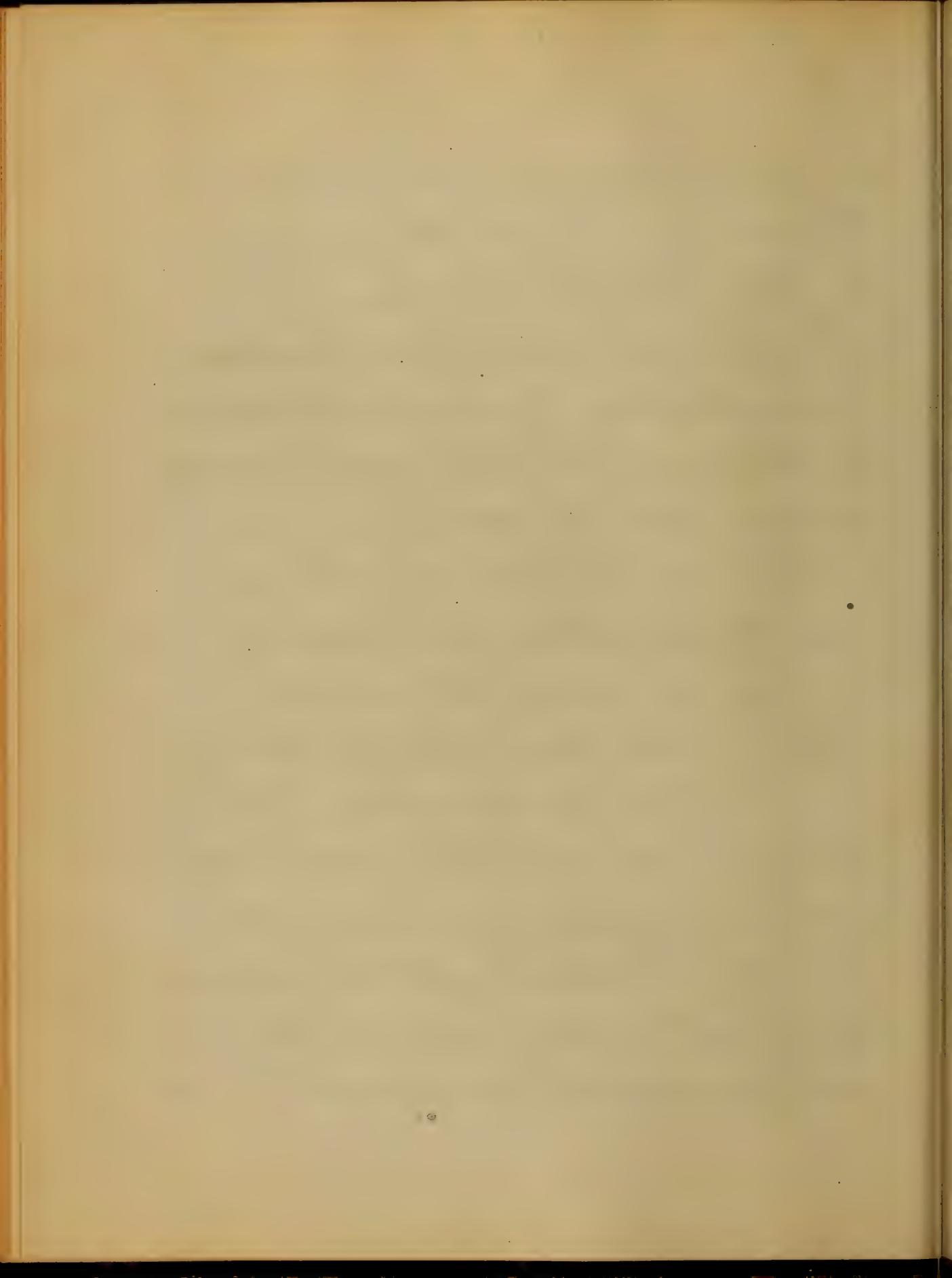


ligature was then passed around  
the artery with an Aneurism  
needle and tied firmly.

The incision was then closed and  
held together by strips of adhesive  
plaster, and a pad and bandage  
applied over the wound.

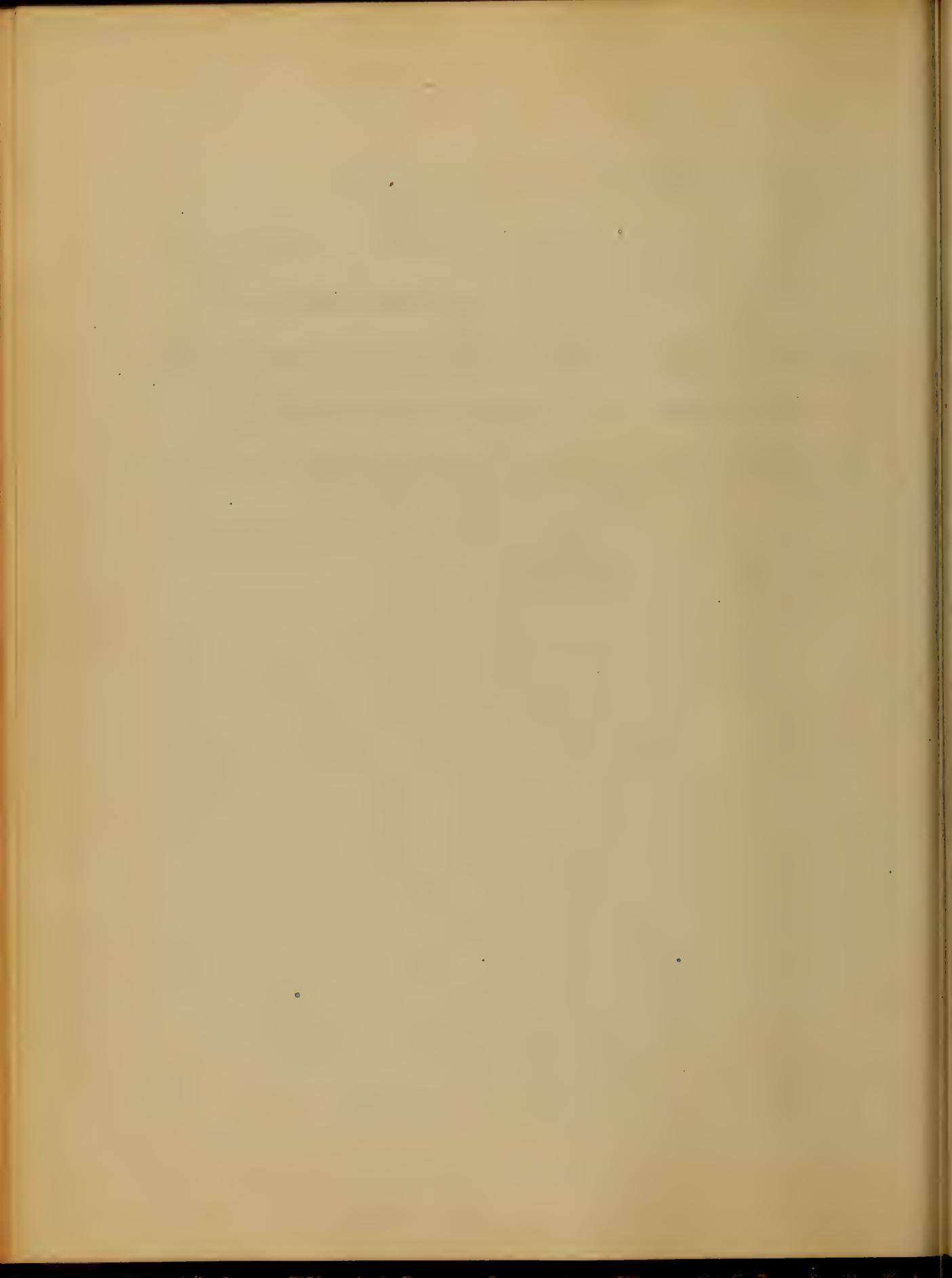
There was hardly any bleeding  
and the operation was performed  
without the use of chloroform.

The limb was cold for some  
hours after the operation; it then  
became inordinately warm, owing  
to the increased activity of the  
capillary circulation. Chilly sensa-  
tions were experienced, and there  
was considerable suppuration from



the wound for some days.

On the 21<sup>st</sup> day after the operation  
the ligature was removed without  
hemorrhage. The tumor gradually  
diminished in size, and at the  
time of the discharge of the patient  
from the Hospital it was scarce-  
ly perceptable.



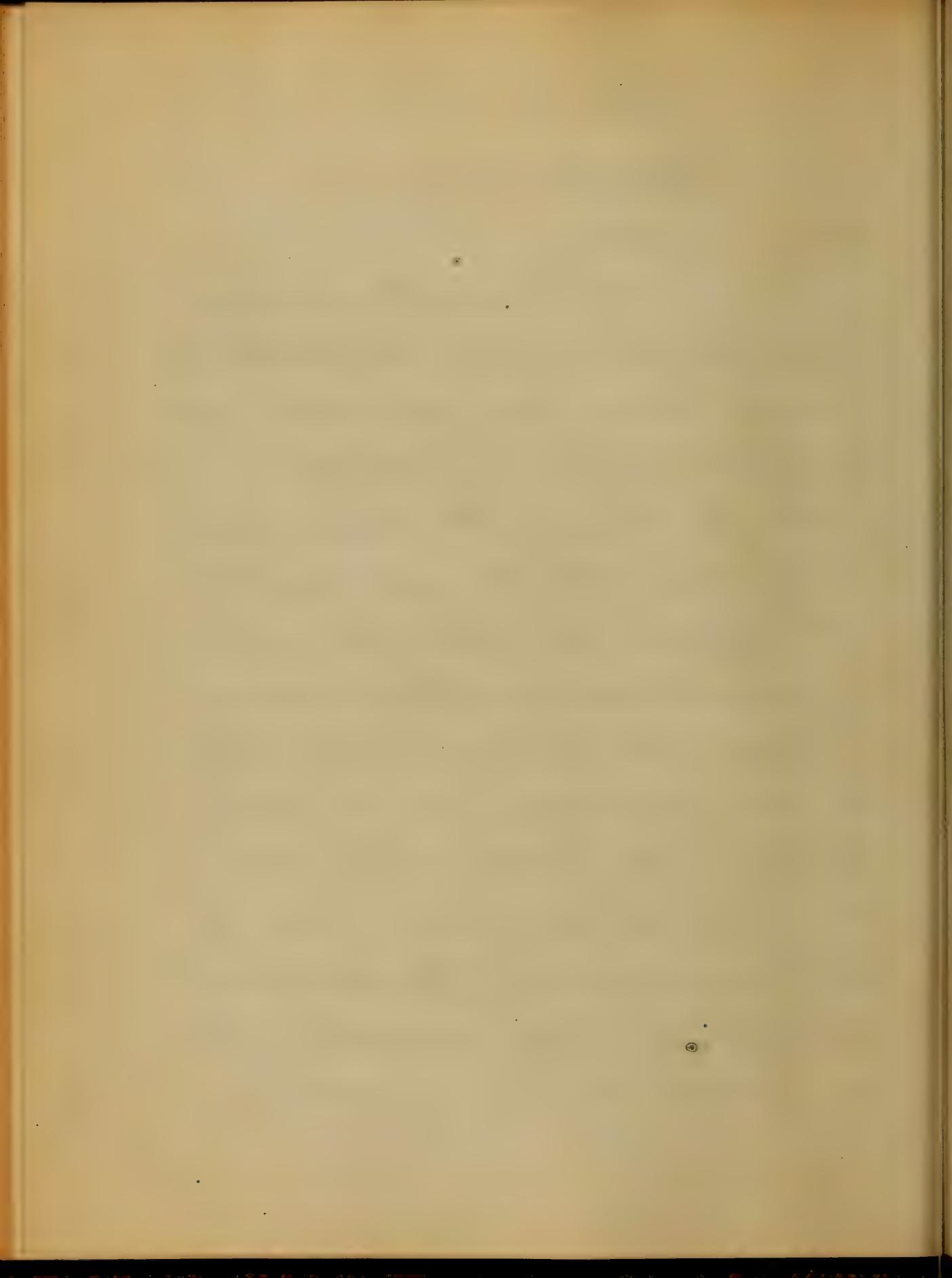
# Case IV

## Tracheotomy.

June 3rd 1868.

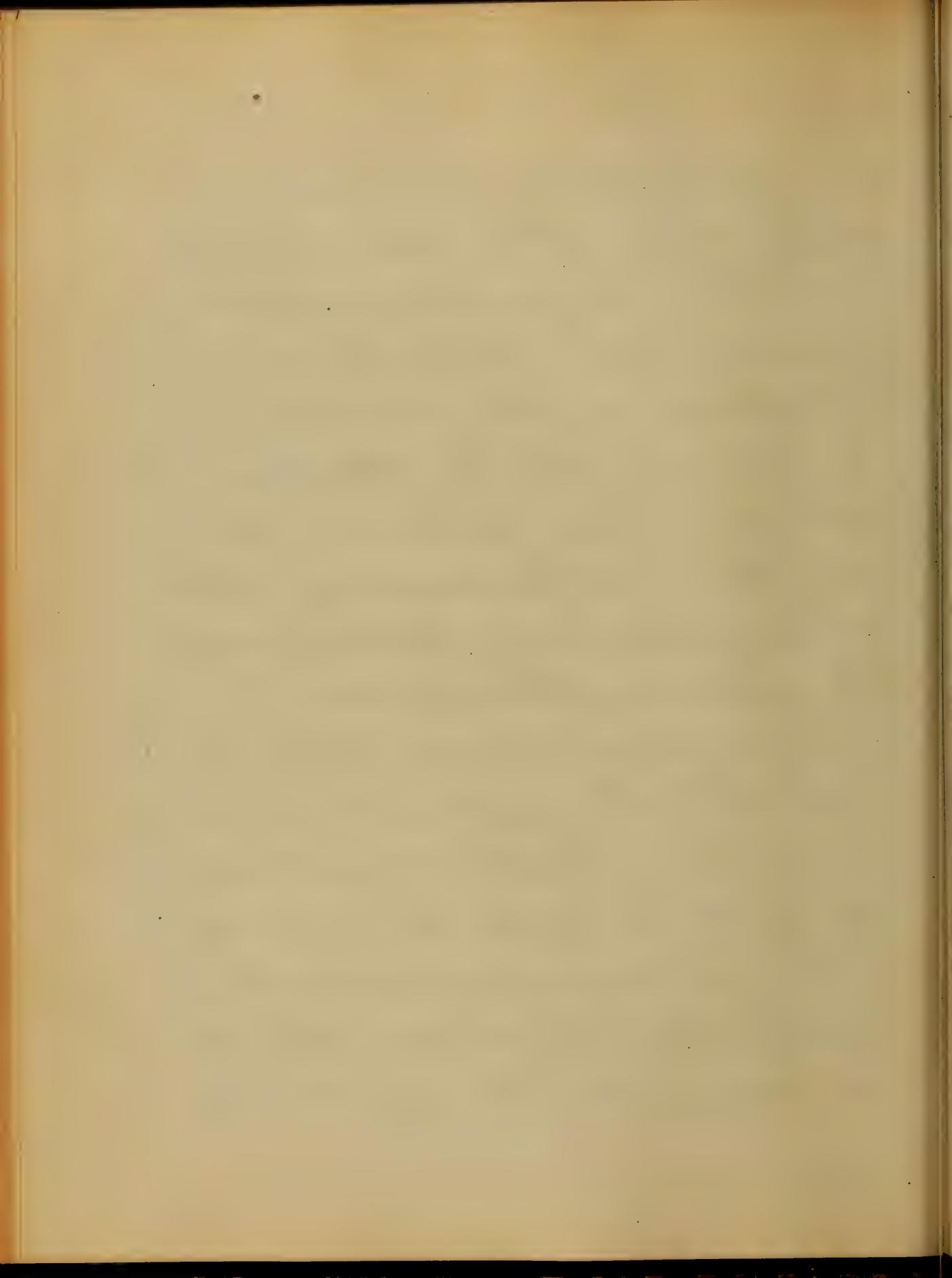
Richard Ford, colored  
aged 4 years from Prince Georges  
County, Md., was admitted into  
the Baltimore Infirmary.

The history of the case was  
as follows: On the evening of July  
30<sup>th</sup> he was playing with some  
grains of corn, and by chance one  
passed into his windpipe; when  
the accident occurred, he was  
held by the heels and shaken,  
but to no effect. Since then he  
has been easy, with the exception  
of a slight cough occasionally  
and then there seemed a body

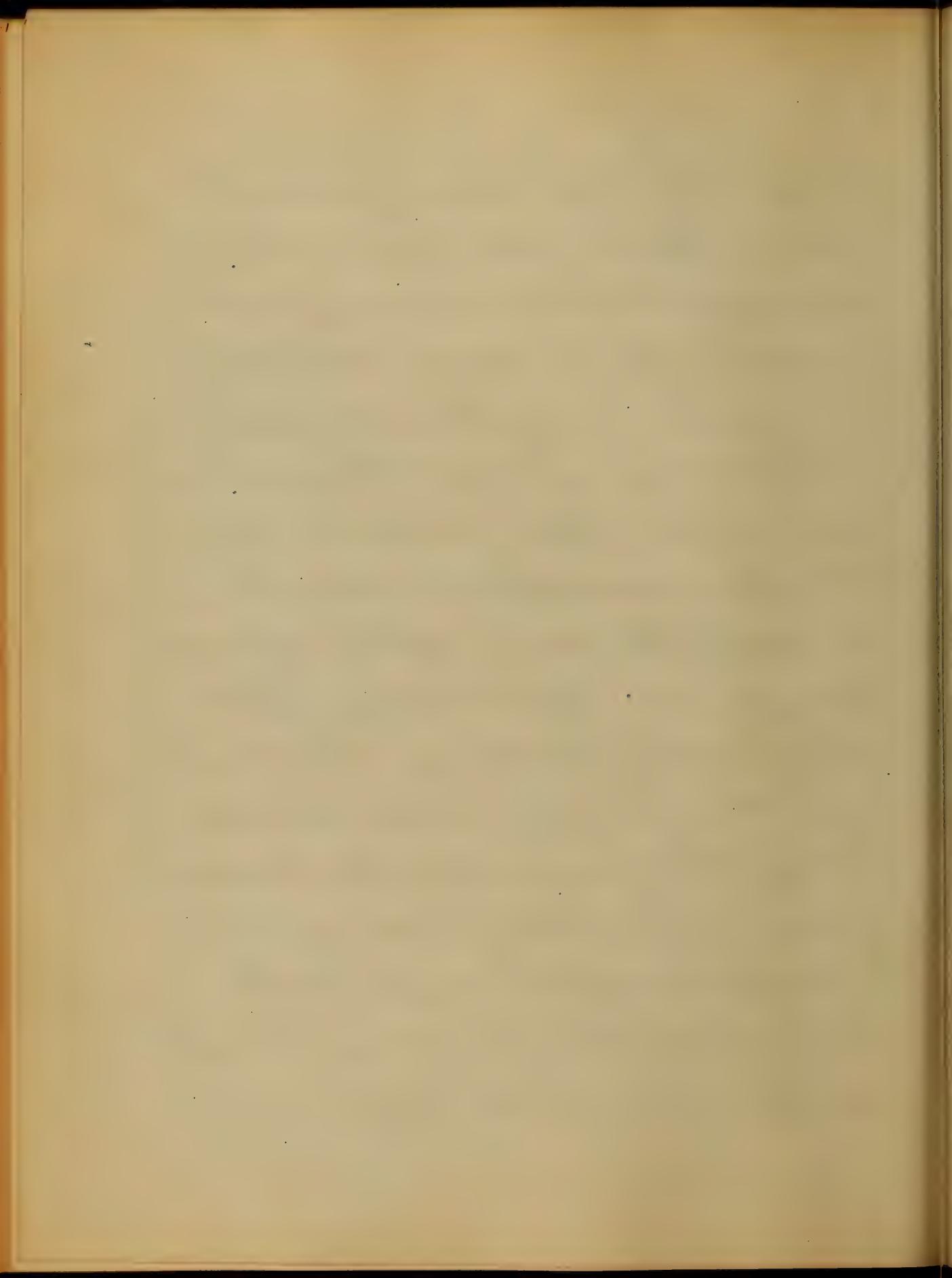


rising and falling with each respiration. There was no dullness over either lung or loss of ordinary sound. With Stethoscope over the Larynx there was heard a sort of rattle-clapping sound. Prof Johnston saw the case on the morning of the above date, and decided upon performing Tracheotomy.

He proceeded as follows; the boy being placed upon a table, a pillow was placed beneath his neck so as to make it more prominent and his head held by an assistant, a Tenaculum having the con-

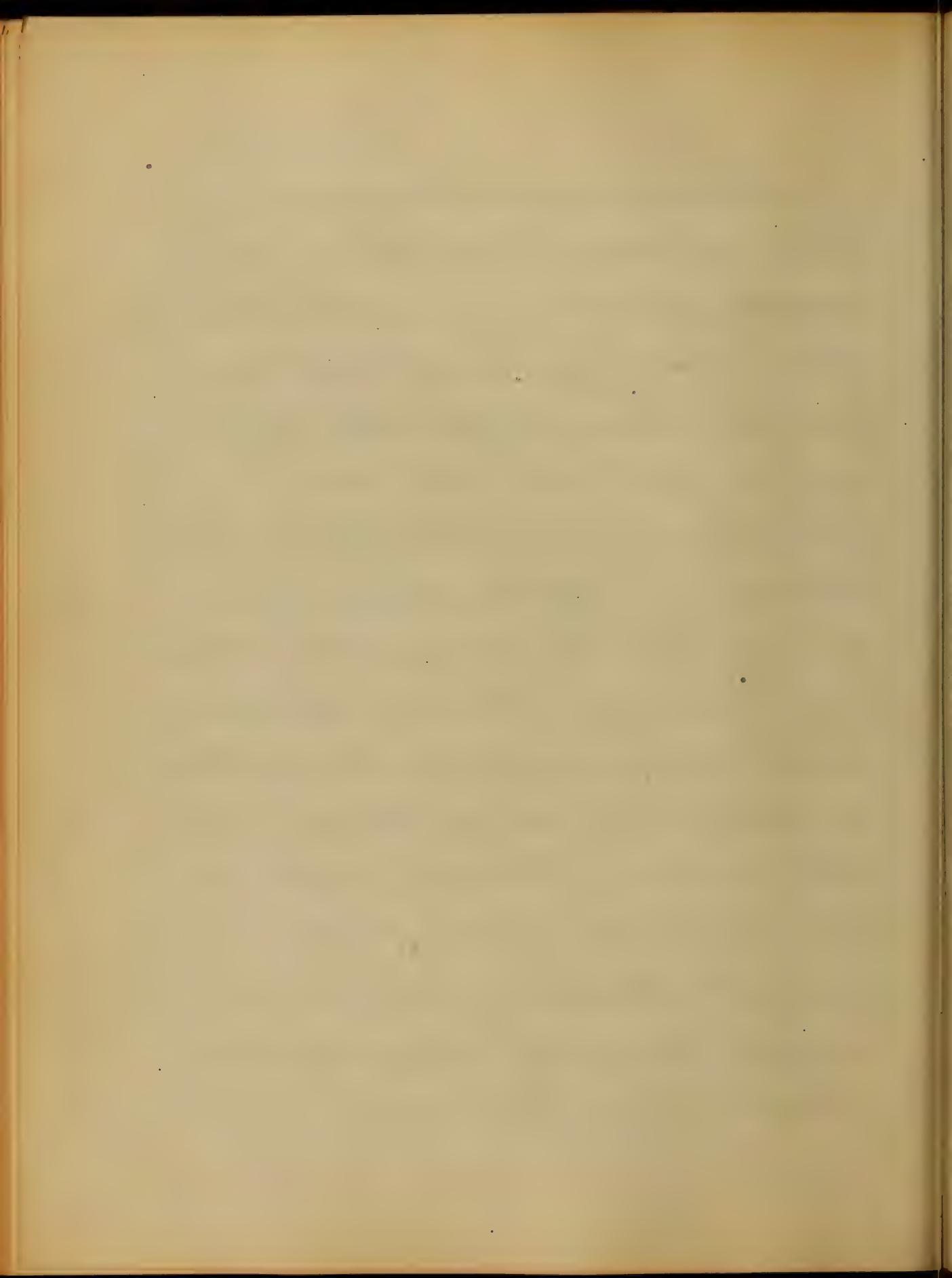


reality of its curve grooved,  
was passed into the Trachea,  
through the depression just be-  
neath the Cricoid cartilage,  
the point being directed upwards  
The integument in the median  
line was then incised for  
the distance of one half inch  
beneath the point of the previous  
puncture. Not waiting for  
the bleeding to cease, the point  
of the scalpel was passed  
along the groove of the Ima-  
lum into the Trachea and  
the latter cut through to the  
extent of the previous incision.  
Efforts of severe coughing imme-.



ly followed with the violent escape  
of blood and wind through the  
mouth and opening into the Trachea  
and a large grain of corn was  
ejected through the latter five  
or six feet into the air.)

Choking was avoided by separating  
the margins of the incision and  
constantly wiping away the blood  
with a sponge. He was removed  
in the reclining posture to his bed  
a towel being merely thrown over  
the apertures. The boy inspired  
through his nostrils, which were  
dilated at each inspiration, and  
expired through the opening. The  
operation was Chassagnac's.

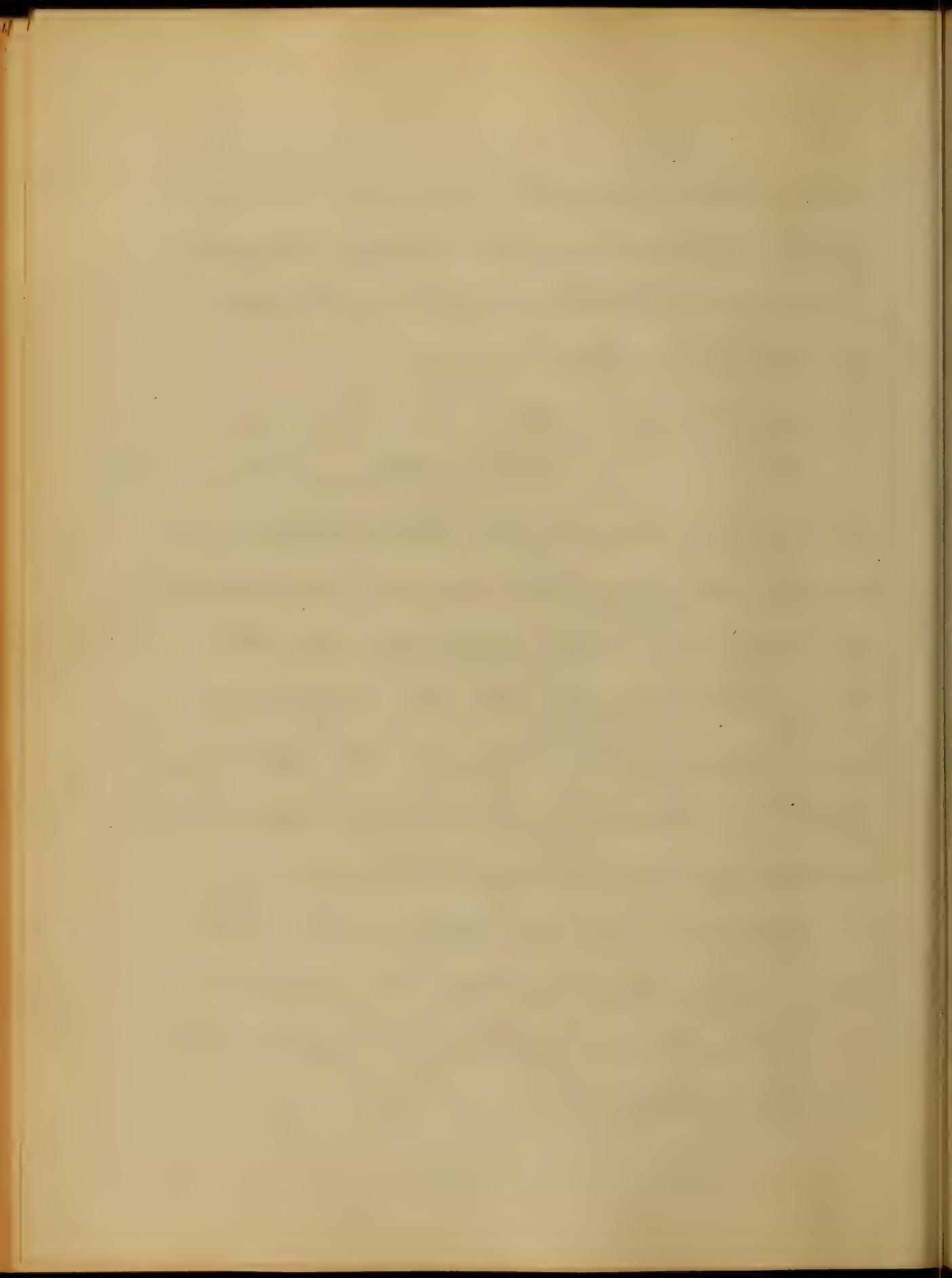


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Upon examining the grain of corn  
it was found softened and enlarged  
from imbibition of the fluids  
of the air passages.

June 4<sup>th</sup> 9 A.M.

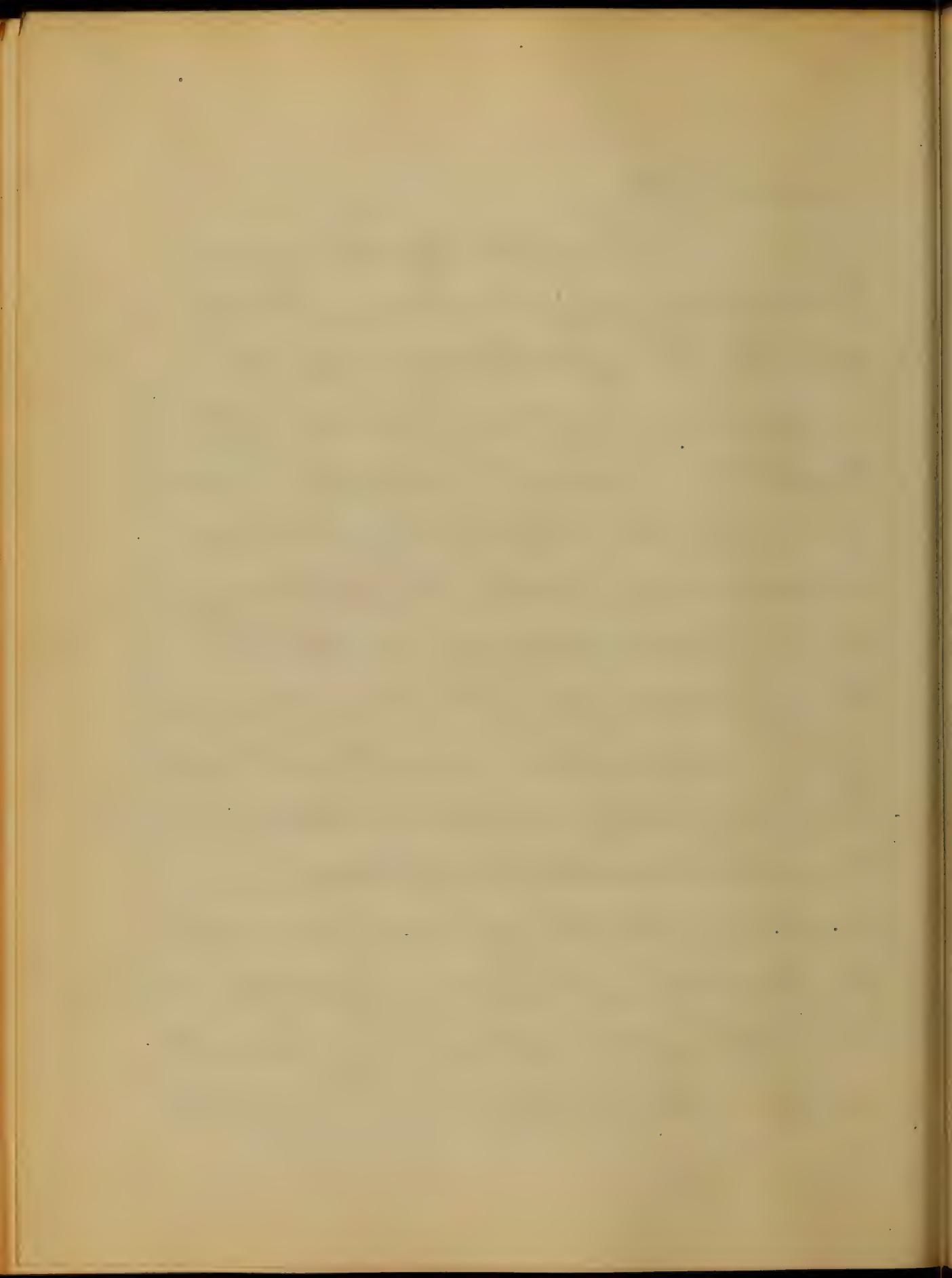
The patient was  
doing very well; he breathed more  
easily through the mouth and nostrils,  
the aperture was closed and the  
edges adherent, he had several  
times during the night the paroxys-  
ms of hissing due to the forcible  
escape of air through the opening,  
but nevertheless made well. He  
ate a hearty breakfast and did  
not complain of feeling unwell from  
the operation.



June 4<sup>th</sup> 12 M.

Found the boy sitting up in bed and enjoying his dinner, Prof Johnston brought the edges of the integument together with a silk ligature; (he would have used a saw-tise pin, but the boy was to be removed to his home) the following day, he directed a piece of lint to be placed over the wound secured by a bandage, passed around the neck and the ligature to be removed in a couple of days, this to complete the treatment.

June 5<sup>th</sup> The patient was removed from the Hospital on the morning of this date, doing very well in every respect and in a favorable condition to a speedy recovery.



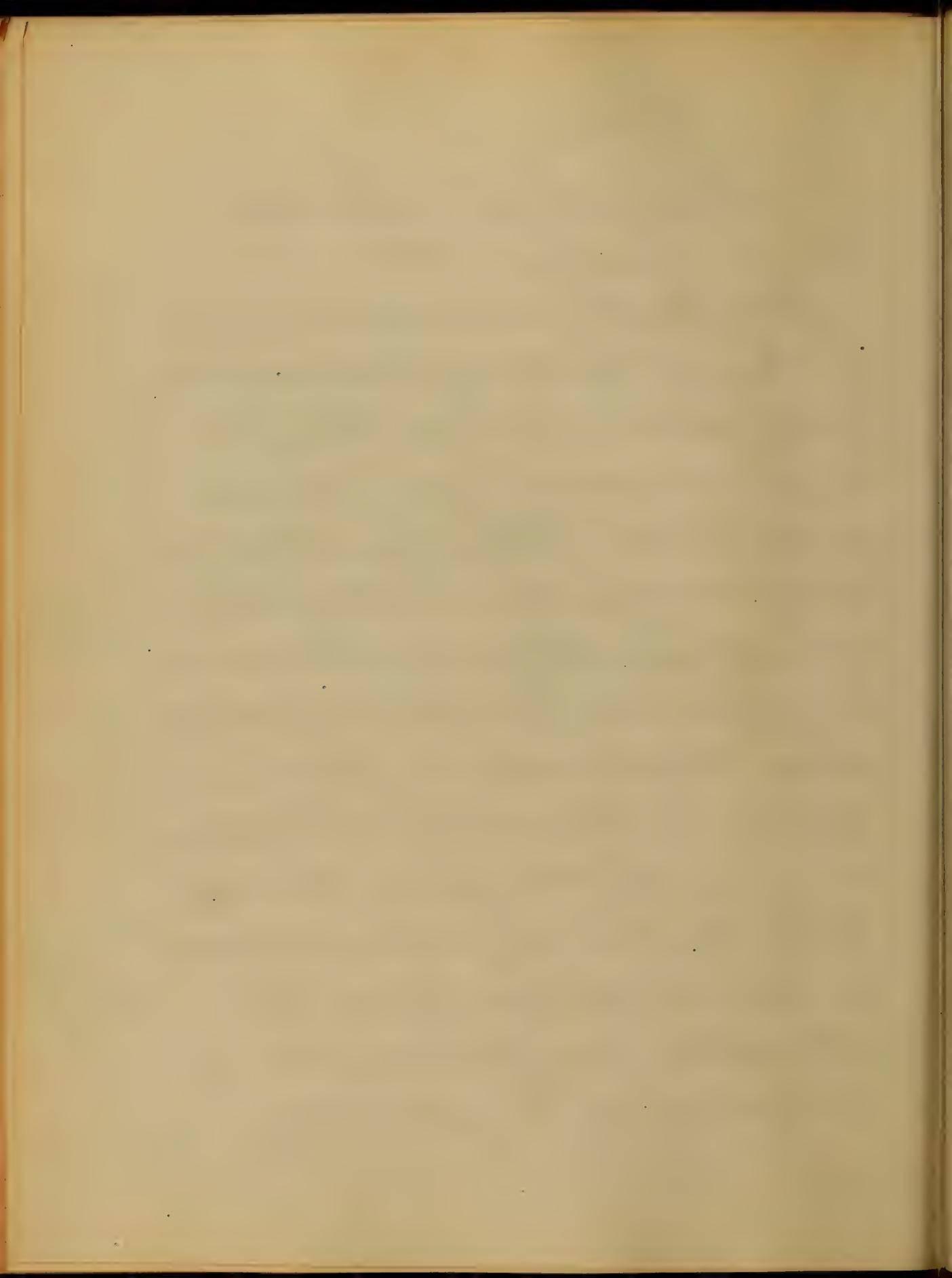
# Case V

## Strangulated Hernia.

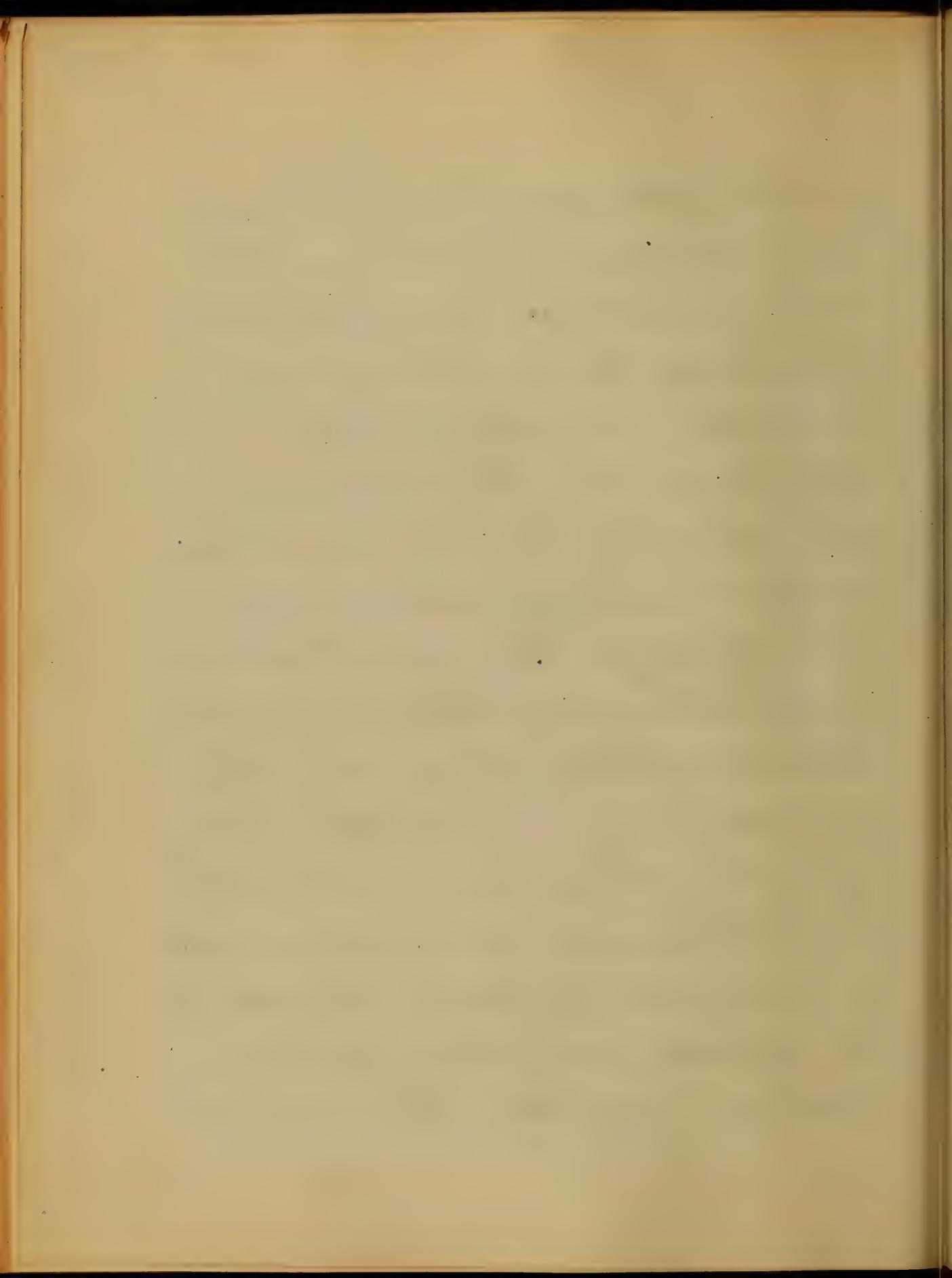
Oct 11<sup>th</sup>. Sunday. 2 P.M.

Dr. Butler was called to see a Jewish child aged two and a half years, who had oblique Inguinal Hernia since shortly after birth. It had several times come down and been replaced by their family physician. It was now on the right side and had been down since Friday afternoon; continued efforts had been made (the patient being under chloroform) the day before by two physicians, to reduce it, but they were ineffectual.

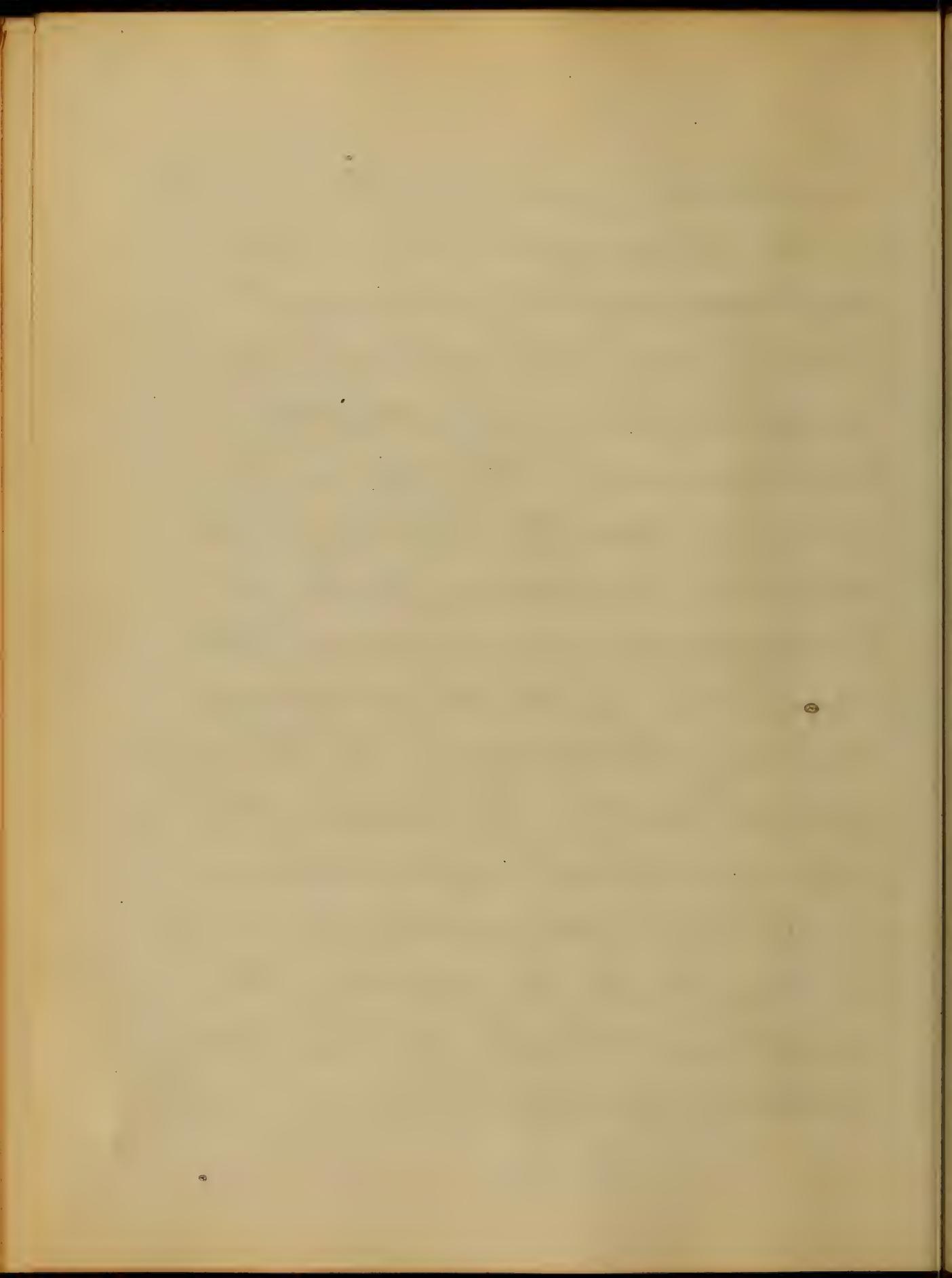
The child was found quiet, and not seeming to suffer any.



It had just eaten dinner. The abdomen was hard and swollen and the sac seemed to contain bad flesh. The patient being chloroformed, Dr Butler attempted to reduce it, but failed; he then determined upon operating, and proceeded as follows: An incision one and a half inches long was first made with a bistoury, obliquely over the middle of the tumor, then the first covering beneath, the superficial facial and with it the Inter-columnar were raised with a small pair of forceps and nicked, the director was then passed first up, and then down, and then

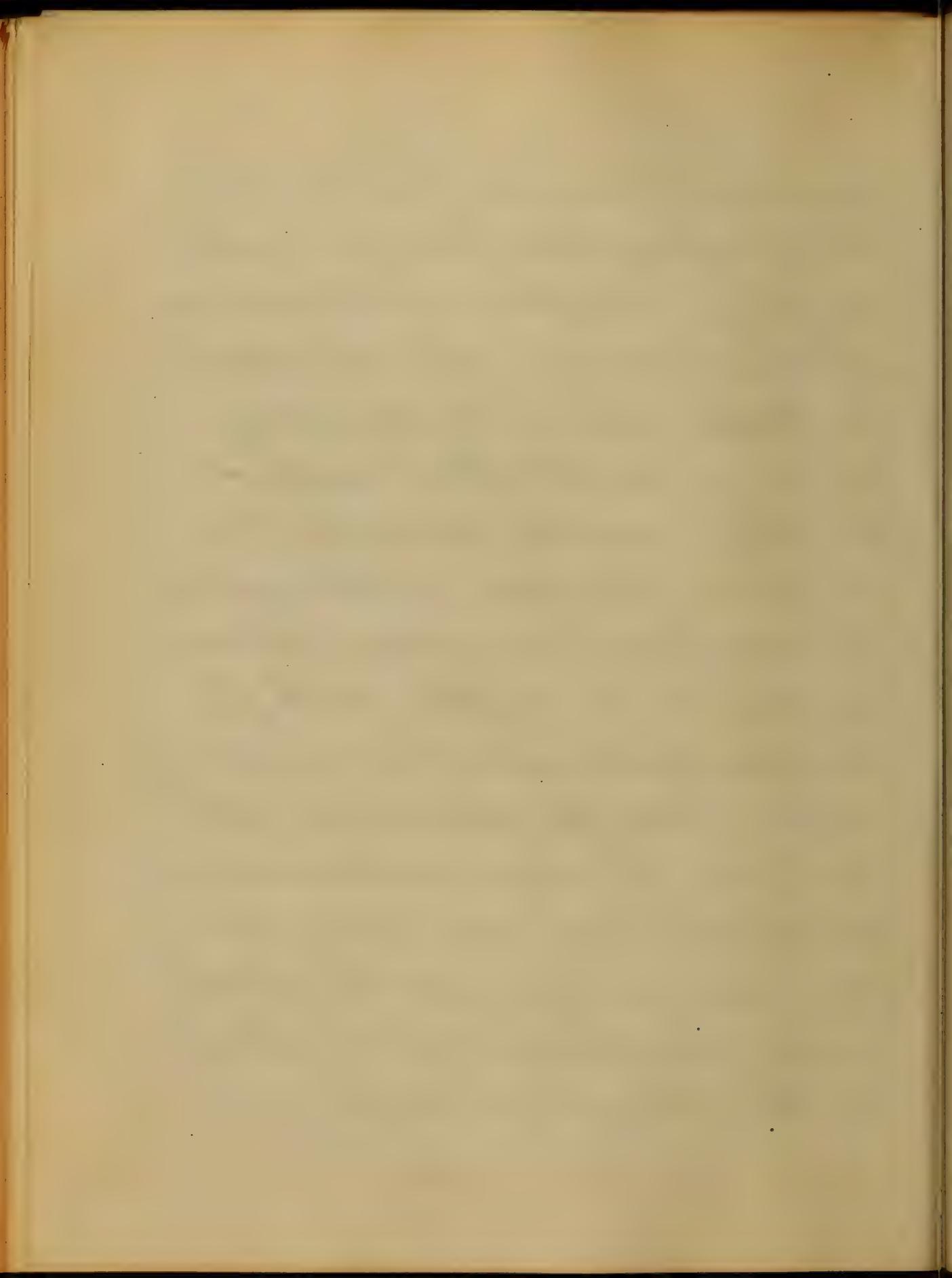


membranes divided to the extent of the previous incision. The next membrane the Cremaster & facial, and the next the Transversalis facial were treated in like manner. He then reached a bulging sac, fluctuating and evidently containing fluid, it looked dark, and presented the appearance of the intestine commencing to ulcerate. At first he was in doubt. But passing his finger upwards he felt above and inside of this sac a little tumor which he knew to be the intestine, he nipped and slit this sac in like manner with the others and a



quantity of serum gushed out.  
Then his finger detected a constricting band of fibres at the external abdominal ring. He next passed Sir Astley Cobbe's knife along the finger on its flat surface, but was unable to divide the stricture. He said he always tried this method in every case but was unable to do anything with it.

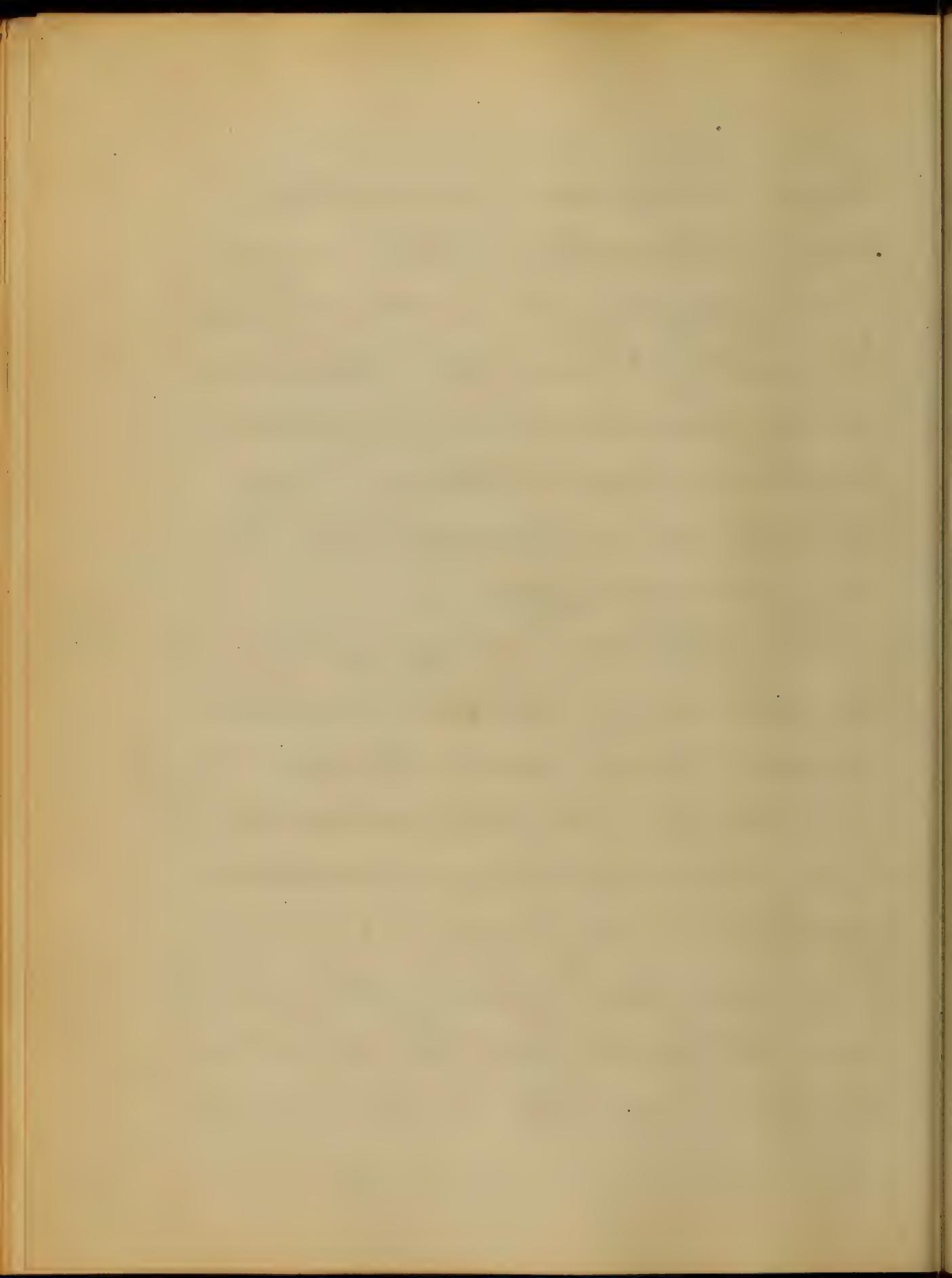
He then took a plain bistoury passing it flat along the index finger of his left hand, the edge directed outwards then turning it so as to bring the edge directly upwards; he slit the constricting fibres, and the intestine was then returned with perfect ease.



Three interrupted silk sutures were passed through the margins of the integument and the incision drawn together, a wet compress which was ordered to be kept wet constantly, and it secured by a bandage passed around the hips, were the dressings.

In Opii Camph. and quiet were ordered and if Peritonitis subsided Calomel and Opium.

Dr Butler had never operated before, or heard of an operation on a child so young. A truss had been procured for this child but it could not be worn, on account of its producing an



much pain.

From 11<sup>th</sup> to 15<sup>th</sup>.

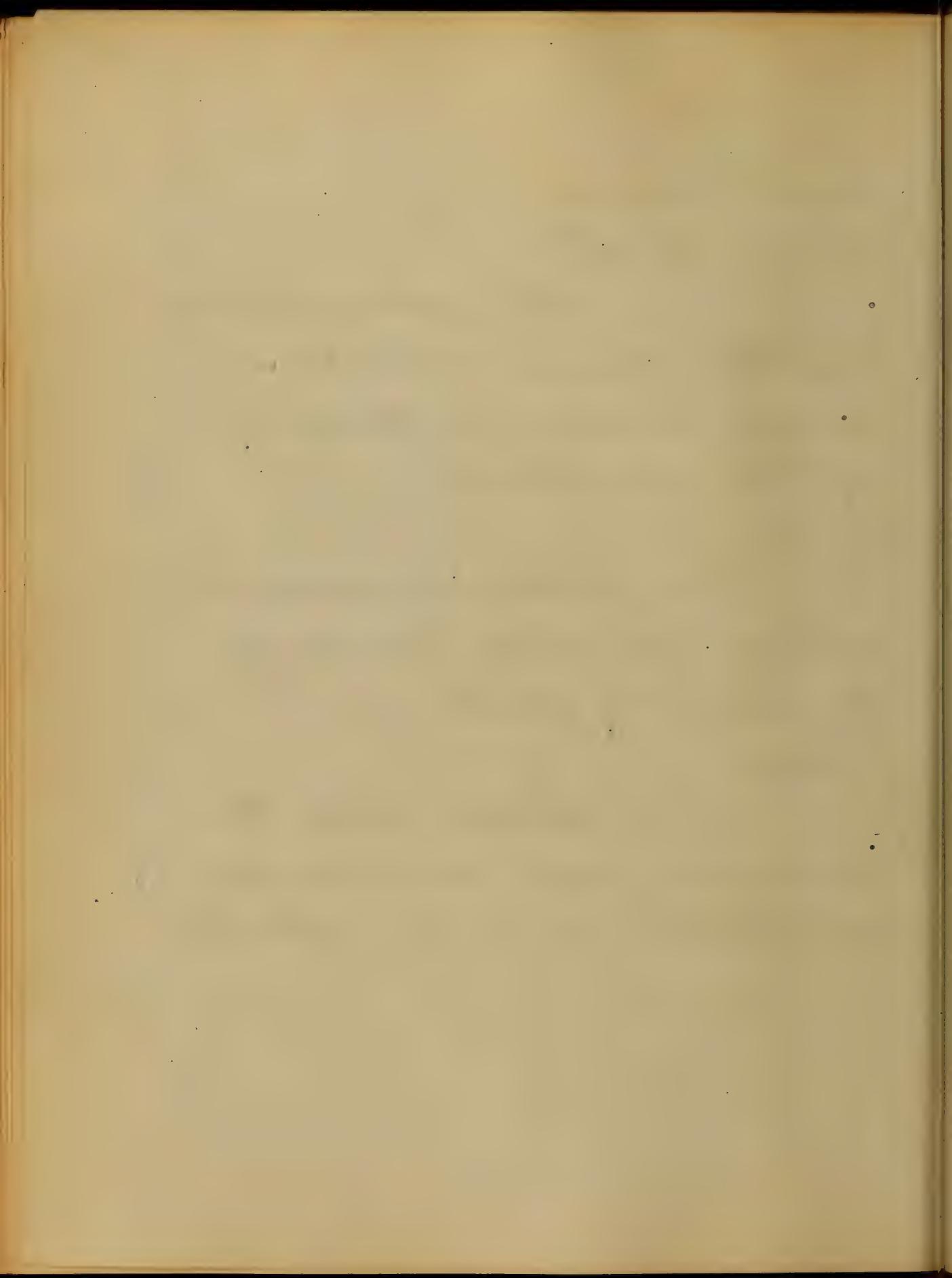
The patient improved rapidly, there seemed to be no pain or soreness at the seat of the operation.

Oct 17.

Dr Butler removed the sutures, the child was doing remarkably well.

Oct 19.

Dr Butler said the child was well and needed no further medical attention.

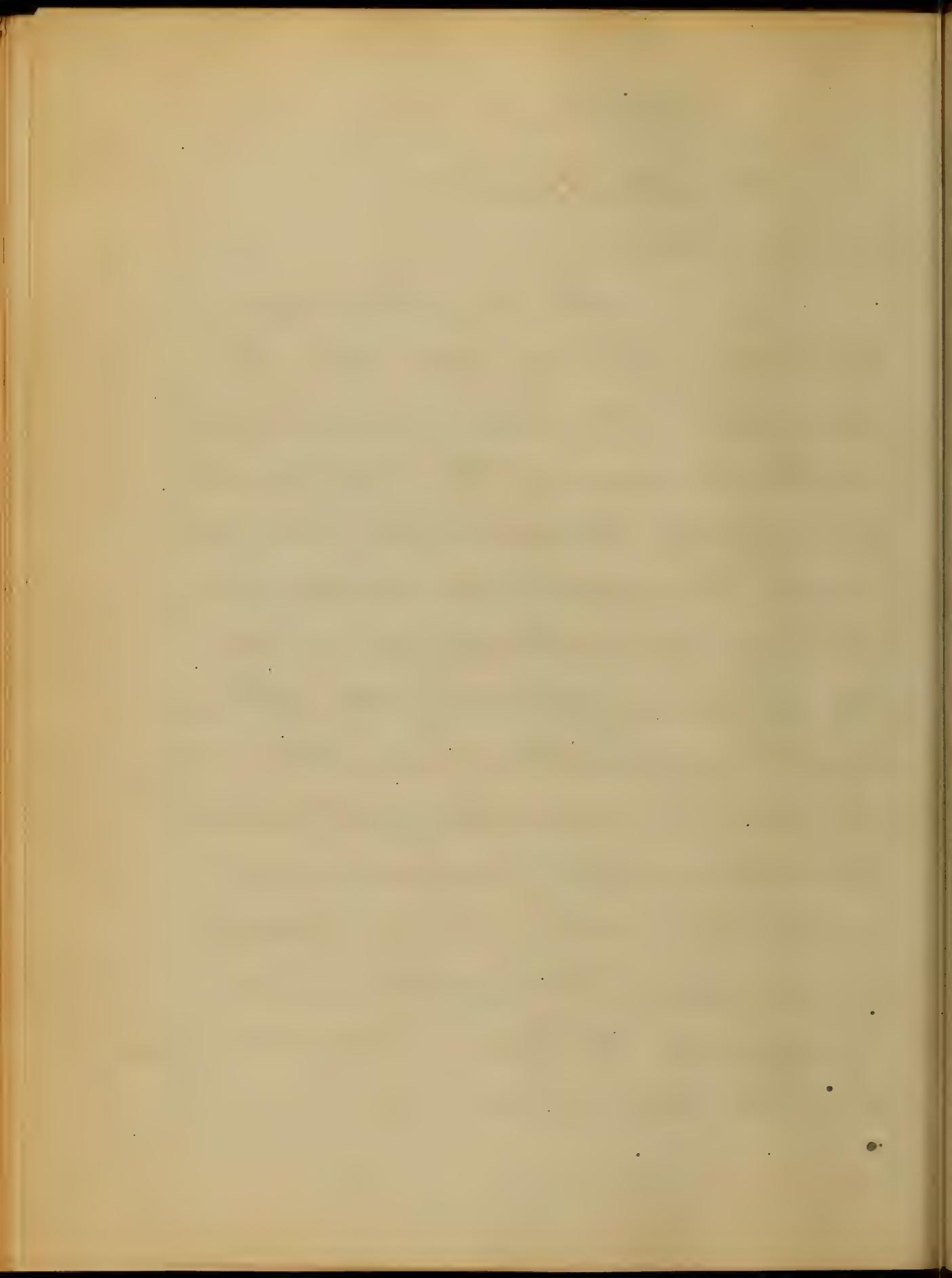


# Case VI

## Epithelioma.

Oct 30<sup>th</sup> 1867.

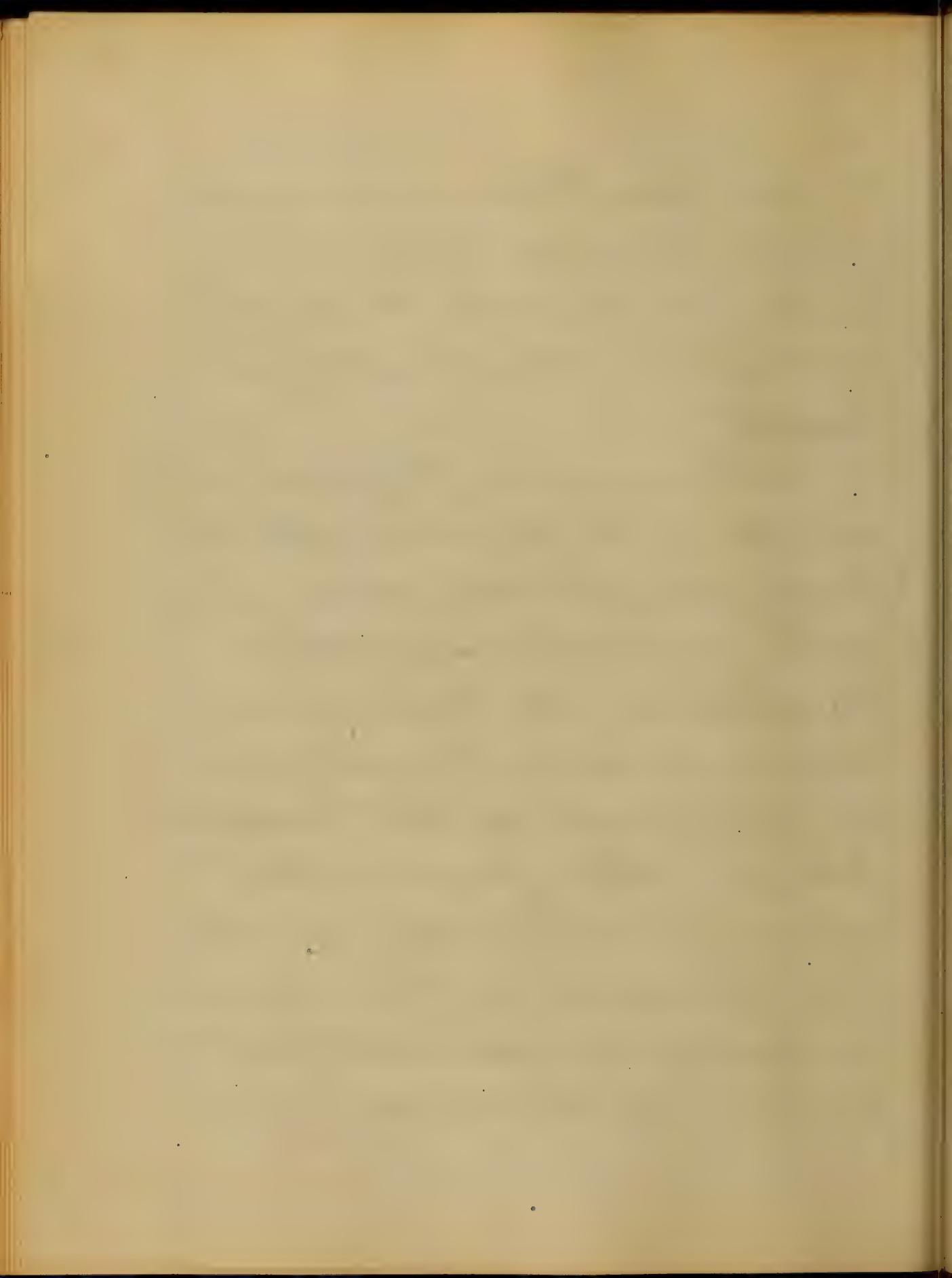
M. P. (white) aged  
Sixty two was admitted into the  
Hospital. He had an oval ulcer,  
on the dorsum of the left hand  
with hard elevated borders and  
about two inches in diameter.  
There was a slight enlargement of  
the Sigmoid gland at the elbow,  
due to sympathetic irritation.  
The patient was brought before  
the class on the morning of  
Nov 2<sup>nd</sup> when Prof Smith  
diagnosed it "Epithelioma," and  
proceeded to treat it accordingly.  
He brushed it over with a stick



of Caustic Potassa, and directed  
it to be dressed with Turners  
Creare, also that the Caustic be  
applied in a couple of days.

Nov 16<sup>th</sup>

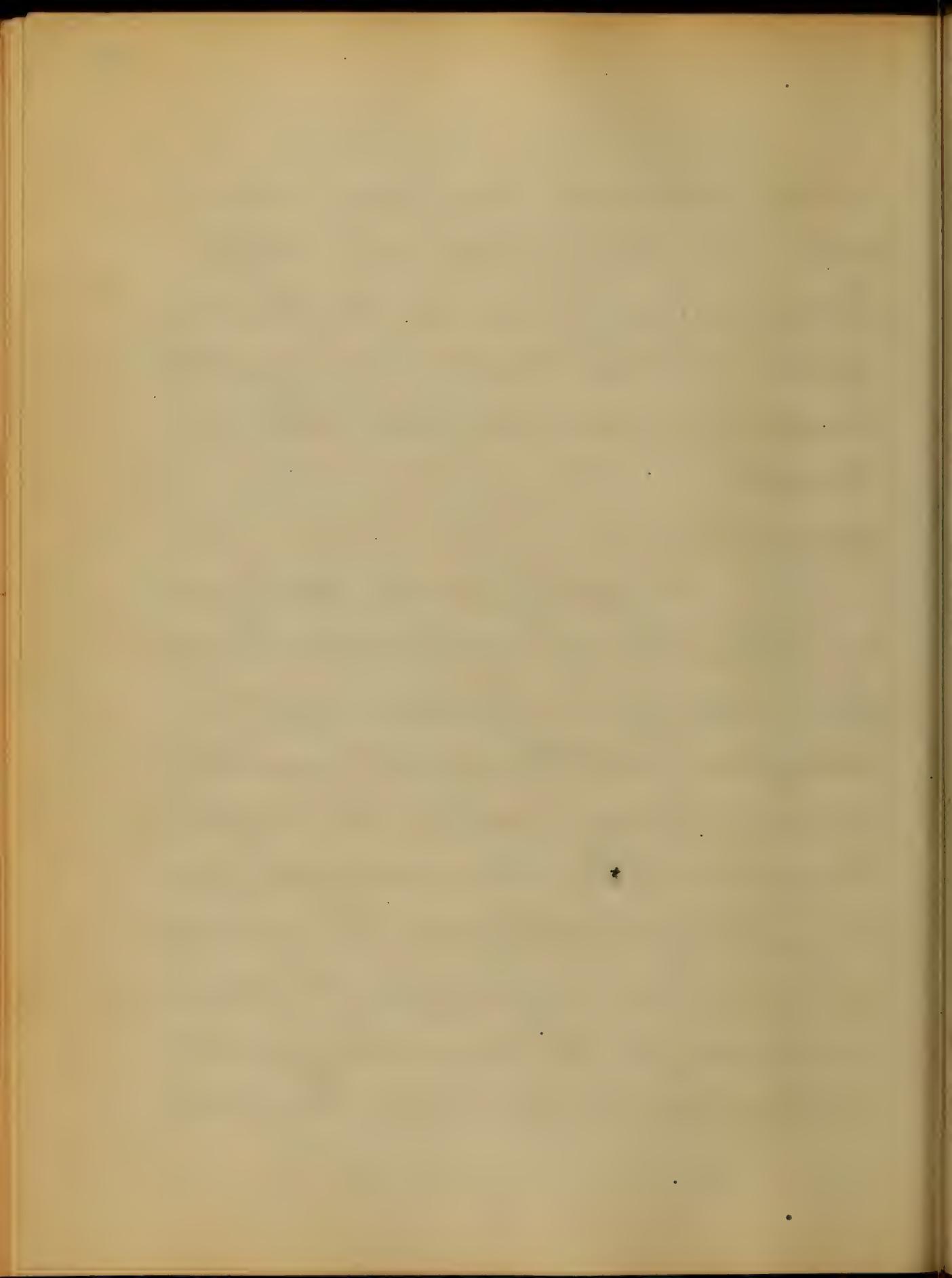
The resident physician had  
reapplied the Caustic, the ulcer  
presented a healthy appearance  
with granulations over  
the surface, the border was  
indurated and inflamed from  
the application of the Caustic  
Potassa. The gland at the  
elbow was smaller than at the  
last examination, the veins were  
somewhat injected on the left  
forearm. He complained of a



sharp, shooting, & stinging pain over the whole dorsum of the hand, extending partly up the fore-arm. There had been no other dressing applied but Turner's Cerate.

Nov 24<sup>th</sup>.

The patient's hand looked much improved there was healthy pus and granulations on the surface of the ulcer and there was no appearance of the original disease; He had a slight pain about the middle of the knuckle. Prof Smith thought the disease arrested for the time being and recommended highly the cold.



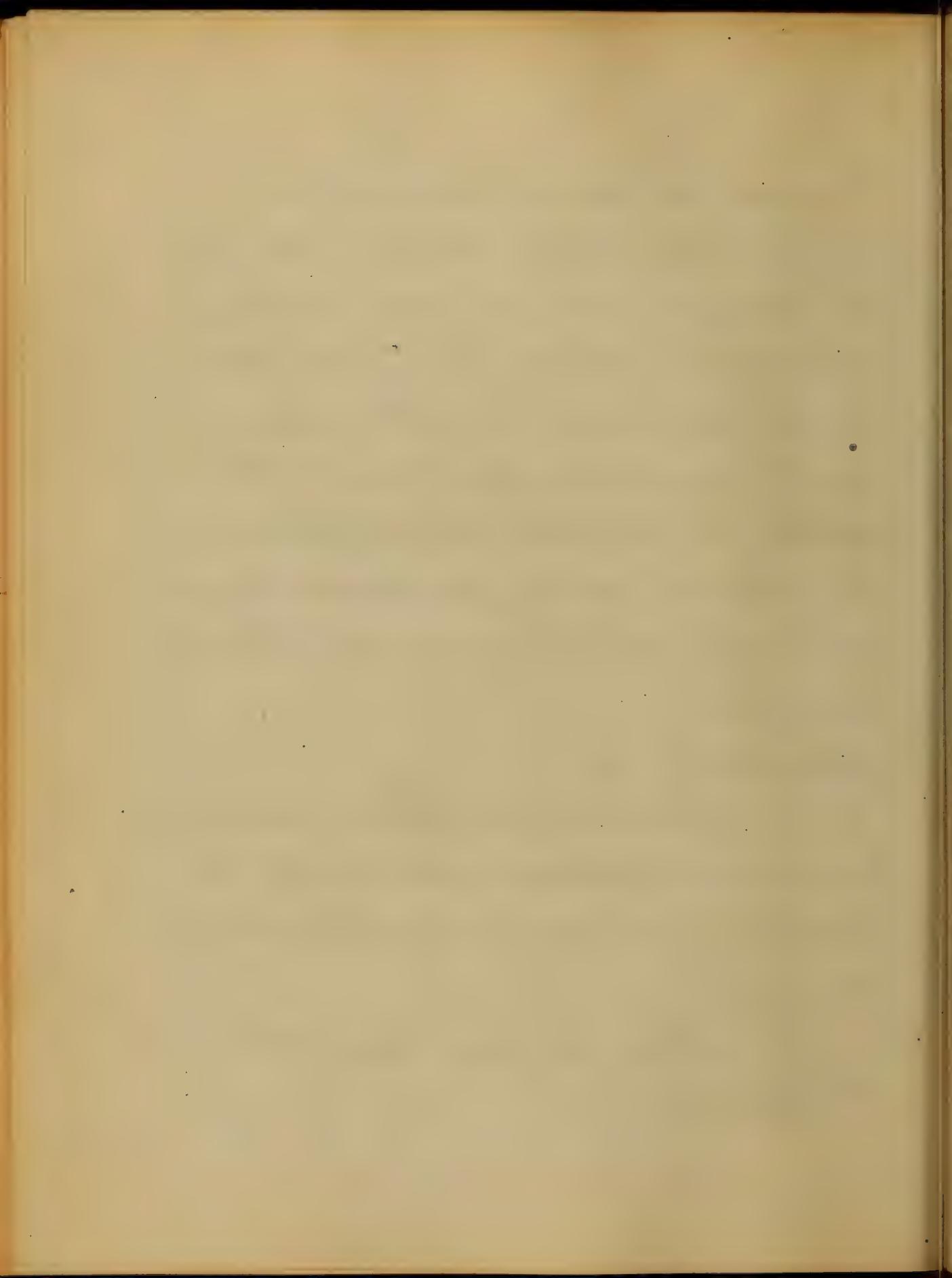
-Cation in such cases, of two parts of Caustic Potassa to one of Opium. A piece of adhesive plastered with a hole in it somewhat smaller than the ulcer being applied first over the latter, to prevent the diffusion of the Caustic preparation amongst the surrounding healthy tissues.

Nov 29<sup>th</sup>

The patient's hand looked very well and seemed as if it would be healed in a few days

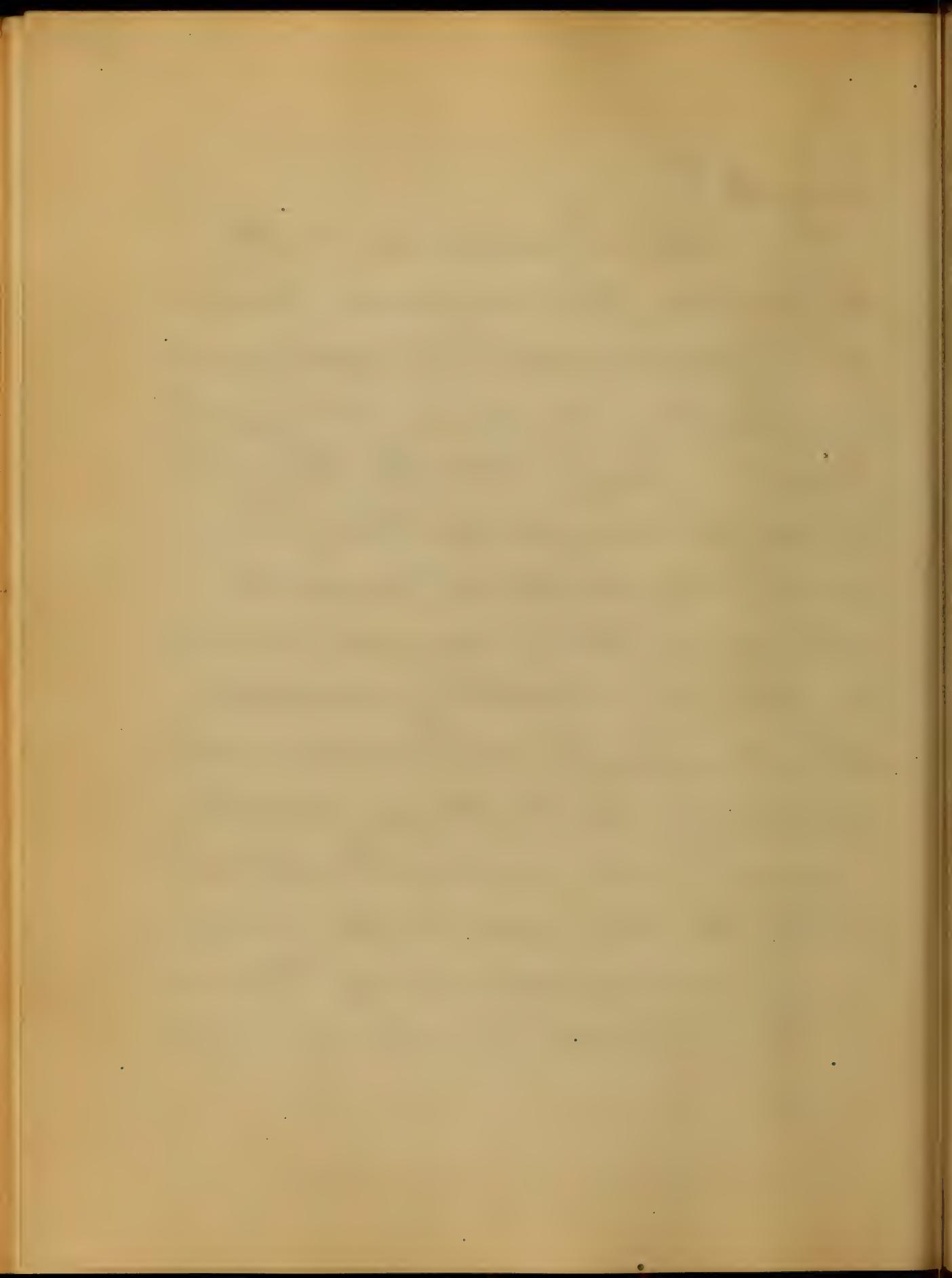
Nov 30<sup>th</sup>

The patient left the Hospital.



Jan'y 8<sup>th</sup>

M. P. returned to the Hospital his original disease had again made its appearance in the old cicatrix worse than before. Prof Smith thought that excision of the ulcer was <sup>the</sup> only hope of complete recovery. He excised it with a Scalpel, cutting outside the diseased structures and exposing the tendons, no Chloroform was used, he ordered it to be dressed with lint, and watery solution of Opium to be applied to allay pain.



Jany 11<sup>th</sup>

Surfaces and edges of the ulcers looked perfectly healthy, the gland at the elbow was reduced in size.

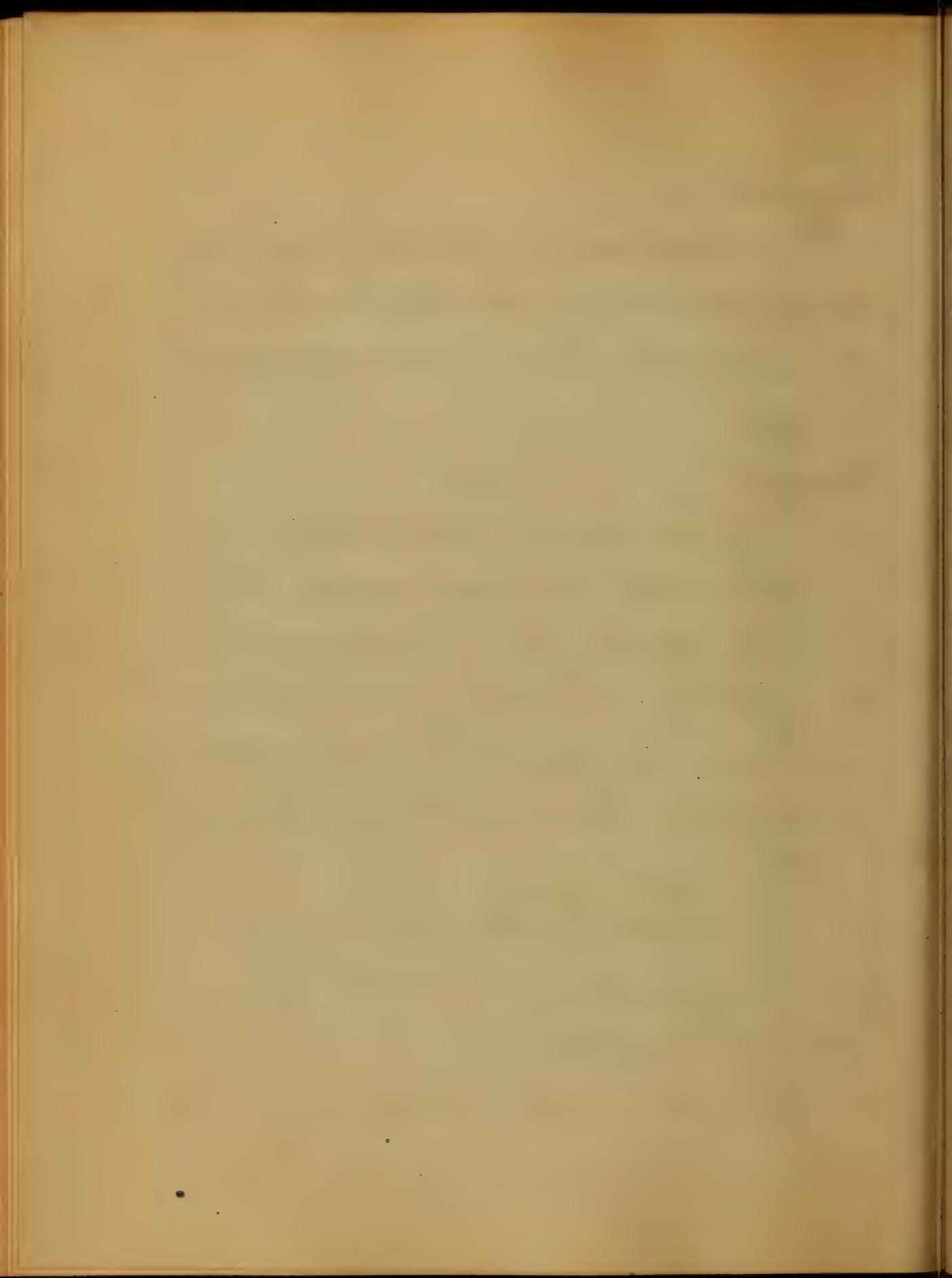
Jany 18<sup>th</sup>

The hand presented a favorable appearance, he slight pain in the fore arm he stated that his general health was not so good like the operation. He was using Unguentum of

Rt

Proto Chlor Hydry Zi  
Turners Cerate Zi  
M. fiat ungl.

Sig. To be applied twice a day



Aug 24<sup>th</sup>

The ulcer did not soak so well, a little dil. nitric acid was applied to repel exuberant granulations, the latter had been bleeding and discolored the surface. The sigmoid gland was not increased in size; he was ordered a tonic pile consisting of

Rx

Proto Carb Ferr. grs xx.

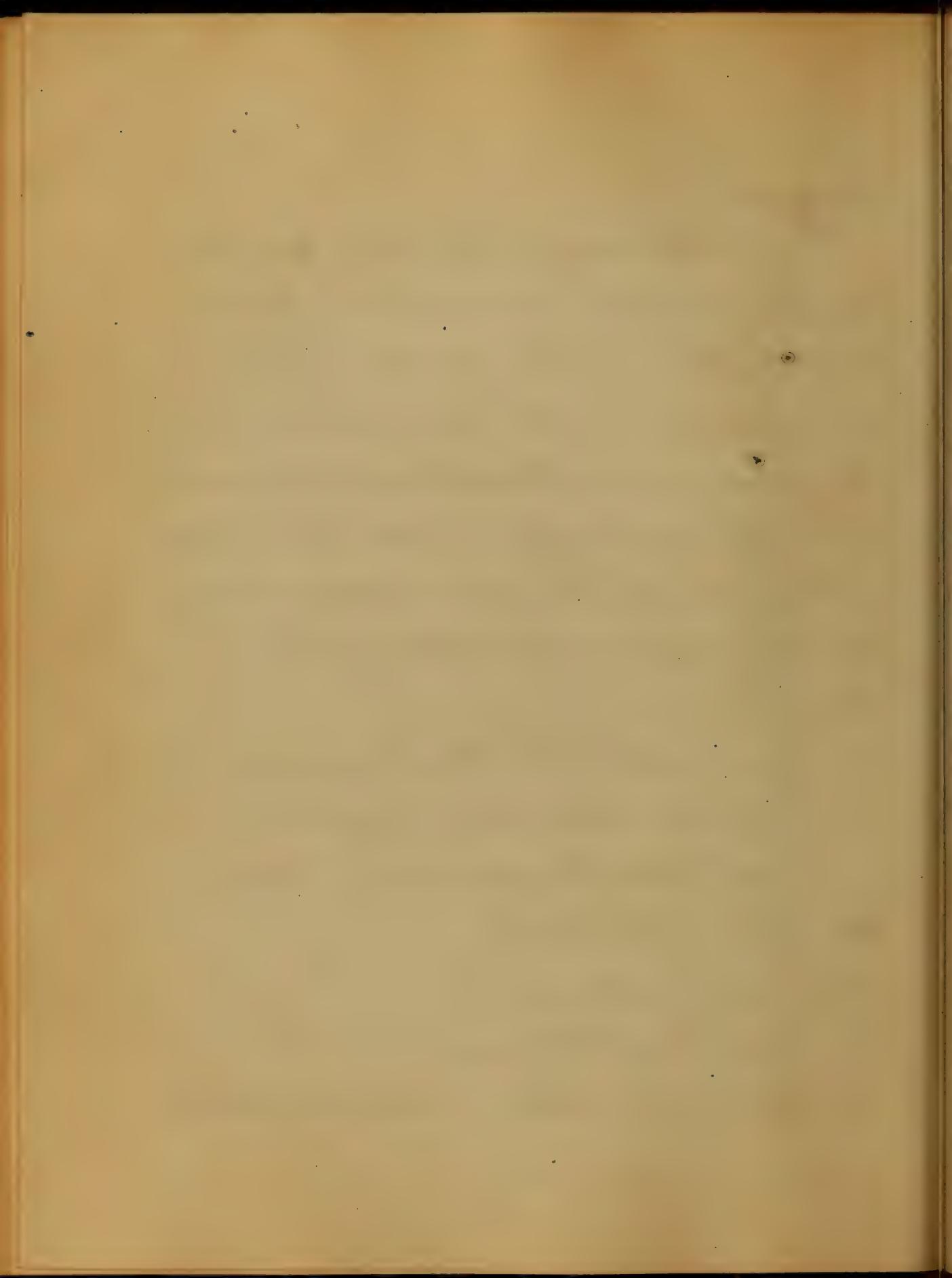
Nuse-Vomica - grs x.

Sulph Quinia - grs xx.

No. flat. pile no x.

Sig. One pile ten die.

The Unct. of Calomel and Turners Crate, was ordered to be stopped



and in its place, the following  
was ordered.

Rx.

Acid Carbolic gas v.

Turner's Cerate 3j.

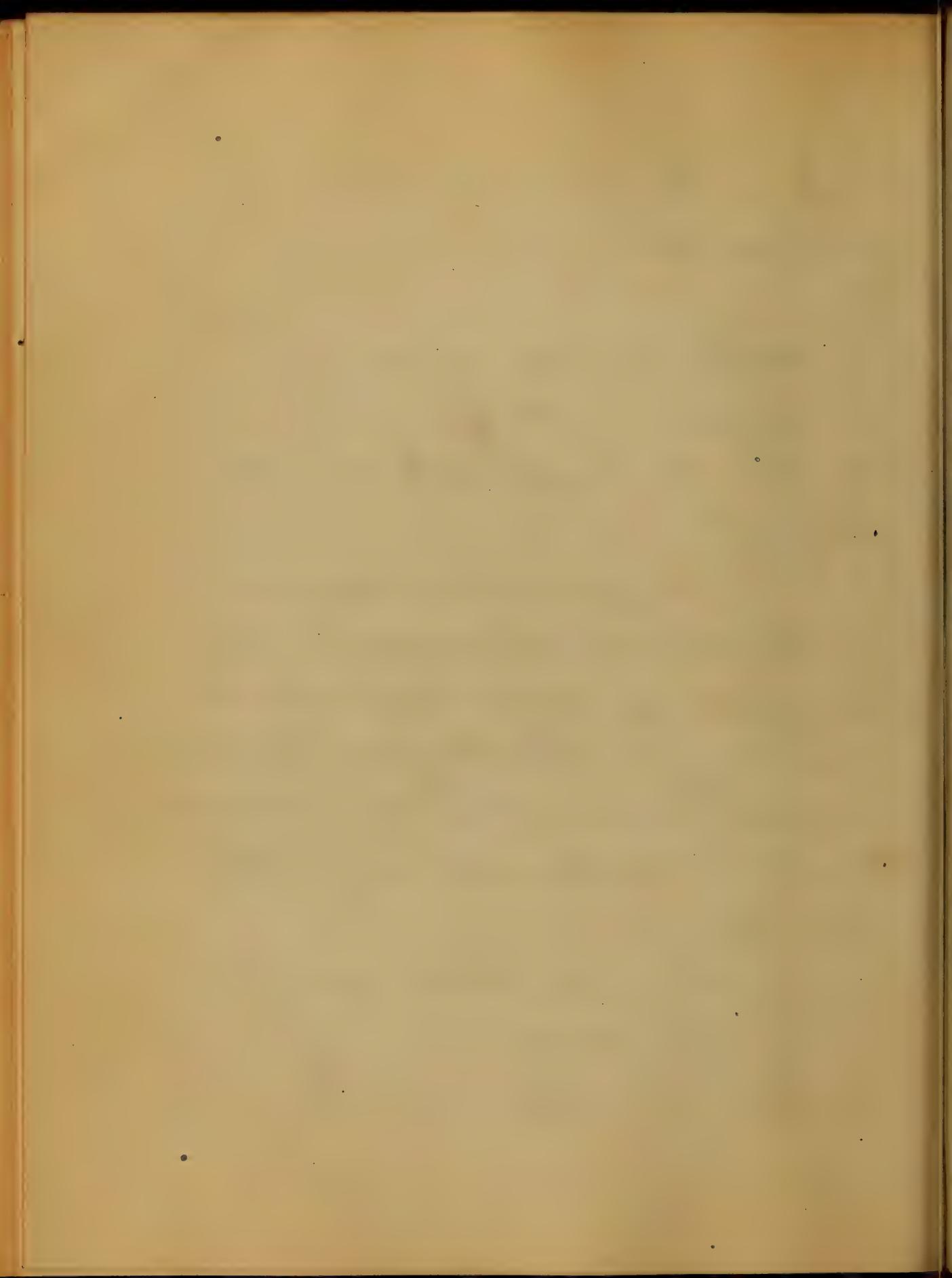
M. Sig. to be applied twice a day.

Feby. 5<sup>th</sup>

The granulations were  
unhealthy and abundant, also  
very spongy, and required an  
astringent. The Unct of Carbolic  
Acid, <sup>and</sup> Turner's Cerate was order-  
ed to be discontinued and  
to use,

Rx - Argenti Nitras. gas iiij  
Aqua Distil. 3j

M. Sig. To be applied bis die.

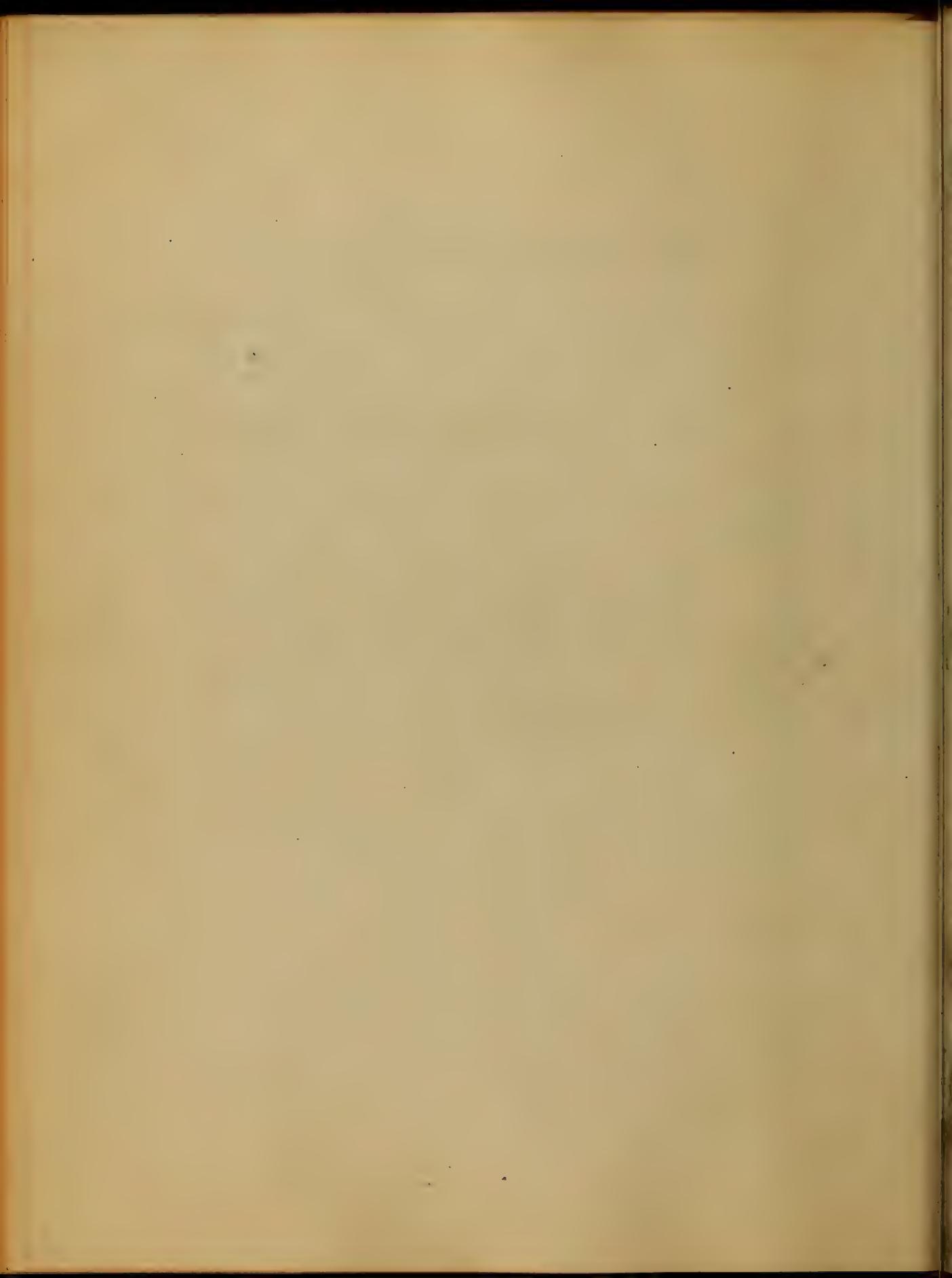


Feby 12<sup>th</sup>

The patient's hand very  
much improved and the ulcer neatly  
healed, all washes &c were ordered  
to be stopped, and dressed with  
Crotalaria Simplicis.

Feby 18<sup>th</sup>

The patient left the  
Hospital, his hand being  
entirely well.



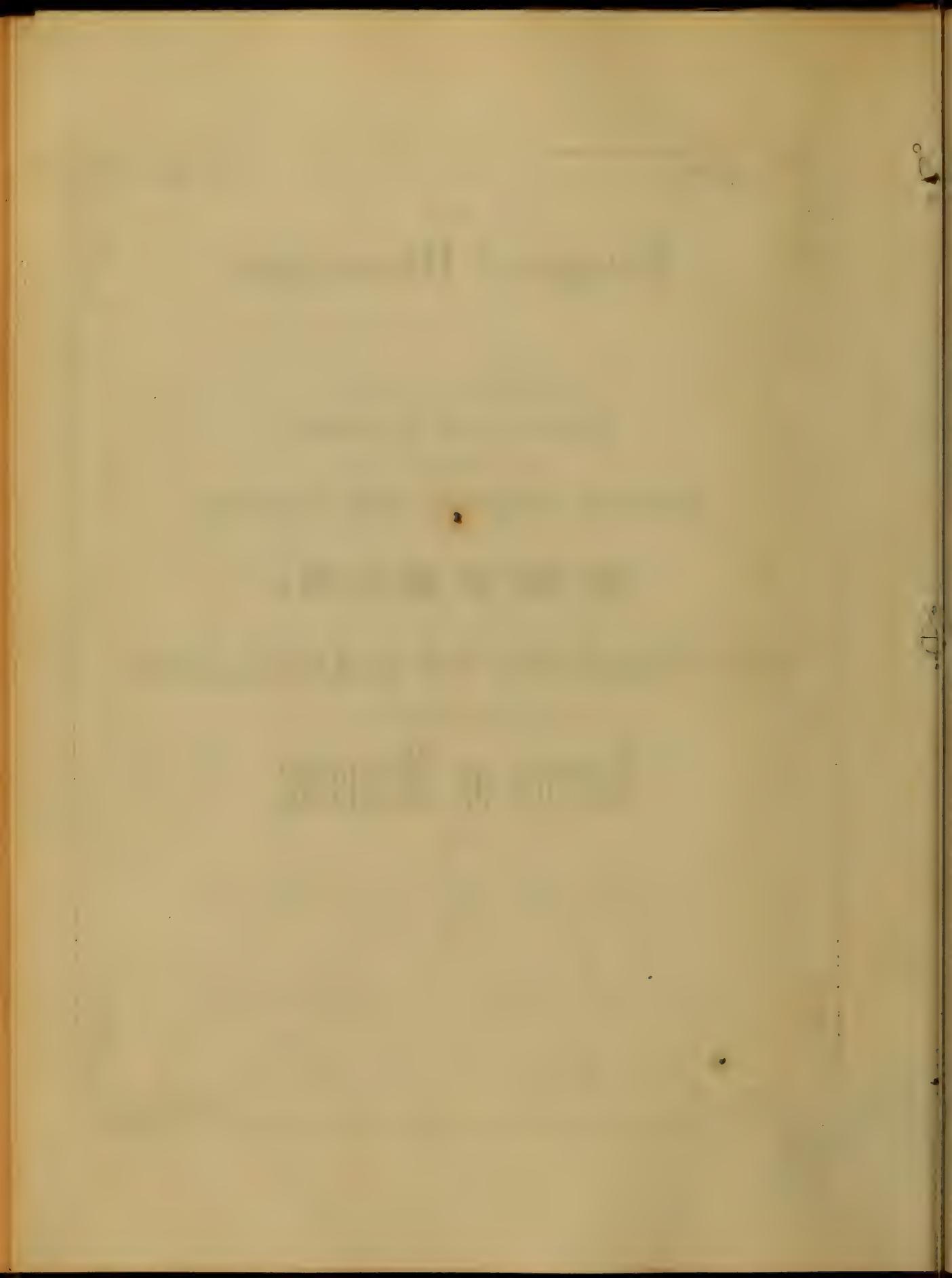
A N  
Inaugural Dissertation  
ON  
*Syphilis*  
Submitted to the Examination  
OF THE  
Provost, Regents and Faculty  
OF  
**PHYSIC,**  
OF THE  
UNIVERSITY OF MARYLAND,  
FOR THE DEGREE OF  
**DOCTOR OF MEDICINE,**

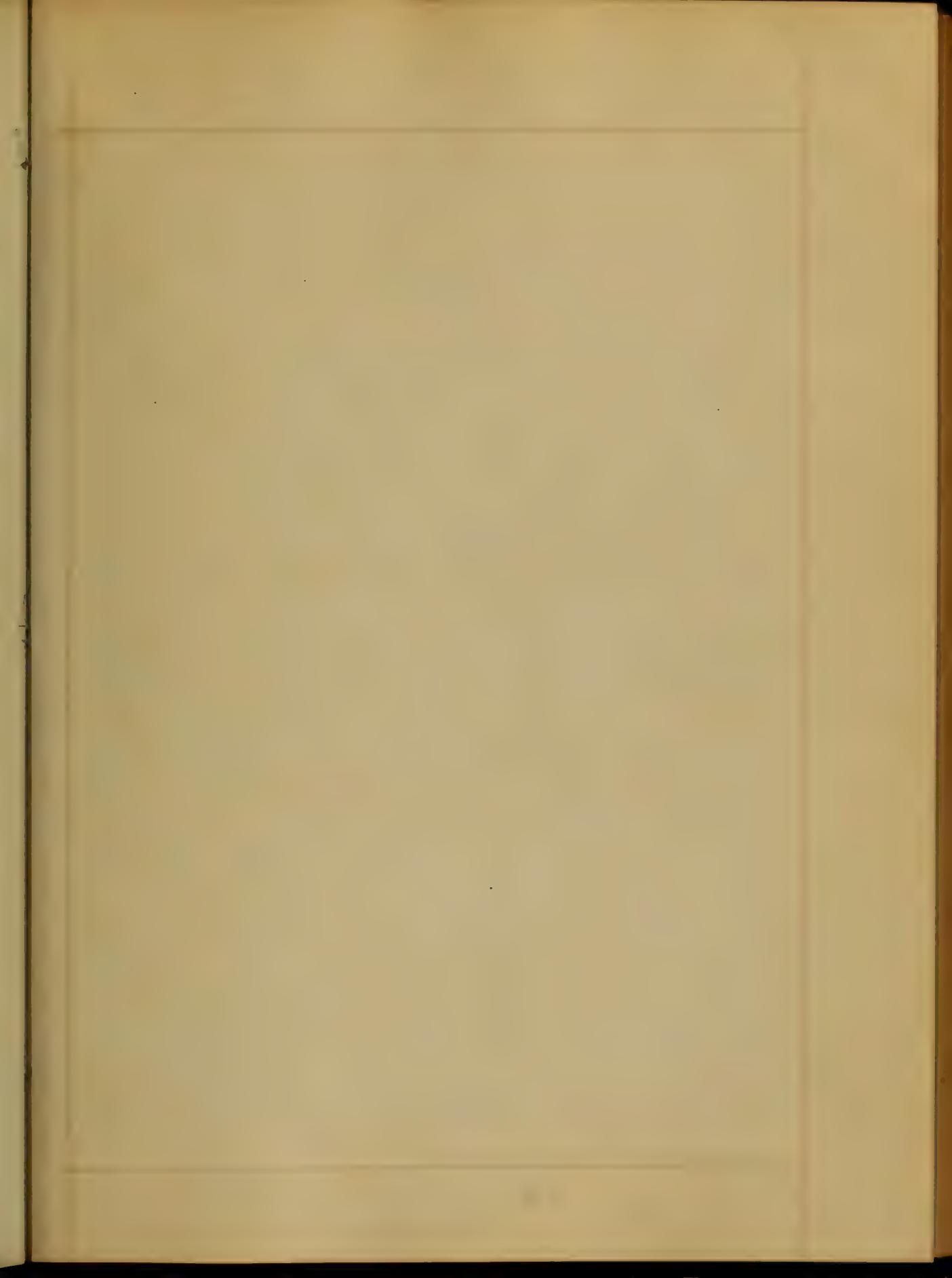
By

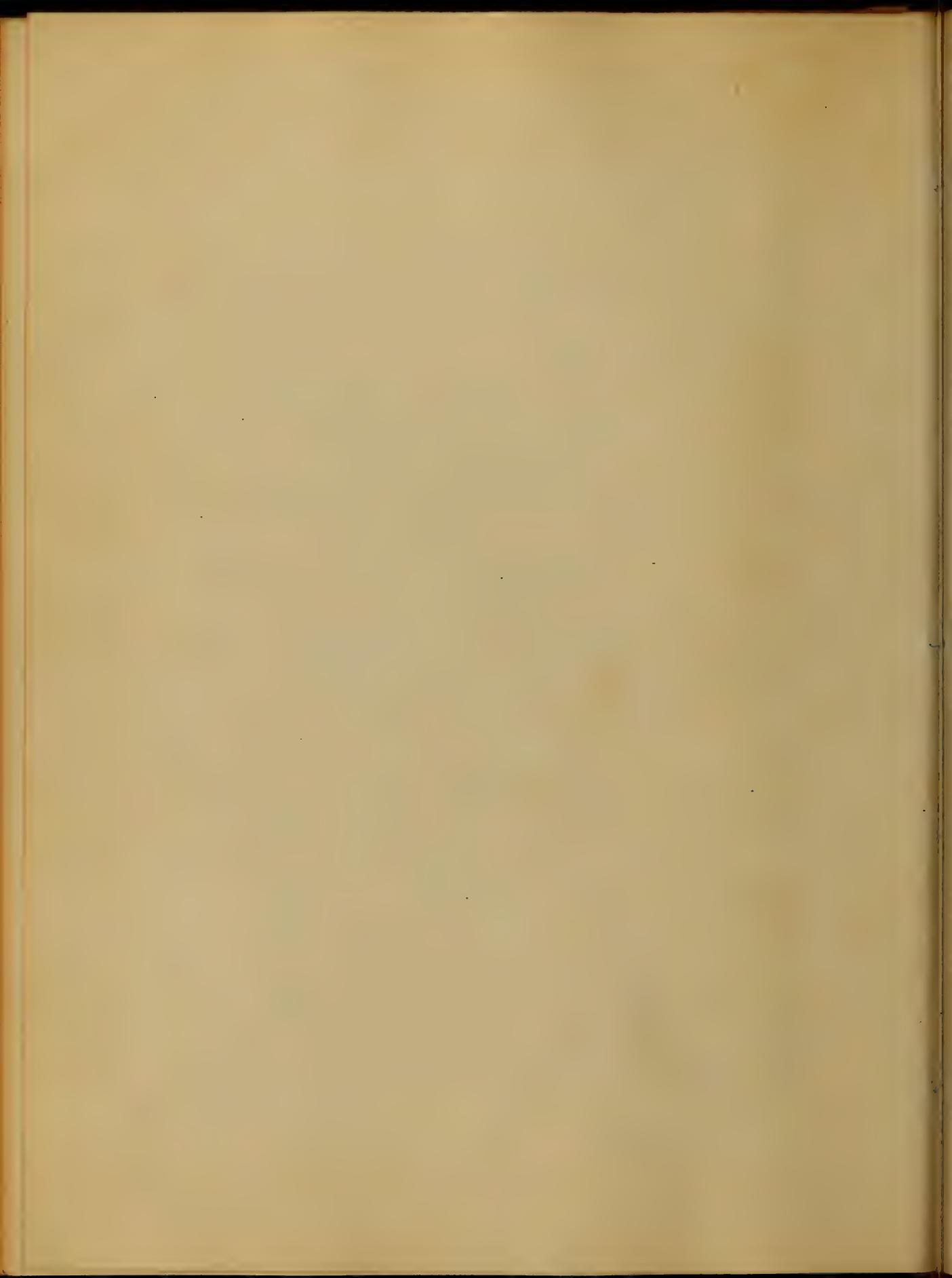
George Washington Clegg

Front Royal Virginia

Datum of 15 August 1845.



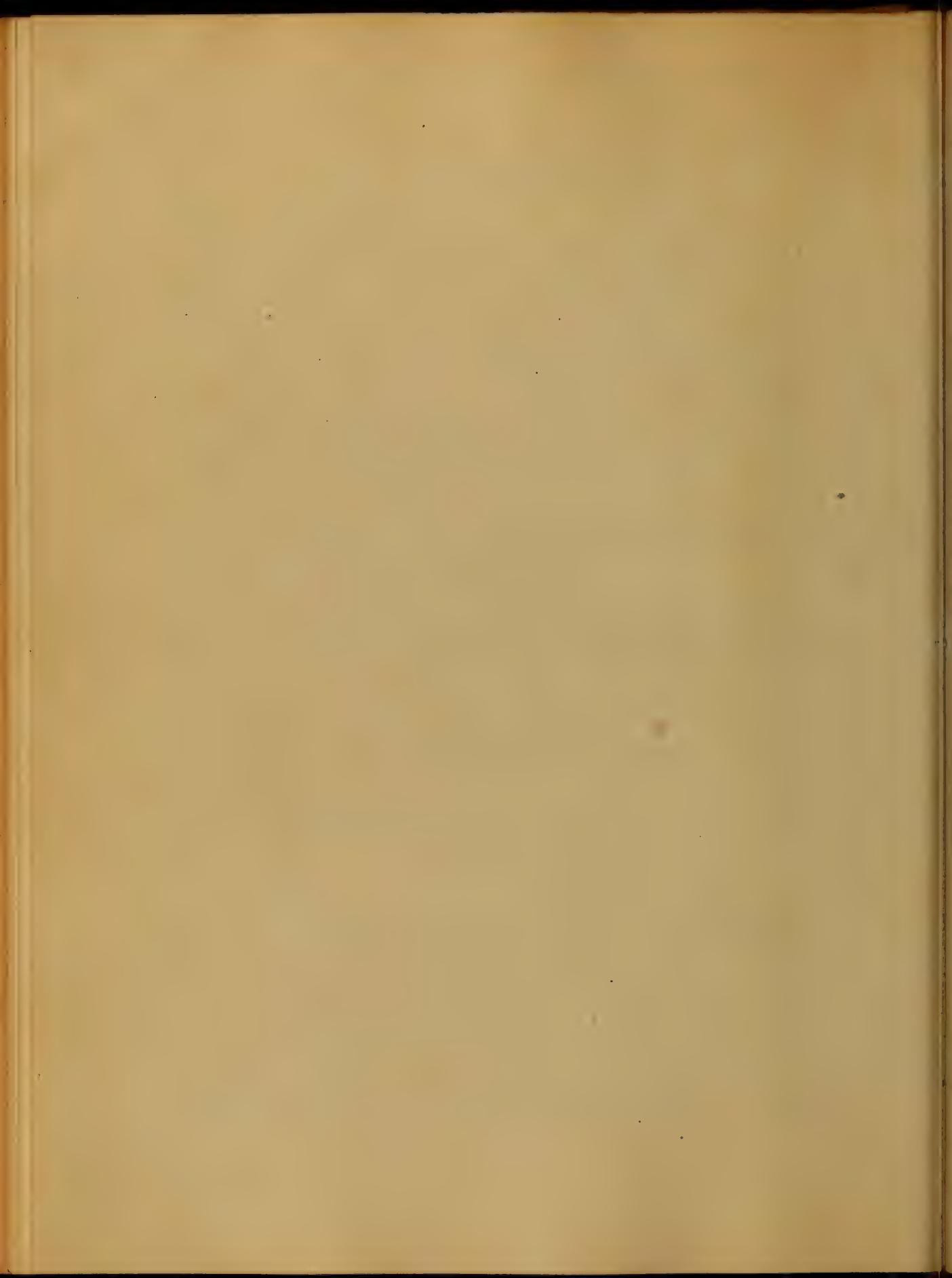




## Syphilis.

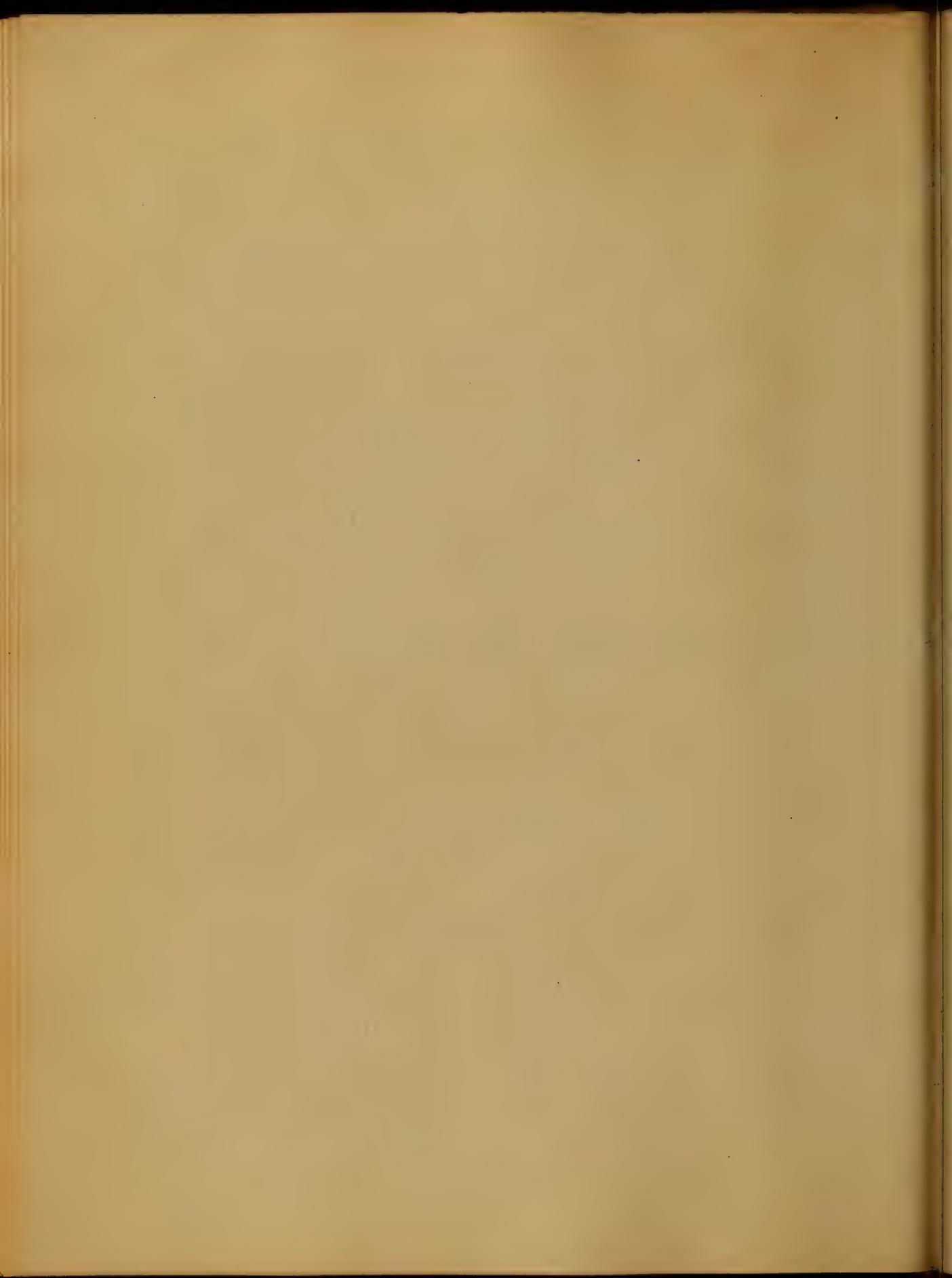
Man, as he came from the hand of his Maker, was possessed of a perfect mind and body; but when he transgressed those laws which were instituted for the government of his organism, he brought upon himself disease and death; and predominant among these ailments to which the human frame is heir, is that which forms the subject of this dissertation - Syphilis.

The term syphilis is applied indiscriminately to two diseases, which, primary, are however, though very similar - yet in their

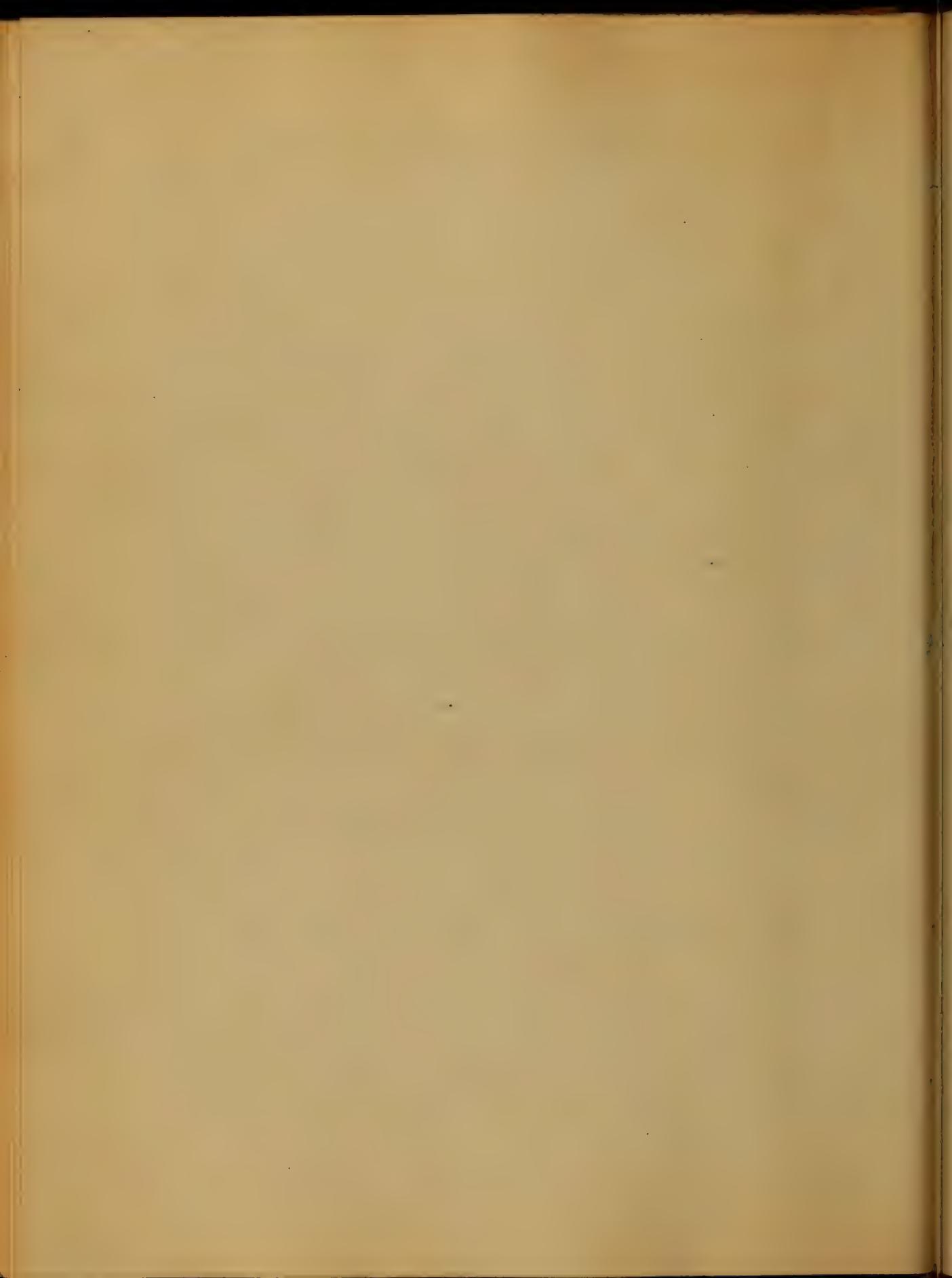


affectionate, are according with  
yours. The one is surely a real  
disease, while the other is far no  
more certain constitutional mani-  
festations, which account for the  
difference between them.

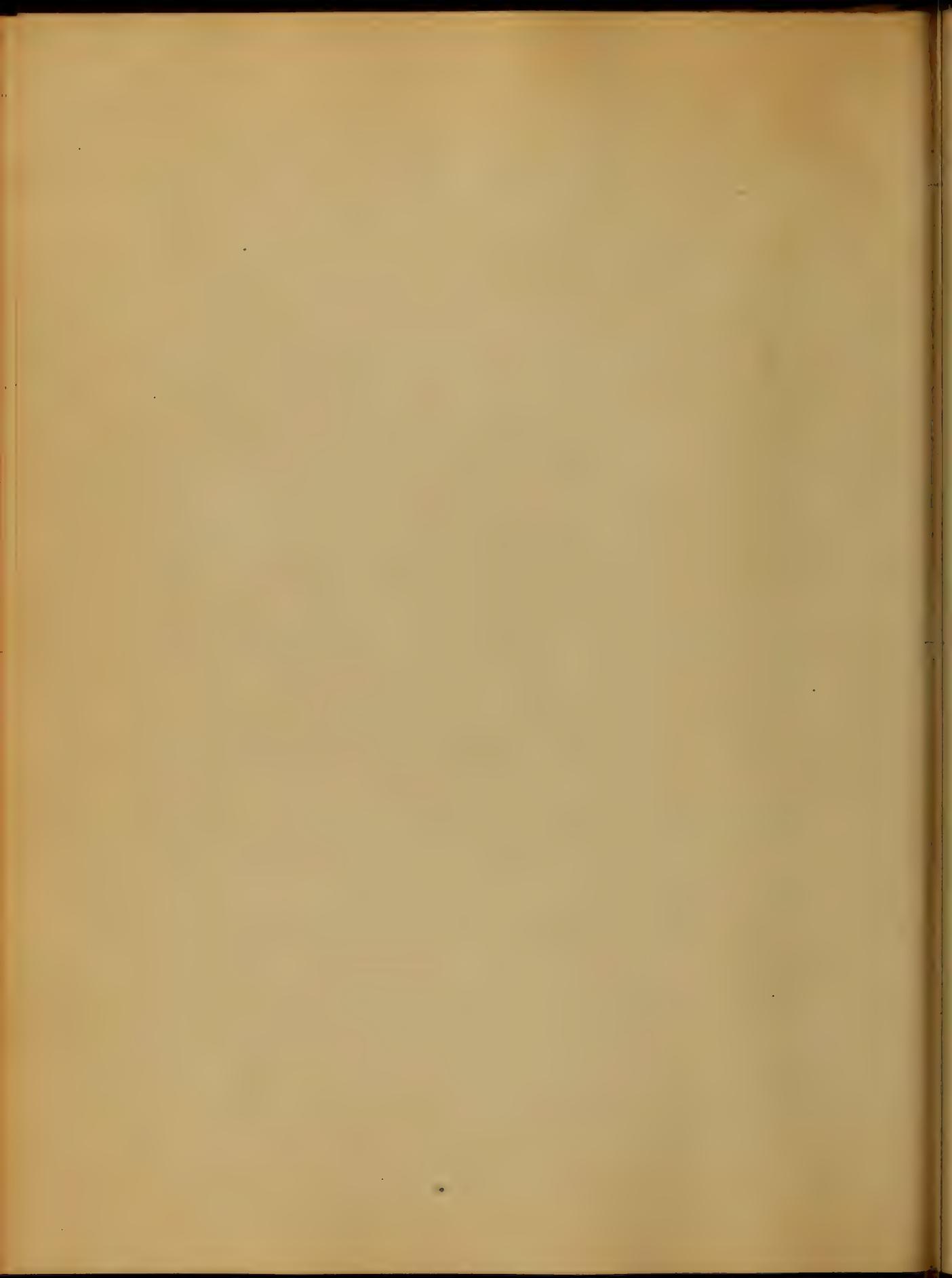
The origin of syphilis has been  
a subject of considerable discussion  
among the ancients, and various  
opinions have been professed and  
warmly contended as to its origi-  
nation. Whether that may be, it is  
quite evident from history, that  
the disease did not exist (or was  
in civilized countries) anterior to  
the latter end of the sixteenth  
century, when it was introduced



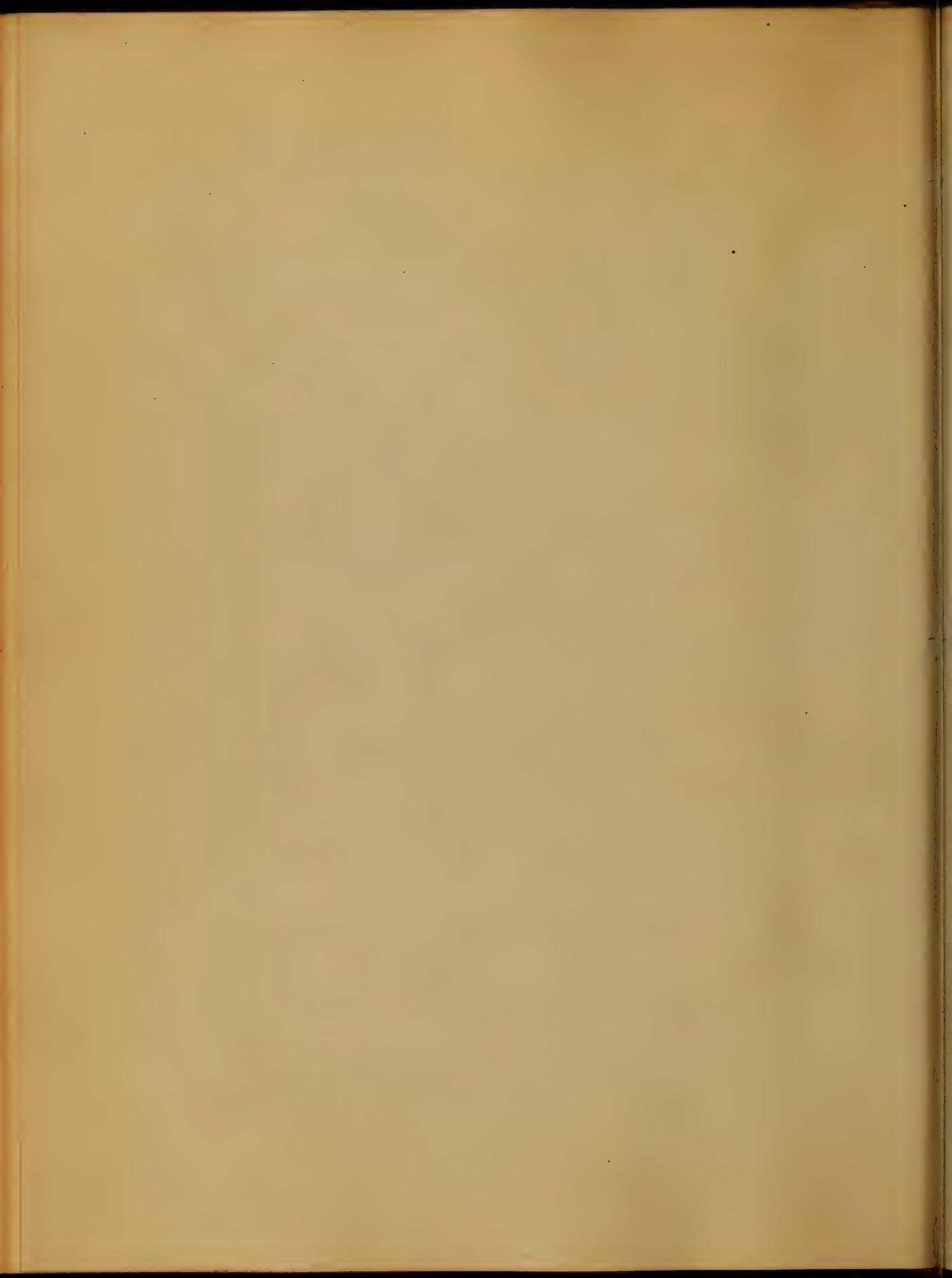
with considerable virulence among  
the inhabitants of Italy, and the  
French troops who were at that  
time invading that country; and  
idly spreading throughout Europe;  
filling all who witnessed its ap-  
pearance with terror and consternation.  
That it is an essential differ-  
ence &c. in the duration and  
effects of those several diseases, is  
certain; but we have as yet  
failed to find a criterion by which  
we may distinguish one from the other  
and into the subject has simply  
been raised by a question whose  
characters are known to have ex-  
isted from time immemorial, and  
which is yet far from being elucidated.



and the constitution have been on  
the side of the medical men, by which  
complaints of a few years. Of  
two-hundred-and-ninety-two cases  
of general syphilis collected from  
statistics by Burnstad, all were  
undoubtedly first called "syphilis"  
but twenty-one, ~~but~~ being so  
uncommon, and others the common  
syphilis all mixed up, it is very  
difficult to find the true syphilis.  
It is more than probable that only  
one in twenty, or less, of the cases  
and is all the rest either  
cerebral. Mr. Bassermann notes  
Burnstad, says, as follows:  
By time, he says, we may tell

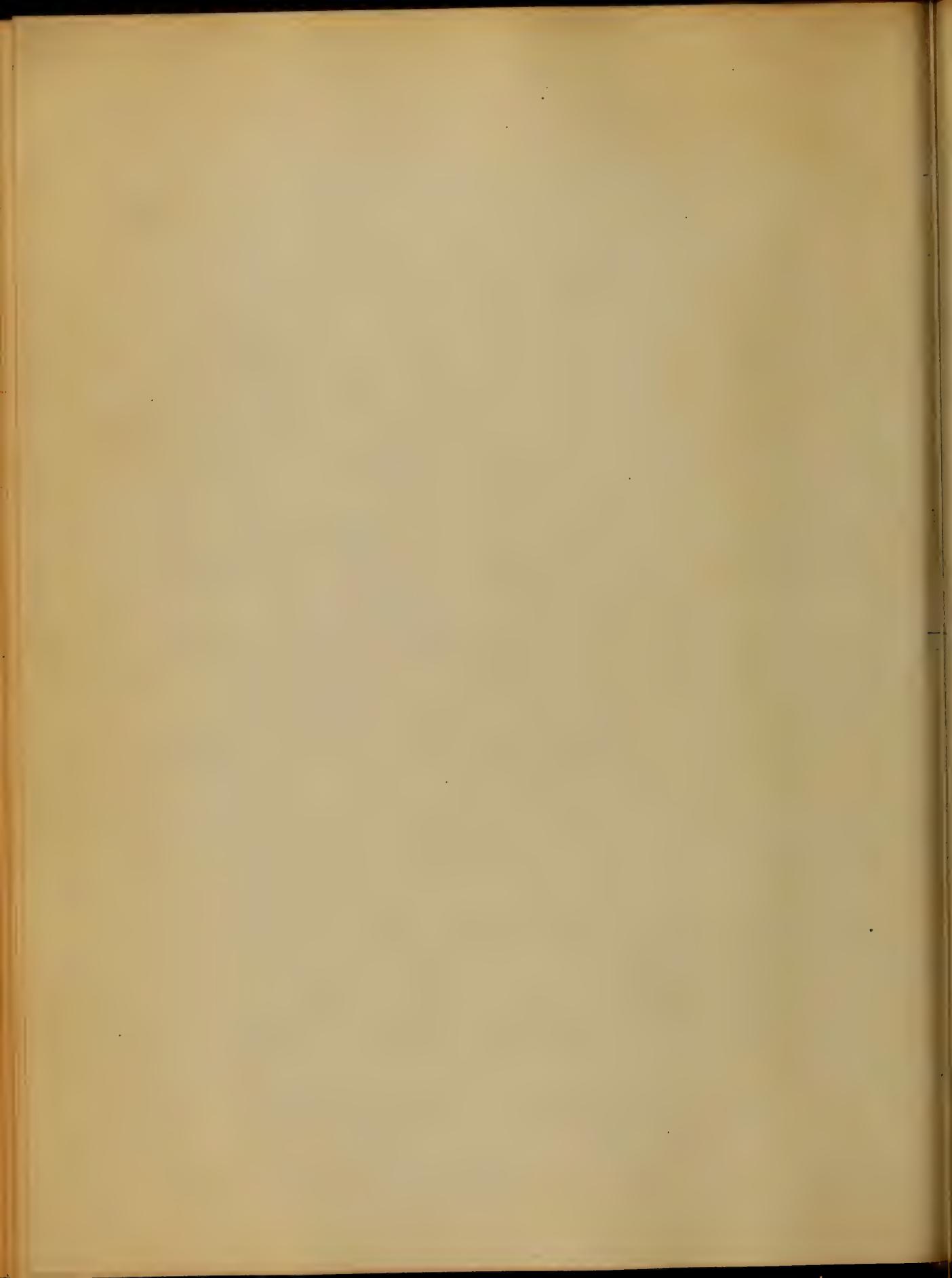


duality of poisons, that it fails it down as a law, that whenever a man has a disease and takes  
a small quantity of any medicine  
the disease is first of all due  
to the fact that the poison  
from which the contagion came  
had a character which was not  
sufficiently counteracted by the constitution  
so that the matter from which was  
of the opinion that there were no  
difference in the kinds of matter,  
and no variation can arise in  
the disease from the matter's re-  
ceiving different degrees of change.  
But the variations of the sym-

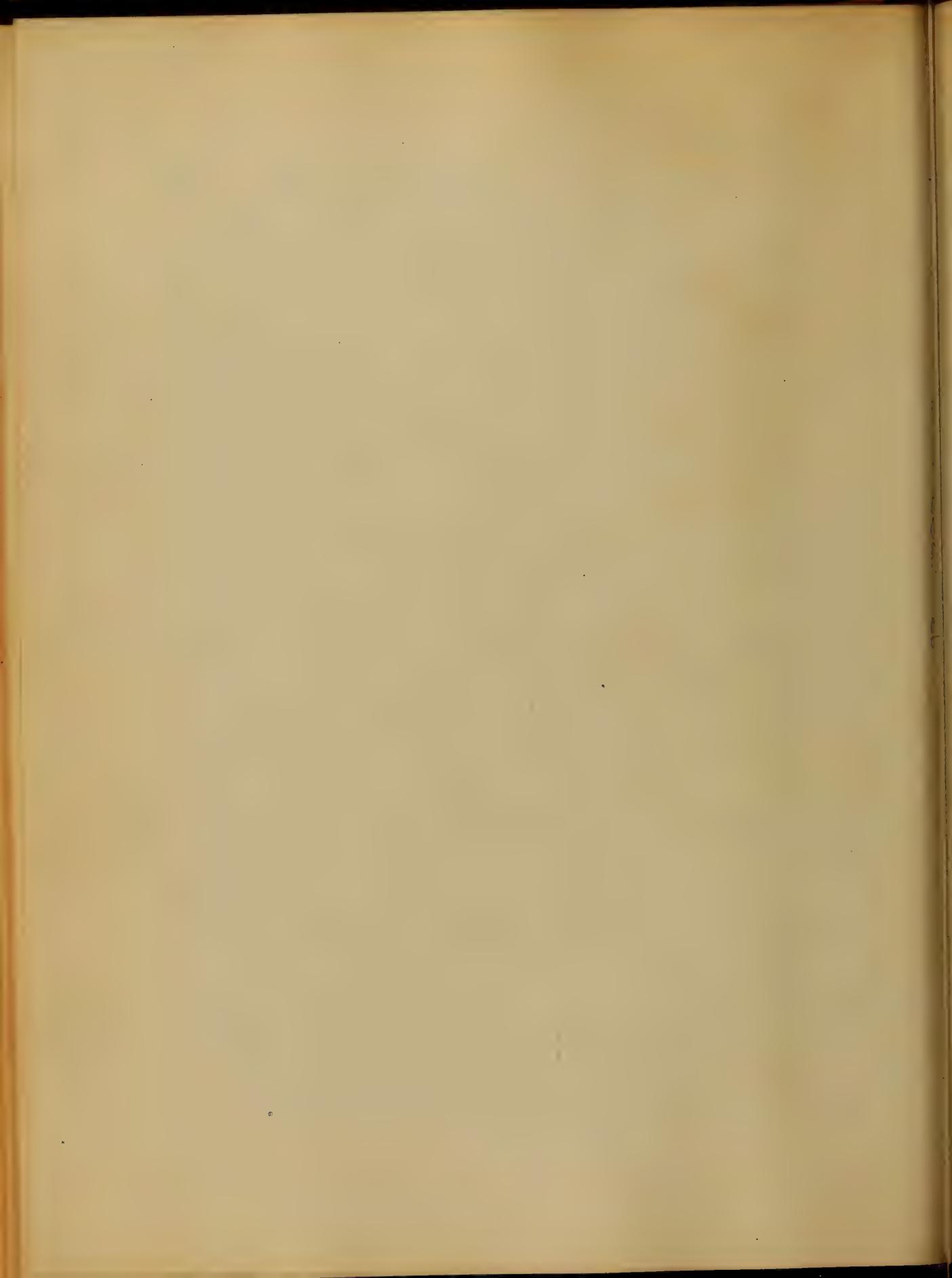


the "influenza," and to  
yourself the constitution,  
and I wish to know what is  
the time?" It is always  
to remark further, when the first  
as the duality of, who is now  
only admitted at the present day.

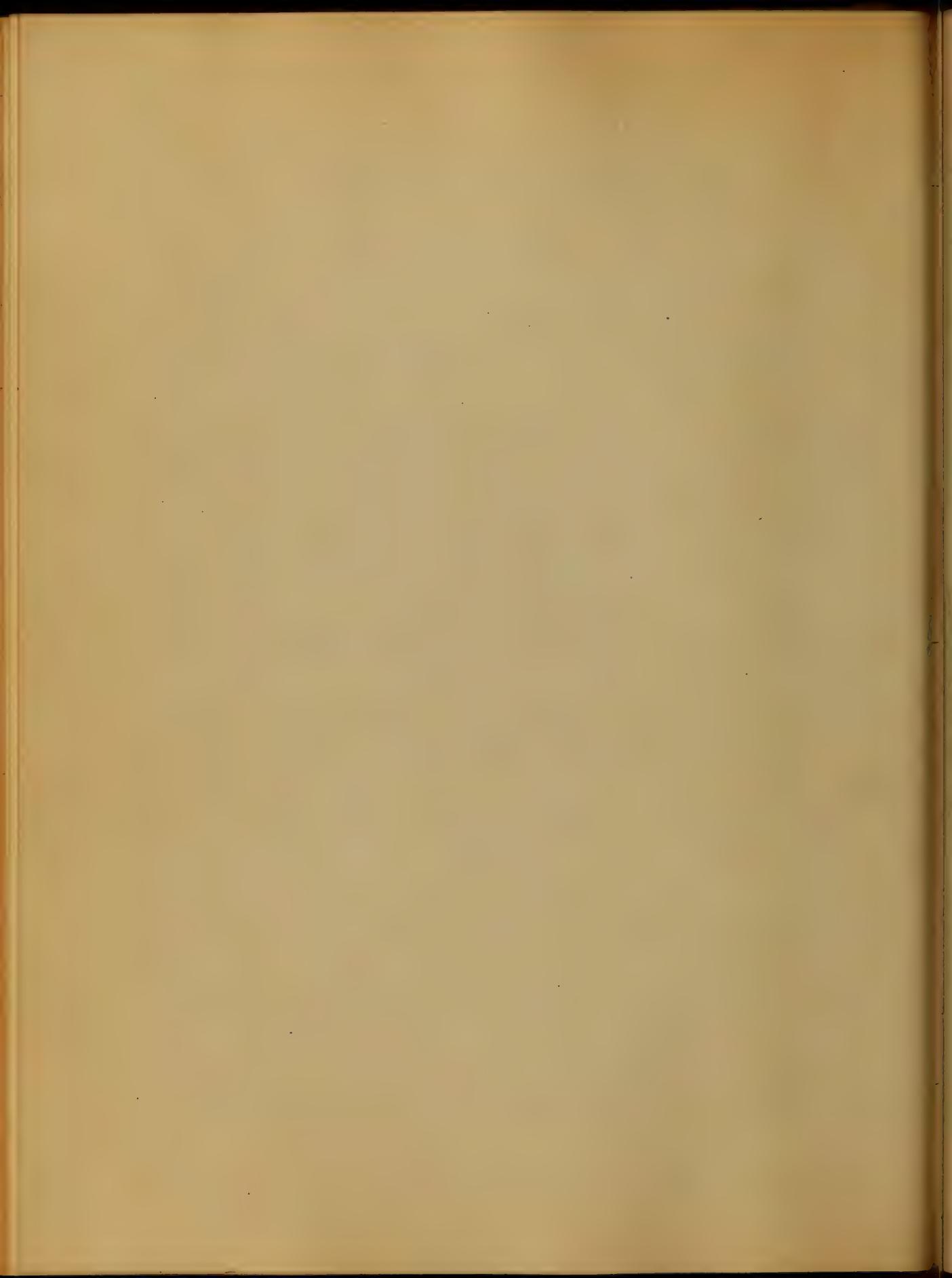
"A chance is the voluntary ca-  
sion of a man's dying, which occurs  
at the point at which the di-  
bus enters the system, and sepa-  
rated from the general mani-  
festations of disease, die of in-  
fection, &c., &c., &c., or even  
time?" It is a fact, that  
the body of man, and especially  
of a young man, is the most suscep-



ject. We shall see next, in what manner  
the name of Chancery has been ap-  
plied to it, and to which the name of  
the system of law which it  
represents, is applied. This is still more of  
which is not competent to af-  
fect the system at large, and  
affords no protection for entire  
incorruption; &c. This form of re-  
gulation, from its resemblance  
to chancery, the term chancery  
has been applied. But as this  
~~form~~ <sup>is</sup> not entirely peculiar,  
embraced by former systems,  
it will be excluded from con-  
sideration in this essay.



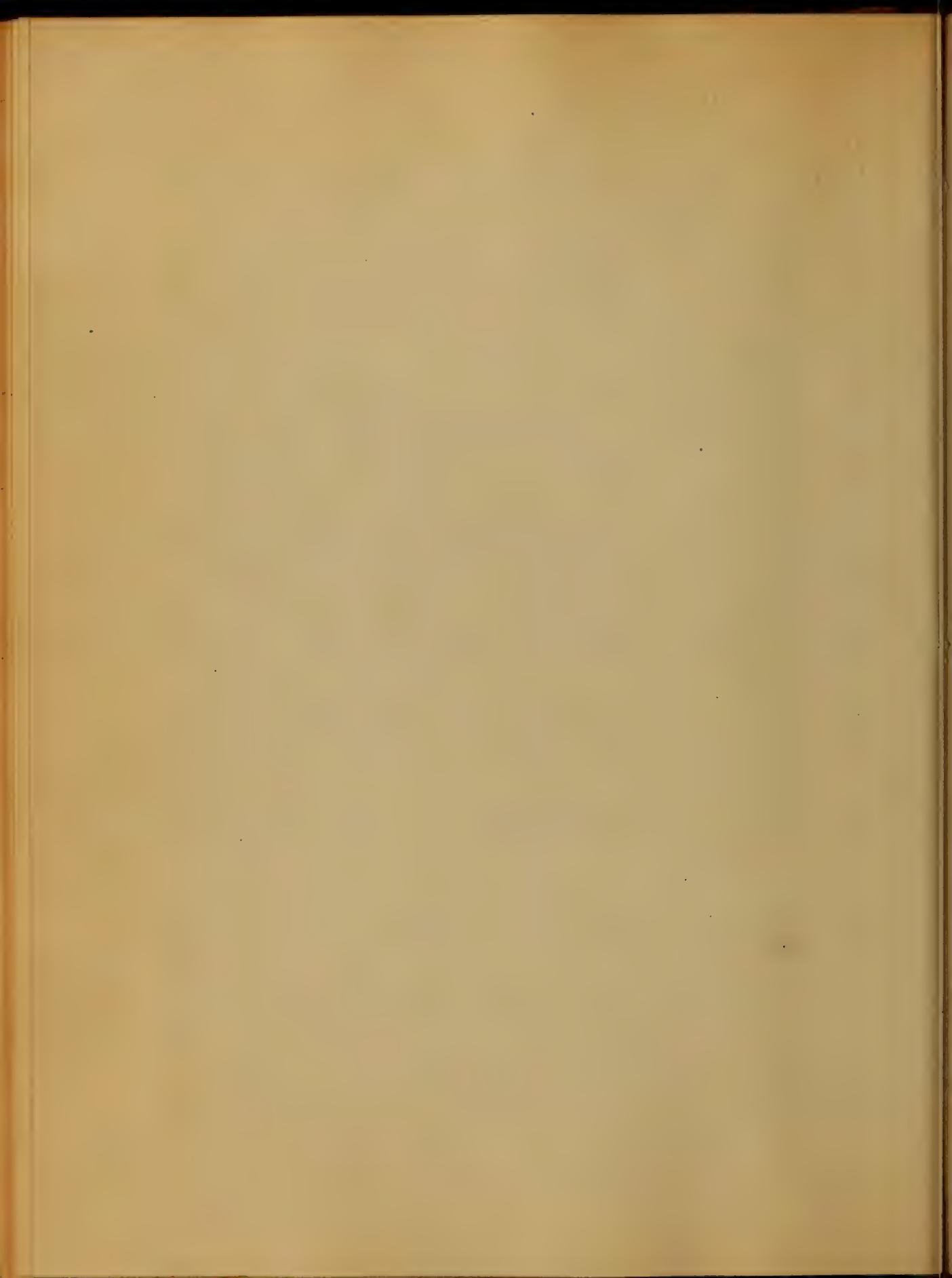
A true local affection does  
not always find its seat by the  
circulation of exhalation, nor  
into any part of the body. By  
far the most common seat of  
these primary sores is upon the  
genital. Because most individuals  
are not subject to a fever. They  
may occur upon any part where  
the virus comes in contact with  
an abraded surface; as the arms,  
lips, tongue, nose, or extremities.  
These specific marks of a sore  
I don't mean to be characteristic  
of the disease. They happen  
occasionally in diseases  
of the skin, & it is not



appearance of this affection and  
particularly by their indented  
bases. The character of a chan-  
cre is often wanting, and in the  
case of a non-specific sore it even  
seldom affords any distinct indica-  
tions. Autoinoculation is the  
most certain means of diagno-  
sis, but even this sometimes fails.  
As regards the treatment of chan-  
cre, diagnosis is not of great con-  
sequence; and respecting prophy-  
sis it is of the greatest importance.  
The usual course of a chancre  
may be known statio. time, in  
about fourteen days (that being  
the average period of incubation).

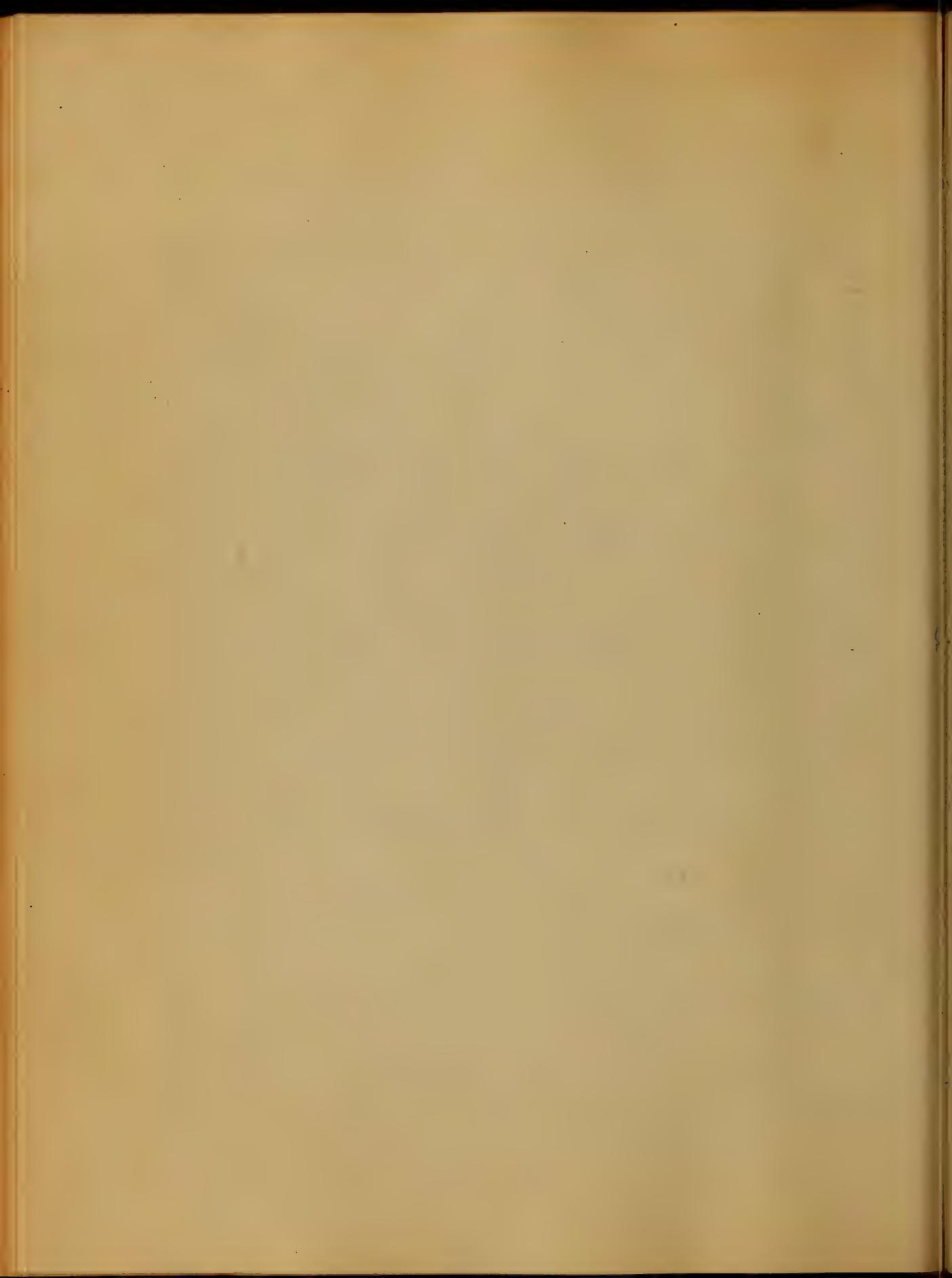


After an infection either a physician or a surgeon, not involving the whole thickness of the skin, which may lead either to a suppuration, or the suppuration given it may cover upon its surface and form a crust, which after a few days falls off, leaving a simple sore at all other portion involves the whole thickness of the skin presenting the following cases mentioned above as usually as generally known by the practitioner, scarring edges and granulations often to the extent of the entire thickness of the skin.



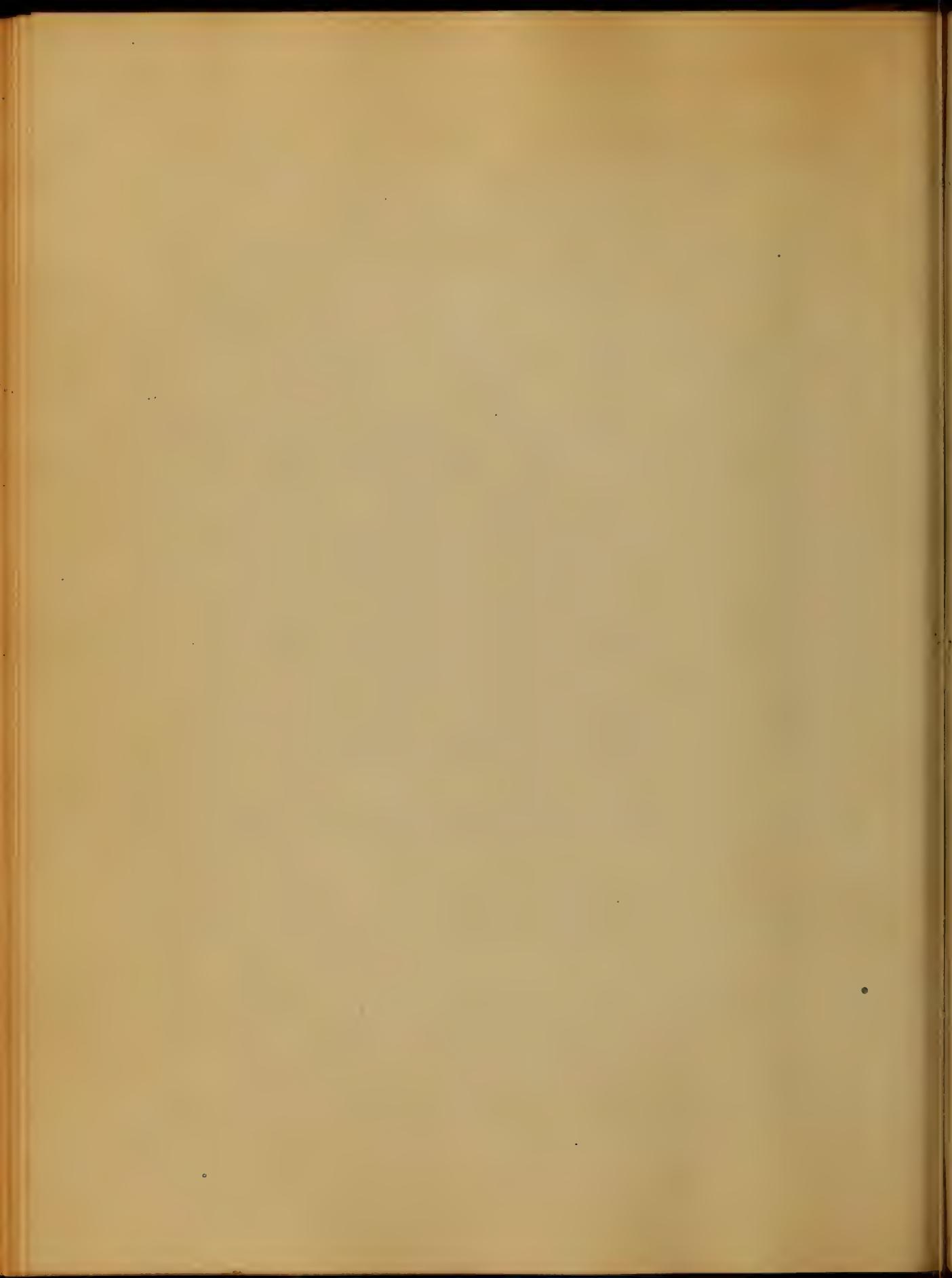
for a greater or less period. the ulcer frequently occurs without pain - but sometimes being greatly aggravated by injurious stimulation.

The treatment of ulcers is surely local; all other  
ing enjoined upon the patient;  
and abstaining of the parts is  
strictly to be maintained for the  
ulcer sometimes ends without  
other attention. It is often necessary  
however to use medicated ointments  
for their disinfectant, or stimula-  
ting properties, or to form solu-  
tions of causticized sulphur, dilute  
nitric acid, or nitreum or



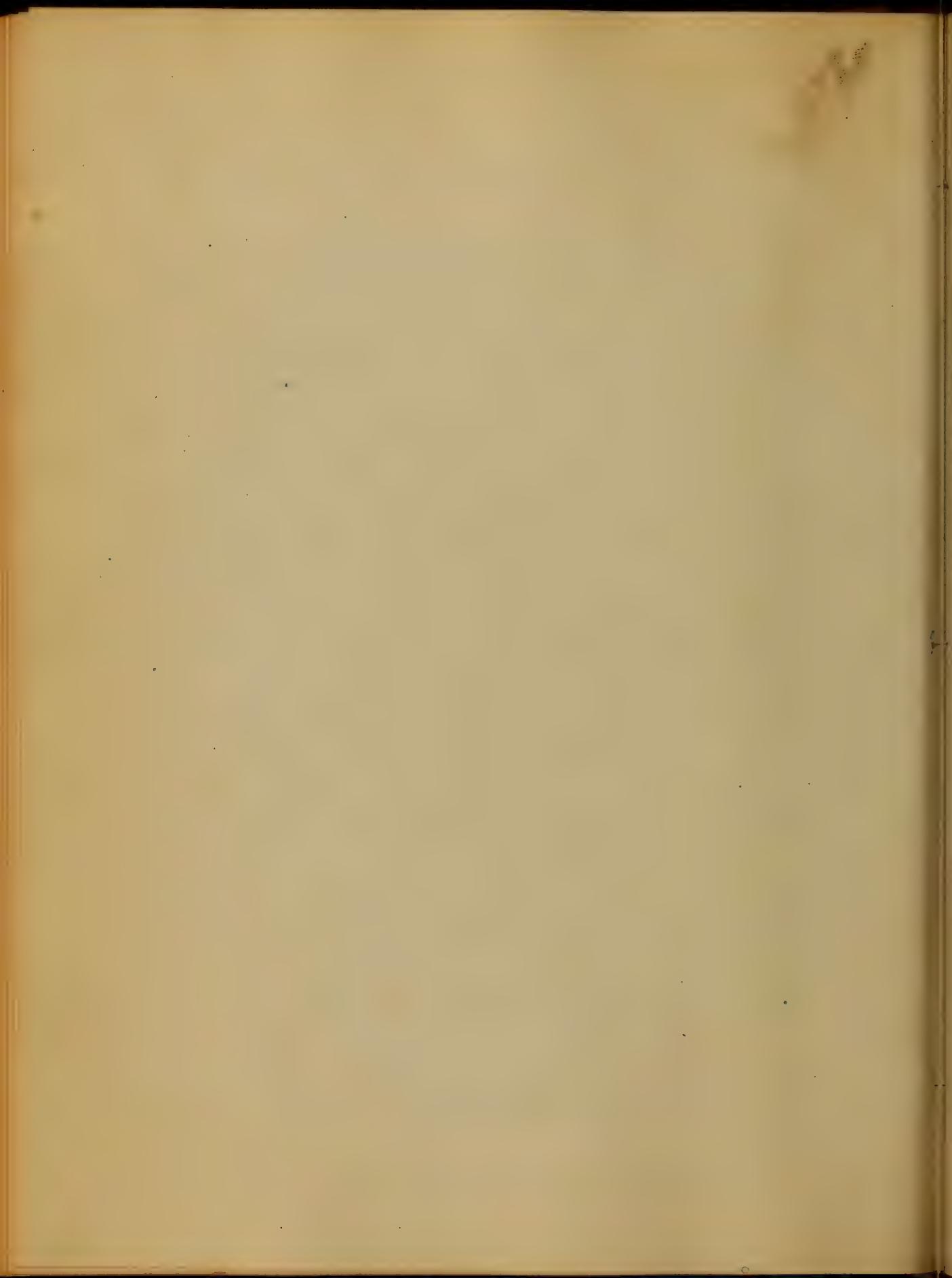
Spasmodic colic may, in general, be regarded as to be treated as other nervous stimulation or counteraction to the nervous system. The irritations which have a specific effect, & the old form of destruction & regeneration, will be seen to, though constitutional manifestations are now abandoned as most frequent, as the disease becomes general, so are the convulsions.

As a mere suffocating state is not a concomitant of colic, though it is not always absent. Its presence depends upon the amount of irritation at the seat of the sore; this is increased

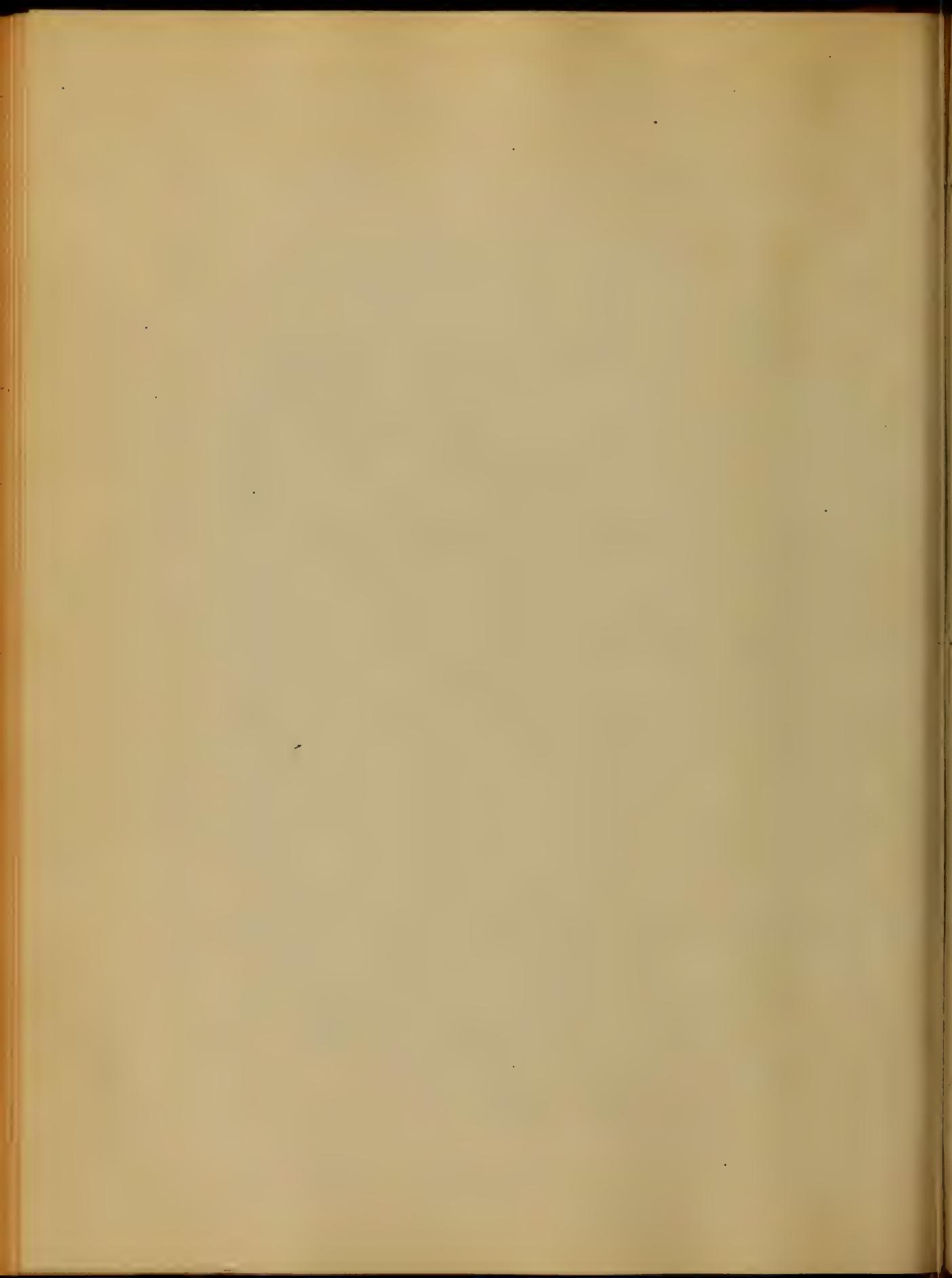


or less induration of the mucous  
gastro-intestinal membrane  
is in the course of its progress  
its leading to that which gives  
indication in the mind of man  
as a physician would in determining  
the character of the  
disease. There is no special indica-  
tion in the treatment of tubo-  
it is to be conducted upon  
eral principles.

Syphilis as it affects the sys-  
tem at large is so varied in its  
manifestations that it would  
be difficult to enter minutely  
into its consideration without  
Peer like this. General syphilis

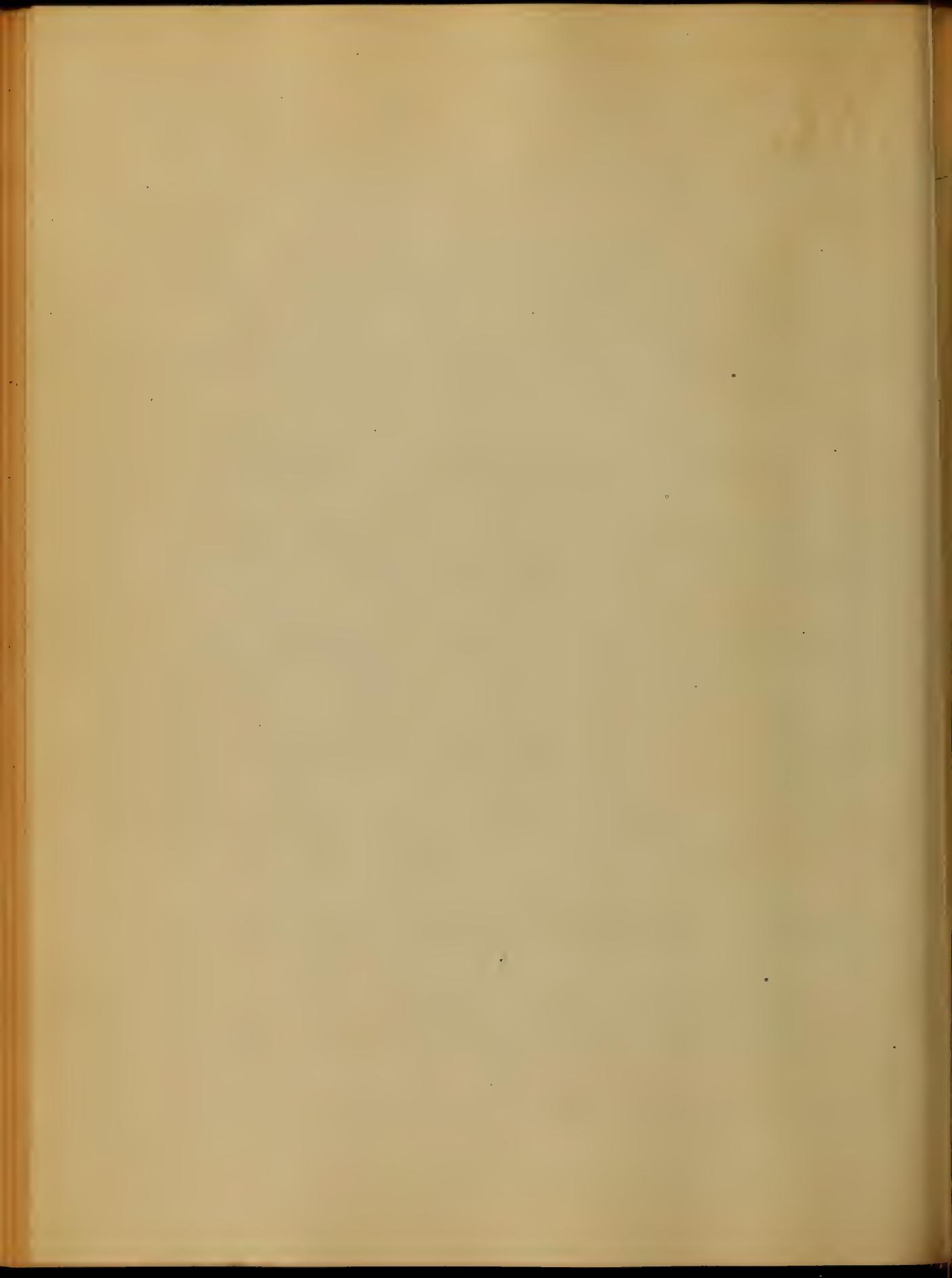


now been divided into secondary and  
tertiary. ~~Primary symptoms~~ <sup>the first</sup>  
The secondary symptoms are refe-  
rent to the ~~body~~ <sup>skin</sup> and mucous  
membranes, and of some parts  
of the body. ~~such as the skin~~  
Such as, contact with the  
ficial membranes, and the mu-  
cous membranes and organs, also  
some peculiar irritations which  
lead to the secondary symptoms.  
Secondary symptoms are  
manifestation of the disease  
in various parts of the body, es-  
pecially the mouth, etc. Tertiary  
symptoms consist of such  
changes which take place in  
the internal organs and mem-  
branes.

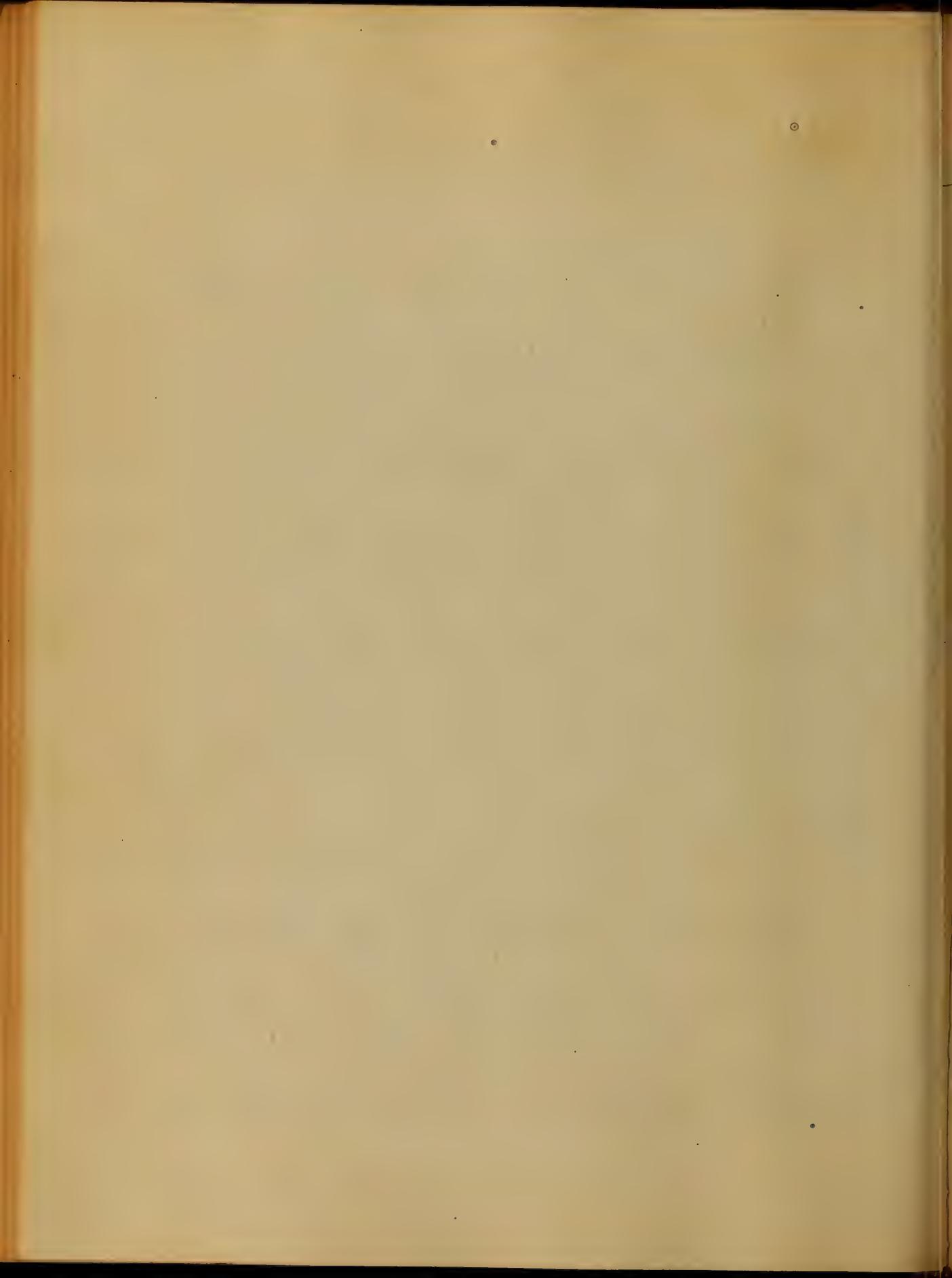


cellular tissue (mucous membranes, etc., epithelial secretions), in the skin and osseous tissues (herpustitis, osteitis caries, etc.), and in the deeper organs."

The period of latency between the appearance of the chancre and constitutional manifestations, varies from three weeks to six months. The average, would be, between thirty and fifty-five days, when "in most instances, either diarrhoeal accompa-  
nied by general malaise, or expan-  
sion of the mucocutaneous organs,  
aere capitis, or an eruction upon  
the abdomen or arms." heralds the  
beginning of that train of pro-

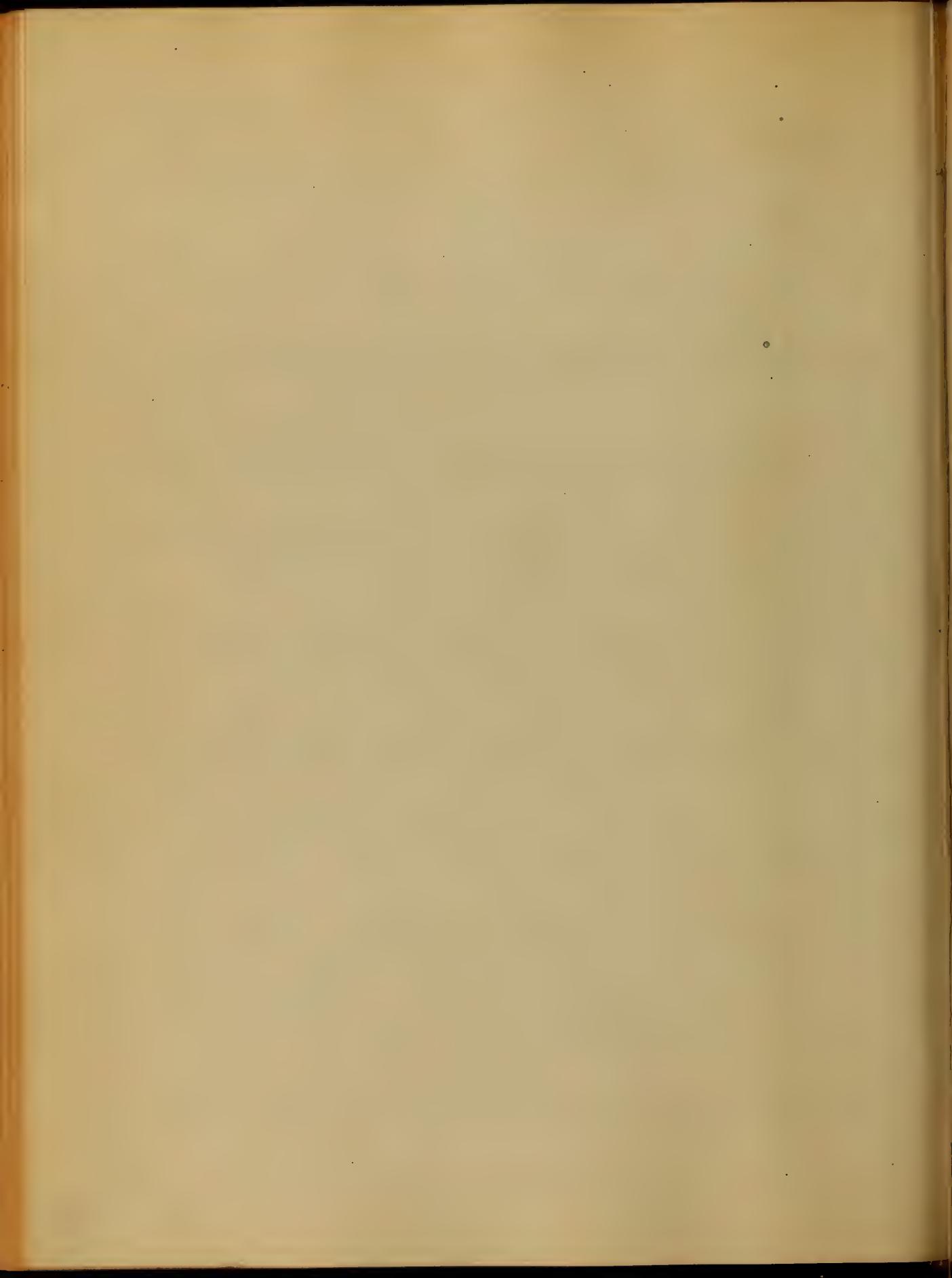


moments so incident of exhalation.  
But these varied phenomena  
must for force be regarded by, as their  
consideration would be incompatible  
with the thought to which it is su-  
itable to restrict this thesis. It may  
be well to mention in passing, that  
these secondary lesions assume all  
the varied forms of skin afflictions  
with diseases of its appendages; also  
diseases of the mucous membranes,  
eyes, and various other tissues. Syph-  
ilodermata may be distinguished from  
nonspecific eruptions by the history  
of the case, regular cases the copper  
or lead color being very constant in  
specific eruptions - by the absence of

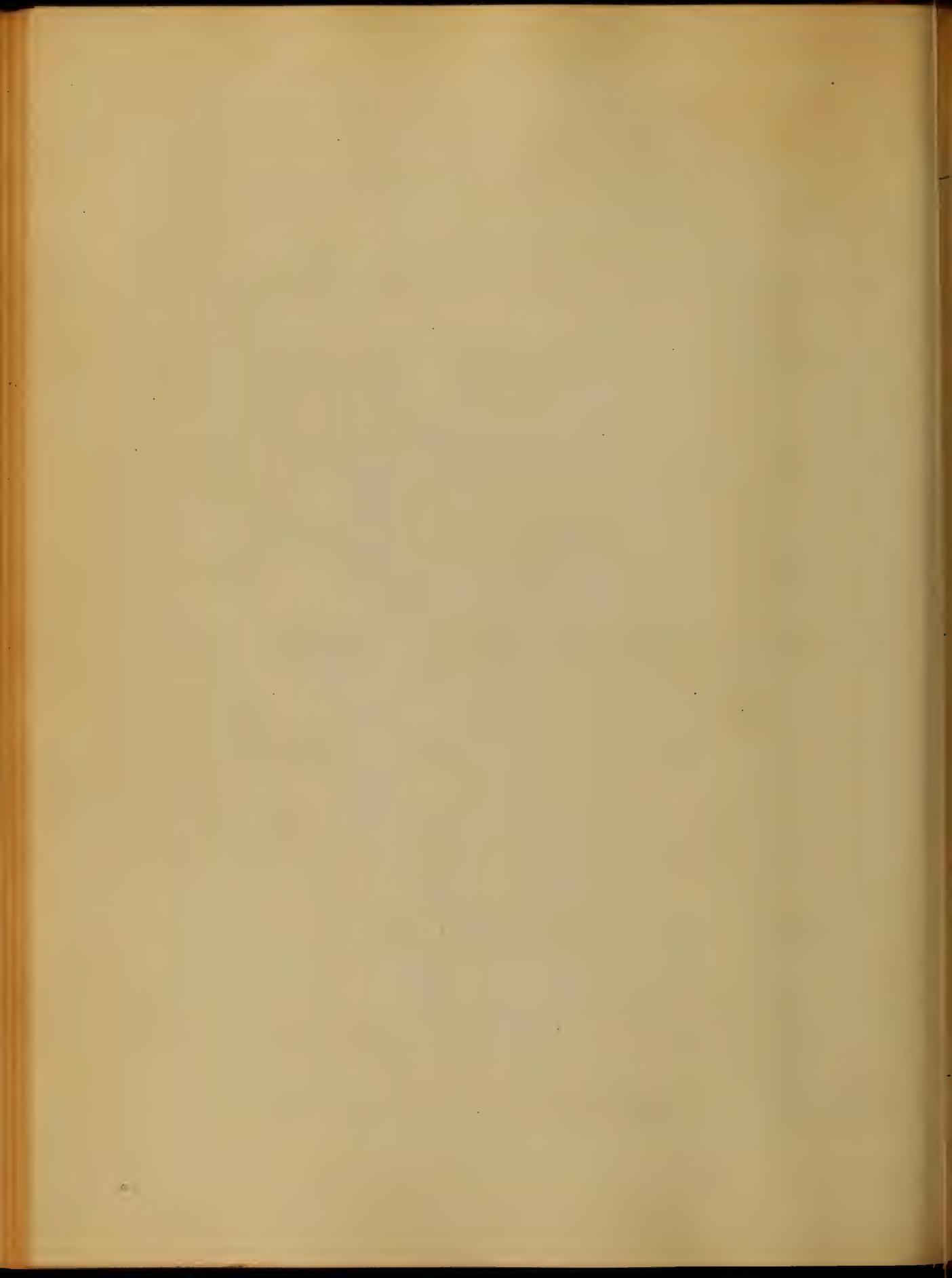


itching and by the circular form so constant in syphilitic eruptions.

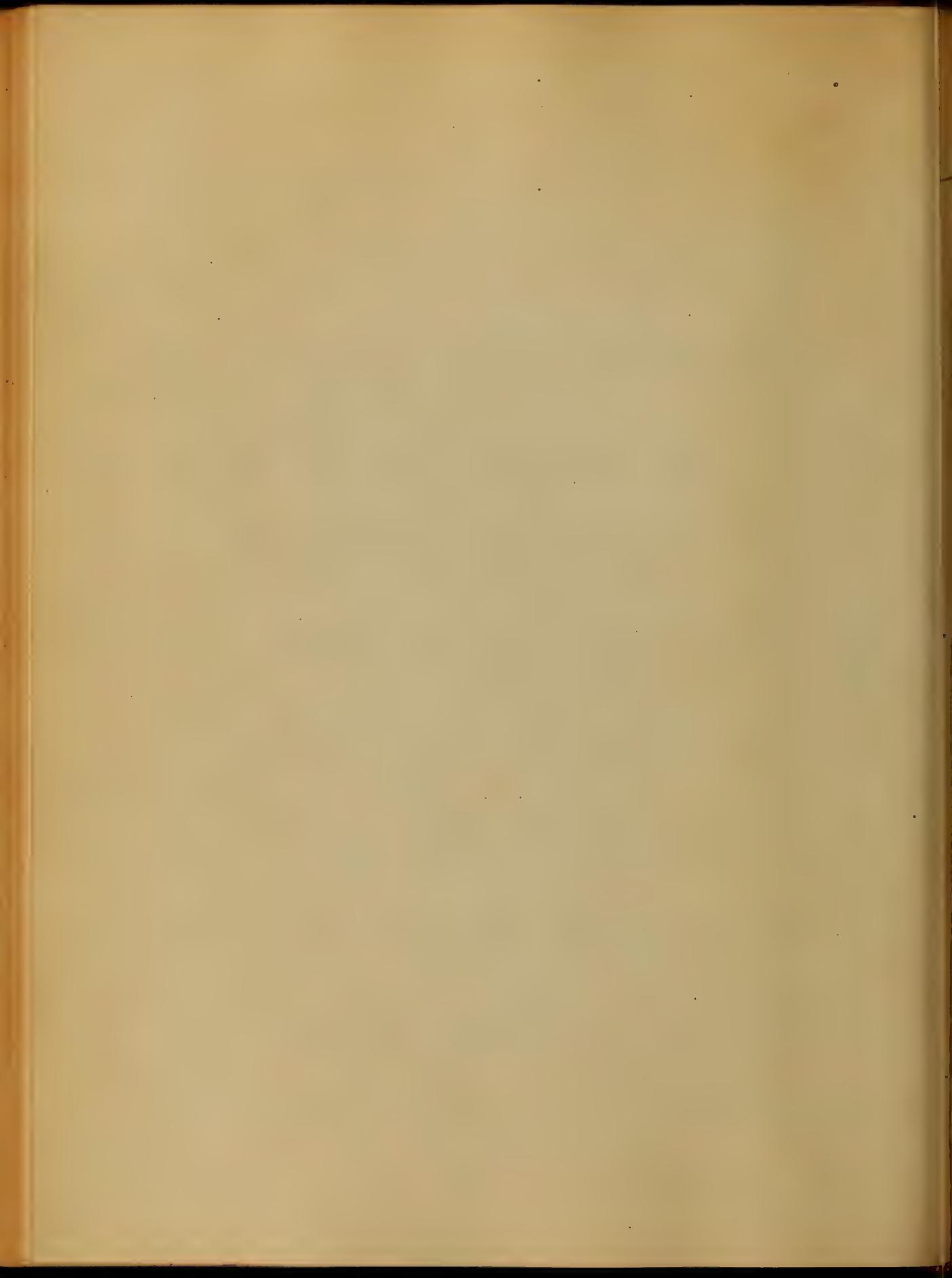
In speaking of the treatment of chancre, nothing was said concerning constitutional medication, as it was deemed best to defer it until the treatment of general syphilis was under consideration; which we shall now receive attention. Formerly, it was the custom as soon as a patient with a chancre never presented himself for treatment immediately to begin feeding him with mercury, which was continued until profuse titation was induced and in many instances with most disastrous effect;



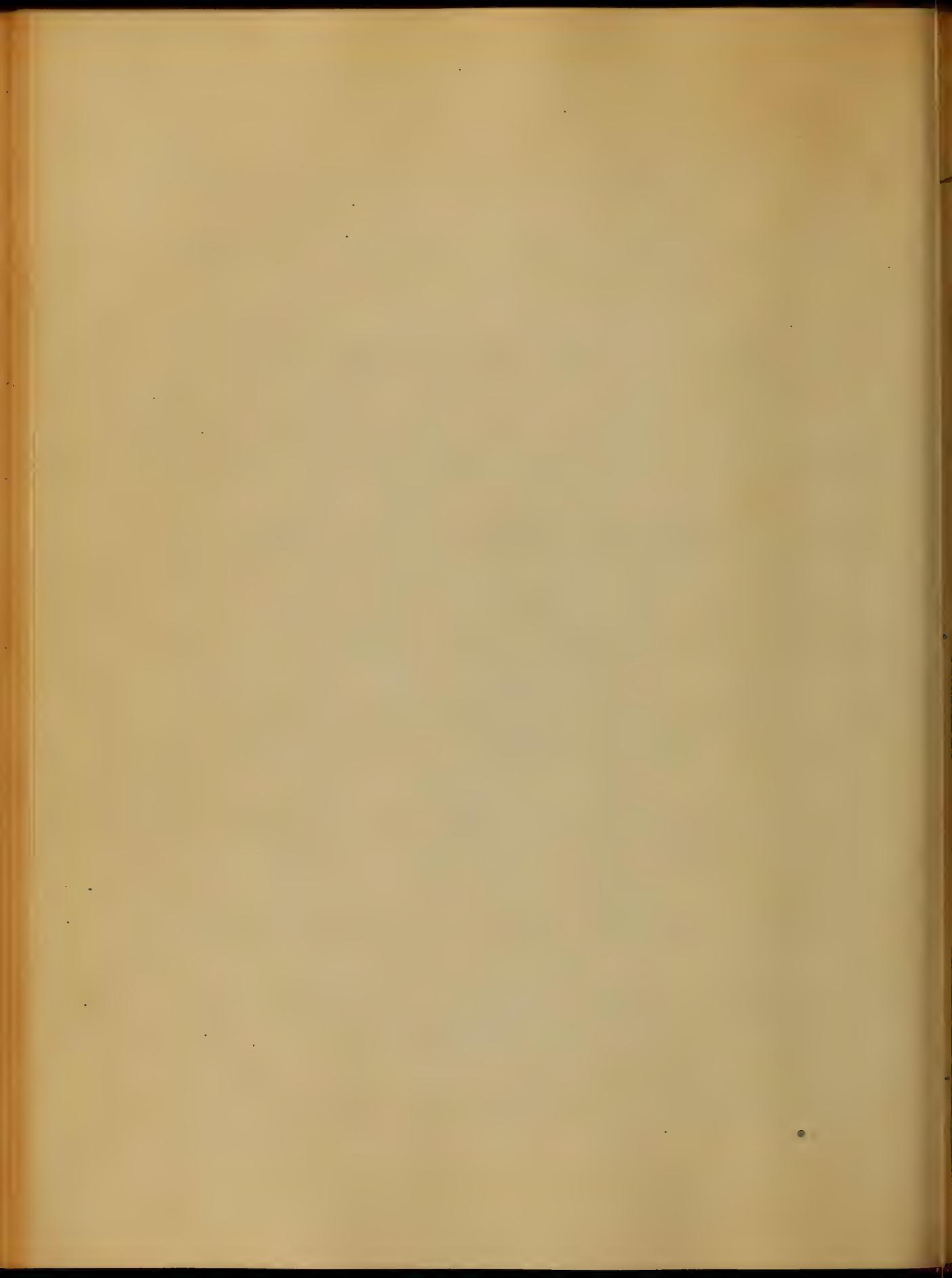
but as science has advanced this  
wholesale mercurialization has given  
place to more rational treatment;  
and even those who most warmly  
advocate its use do not carry it  
beyond a slight fuming of the gums.  
The use of mercury in primary  
syphilis is to be deprecated - and  
for these reasons: first - because mer-  
cury as an agent invades the  
systems; and since some vigorous  
and robust subjects have endur-  
ed bad syphilis and yet no consti-  
tutional manifestations, it would  
be better to improve the nutrition  
of the whole organism, that the con-  
stitution may be better able to re-



sist the invasions of the disease. Therefore tonics, good food and good hygienic circumstances with avoidance of alcohol and all depressing agencies, would be better treatment. Second - from its continued use the system becomes accustomed to mercury; when in a great measure it loses its beneficial effects; it is therefore better to defer the employment of this agent until nature may be best assisted, and that is when the system endeavors to throw off the poison, which is manifested upon the surface. The argument that "some chance is still not real without the employment of mercury," is not valid in established

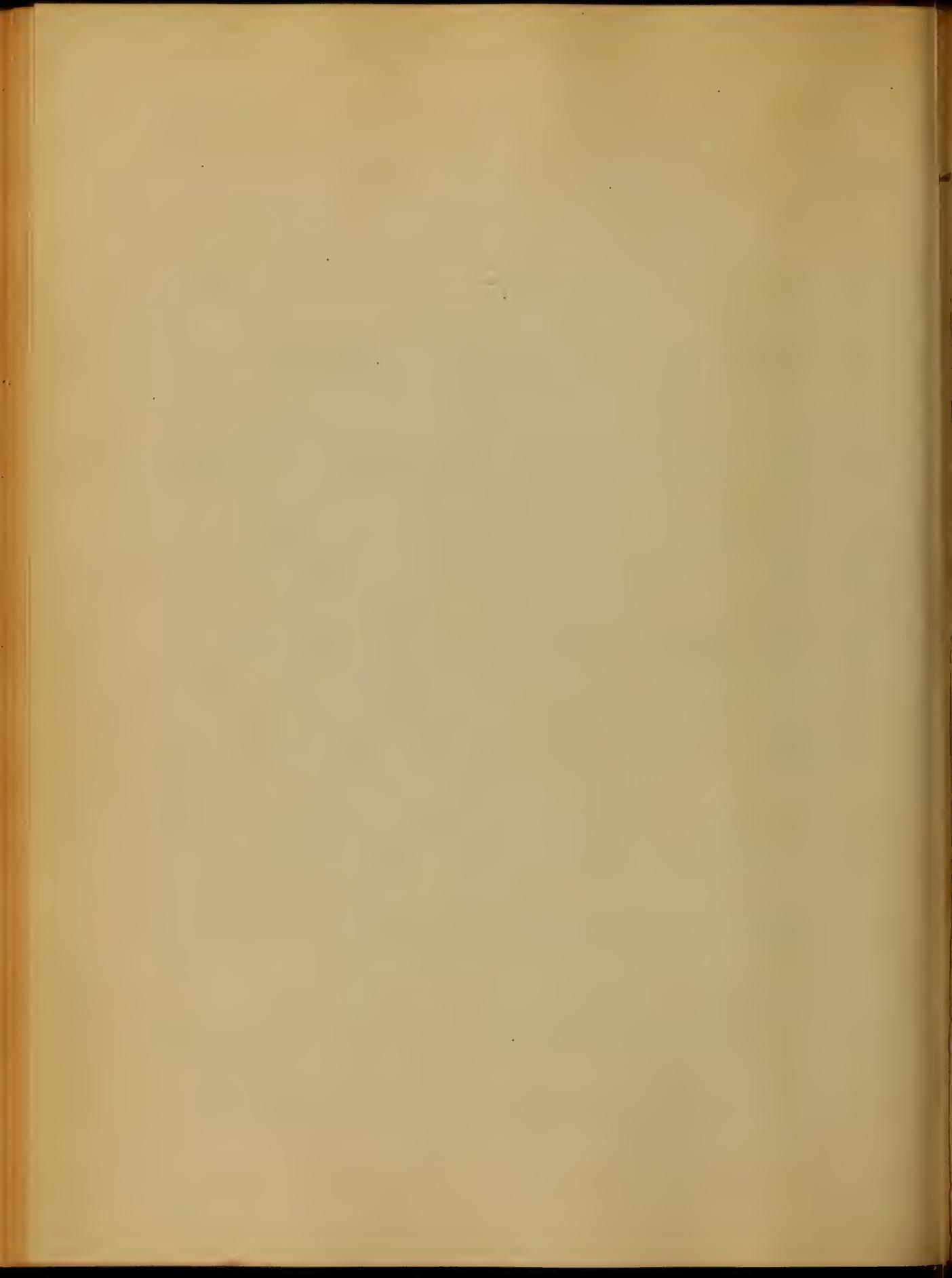


ing that it should always be used; since many chancres cicatrize without any treatment. It is not because these are chancres that they do not heal: but because of some peculiarity of habit. Though mercury would not be recommended in primary syphilis, it is an agent of great potency in secondary lesions, and may specially contraindicated should never be omitted: but salivation should be avoided, as all the medicinal effects of the drug may be obtained without overloading the system with it. The particular form of mercury to be employed can be ascertained only on trial: one preparation being well

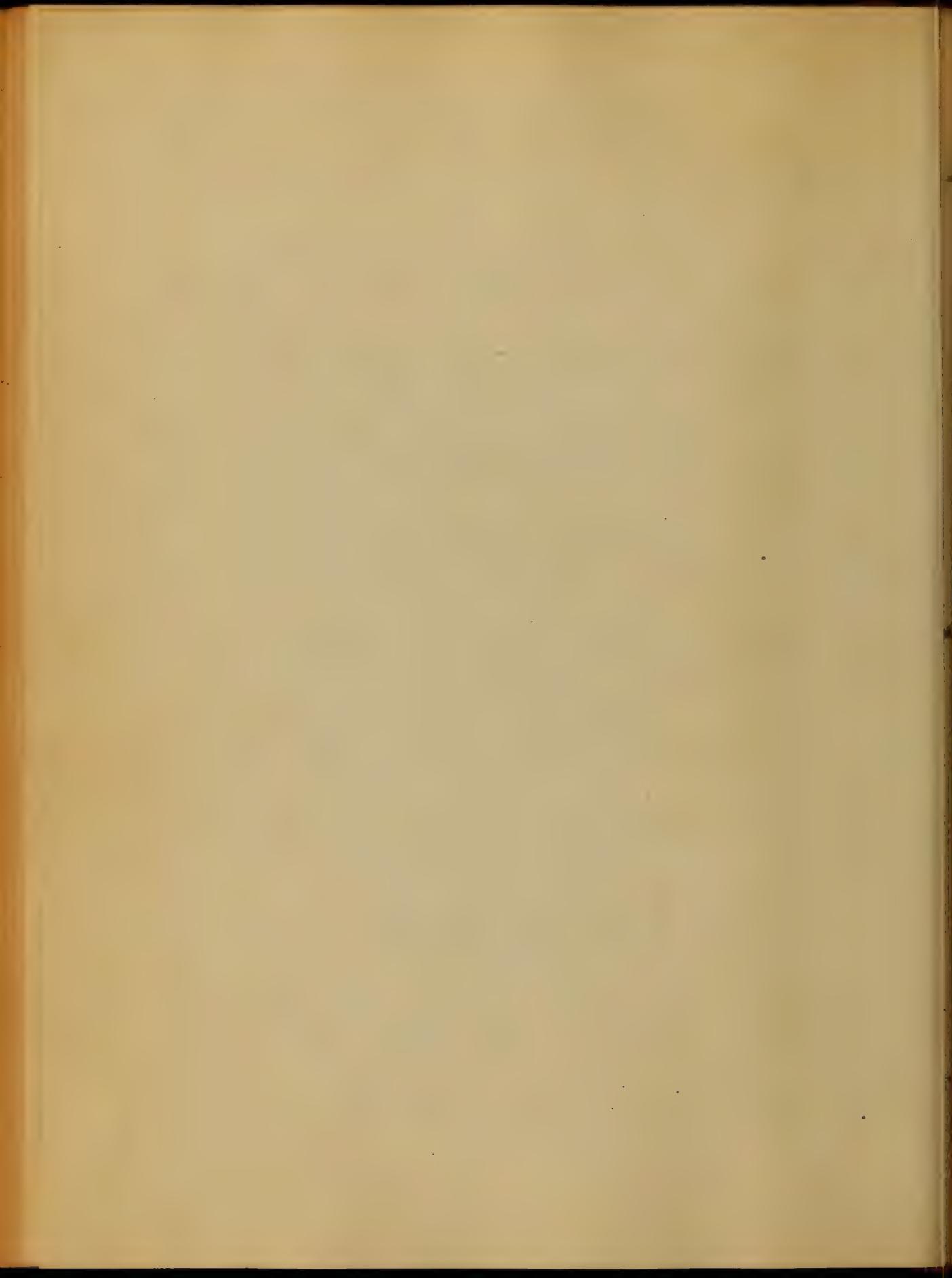


beneficial in some cases than in others, and sometimes it is found beneficial to combine several forms. Fumigations and injection with mercurials are sometimes resorted to with good results. The form and administration of the drug are to be left to the discretion of the practitioner. When mercurials could not be used, the mineral acids have been employed with benefit. Next to mercury, the iodine compounds rank; the iodide of potassium is the best. These, unfortunately however, are more beneficial in the tertiary stage of the disease.

Treatment by leeches can receive but a moment's consideration, and this



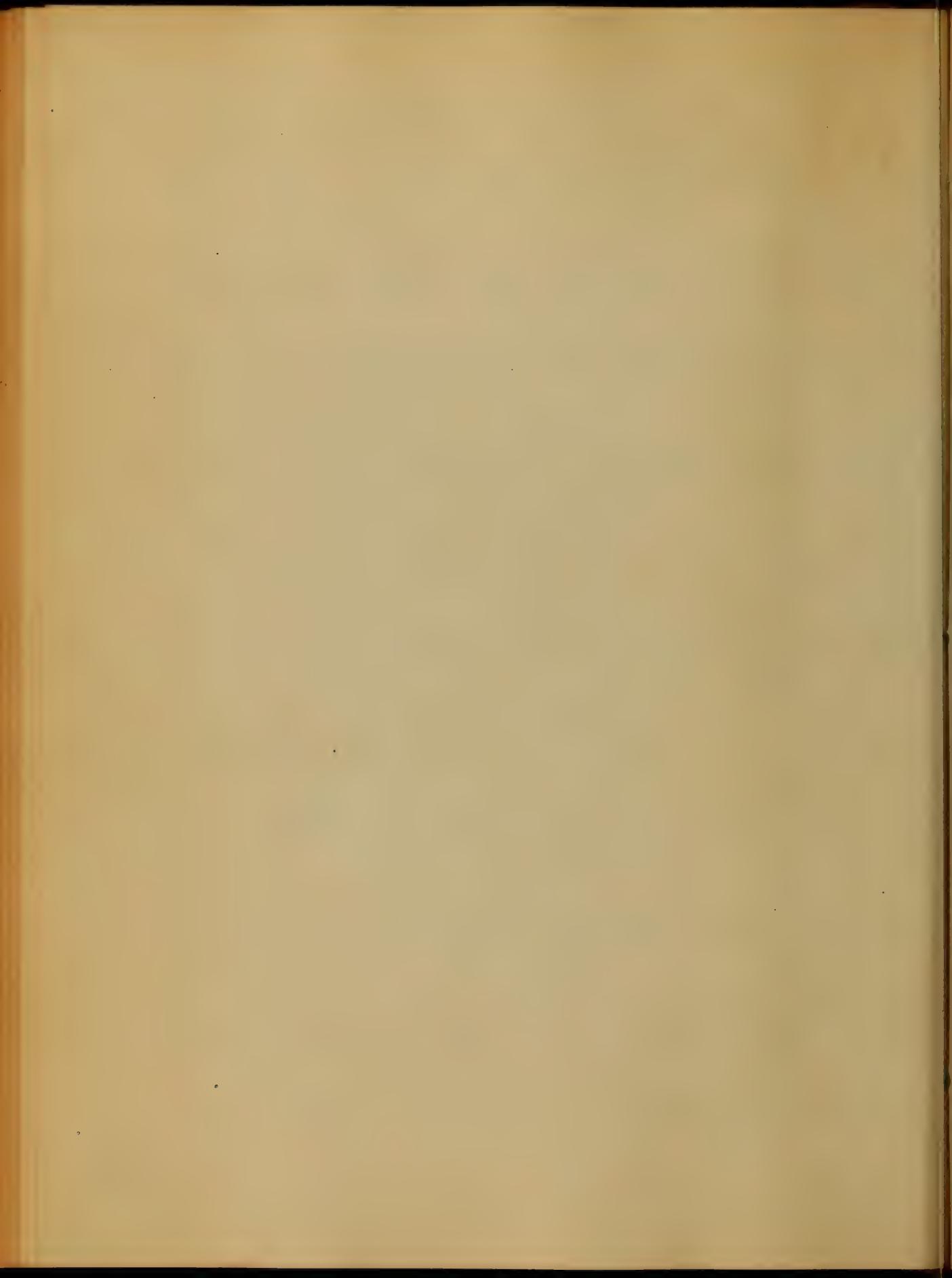
paper will be brought to a close. It  
is not always tertiary as respects  
time; for it sometimes occurs with-  
out being preceded by any secondary  
lesions. In the majority of cases however  
it is preceded by the secondary form.  
Fage and flinting, pains, & muscular  
ulceration, periosteal nodos and some-  
times caries of the bones are the condi-  
tions in tertiary syphilis. The bones  
of the cranium are most frequently  
caries. I have seen in the University  
Museum a beautiful specimen in  
which the skull, frontal bone was  
the most perfectly developed & ex-  
clusive caries, and the other bones of  
the skull were more or less diseased.



In the treatment of this condition, mercury is not an available remedy; the iodine compounds hold the first rank. Hygienic regulations are to be strictly enforced in this, as in all the forms of syphilis.

I have ventured, given you as brief and very imperfect resume of a disease which demands the careful attention of every physician not only because of the terrible manifestations in itself; but it transmits to succeeding generations some of the most distressing maladies to which man is liable.

In criticizing this paper I must beg you to bear in mind

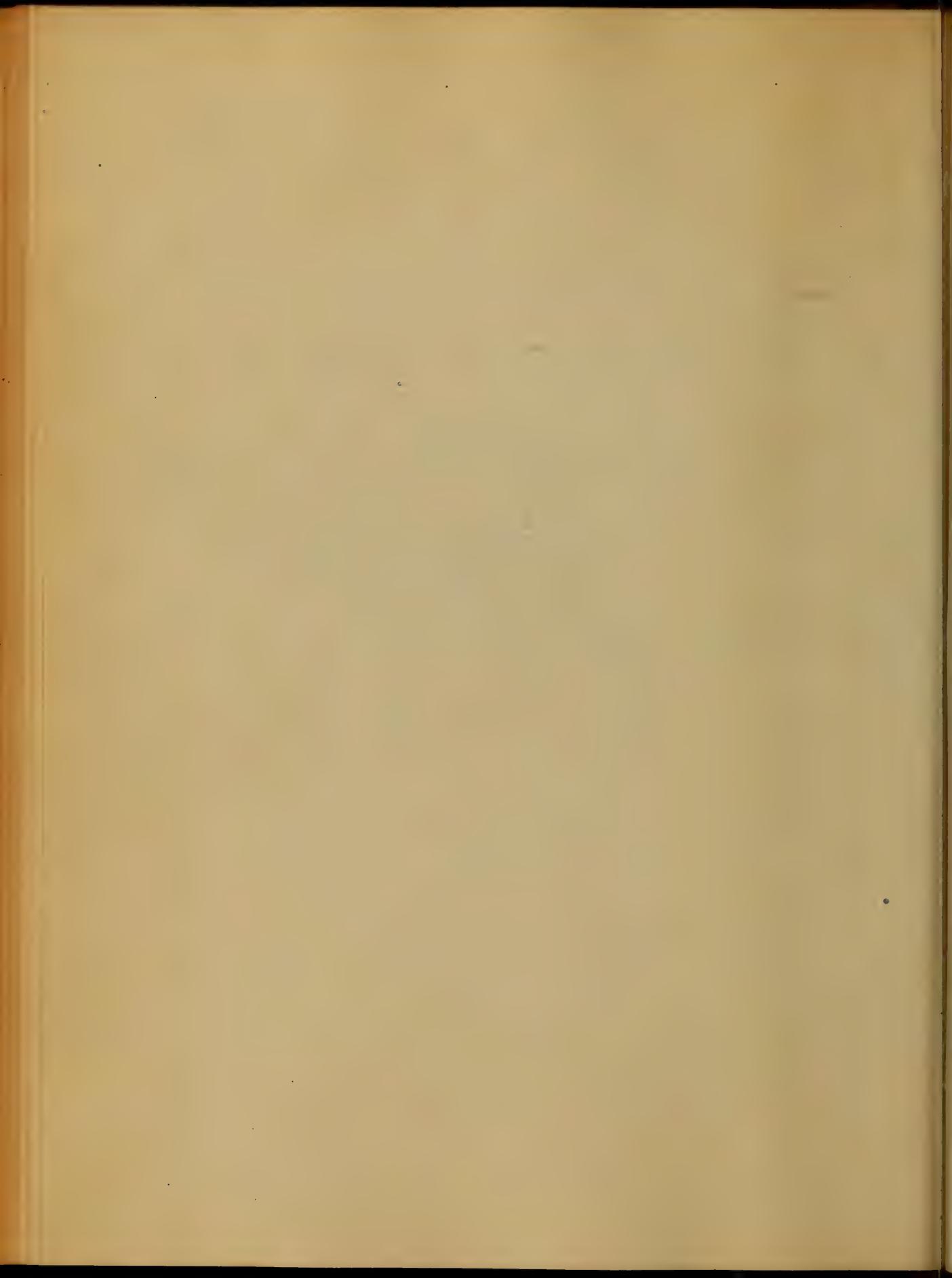


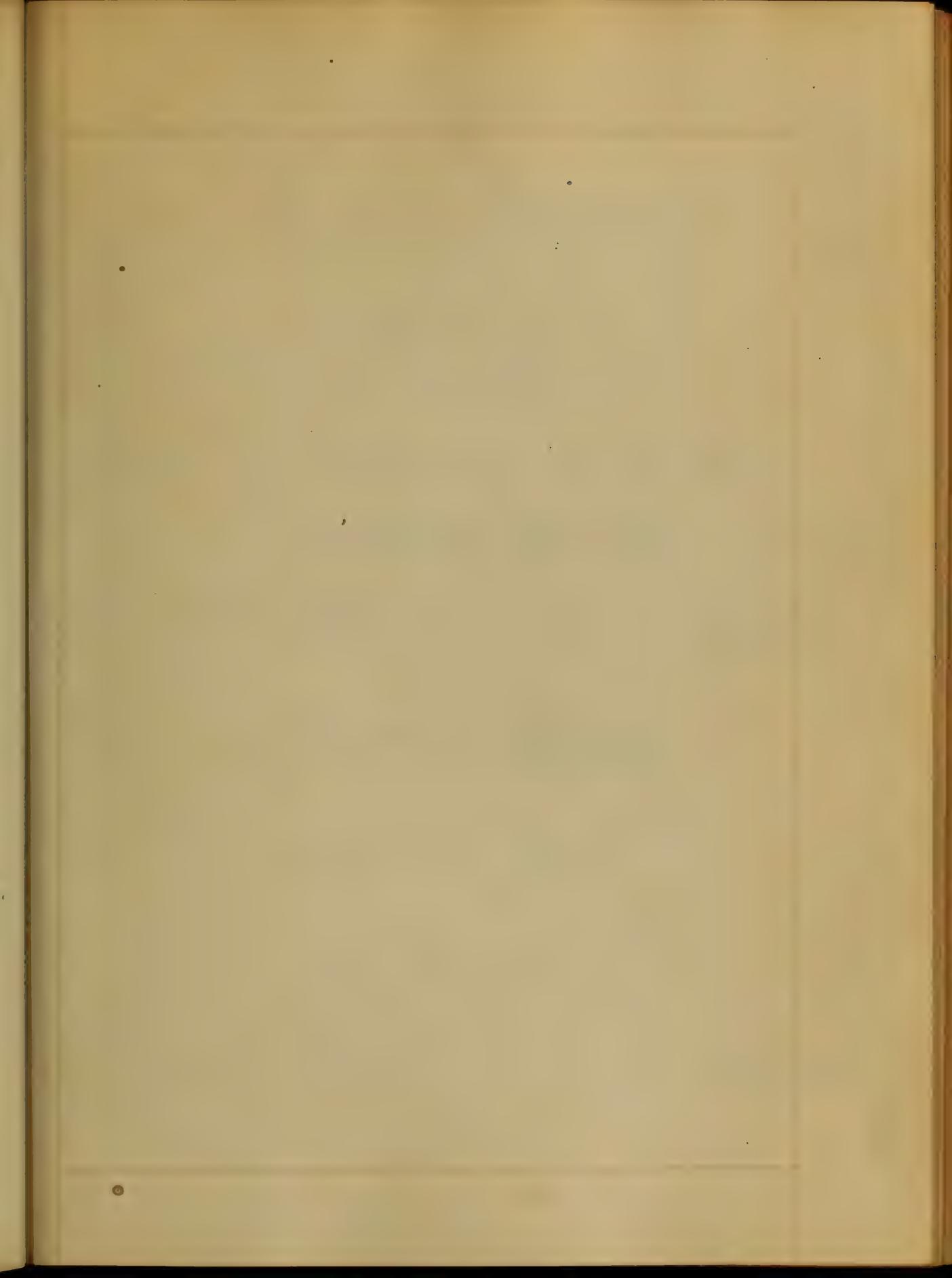
that its author is a mere tyro in  
Medicine and that there are necess-  
arily many deficiencies which  
in time may in a measure be  
supplied.

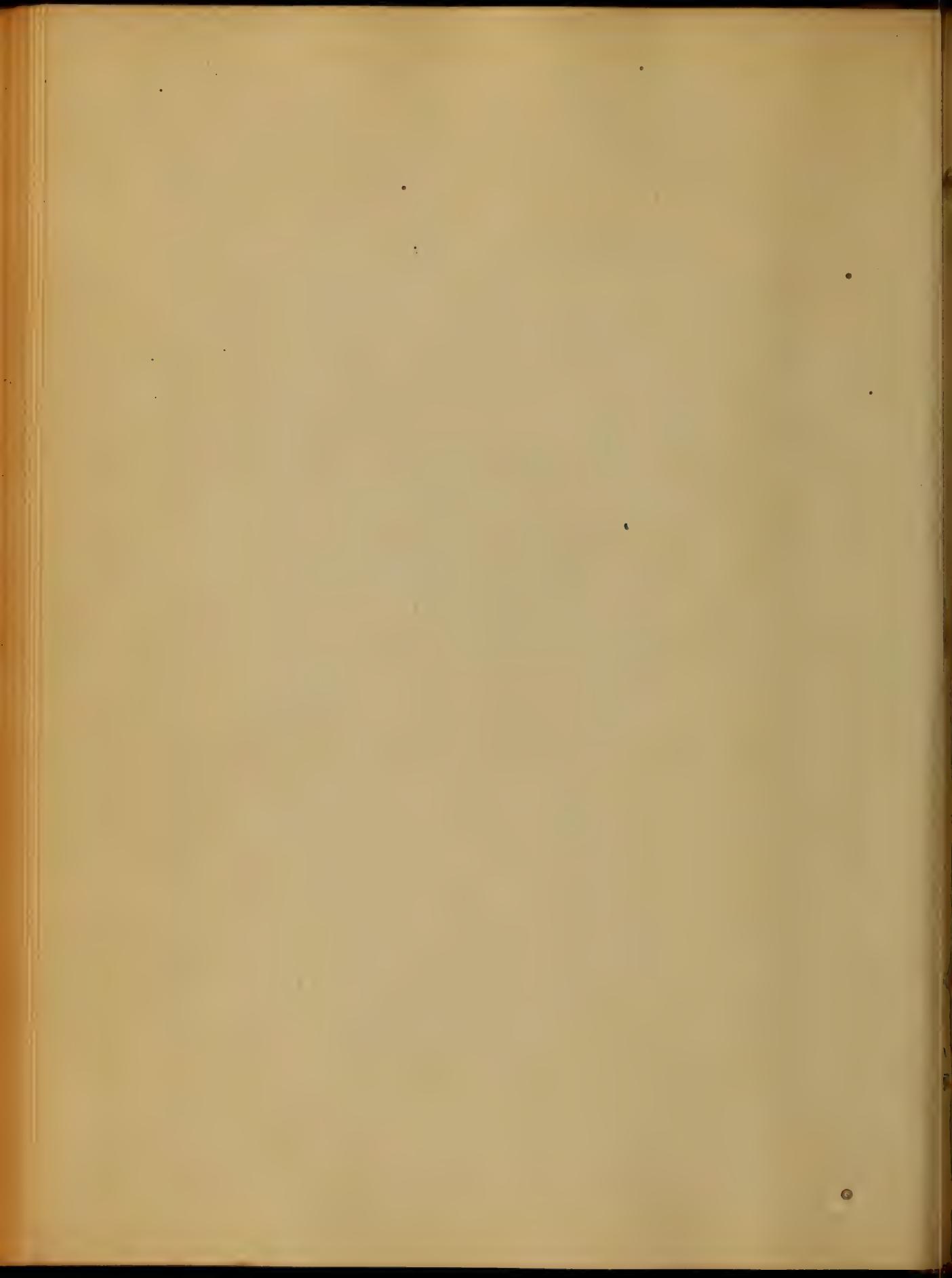
I am Gentleman, with much  
respect; your appreciation, &c.

Geo. Wythe Cook

January. 1859







A N  
Inaugural Dissertation

ON  
*Scarlatina.*

Submitted to the Examination  
OF THE

Provost, Regents and Faculty

OF

**P H Y S I C,**

OF THE

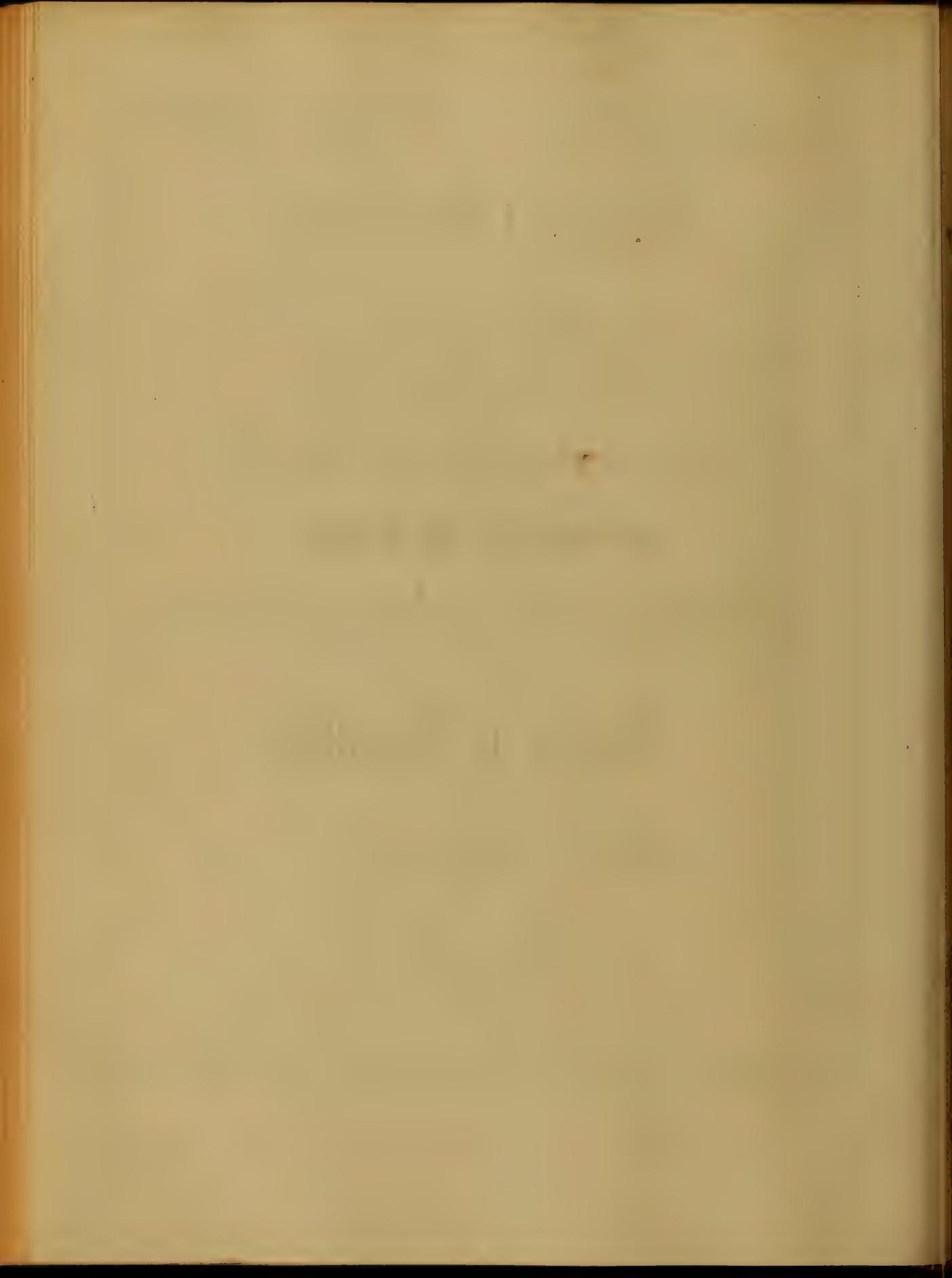
UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

DOCTOR OF MEDICINE,

Charles B. Boileau  
of  
Maryland.

Session of ..... 1868-1869



## Scarlatina.

This disease belongs to the exanthematous or eruptive class of fevers and has received its name from the color of its eruption.

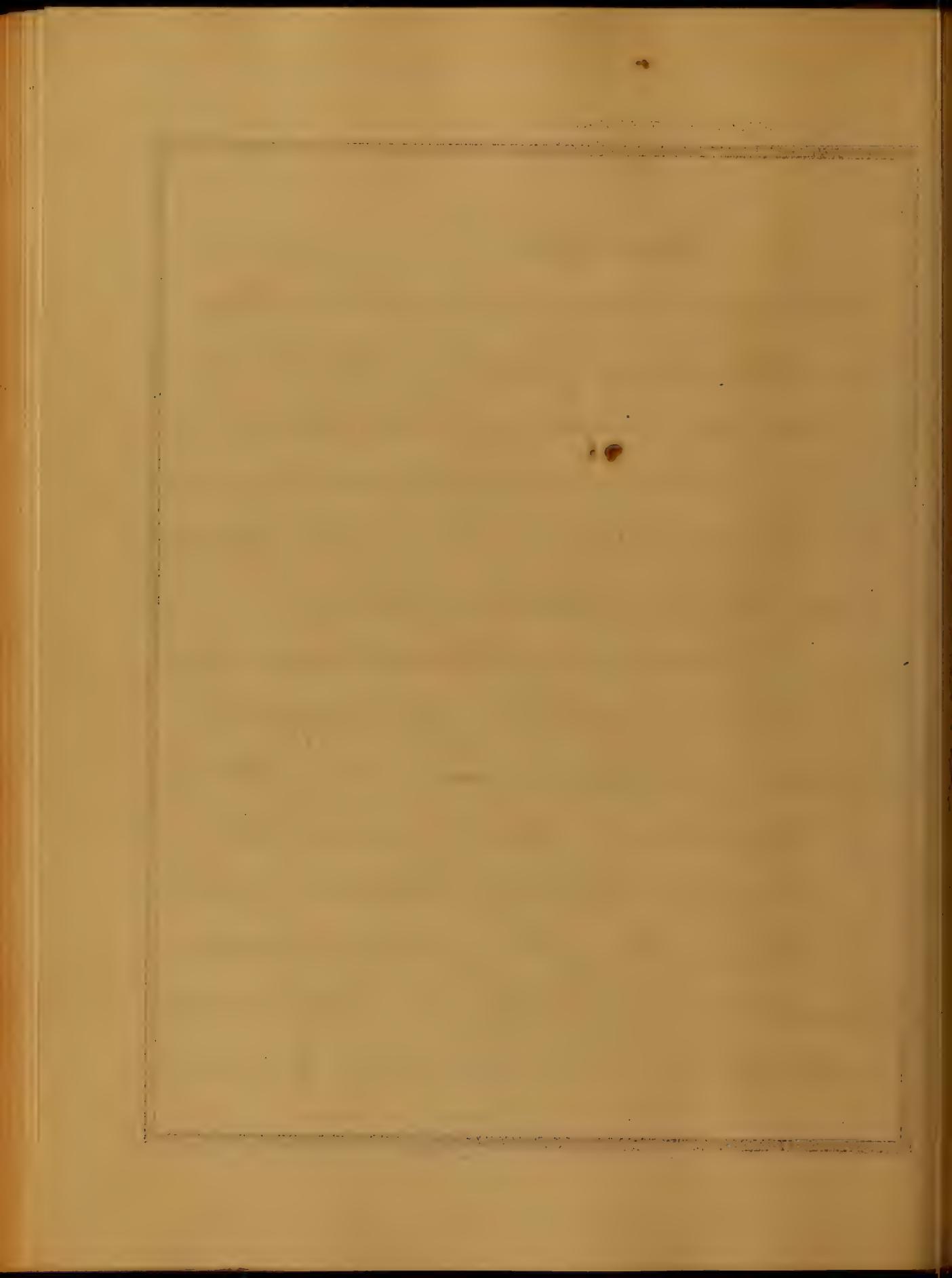
It is a disease remarkable for the great diversity which it presents in different cases as regards symptoms and fatality.

The varieties of Scarlatina, which are but modifications in degree of one typical affection, are four in number, viz:

Scarlatina Simplex. Scarlatina Maligna

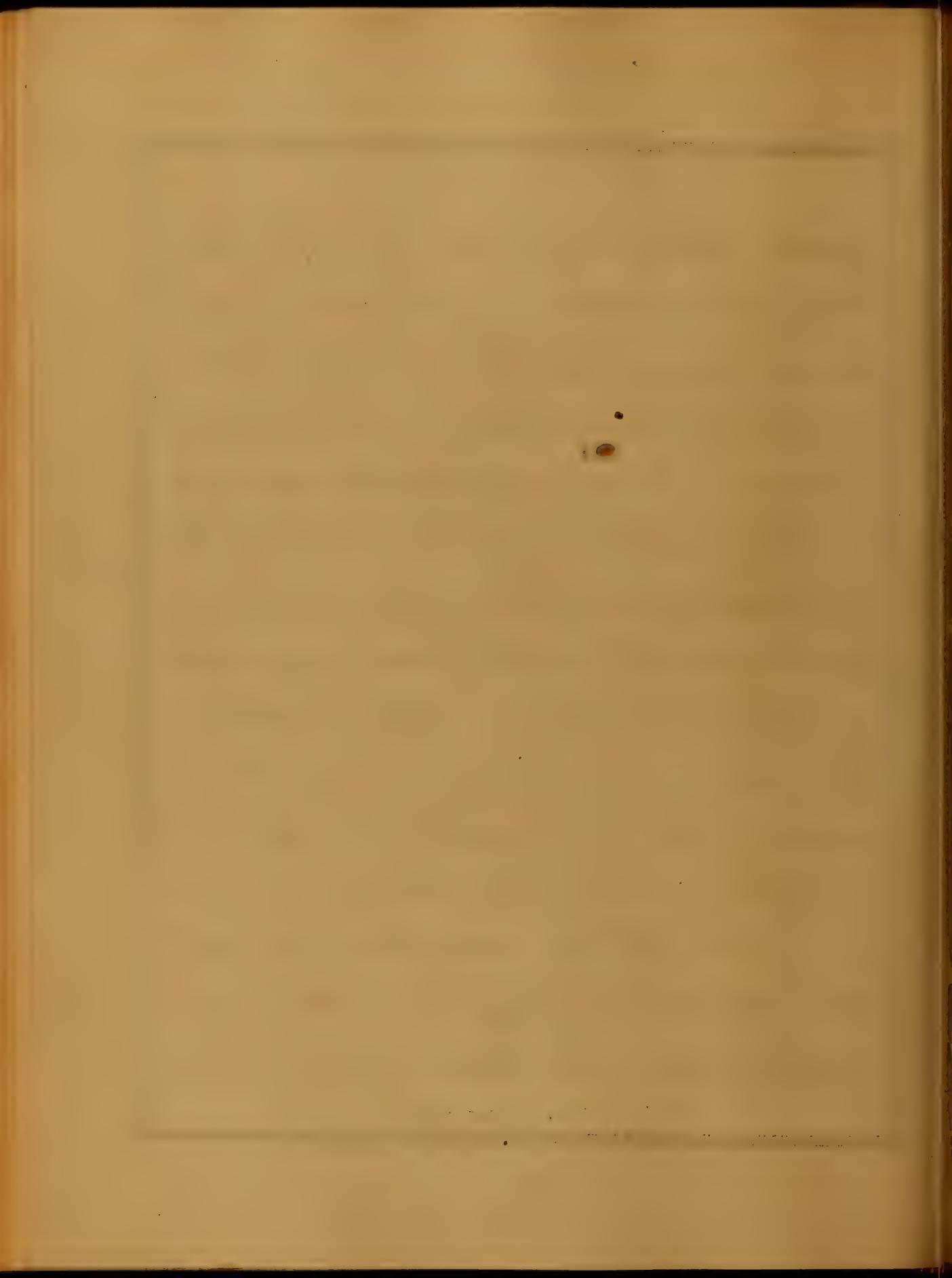
Scarlatina Anginosa. Scarlatina sine Eruptione.

This disease presents no special anatomical characters save that of the eruption and affection of the Throat and other lesions

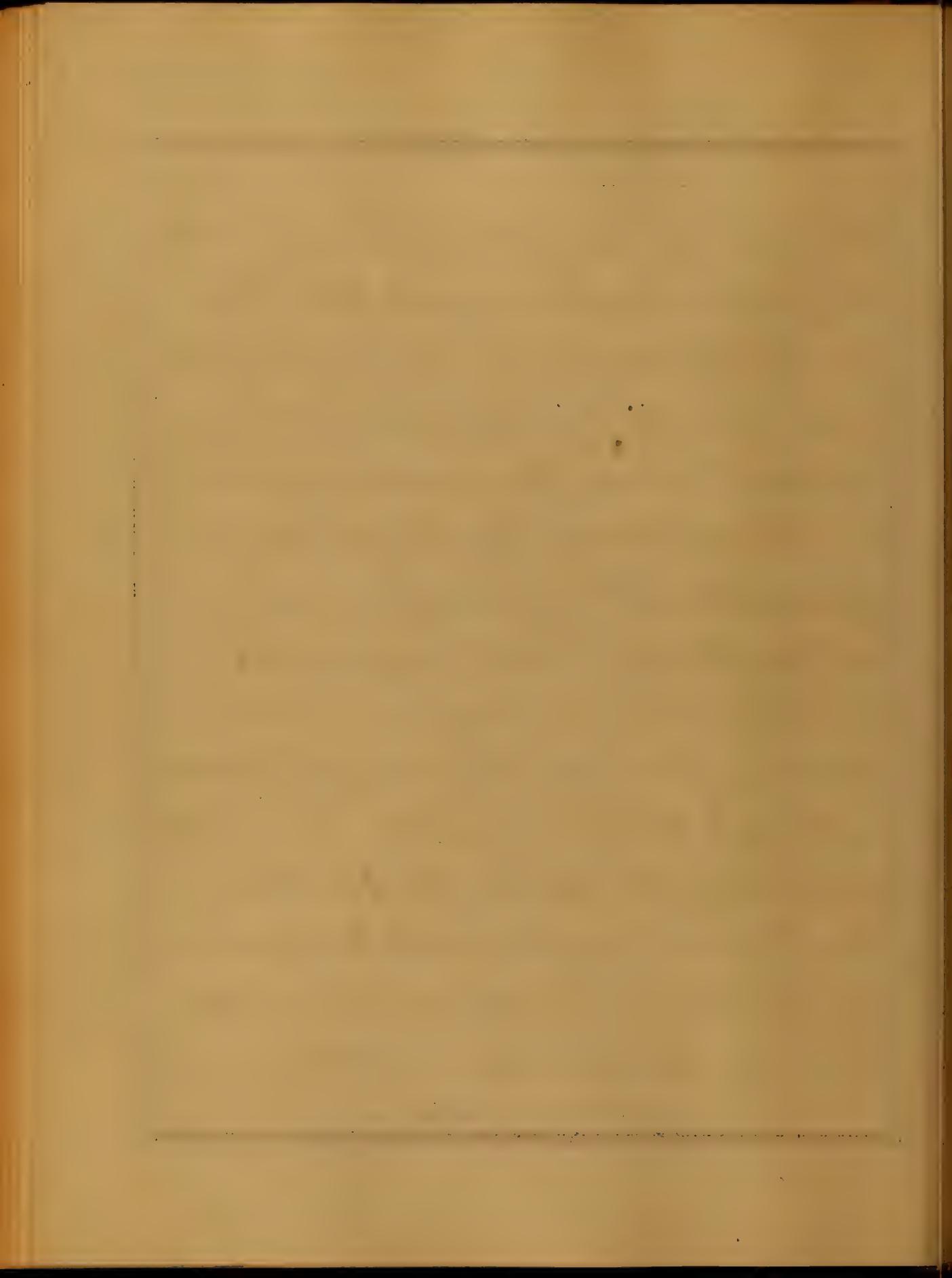


found after death are due to complications though some authors go to show the frequent occurrence of a condition of the mucous membrane of the stomach and intestines analogous to that of the cutaneous surface.

Scarletina Simplex commences after a period of incubation which last from four to six days - with a feeling of languor and torpidity, with pain in the head, in the back, and in the limbs. Upon breaking out of the exanthem, the pulse is quick, but feeble, the eyes are red and sunken; the tongue covered in the middle with white mucus streaked with red papillæ and red along the edges.



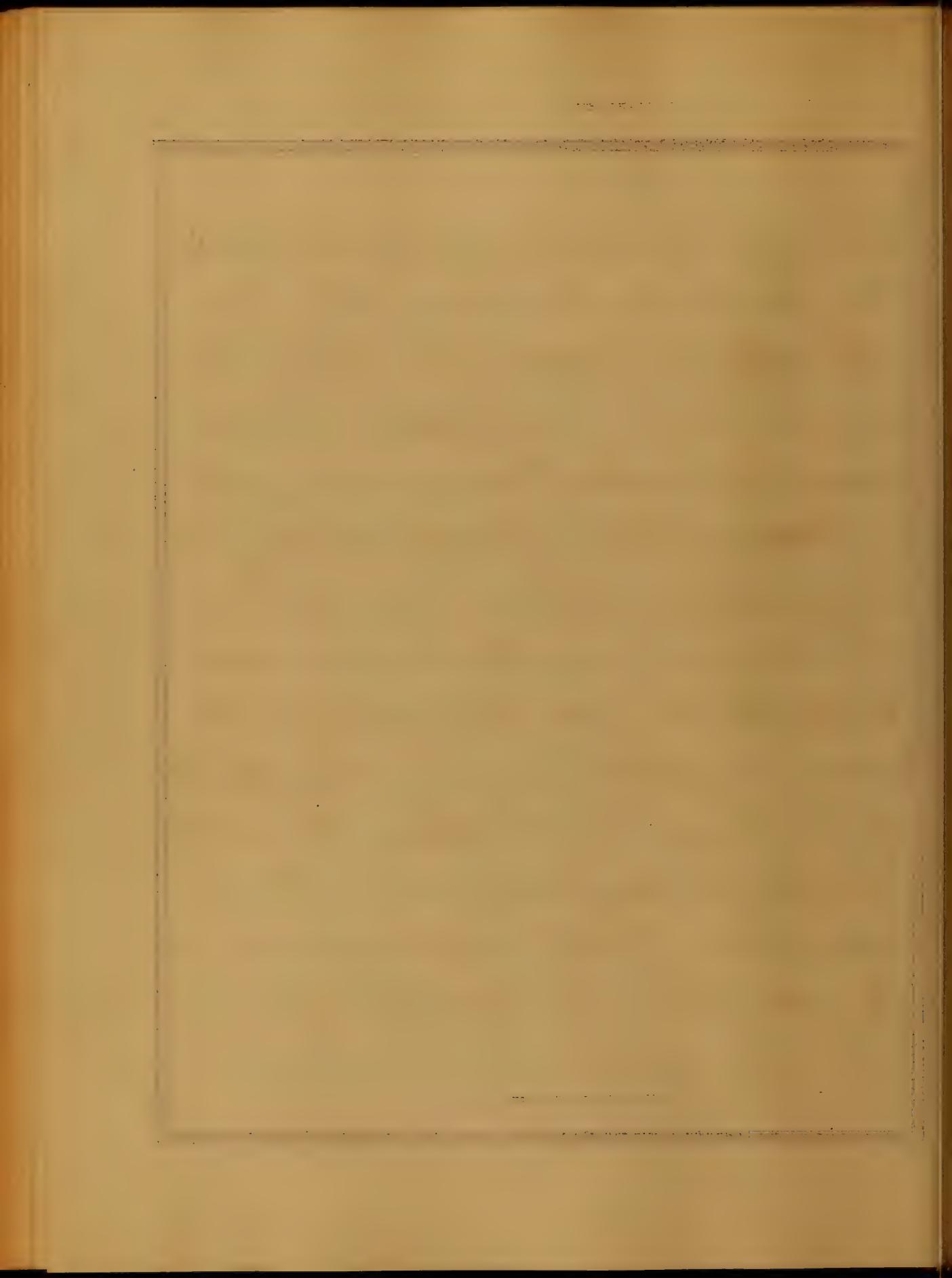
The tonsils are inflamed and enlarged, and the palate and pharynx red. Often there is dry cough, a troublesome itching or salivation of the skin, together with swelling of hands and feet. The eruption usually appears on the second day, first upon the neck, face and chest in ~~concentric~~ <sup>concentric</sup> number of red points which become aggregated into patches of irregular form and size. This eruption is of very bright red colour and most distinct about the loins and flexures of the joints. By the third day, the rash has extended to the trunk of the body, and upper extremities, also to the mucous membrane of the eyes, nose



mouth, pharynx and air passages; and by  
the fourth day, to the lower extremities.

The efflorescence attains its most vivid  
redness upon the evening of the third or  
fourth day after its commencement.  
Dr. Howard states that most generally the  
disease makes its appearance at night.

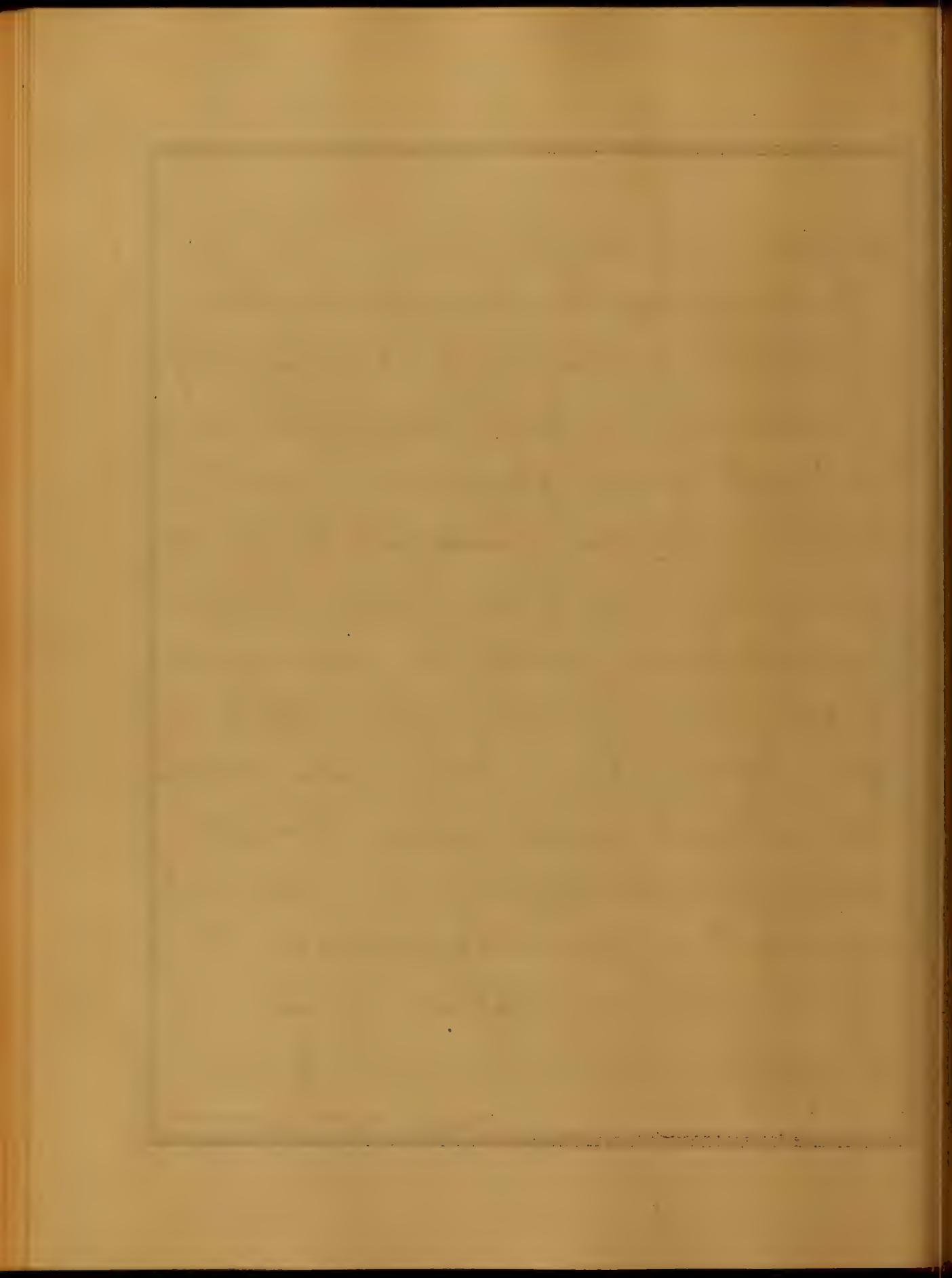
The decline of Scarletina commences on  
the fifth day from the eruption: The  
redness disappearing from those parts  
first where it first appeared, and by  
the seventh day has nearly entirely  
passed away. On the eighth and ninth  
days the desquamation of the epidermis  
has become general, but, in many parts



luminae of considerable size and violence of eff.

In this disease the urine, at the commencement, while there is considerable fever, is of a dark deep red color, and possesses all the properties of inflammatory urine.

Albumen has been found quite frequently in the urine during the period of desquamation, but not as a necessary consequence. Drosses may also appear without the presence of albumen. Examinations of the urine should be made frequently with both nitric acid and heat in order that we may be prepared to combat with the many changes which take place and so often are predominant or the more

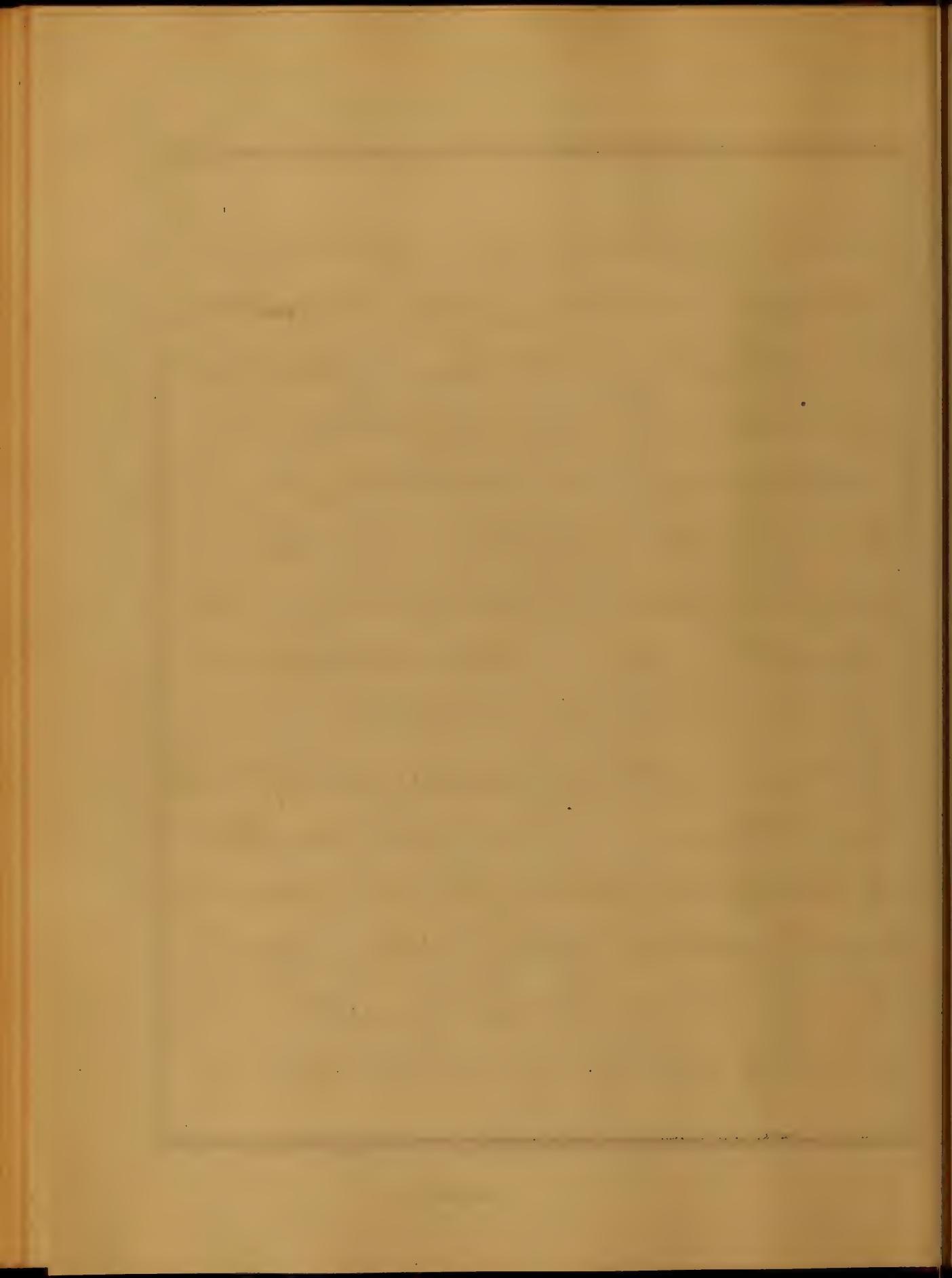


dangerous forms -

Scarlatina Anginosa is ushered in with more violent symptoms than the preceding. The violence of the disease falls principally upon the throat. There is a sense of constriction about the throat, and great stiffness of the muscles of the neck and jaw. The palate, uvula and tonsils are red and swollen and surfaces are covered with an exudation of coagulable lymph. Deglutition becomes painful and difficult. On a very feverish accumulation of sordes upon the larynx respiration very much impeded with and not infrequent the irritation of inflammation may extend through the

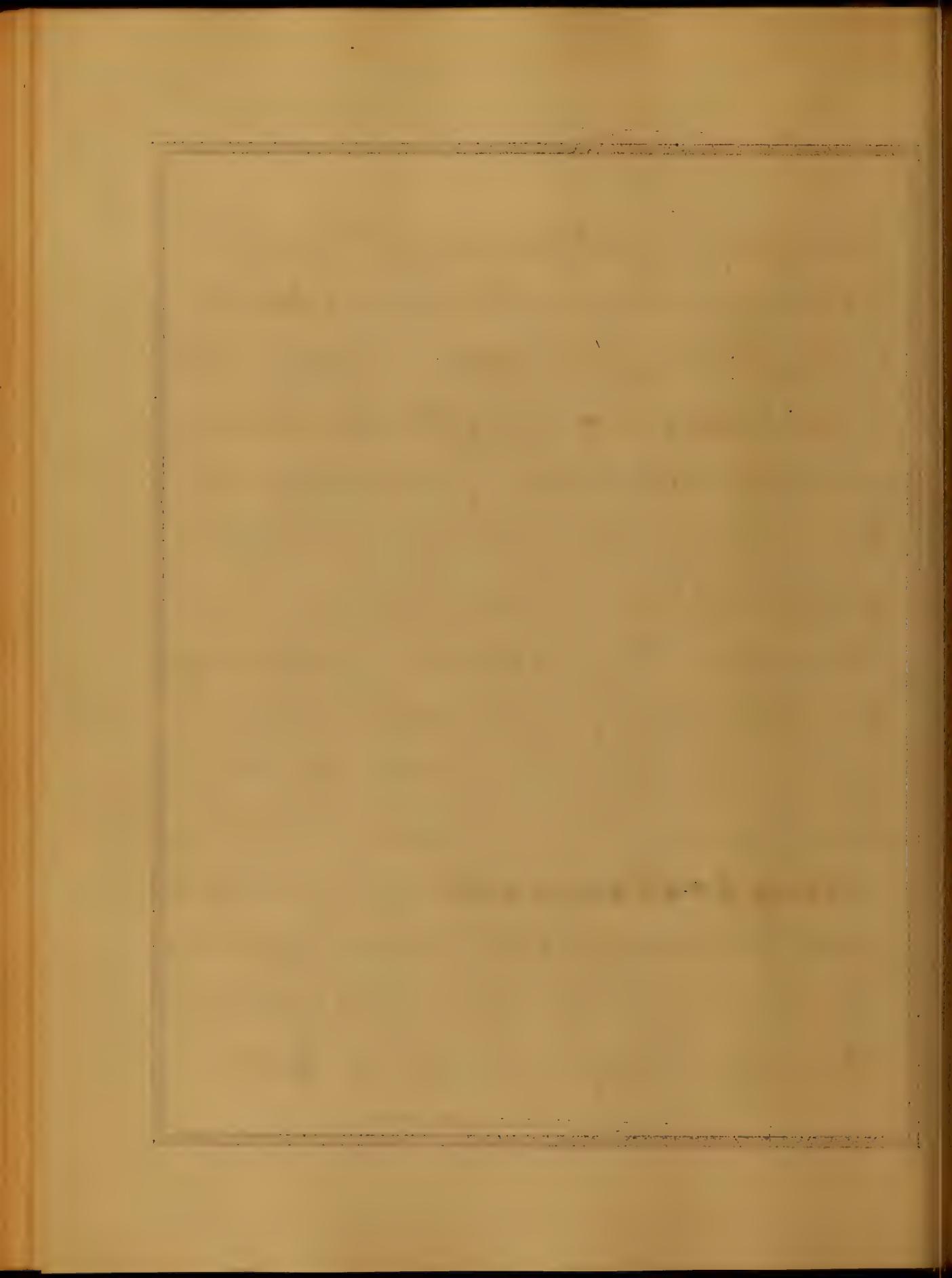


Eustachian tubes to the tympanum, and destroy the auditory apparatus so as to cause permanent deafness. The local affection is thus rapidly progressing in the meninx the constitutional symptoms are indications of very serious and dangerous disturbance. Sometimes however the inflammation extends to the larynx and bronchial tubes the eyes may become involved several cases are reported by Dr. Howard in which there was total destruction of both eyes the sputum and lung glands after the reaction come enlarged and inflamed. This is recorded in which it is stated the



taken place, constituting a ulcerous  
called Scarletious tubercles suppuration  
of the glands of the neck may occur early  
in the disease or on the other hand they  
may be developed during the stage of  
desquamation; gangrene and ulceration  
of the throat are recognisements.

Sometimes the eruption in this form of  
the disease is very slight and vague it  
has been found to last but a day or two.  
Poisoning is liable to occur either due to  
any of these & of laryngitis or oedema of the  
lungs the severity of the throat affected  
is apparently too much fatal result.  
Alumina is a most powerful



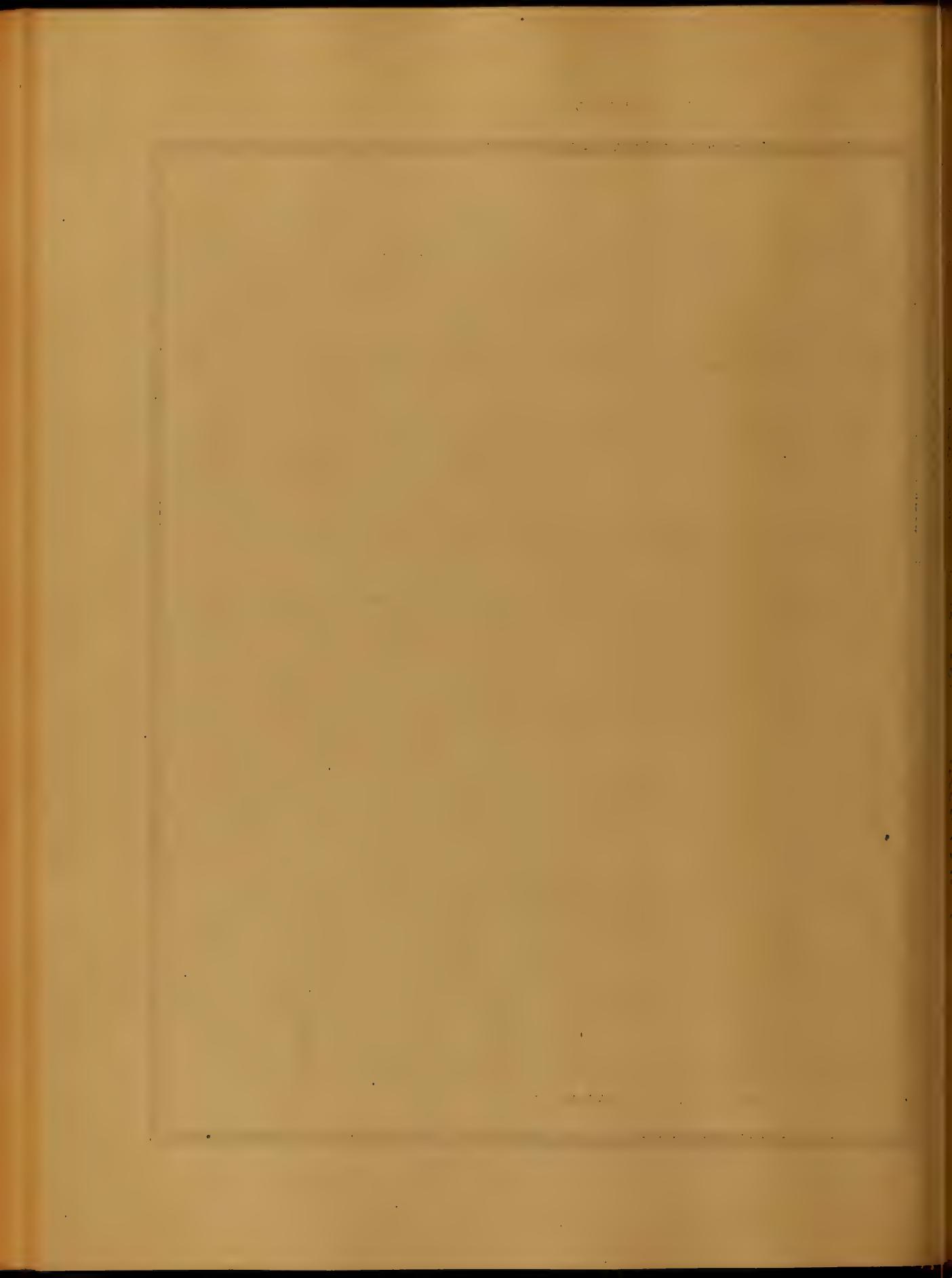
7

This form of the disease - other complications  
than those which have been mentioned  
sometimes occur, but seldom -

Scarlatica Maligna is a very greatly  
aggravated form of Scarlatina anginosa  
and designates an overwhelming toxæmic  
impression of the mortid case of the  
disease, occurring in persons of debilitated  
constitution, most commonly making  
its appearance in the winter months  
and in damp, unhealthy and insalubrious  
situations. Sometimes it makes its ap-  
pearance sporadically while at other  
times it invades suddenly and unex-  
pectedly during the progress of scarlatina.

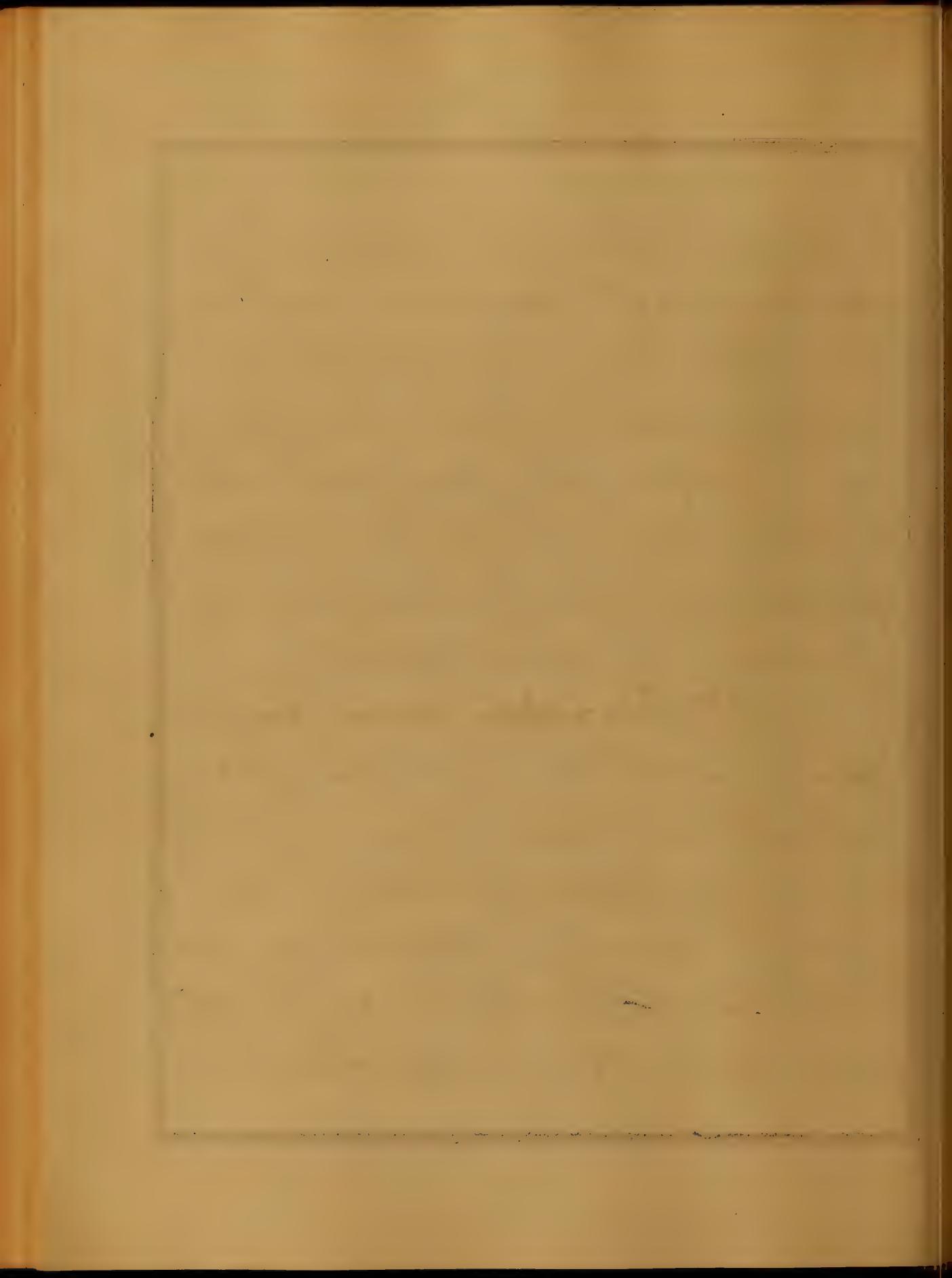


Simples or Anginosa. The chief characters  
of this are likely to be diarrhoea & frequent  
scarlatina are. The sometimes sudden pro-  
stration of the whole nervous system, the  
great cerebral trouble being added to the  
affection of the fauces and skin there  
is great irritability & restlessness accom-  
panied by low muttering delirium. The  
pulse is irregular and becomes per-  
petually fast & even though reduced to 80, 90.  
There is an acrid secretion from the  
nose which, being over-salted, causes  
diarrhoea - the lips, tongue, teeth and cheeks  
congested & inflamed & covered with  
yellowish green mucus and the nails are



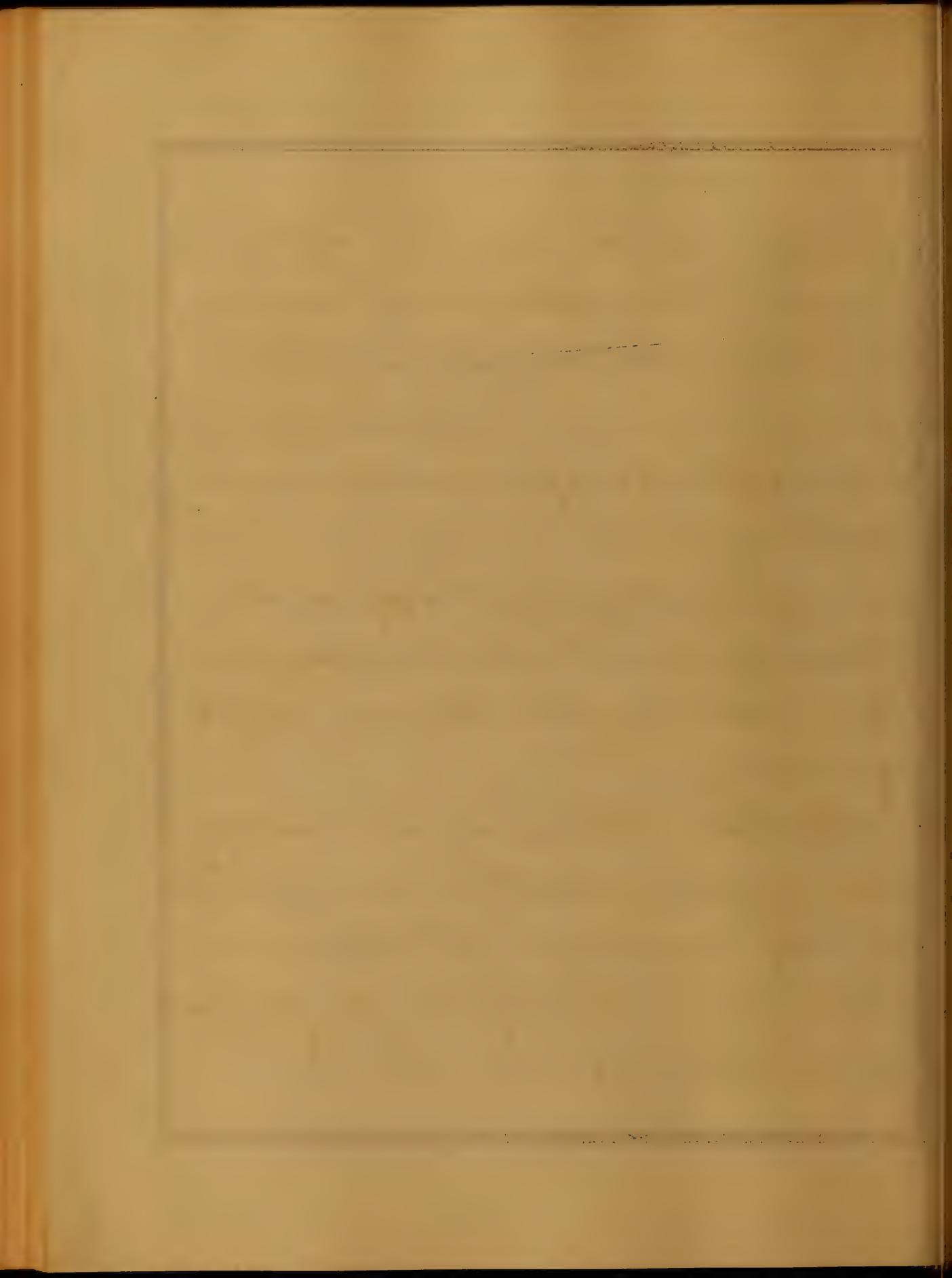
deeply ulcerated and covered with slough.  
 abscesses are often found in the cellular  
 tissue of the neck. The respiration is  
 greatly impeded, quick and rattling.  
 The eruption in this form of the disease  
 is late in making its appearance and  
 often the patient's succor is given an  
 appearance of hopelessness.

Dr Donaldson several days  
 since narrated to me circumstance of a  
 similar character occurring in his private  
 practice. The patient yielding to its  
 poisonous influence without any option  
 whatever, in the short space of forty  
 eight hours. The duration of the sick-



is equally uncertain with the period of in-  
vasion. Dr. Sims states that in some instan-  
ces the rash suddenly disappears a few  
hours after it has formed, and comes on  
again after the expiration of a week  
containing two or three days; in one case  
numerous patches of it appeared a  
third time on the seventh day from  
the second eruption, then remained  
for two days.

Scarlatina Maligna is a disease of  
such extreme danger that only patients  
of very vigorous constitution survive  
it. However, if the seventh day be passed  
without the fever may be considered



Scarlatina sine Eruptione is a very mild form of disease. Some few cases have been occasionally observed, five and aquaria being present, but no perceptible efflorescence - This form occurs in a secondary attack before the patient has become completely re-established. Dr. Howard states that in case of death from second attack of Scarletina has been recorded, and I feel well assured that if the book contained a unique case it would not have escaped his ineradicable glances.

Having hurriedly run over the different forms of Scarletina and the most prominent symptoms of the same

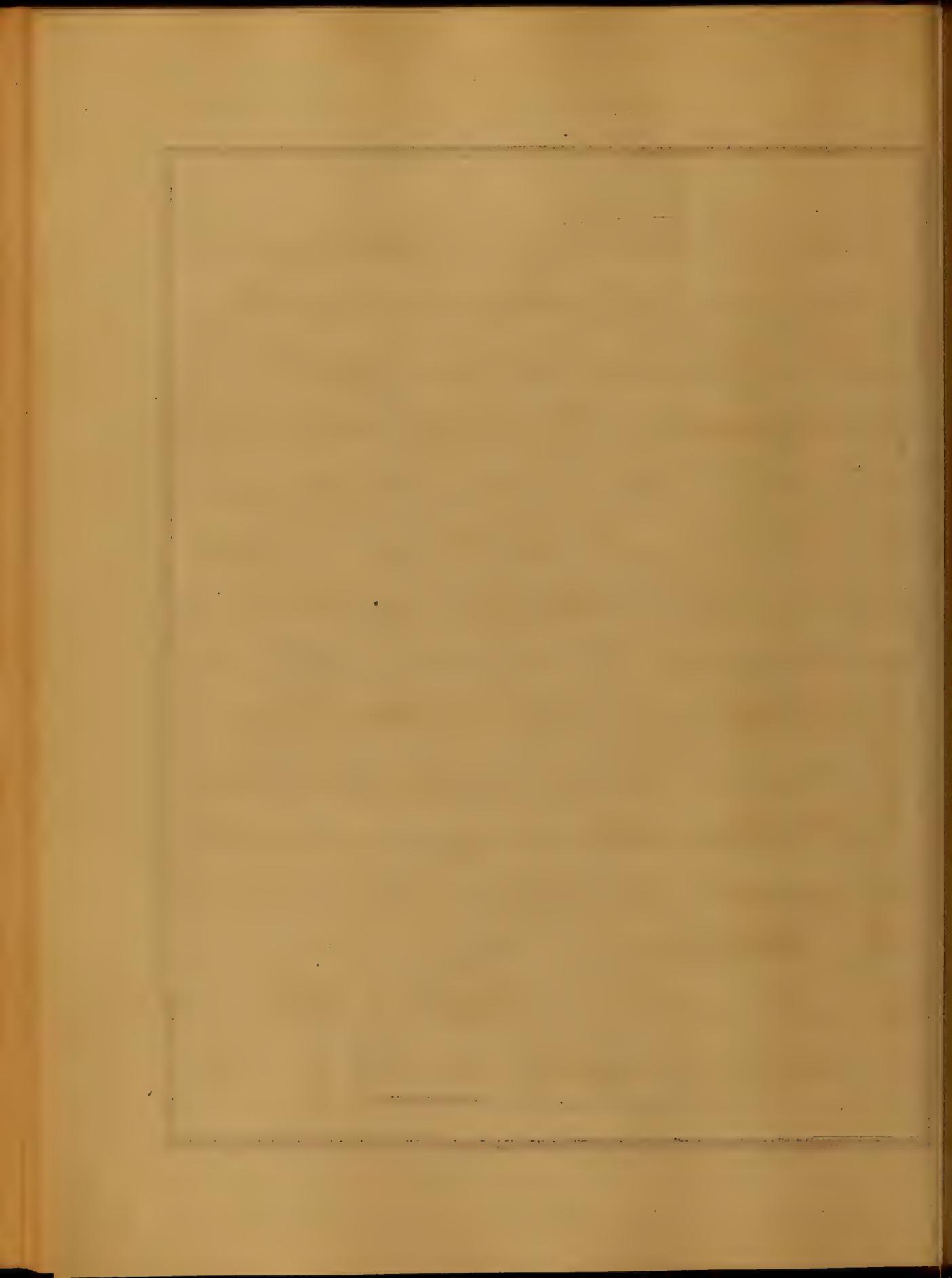


I will now turn my attention to that which has made life burdensome to many who have survived the disease of typhus:

The Sequelae. - The one most frequently occurring is albuminuria with general debility. This sequelae usually supervenes between the tenth and twentieth day, and sometimes as early as the fifth day. It is referable to the temporary inflammation of the structure of the kidney, and is indicated by swelling of the face and lower extremities with a coarse granular deposit. Shortly afterward, containing a large lake placed in the renal cavity. This urine is dark yellow, cloudy, etc.

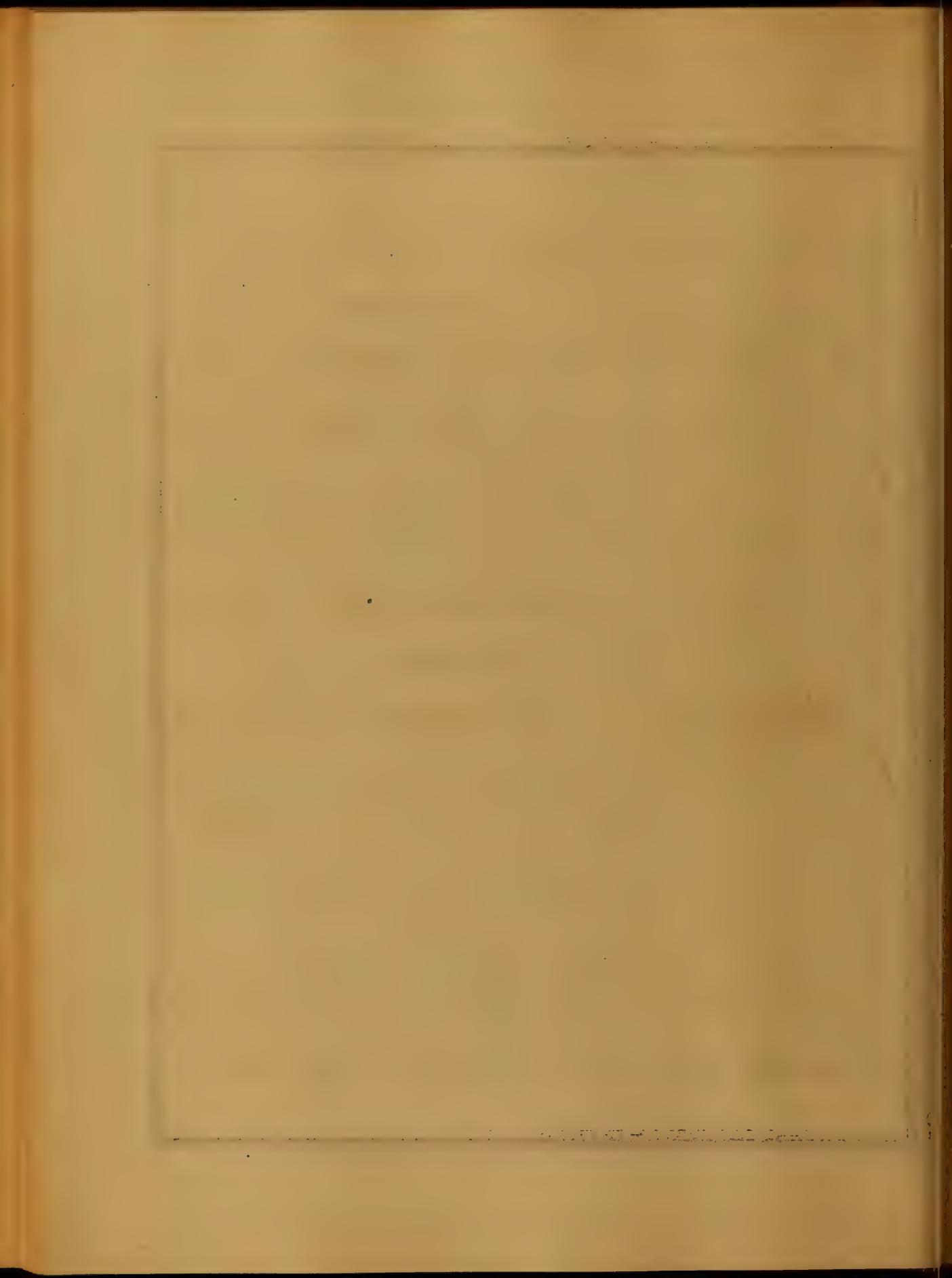


blood. Dr. McSherry exhibited a specimen  
 of urine, containing blood and epithelial  
 casts, as passed by one of his patients in  
 private practice. Pleuritis, pericarditis and  
 acute rheumatism are occasionally sequell.  
 as well as concomitants of Scarlet fever.  
 Chorea is also reckoned among the occa-  
 sional sequelæ. The communicability of  
 Scarlet fever seems to be established by  
 The strongest proof which is possible  
 that its causation always involves infecti.  
 The following example is given by the  
 Prof. D. R. Palmer, of Franklin  
 several miles from Worcester, Mass.  
 a disease prevalent in the County and is



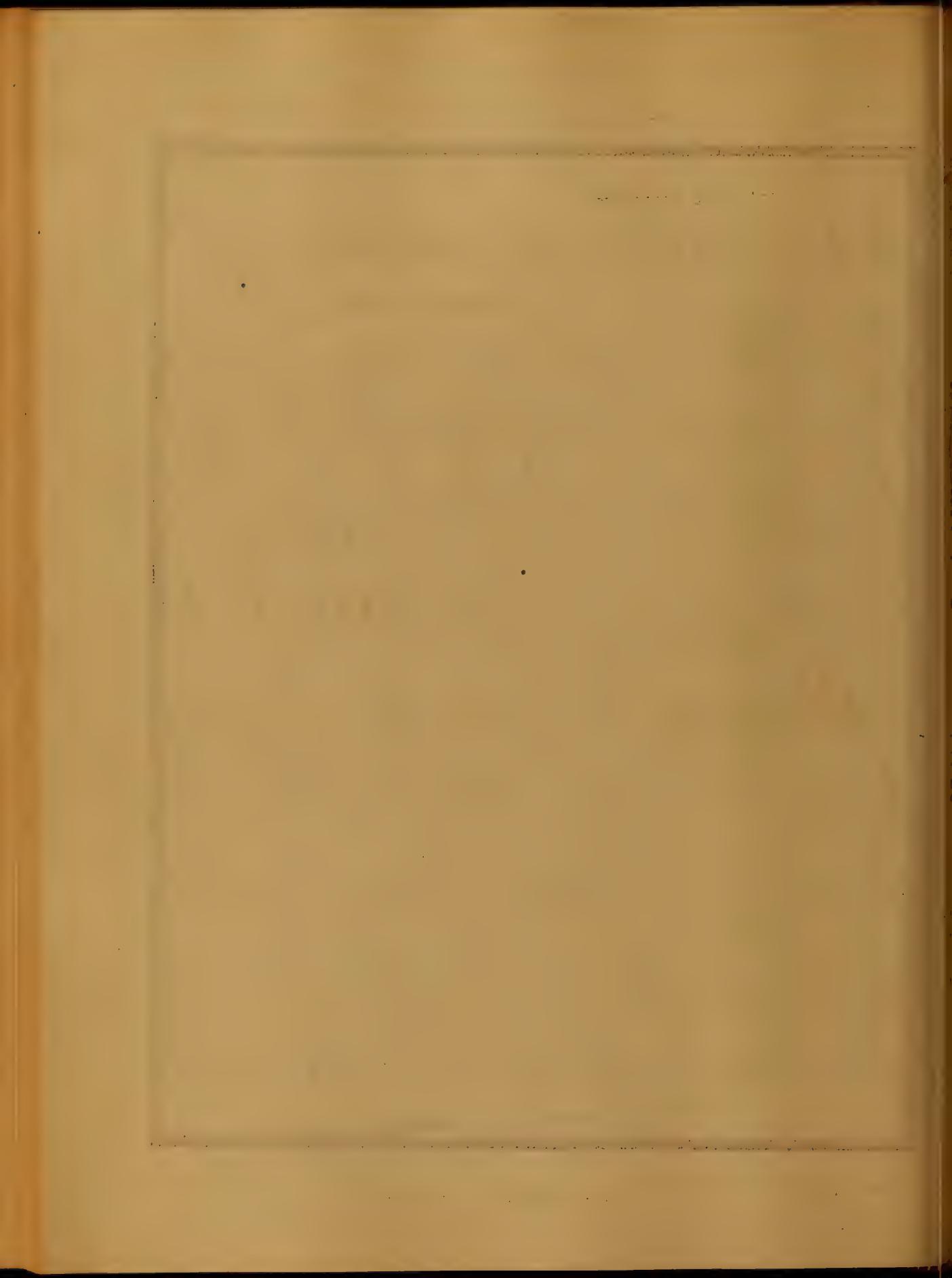
entre amigos, en la noche del 10 de Junio  
falleció su esposa y el día 12 de Junio  
nuestro distinguido hermano quedó en la  
familia de sus padres y murió el 13 de Junio  
en su hogar en el número 11 de la calle  
de la Constitución. Su enfermedad se  
contrajo en el verano de 1852, y las dos  
familias dieron fin a sus días.

Diagnosis. De especial diagnos-  
ticó el Dr. José María Sardón, que  
diagnóstico la acuta affection de los  
fauces, diariamente aumentando  
y con rapidez extensión de las fauces  
y del pharynx, que ejerció un gran  
charadrius de dolor. Fue manejado



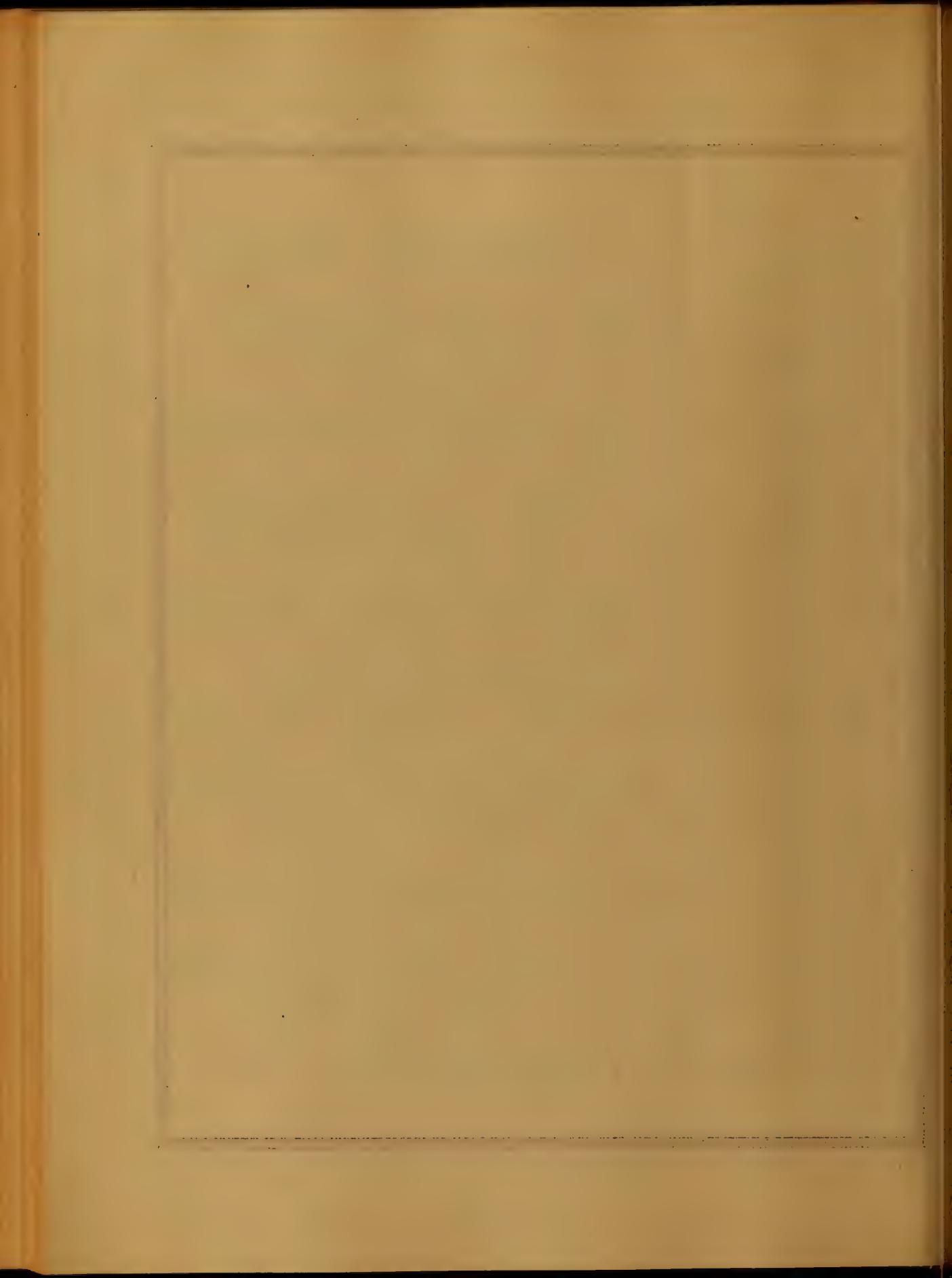
is known by the eruption making its appearance on the second day with  
calanchades & the sores on the skin.  
From rosola it is distinguished by the  
fever & sore throat & by color which in  
the latter is yellowish greenish blotches  
darkened on the sides of the skin  
or dark bluish green.

Prognosis. The prognosis of such  
fever will be much influenced by the nature  
of the prevailing epidemic. If contact  
inades with such overwhelming rapidity  
as to despatch life before any further  
changes can be effected, *Scarlatina* <sup>will</sup>  
be diverted by its change if it be long enough

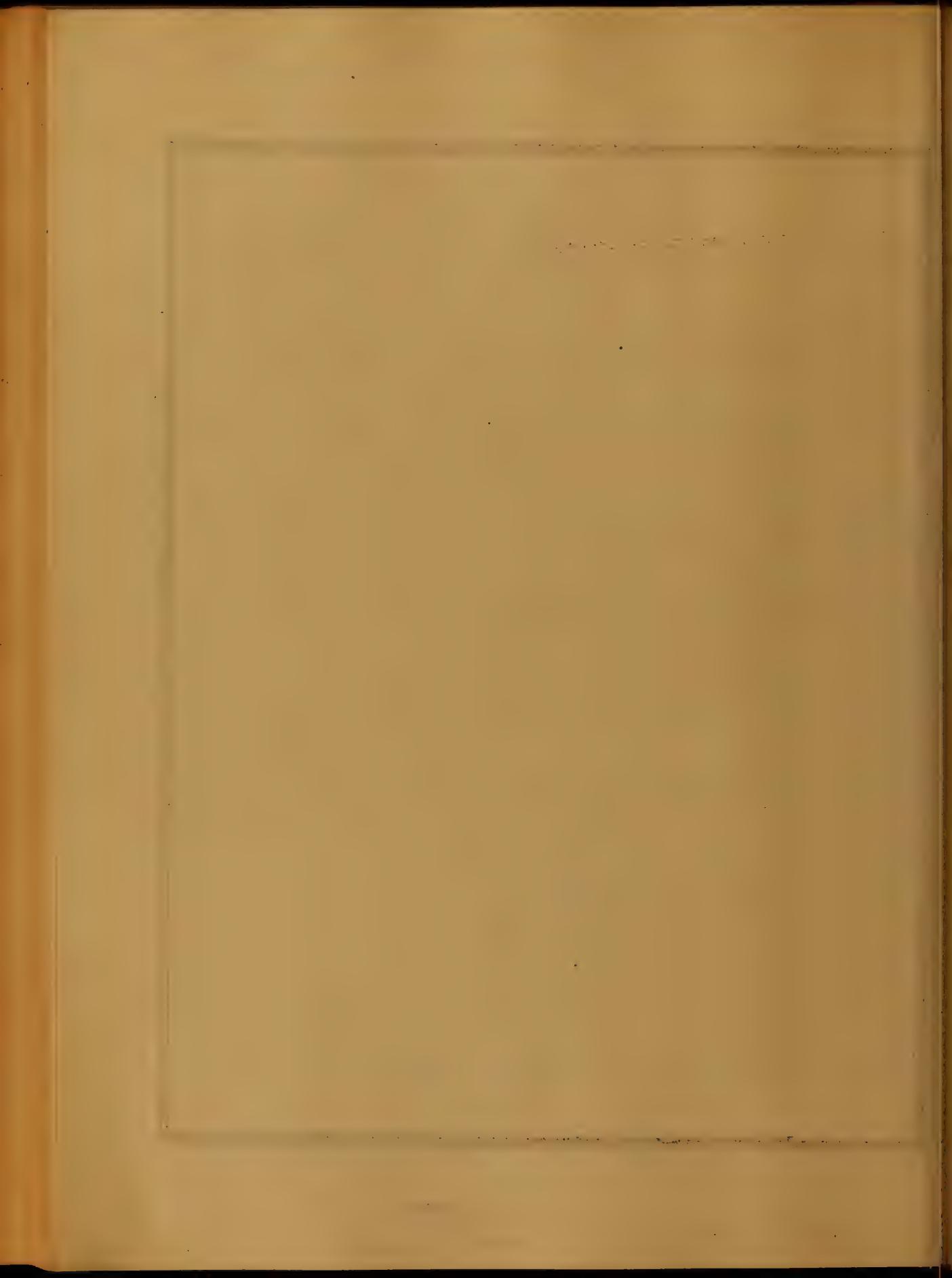


darkly through its course. Should delirium supervene, as it frequently does in children, then death prognosis is unfavorable. But suffusion after exanthem is also a symptom of great danger. The danger of Scarletina is greatly increased by denitition. Prognosis adds to the danger & results in suppuration, so frequently -

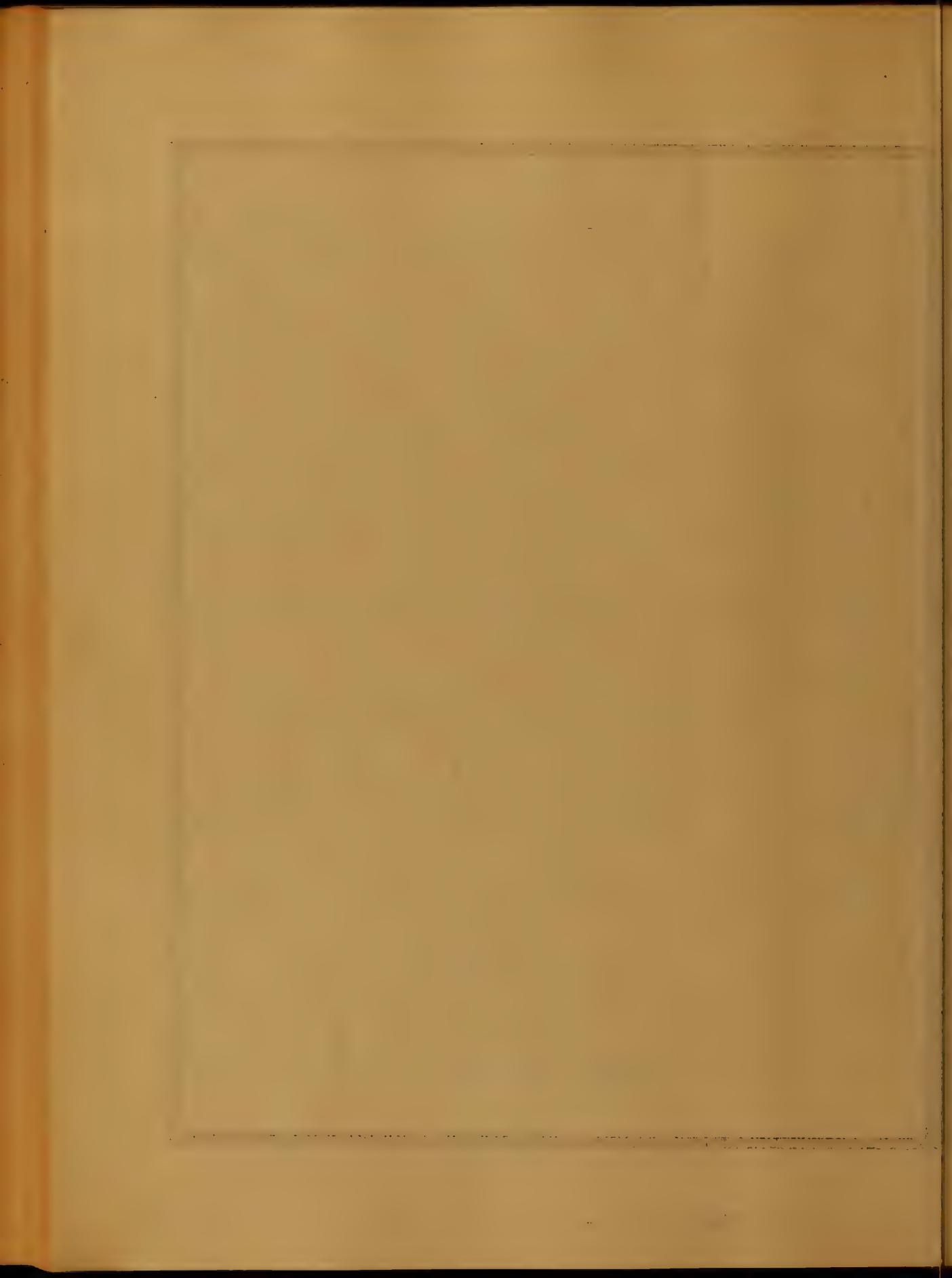
Locutient. The Inukko form, says Lydenham, is fatal, only through the officiousness of the Doctor, and requires no treatment. Be you not unmerciful to the house for small or through the regulation of the disease, have dry & peaceful warm clothing. Have darkened windows



tion to the bowels - Dr. Thun in his lectures upon Belladonna strongly recommends its use in this disease as a prophylactic many authors however expressing very little confidence in its virtues Bleeding and active purgation are not indicated in Scarlatina - Dr. Howard recommends the free use of Senna, & Alum as an emetic in case the stomach be over loaded and after abstraction Magnesia may be given as a laxative, but going beyond that of cleaning out the bowels being prohibited. Mr. Nuttall Garrison  
Sponging the surface with warm or cold water or glycerine will remove the fever

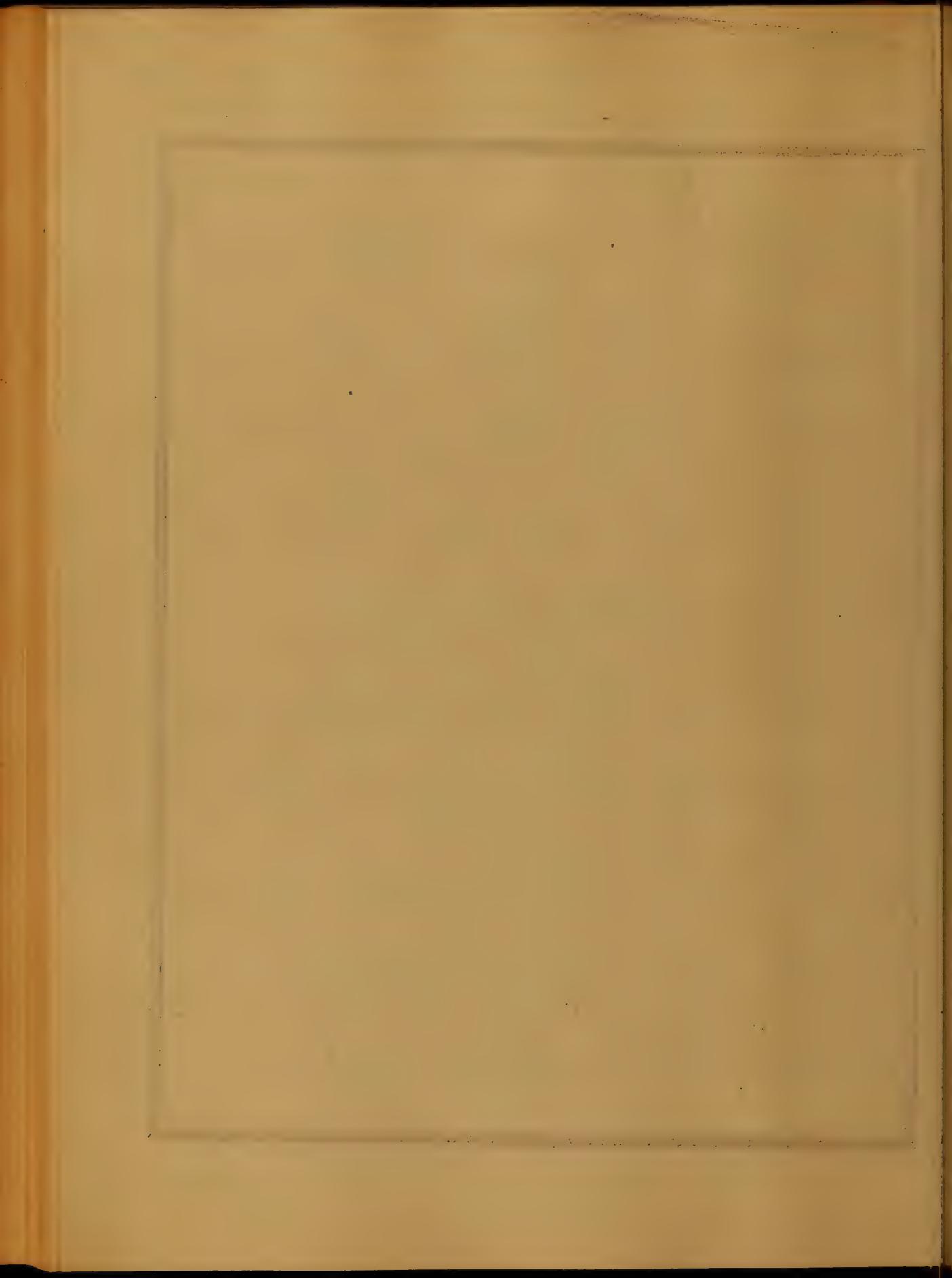


Augment form gargle of Chloral & Salicin  
 Reach to the throat and incisive & alveolar.  
 Chloral are particularly injurious because of  
 Their action as an additional irritant  
 the function of the nose is not so far to  
 some obstruction, and is an admissible remedy  
 often ulceration of the nose take place,  
 when you should resort to irrigation  
 warm water or add sufficient quantity  
 & for management to attach to introduce  
 the water may be used. Rinine is a val-  
 uable medicine as long as the mu-  
 cous is normal. In the more ma-  
 leignant cases the jet can  
 be directed straight to the bad

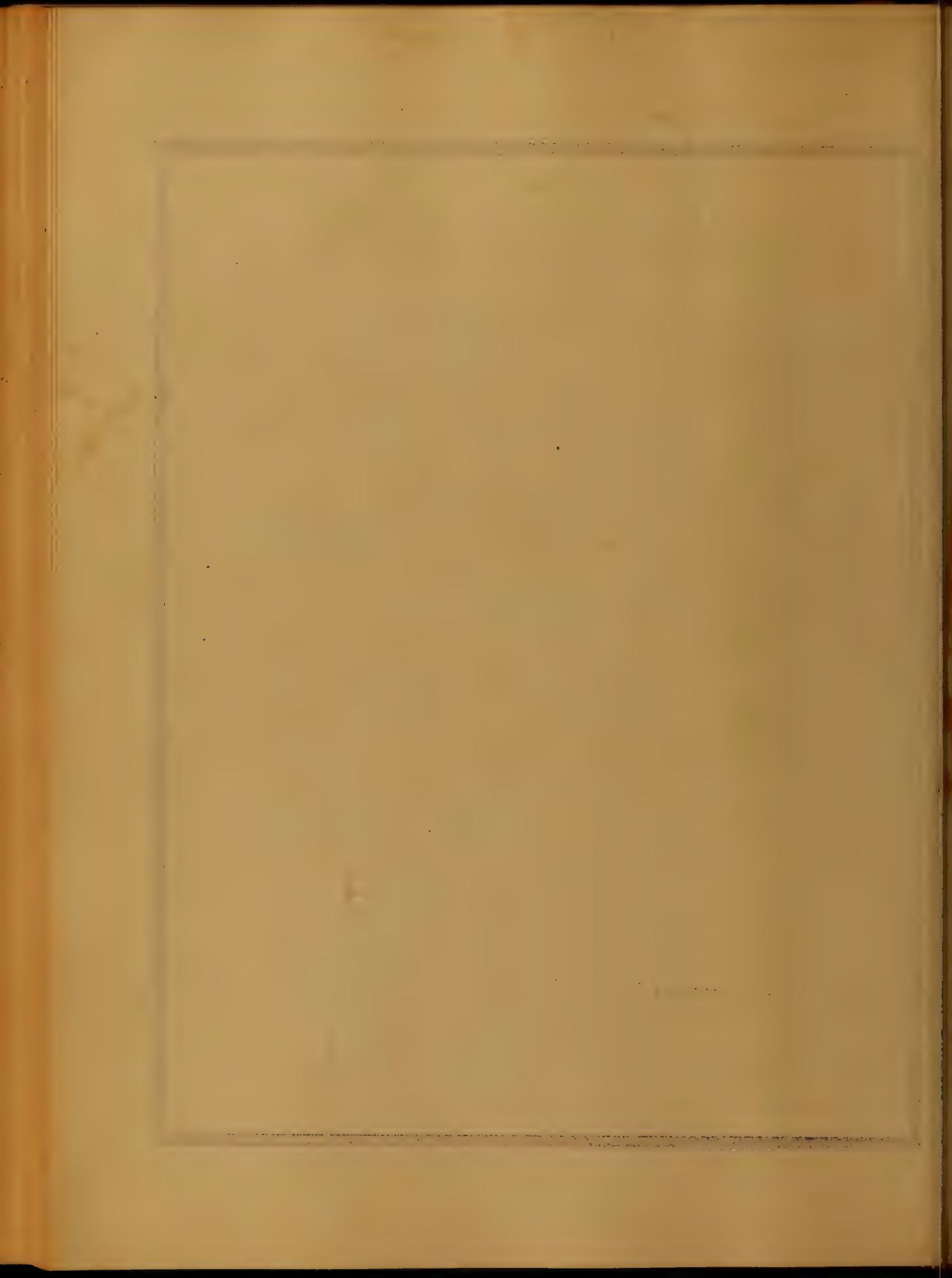


Should the false gout prove chronic & irritant  
The acidic acid treatment is strongly recom-  
mended by some practitioners, especially  
of Carr. of Ammonia. The most im-  
portant thing to be looked after in  
this disease is, in the language of  
Dr Howard, Hygiene -

Should dropsy make its appearance  
the same remedies should be resorted  
to as would be indicated in dropsies  
arising from other causes, and  
among the most valuable of these  
are, the hot air bath, the free  
use of digitalis and the Tonic  
Froth, except that until a



require the use of the lancet -



AN  
Inaugural Dissertation

ON

*Narcotics.*

Submitted to the Examination  
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Provost, Regents and Faculty

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**PHYSIC,**

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By

J. H. Crampton

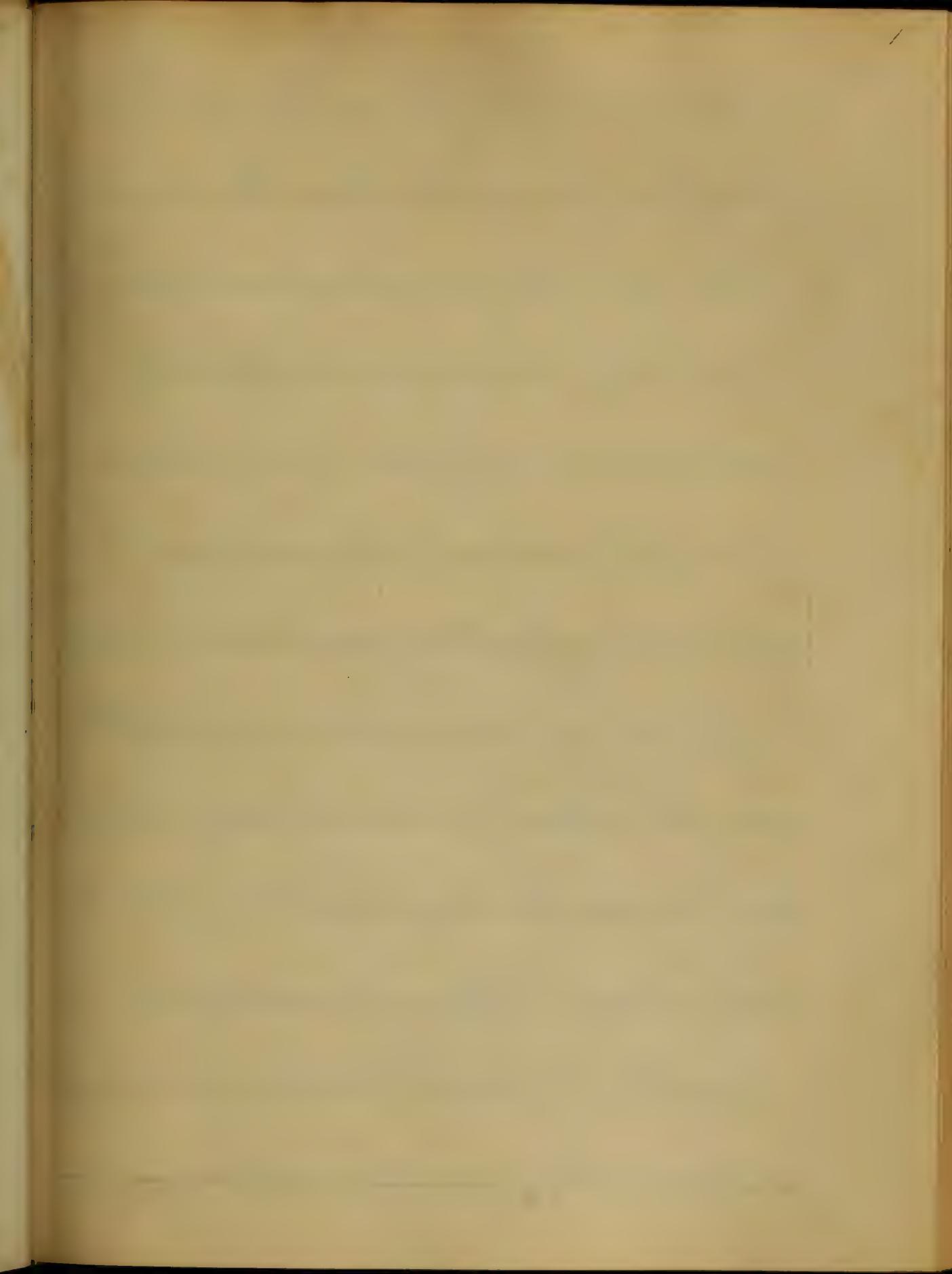
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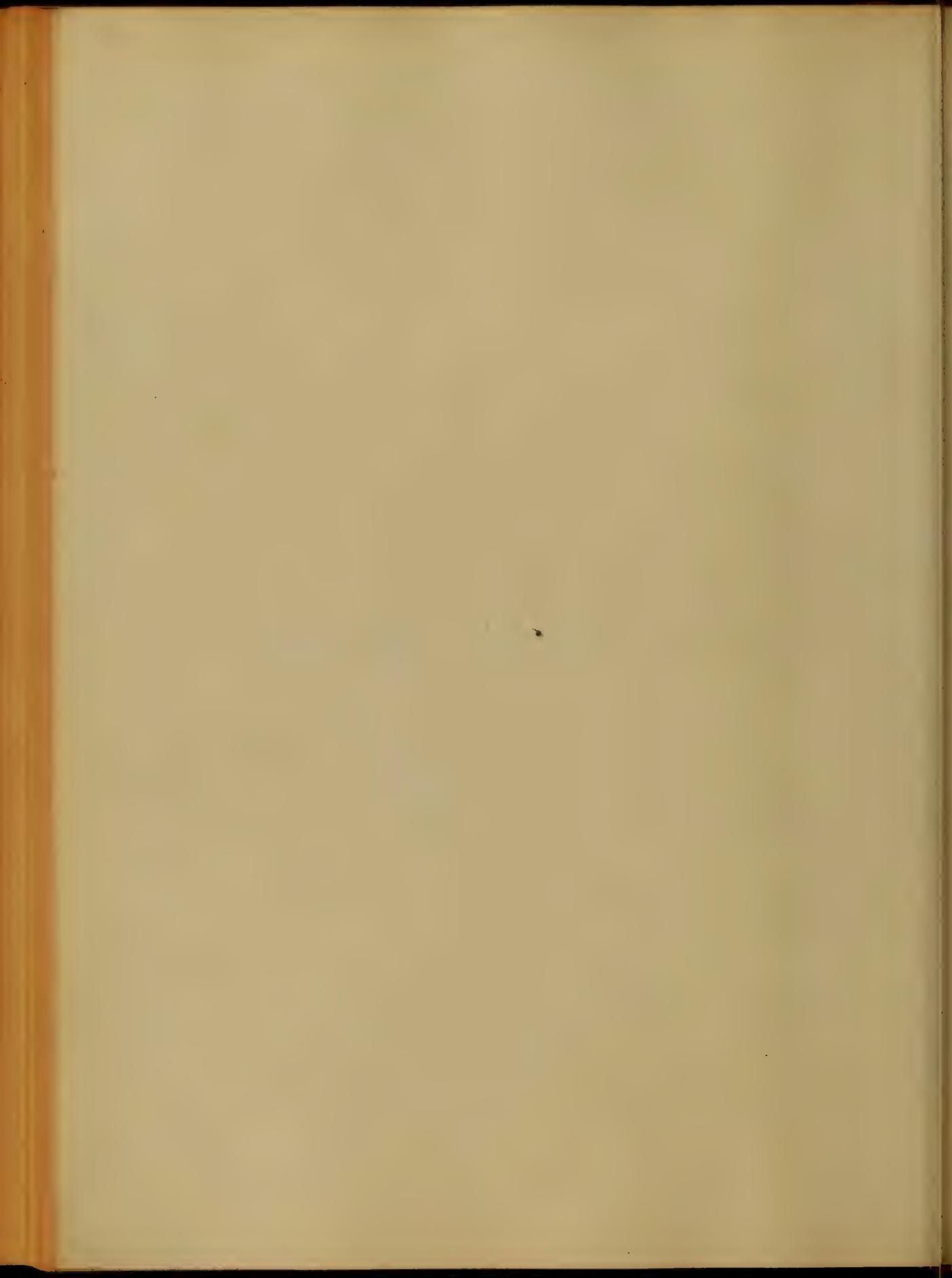
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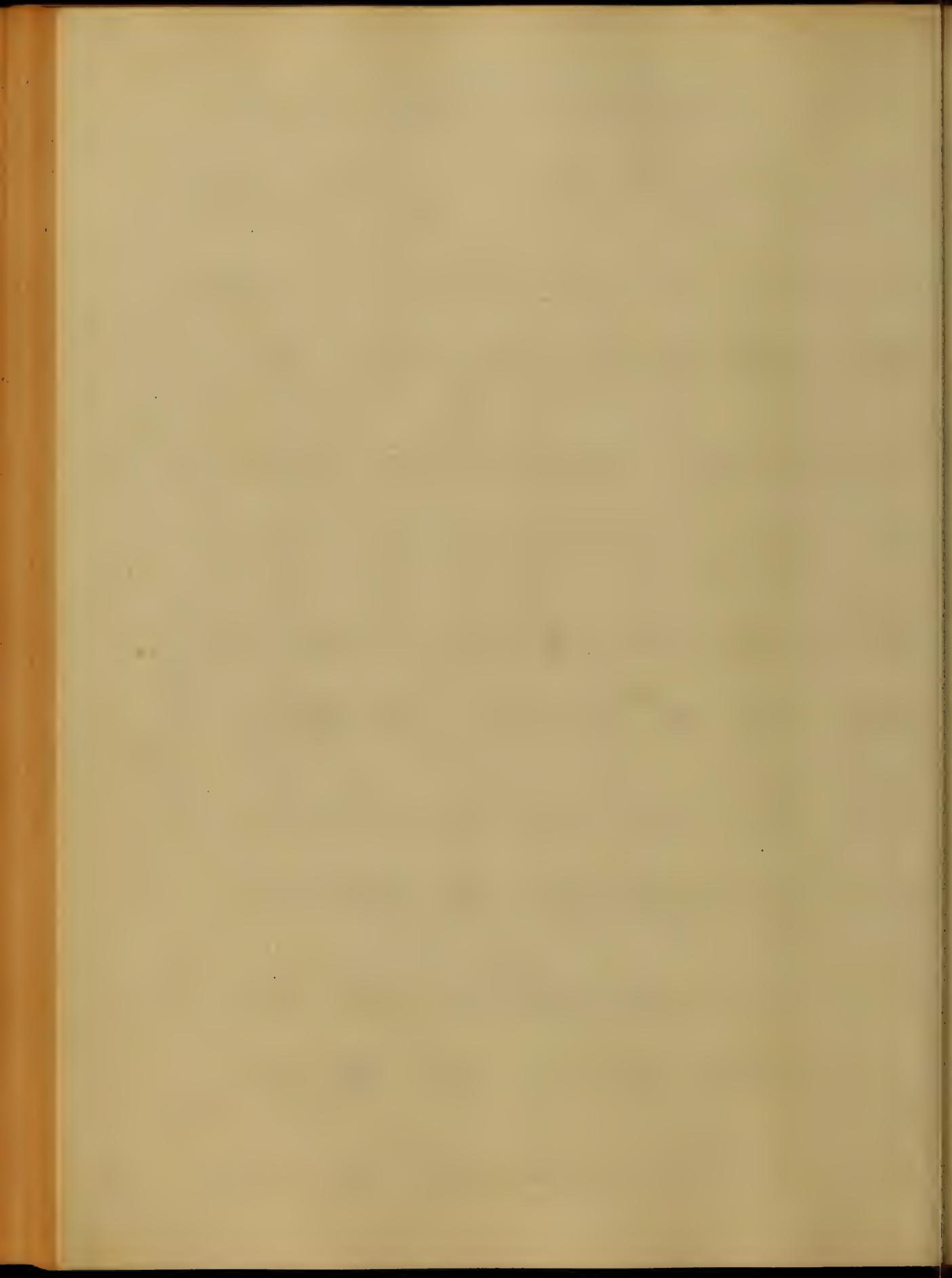




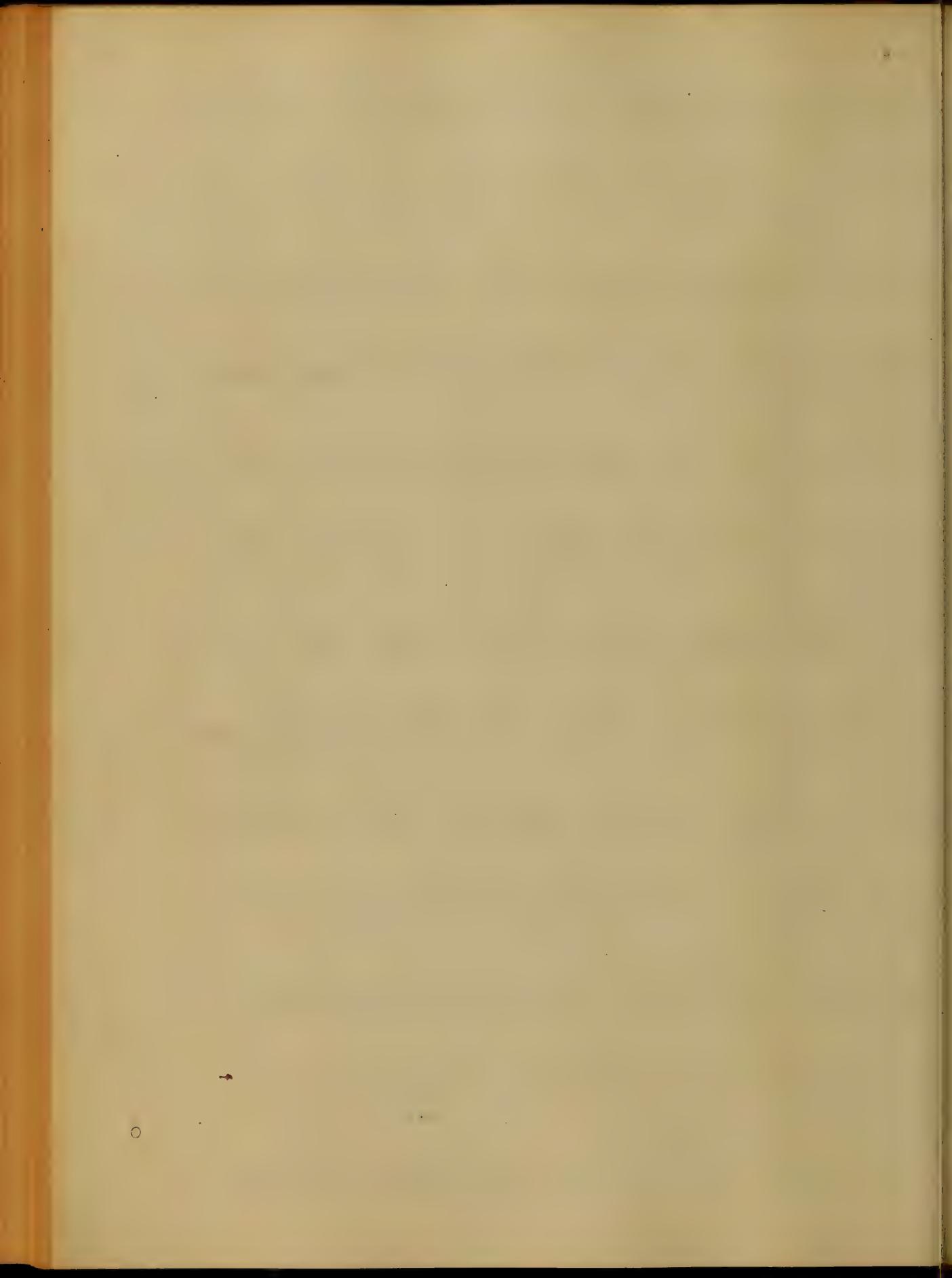


2

The strongest magnet which  
encircles the bosom of the young  
and even the staid physician, is  
that which enables him to-  
diate the suffering of mor-  
tal man, and kindle up  
the glowing flame of friend-  
ship in the hearts of those  
over whom a heavy curse  
he has diffused the soothing  
and healing effects of his  
grateful balm. The physician  
who has been busy for years in

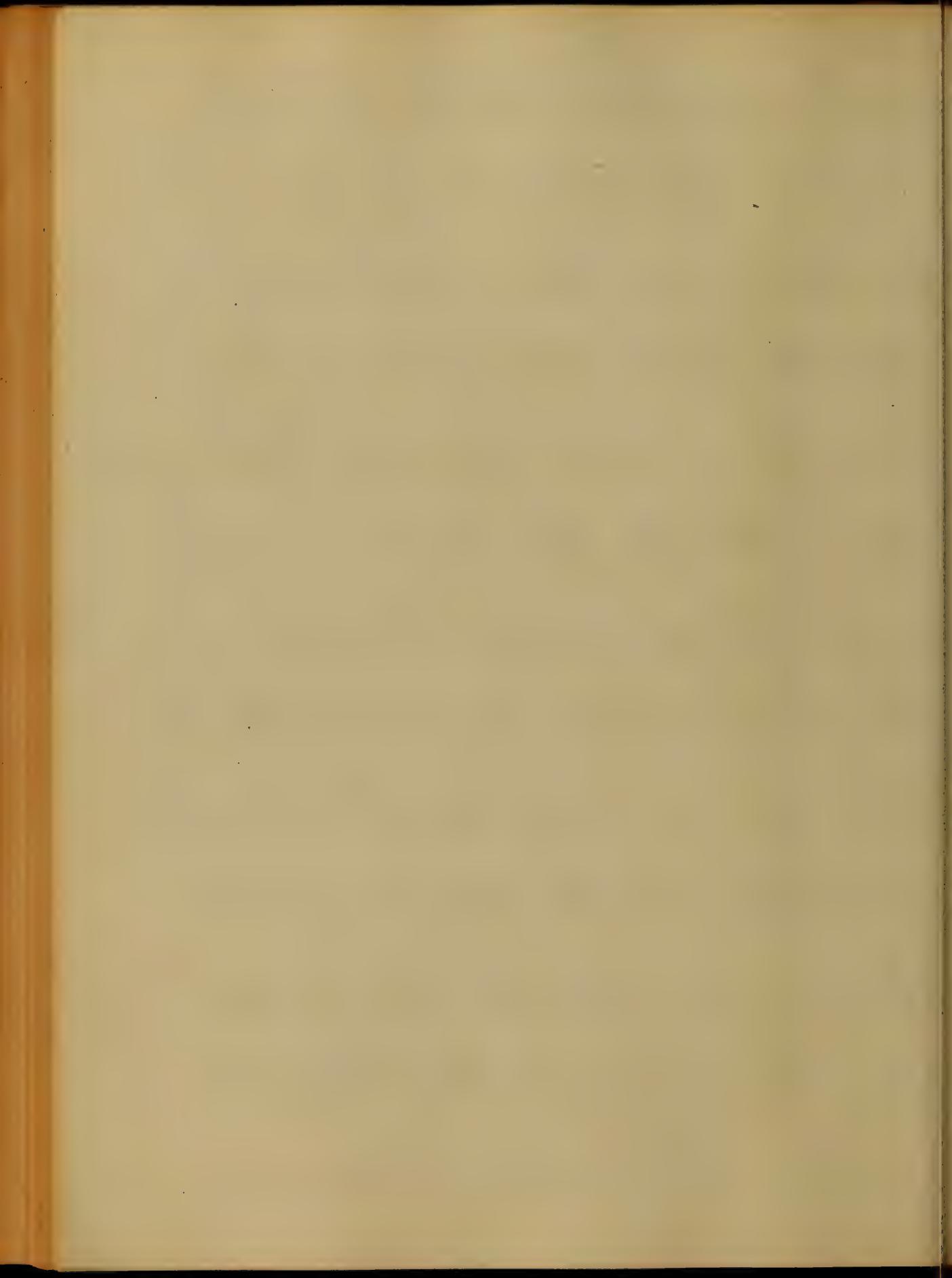


the work of his noble profession  
and who, if faithful to him, will  
most often examine and review  
the road over which he has trav-  
eled, and will observe, in the  
far distant future, when he  
has been crowned with the lau-  
rels of experience, the soothing  
and heavenly effects of foreca-  
sting; and it will rekindle the  
flame of pensive memory  
and cause him to return  
again to the wide spread fields

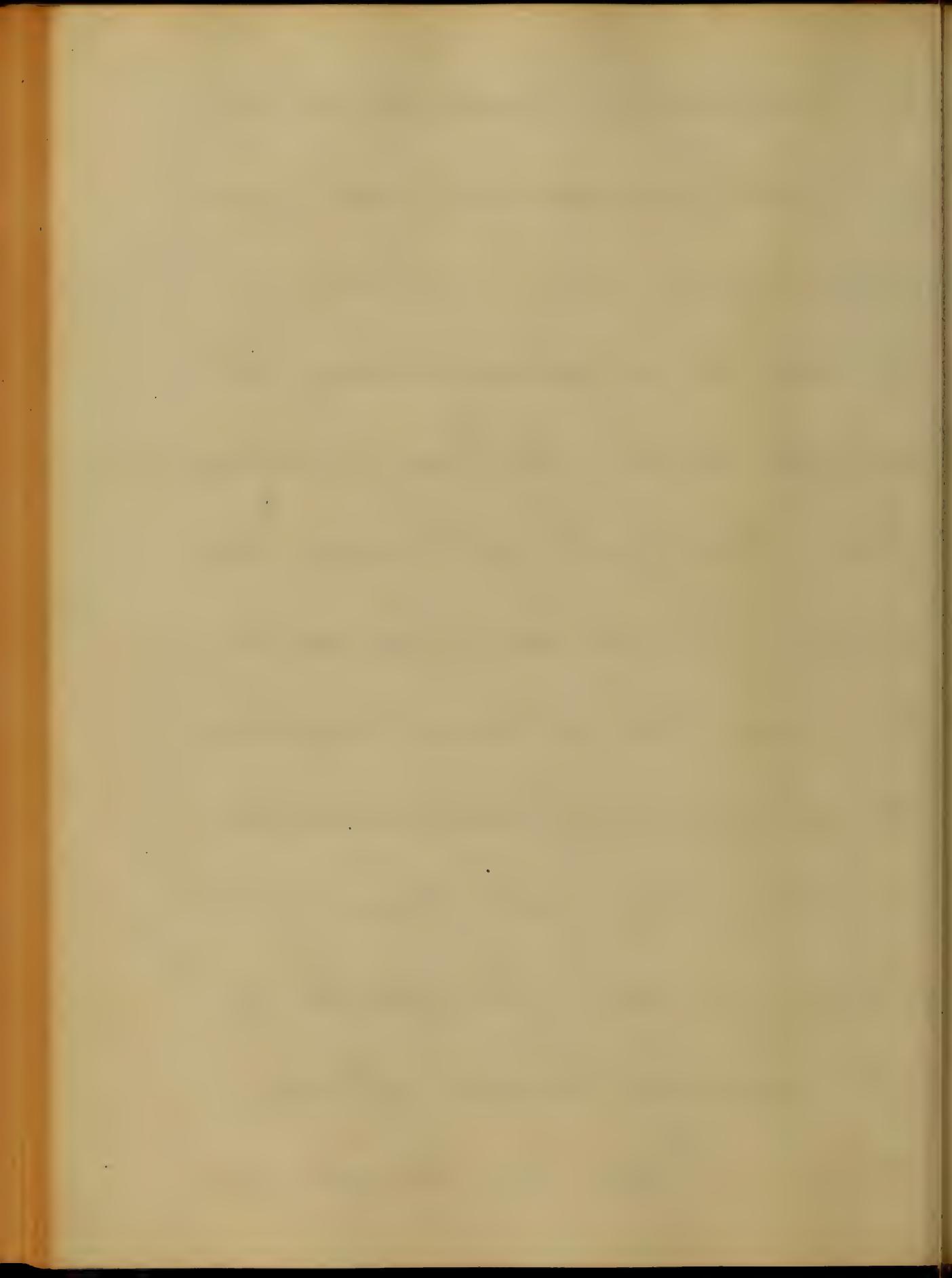


of the past upon which he has  
through the vicissitude of time  
portrayed in glorious tint and  
breathing his old sensations he  
has committed. Often, as he  
gazes through the feelings of  
sepulture years will be gone.

brightest joys blotted out  
his saddest sorrows. Such must  
ever doubtless be the case. When with  
feelings of mingled pride and  
joy. He witnesses the effects of  
openly his favorite song when

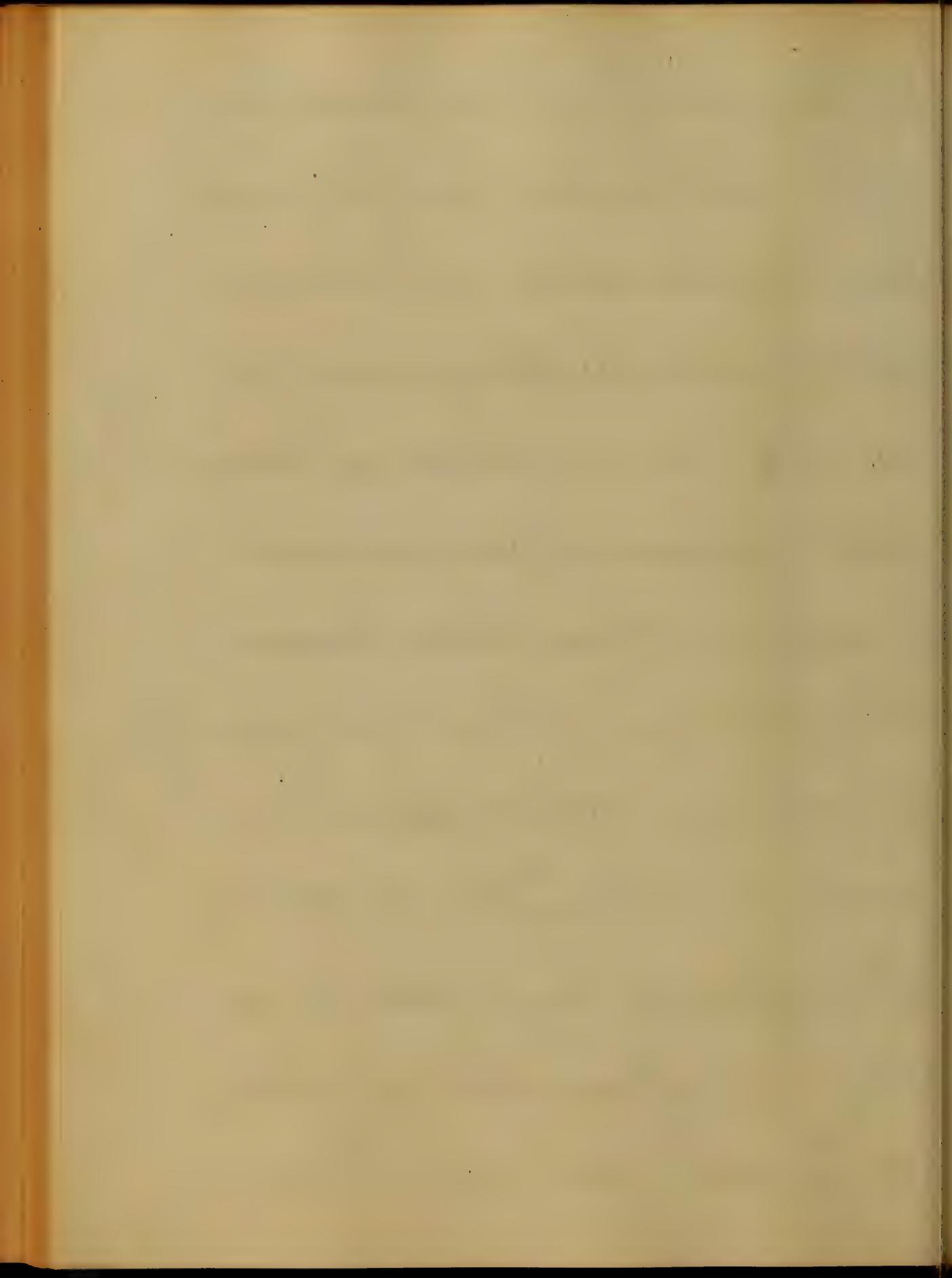


two different patients. In the one  
perhaps a deep and tranquil  
sleep ensues. pain is absent.  
The disease is checked, and the  
patient is on the road to recovery.  
But what of the other? alas how  
different a scene is presented.  
How well has it done its work.  
The unfortunate victim sleeps  
no more now, and his  
spirit takes its flight to  
the unseen world. "Surely  
then no one without an

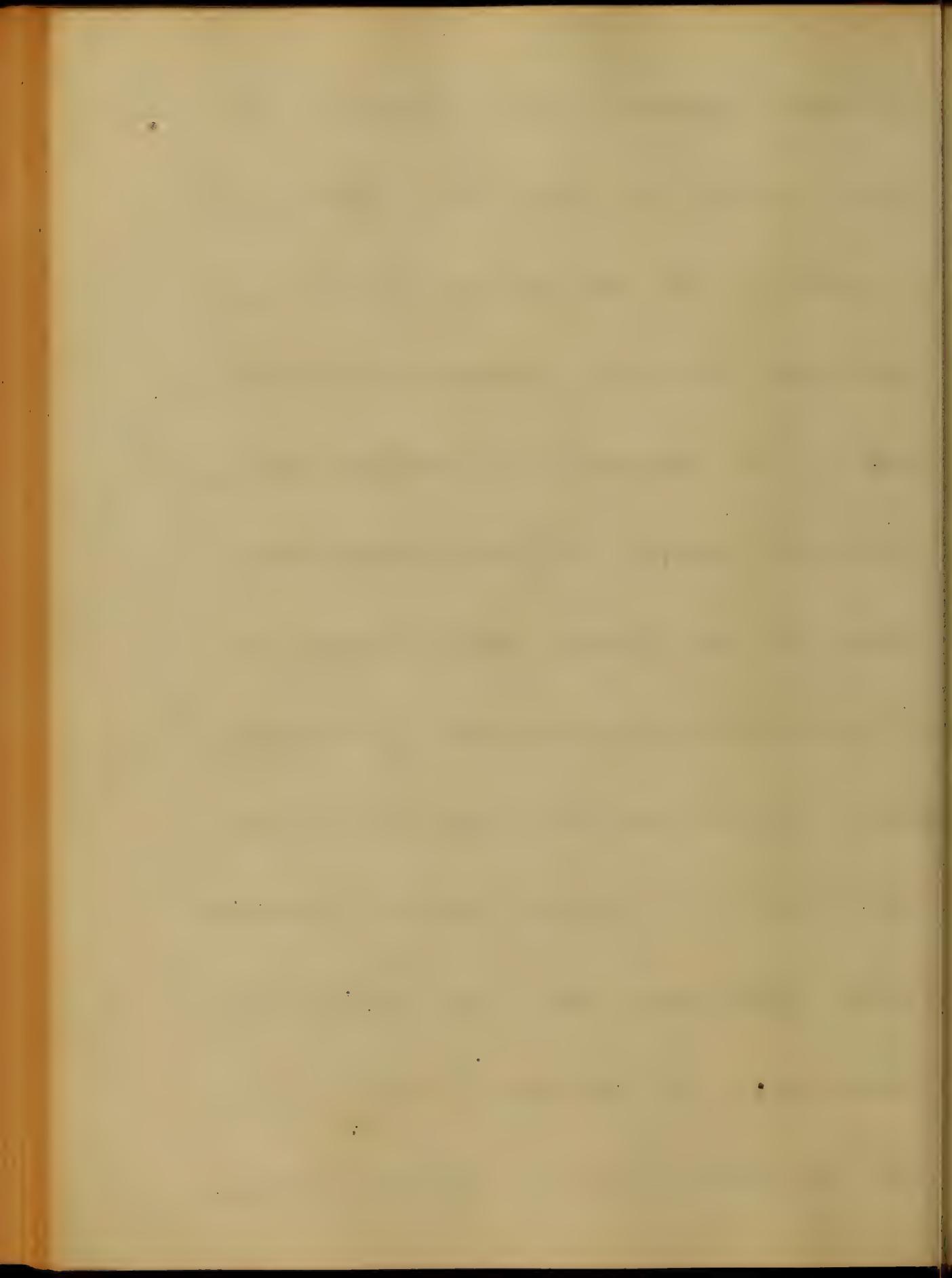


Ernest and adequate preparation  
will dare embark in a calling  
like this so certain of good if  
rightly used, so full of perils to  
ones self and to others if done in  
stupid ignorance or unfaith-

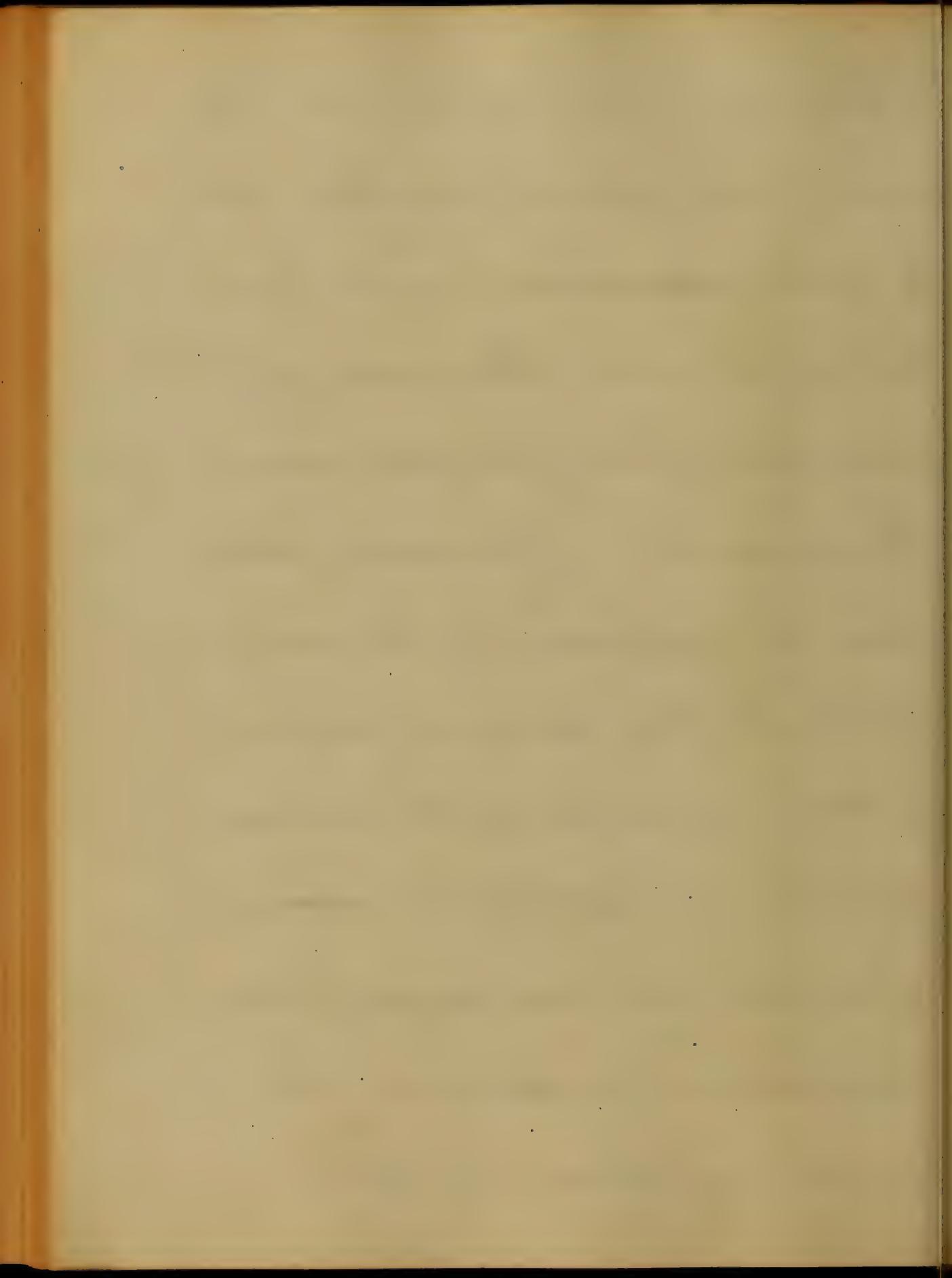
fully! There is perhaps no  
other field in the whole range  
of medicine which offers a  
more interesting <sup>feast</sup> for the mind  
of a diligent and aspiring  
student than that of Phar-  
macology. And from none have



greater good, more lasting be-  
nefit and a far the advan-  
tage of the cause of medicine,  
sprung. Materia Medica teaches  
us, no medicines where praise  
can be more lightly extolled  
nor do we find there any 2.  
exceed them in ends of cures  
tion, or have a consciousness by an  
unkindly hand. As it is impo-  
sible for any one in the first  
instance to perceive with even  
the slightest degree of precision

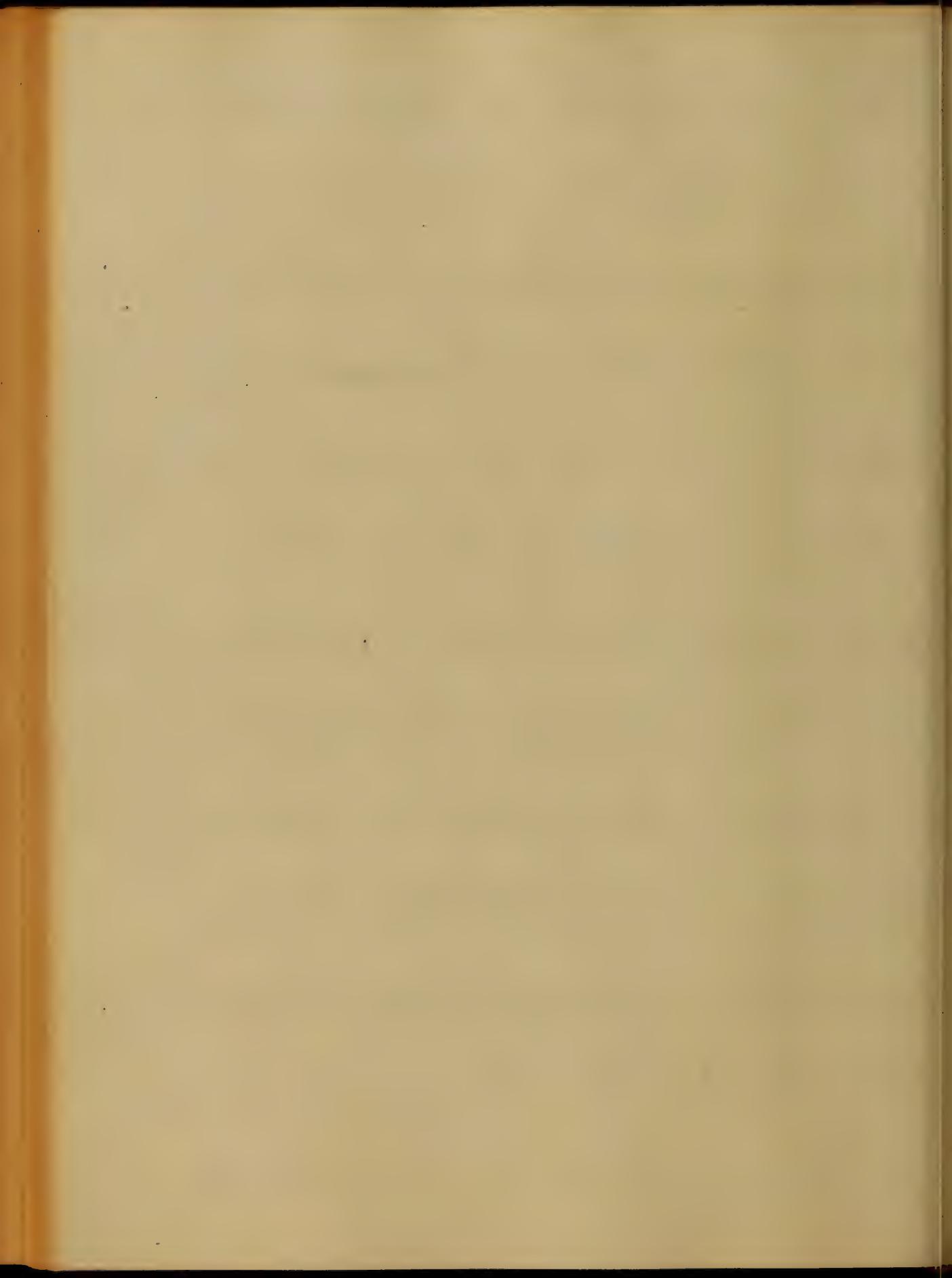


what will be the effects of any toxic  
agent by any other means, than that  
of direct experiment I must leave  
to others - the views of  
others, who have written upon  
this subject. Narcotics then  
may be defined as the medicines  
which at first produce some  
little excitement of the nervous  
system, in proportion - do no  
diminish nervous excitability  
and produce sleep, and in  
cases in which mind is



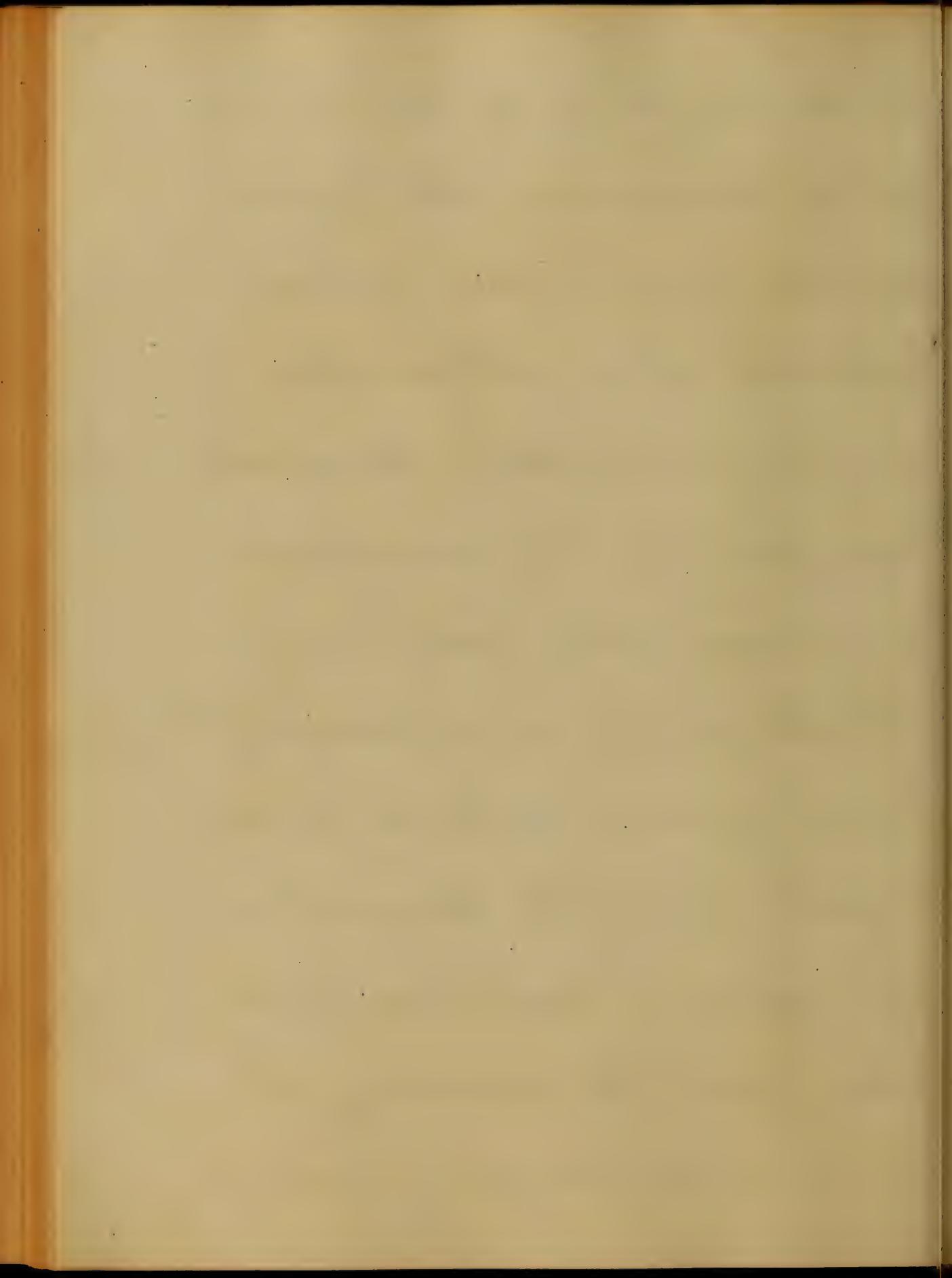
1

This definition, though subject  
to criticism, is one which we  
may employ because if it  
does not set forth every  
phenomenon in the action of  
a human being at the same time  
it conveys to the mind nothing  
erroneous and for this reason  
it may be accepted till the  
full development of knowl-  
edge can suggest one more con-  
clusive. It has been a most  
glorious and an exciting peri-



of inquiry as to the manner  
which nervous and chemi-  
strial effects. Very many  
different theories have been  
proposed, to explain the mystery,  
and facts have been adduced  
to support them all.

Whether they find action upon the  
nerves distributed to the various  
membranes of the stomach, and  
the impression conveyed from  
them along the trunk of the  
nerves to the great nervous



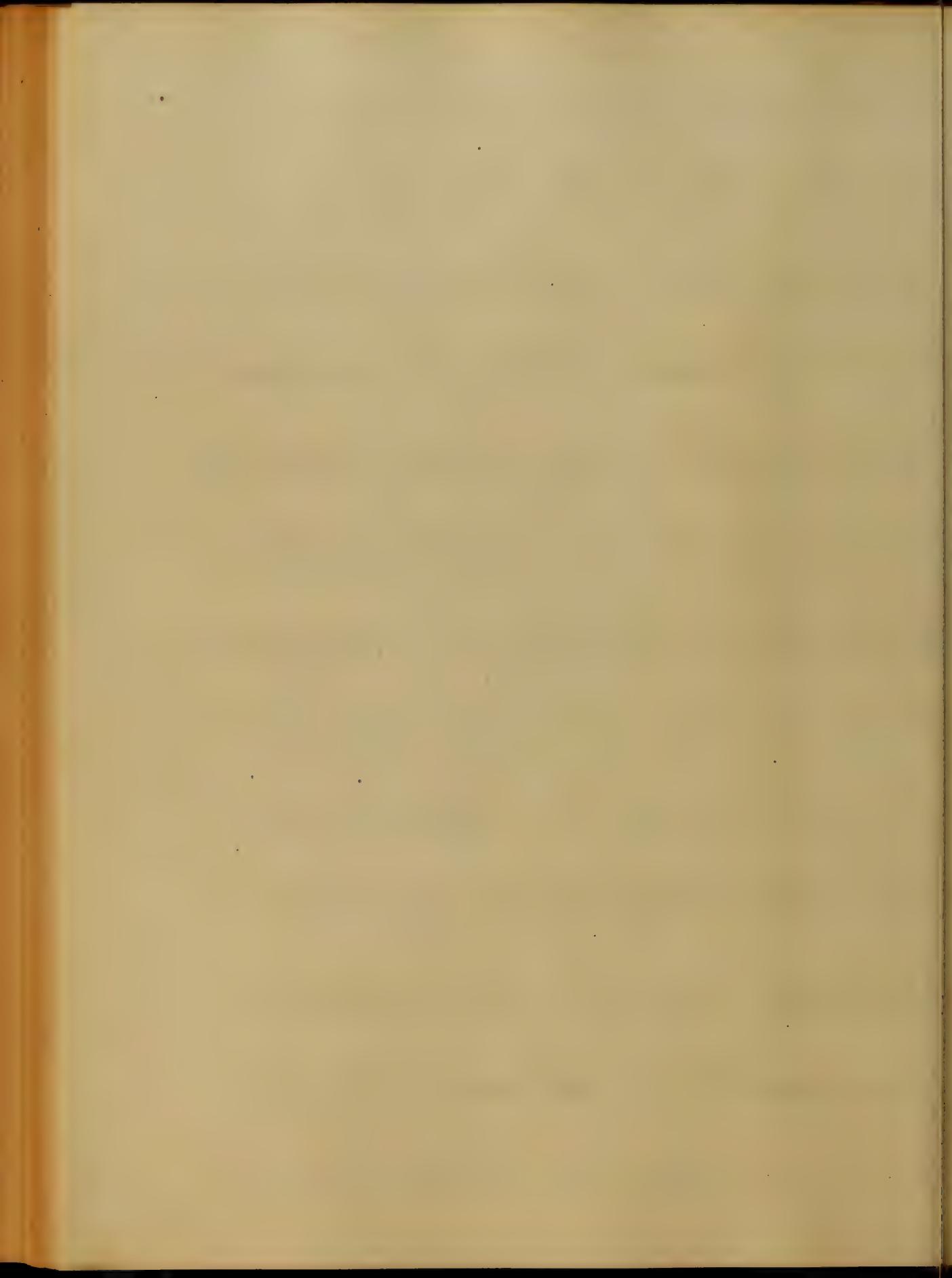
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centres, or whether they do not enter  
into the blood vessels, and make an  
impression on the ~~arteries~~ distributed  
along the inner coats of the vessel,  
or whether they must not in every  
case enter the current of the circula-  
tion, and by this account be con-  
veyed to the great nervous centres.  
is a question which has engaged  
the attention of the medical pro-  
fession for some time past, and  
even now there are many who  
will not be reconciled to the most

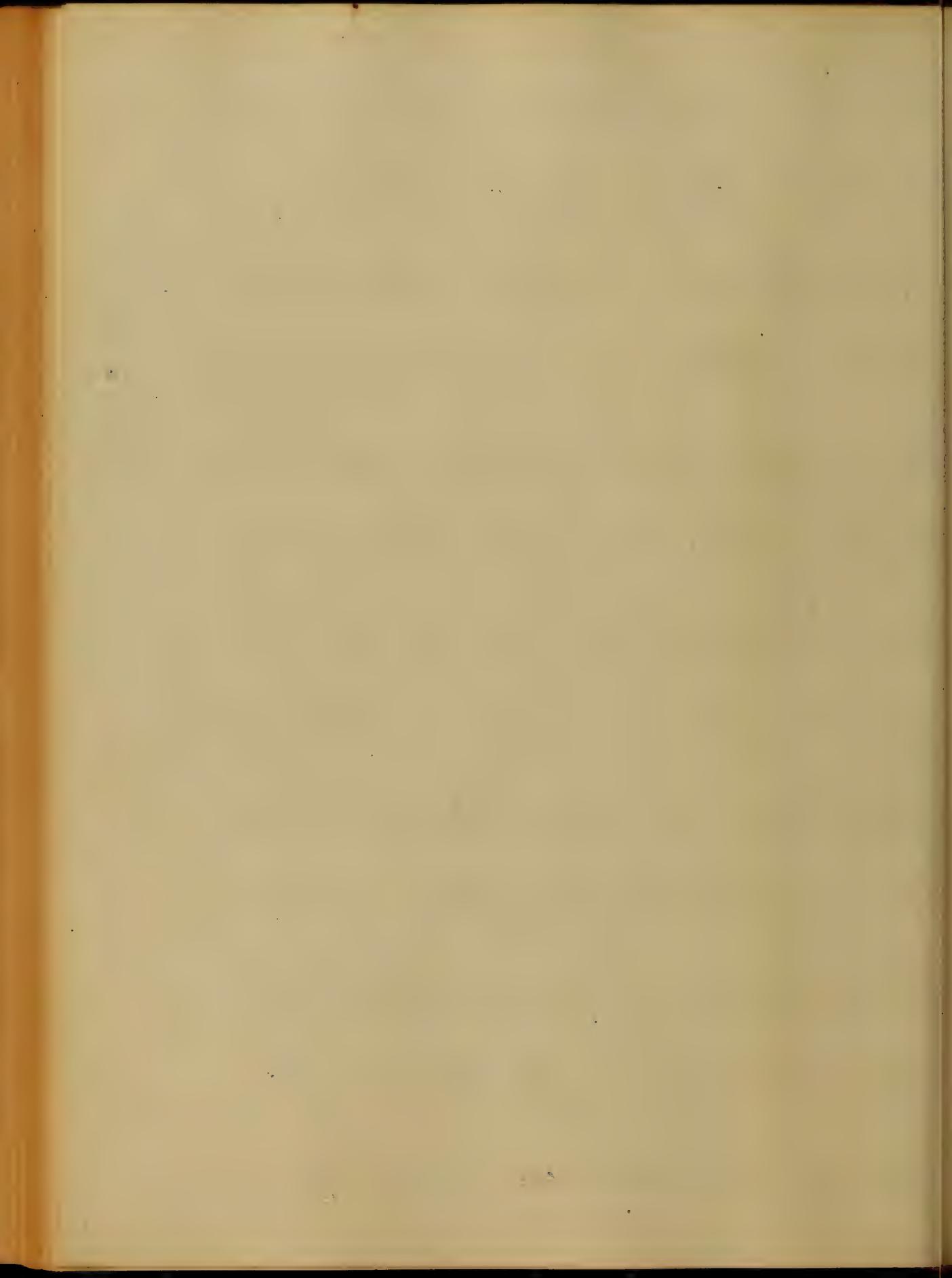


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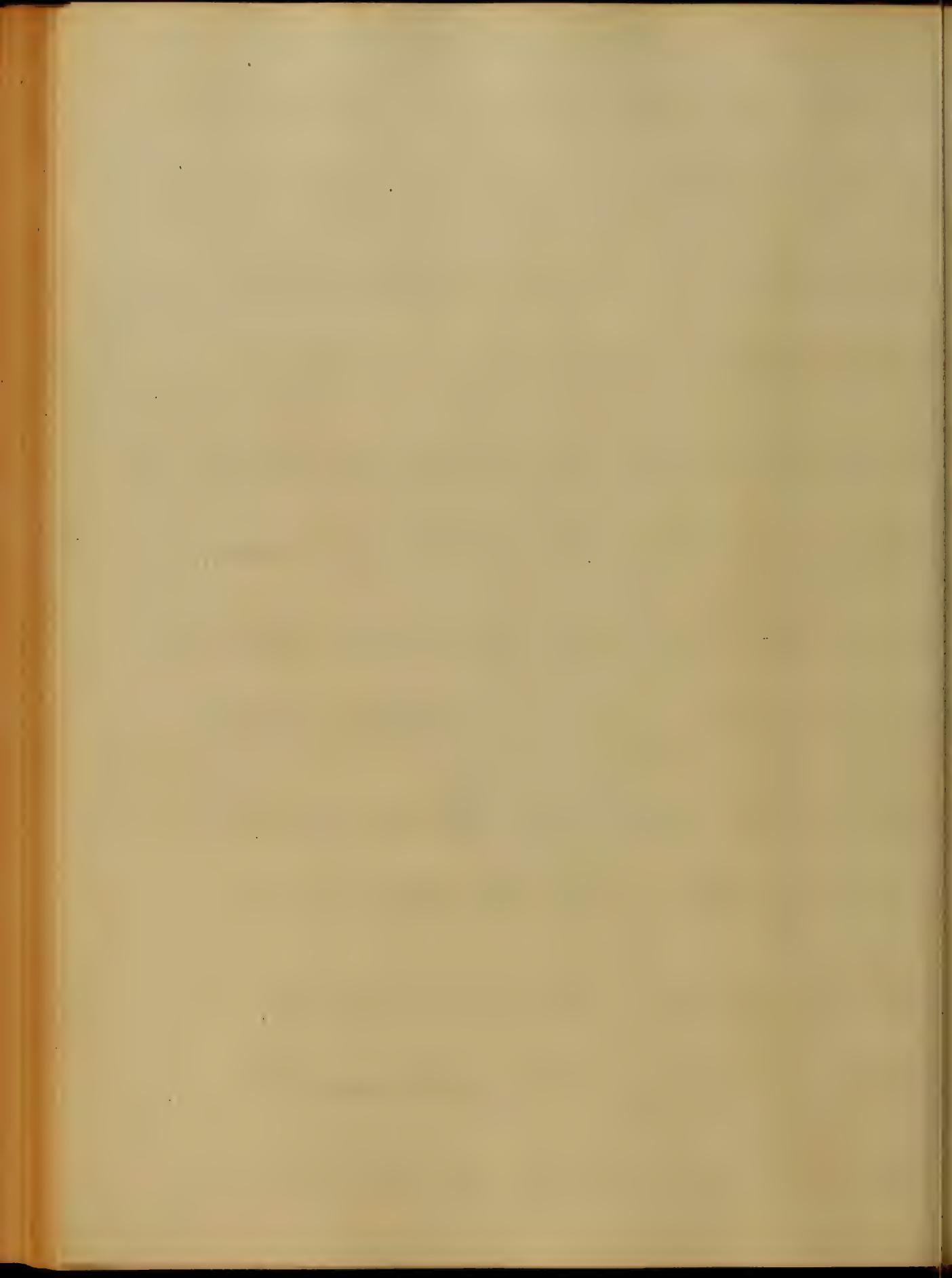
tenable explanation of this seeming  
mystery. Those who favor the first  
mode of action, adduce as an argu-  
ment in support of them, the great ra-  
pidity with which certain corrective  
agents make their own effects.  
But recent physiological experiments  
have demonstrated this theory to  
be invalid, for it is now known  
that the whole round of the cir-  
culation can be accomplished  
in less than the one half of  
a minute and it is hardly prob-



all taking up a day or two  
under consideration, can affect  
the system in a time much shorter  
than this. As to the second part  
of action - may be an impression  
made on the nervous distribution  
to the upper parts of the head  
would do this more directly  
and so not to demand a  
moment's consideration. Then  
I will be called by night or after  
the command. At the present  
day, however, a very large majority

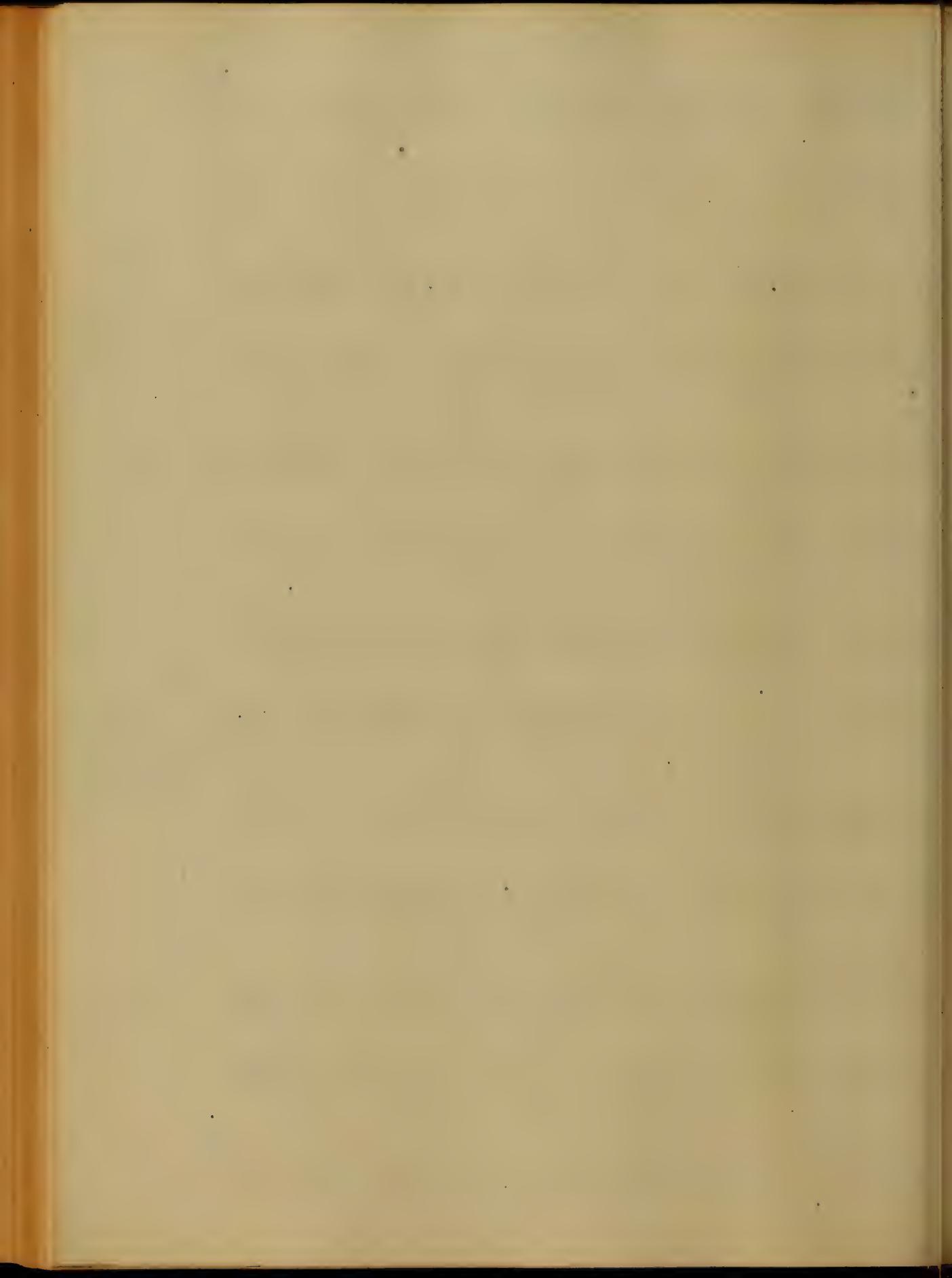


of the medical profession an old  
opinion that the power of the cir-  
culation is <sup>the</sup> means by which the ner-  
vative effect is disseminated, that is  
to say, conveyed to the nervous centres.  
This is conclusively shown by numer-  
ous experiments on the lower orders  
of animals, some of which it may  
be well to mention. Magendie has  
shown that all the times in  
the leg of an animal may be  
severed except the principal  
vessels and nerves, if now the

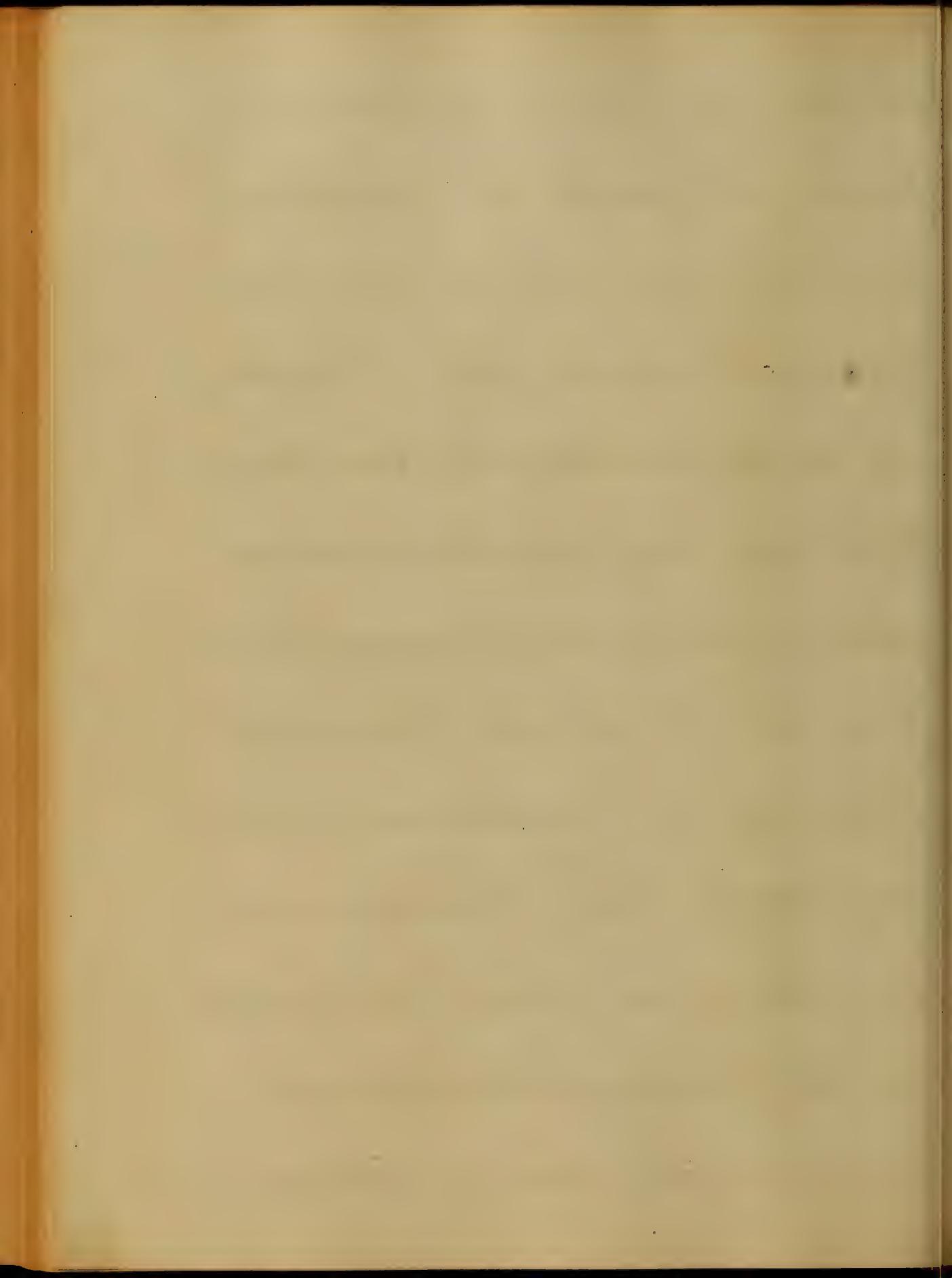


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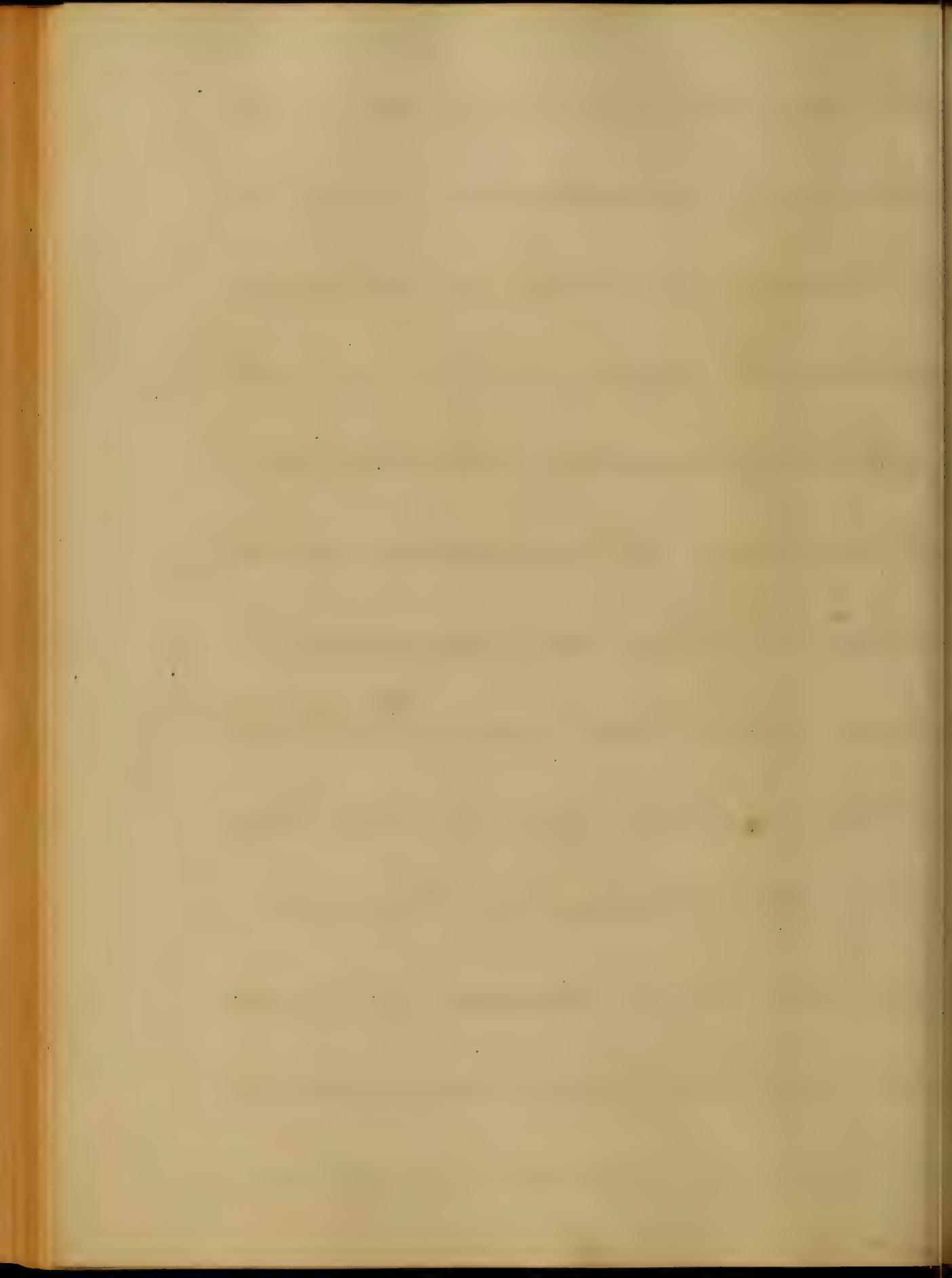
would compress the vessels and  
introduce some poison with the  
extremity of the limb, no effects  
whatever were apparent but just  
as soon as pressure was taken  
off the poisonous effect was  
immediately manifest and thus  
fully demonstrating the point  
in question. We also know of  
cases where a child at the breast  
has been poisoned by the mother  
taking a dose of opium. We  
can also detect it in the breast.



it gets dissolved & passes off  
opium acts much more speedily,  
than the solid form, moreover it  
proves to some thing. Finally,  
if applied externally to a nerve  
where they cannot be absorbed  
they produce no effect what-  
ever on the brain. Moreover in  
cases of opiate poisoning of opium  
even when ten lbs have been no-  
vocated may not be found  
in the stomach. They, notwithstanding,  
are absorbed. Having spoken of



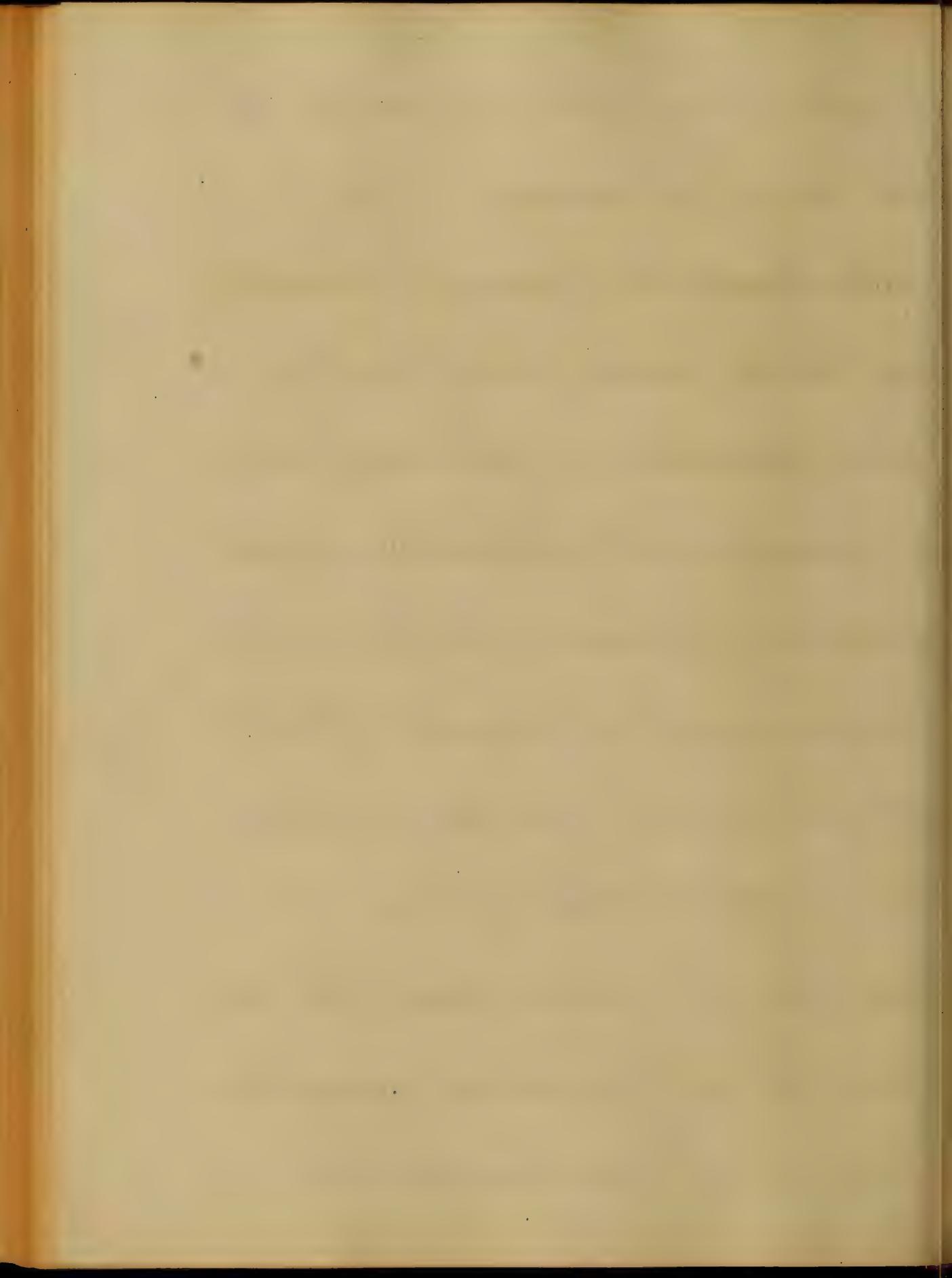
the manner in which Narcotics  
exert their constitutional effects.  
it would be well in the next  
place to enquire what - the  
effects of Narcotics on the system:  
What train of symptoms do we  
observe when an appropriate  
dose of a Narcotic has been  
administered? or we may say  
any dose however large or  
small. As a matter of course  
the different symptoms presented  
will vary according to a



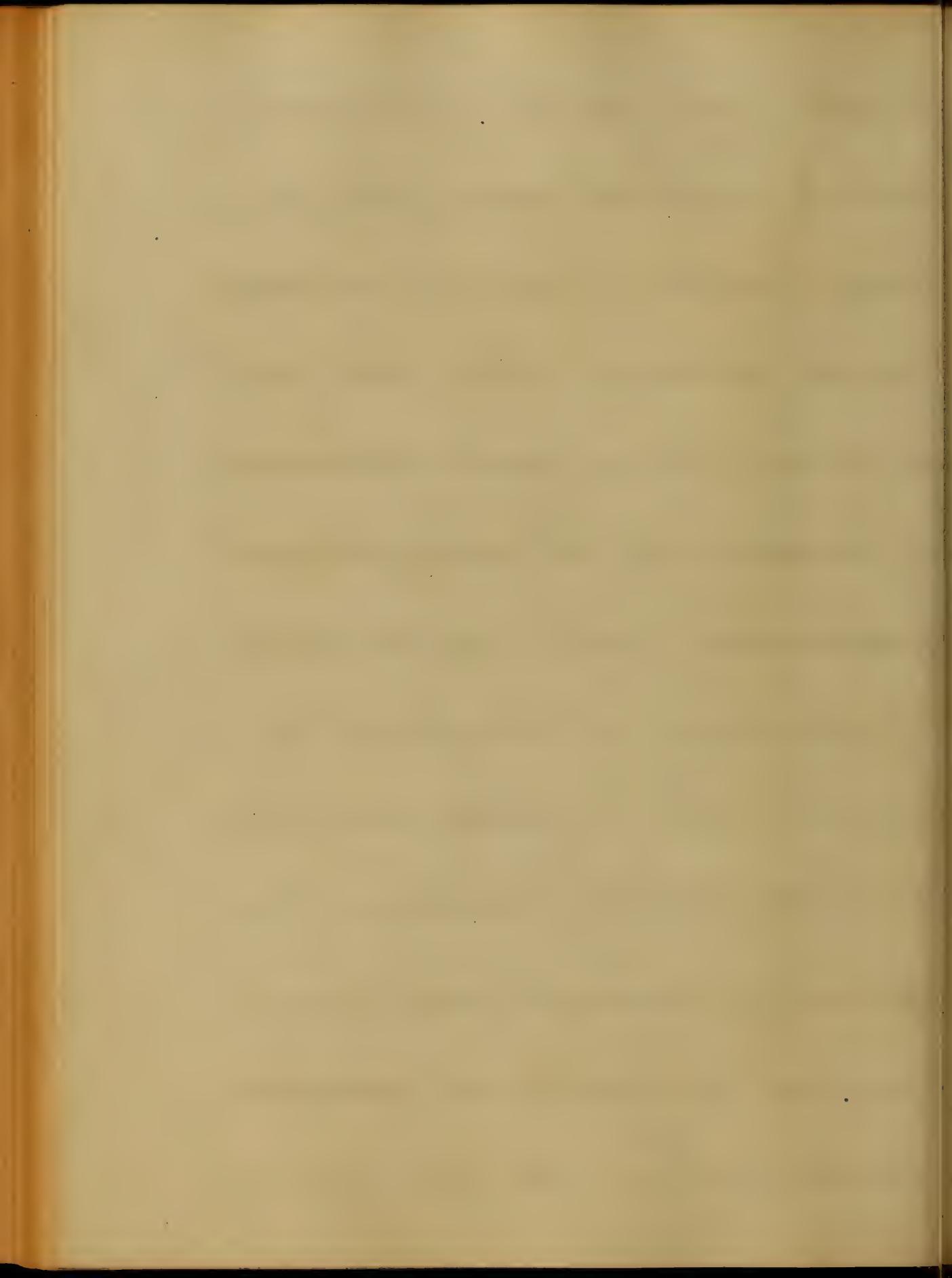
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large or small quantity of  
the drug is used.

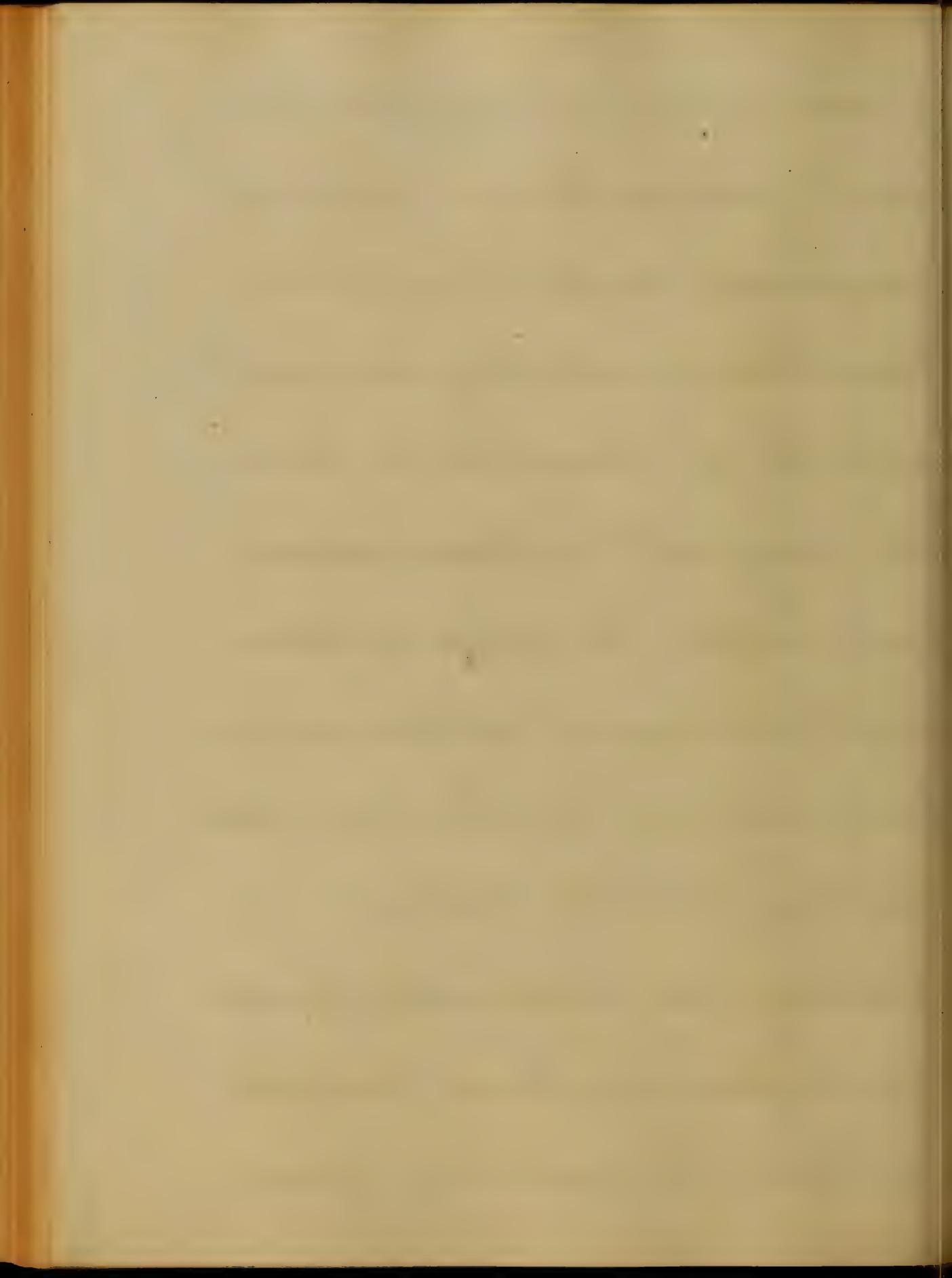
Perhaps it would be well  
in order fully to elucidate  
this portion of the subject.  
to confine the attention, exclu-  
sively to Opium which is the  
most important agent of the  
class under consideration,  
and whose effects and action  
are for the most part the same  
as those of Morcotic's generally.  
Upon the administration of



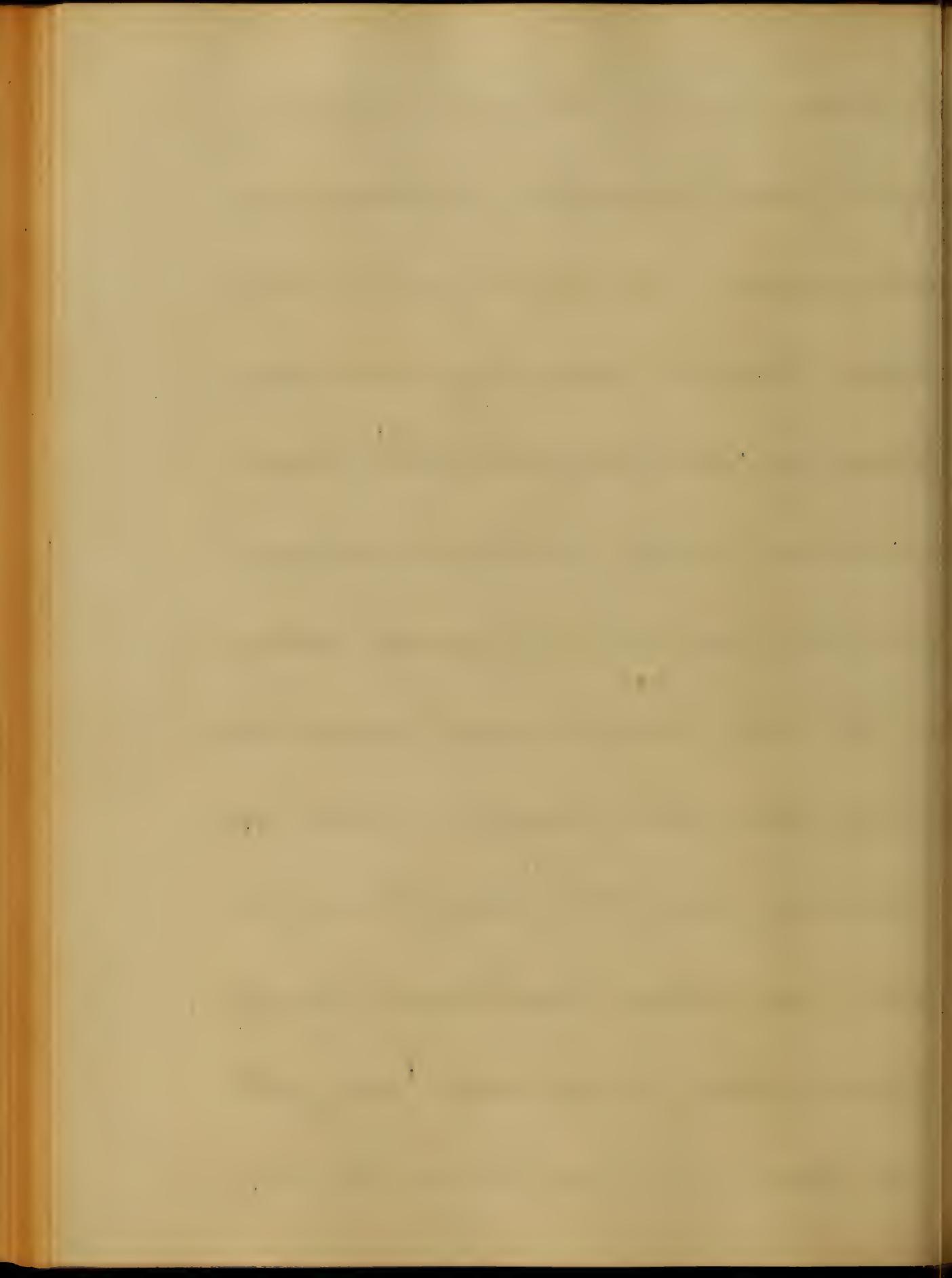
a full course of opium does not  
scarcely at first apprehension save  
only a slight feeling of warmth  
in the stomach. This lasts only  
a short time, and its intensity  
is measured by the strength of the  
preparation. Next a slight feeling  
of fullness is manifested in  
the head. Then a little nervous ex-  
citement which is followed by a  
period of most delicious ease &  
comfort. It warms the drooping  
spirit of him who has a life of



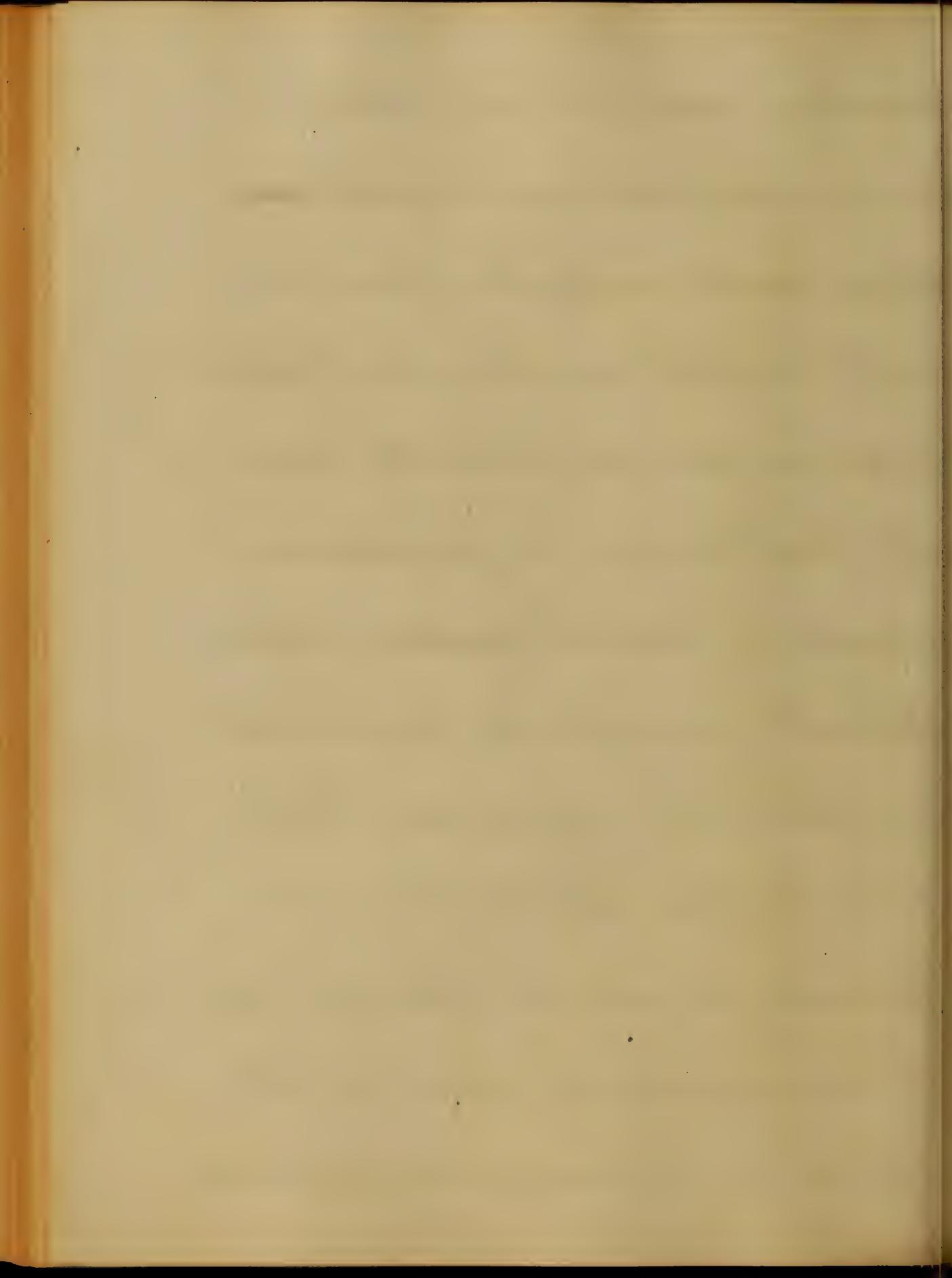
sorrow and grief. Then kindles  
up a glowing flame of love and  
emulation, exalts the whole  
moral nature of man, and causes  
a spirit of friendship to pervade  
the mind of the happy subject;  
and incited by noble motives  
he feels a desire to do great and  
noble things. Not like the insidious  
effect of Alcohol, it exalts the  
mental and intellectual faculties  
to a higher degree than is consistent  
with the ordinary state of the mind.



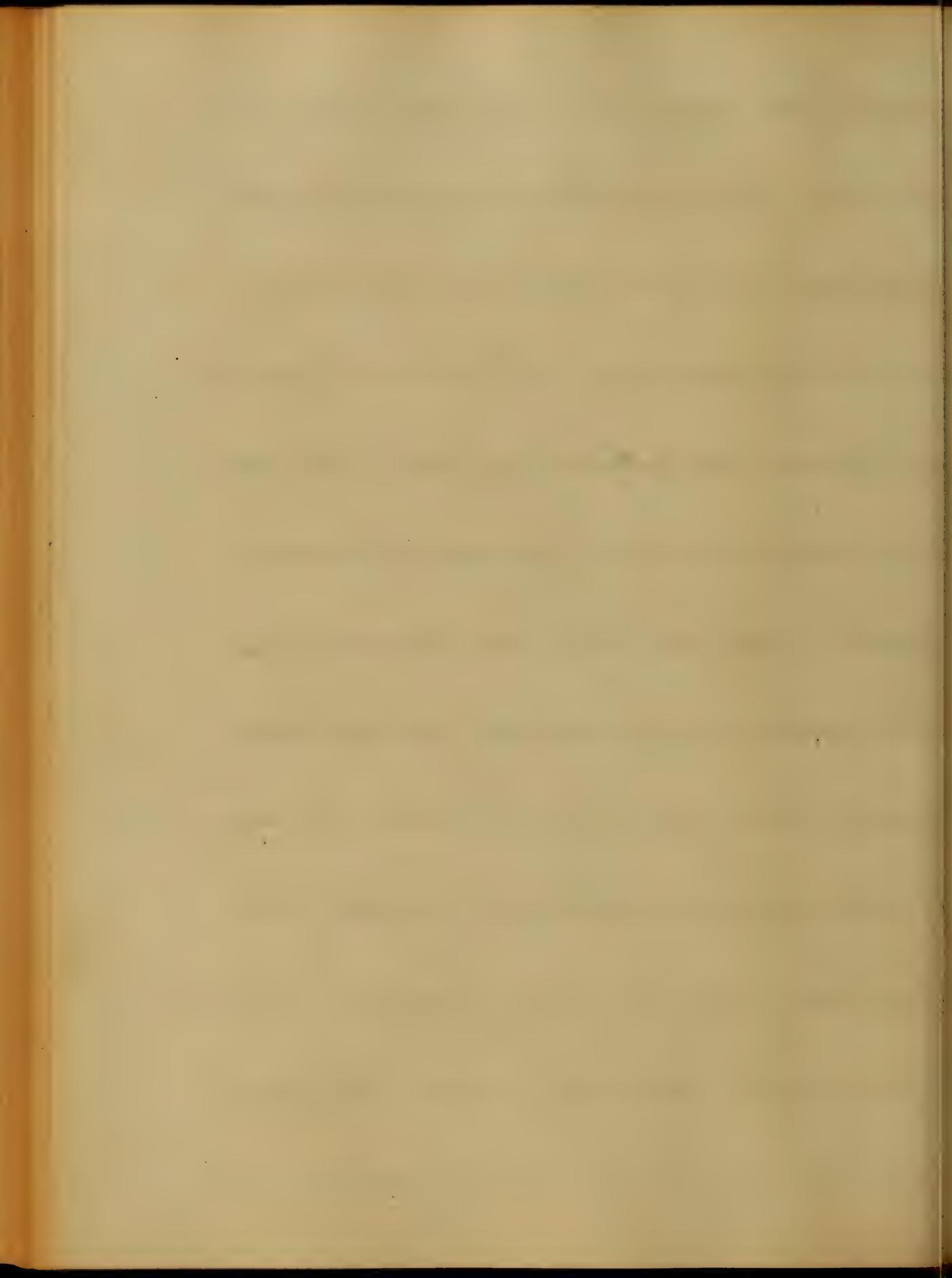
It awakens the sleeping slumber  
of the poet heightens his powers of  
imagination. and removes him in  
that blessed cloud of ease and  
comfort which enables him more  
easily to invent the music and revel  
in the domain of fancy. Along  
with this mental and moral eleva-  
tion. muscular energy is also in-  
creased and the hours less of  
life are borne with much less fati-  
gue. After a variable length  
of time the pleasant feelings



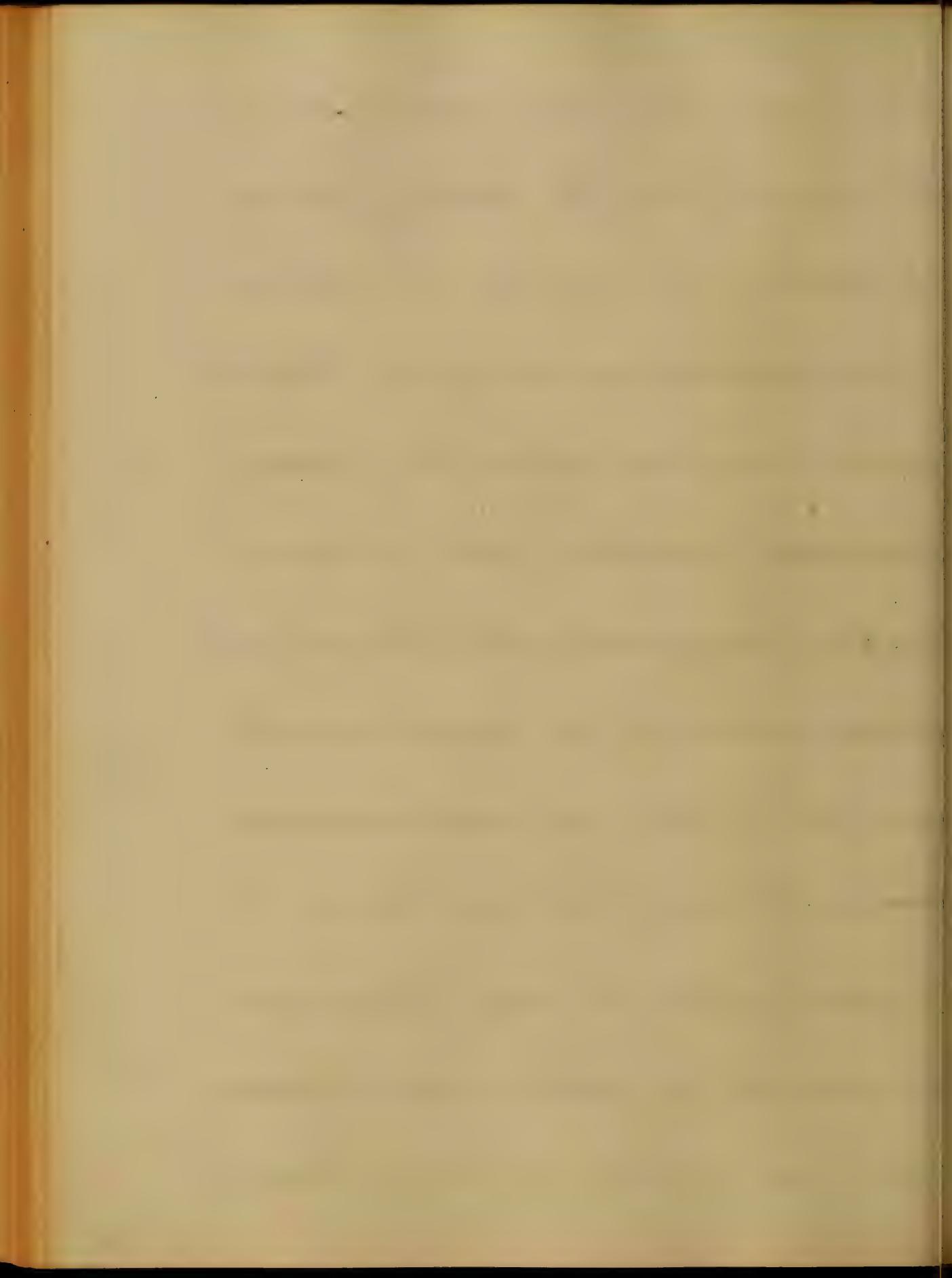
subside, and then the dose being  
sufficiently deep and refreshing  
sleep ensues. If the dose is not  
sufficiently large, the patient often  
lays awake for hours. The sleep,  
if there be any, is not at all  
refreshing, and the patient is troubl-  
ed with all kinds of vague and hazy  
illusions and vague and horrid  
dreams. When such is the case,  
the dose should be repeated till  
the mind sleep is produced. The  
sensibility is diminished to a certain



degree, the special senses are also in-  
volved, but perhaps only in the  
influence of large doses. Finally  
we have stupor which is the result  
of opium in excess in doses. The pa-  
tent lies in a sort of comatose con-  
dition, the pupils are contracted,  
the respiration and the pulse slow  
and feeble. Such is a state of nar-  
cotic poisoning, and unless the  
proper remedies be applied it will  
in some close the scene. The pa-  
tency, force and fullness of the

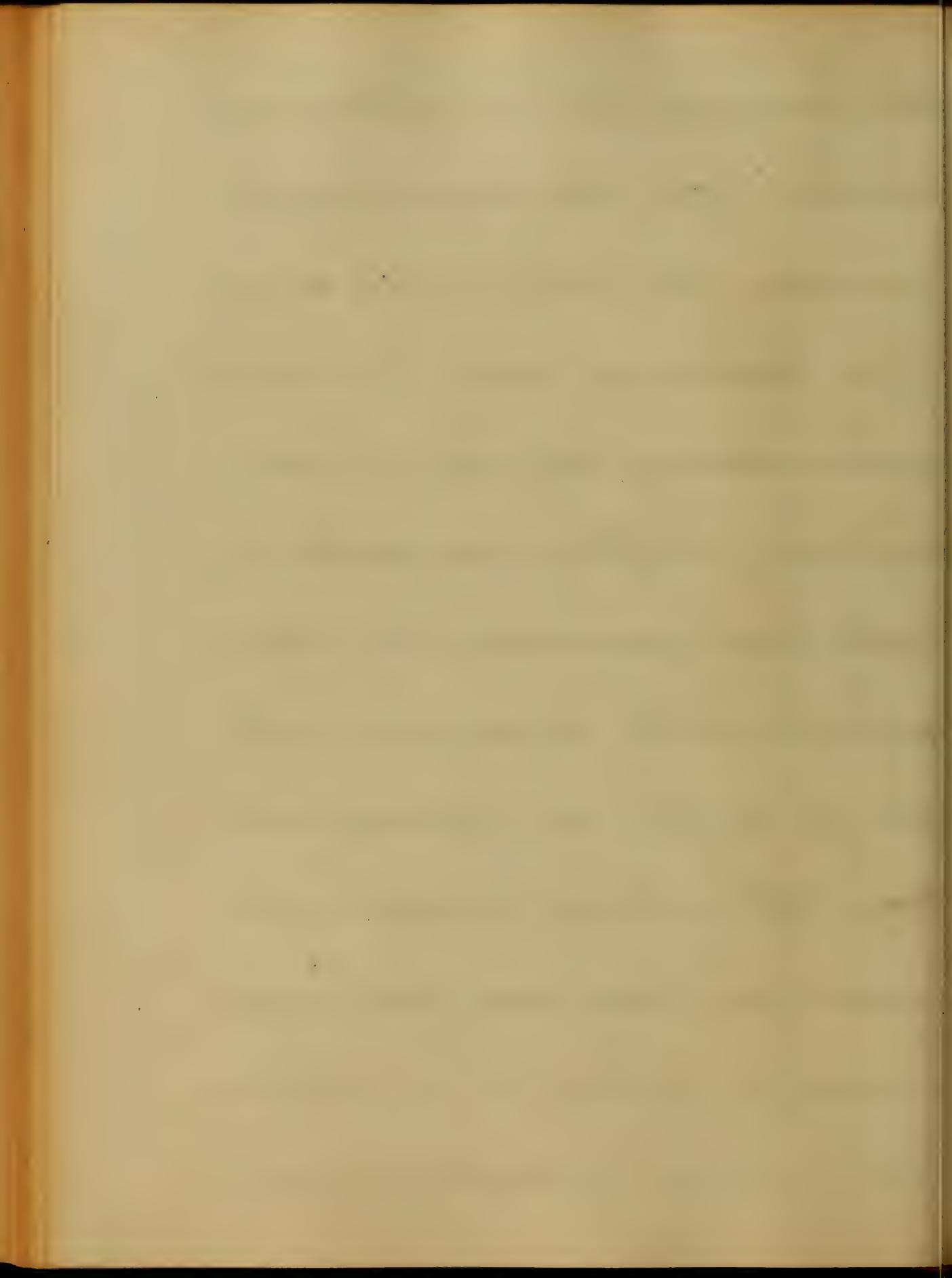


pulse is increased? Any man is in  
the 1st stage of the action of poison.  
A slight increase of warmth and  
reddness is also a symptom, but this  
for a short time returns to florid  
heat, and generally during a stage  
of excitement gives a bright color with  
conspicuous. So long as the pulse  
increases, the respiration increases  
proportionately, and vice versa. Con-  
sequently after the stage of excitement  
is over, the pulse begins to appear  
slower and slower or even - & becomes

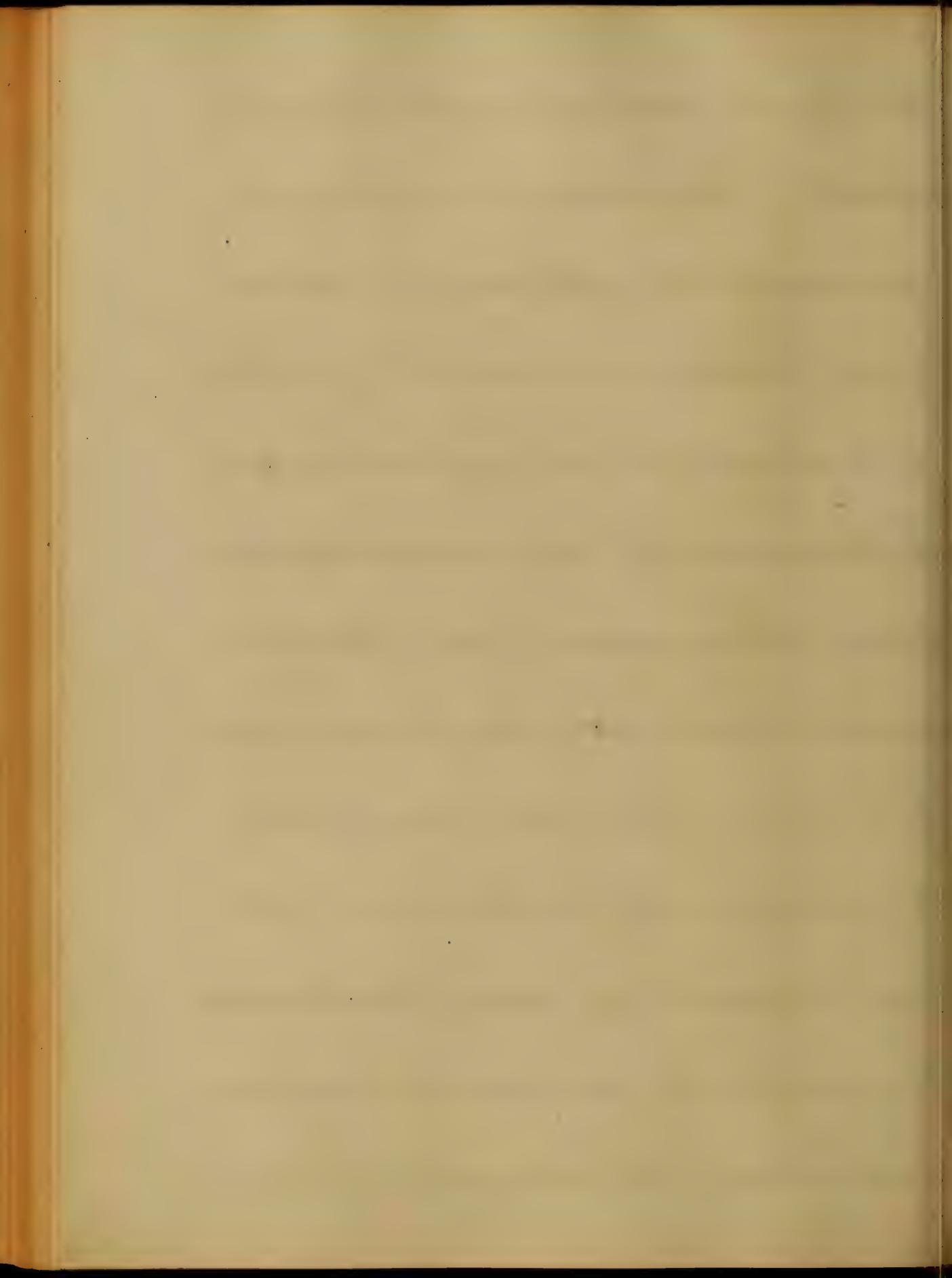


the respirations will increase in  
the same ratio. The superficially an-  
alizing the blood. Such does  
it to assume a darker hue and  
gives a various tint to the skin  
especially the face and prolabium.

A great revolution has taken  
place recently in respect to the  
use of opium in acute inflammations.  
It being an aromatic stimu-  
lant was used very cautiously  
under the apprehension that in  
being the case its influence upon

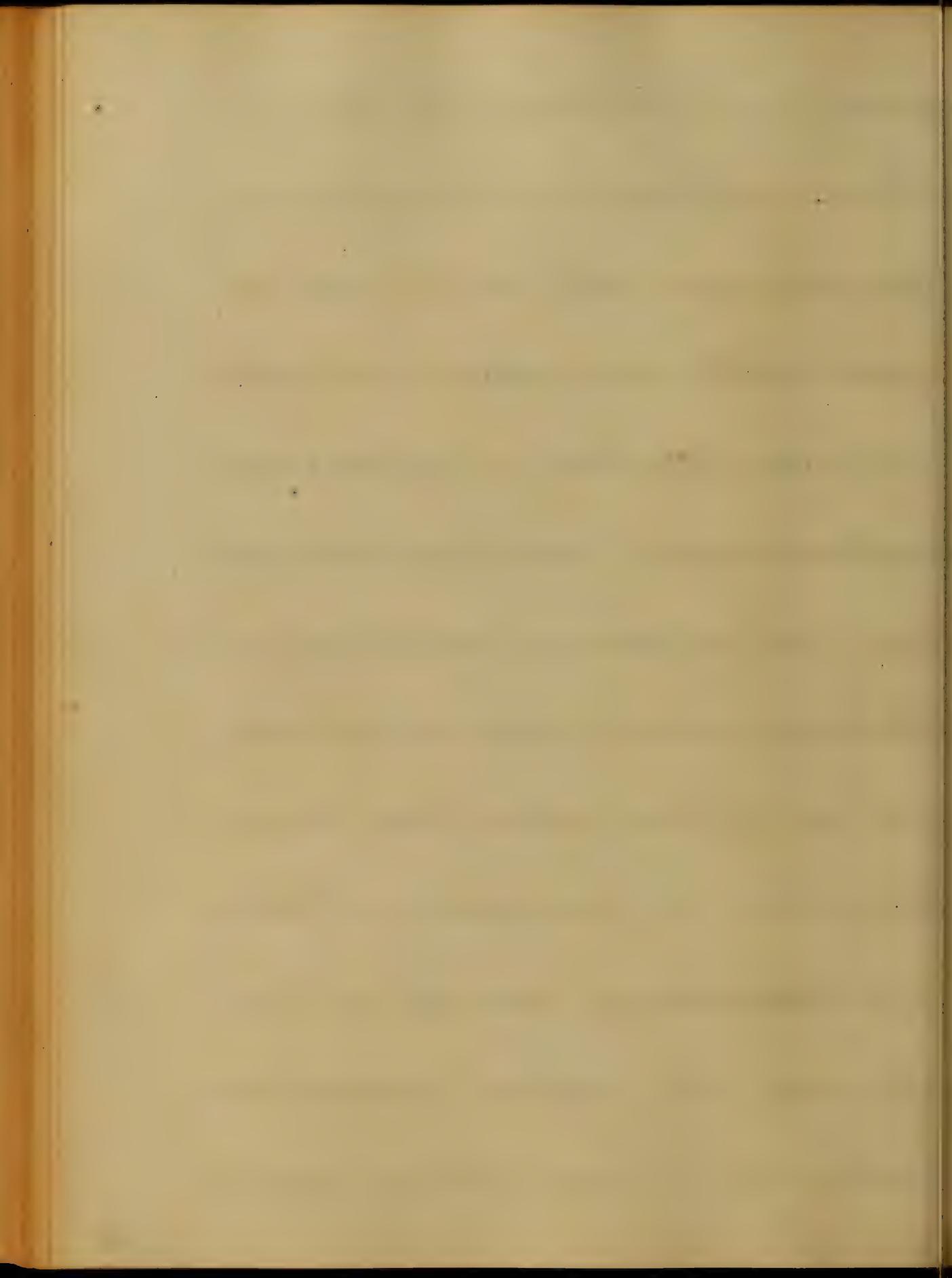


The local disease must be unfavourable. But clinical experience, and some pathological results have demonstrated beyond doubt that it is a very excellent remedy in the treatment of inflammatory affections wherever situated. It is valuable, not only as a palliative, but as a curative remedy. Its palliative effect, of course, is apparent to any one, and we can also to some extent explain its curative influence. By releasing pain, it



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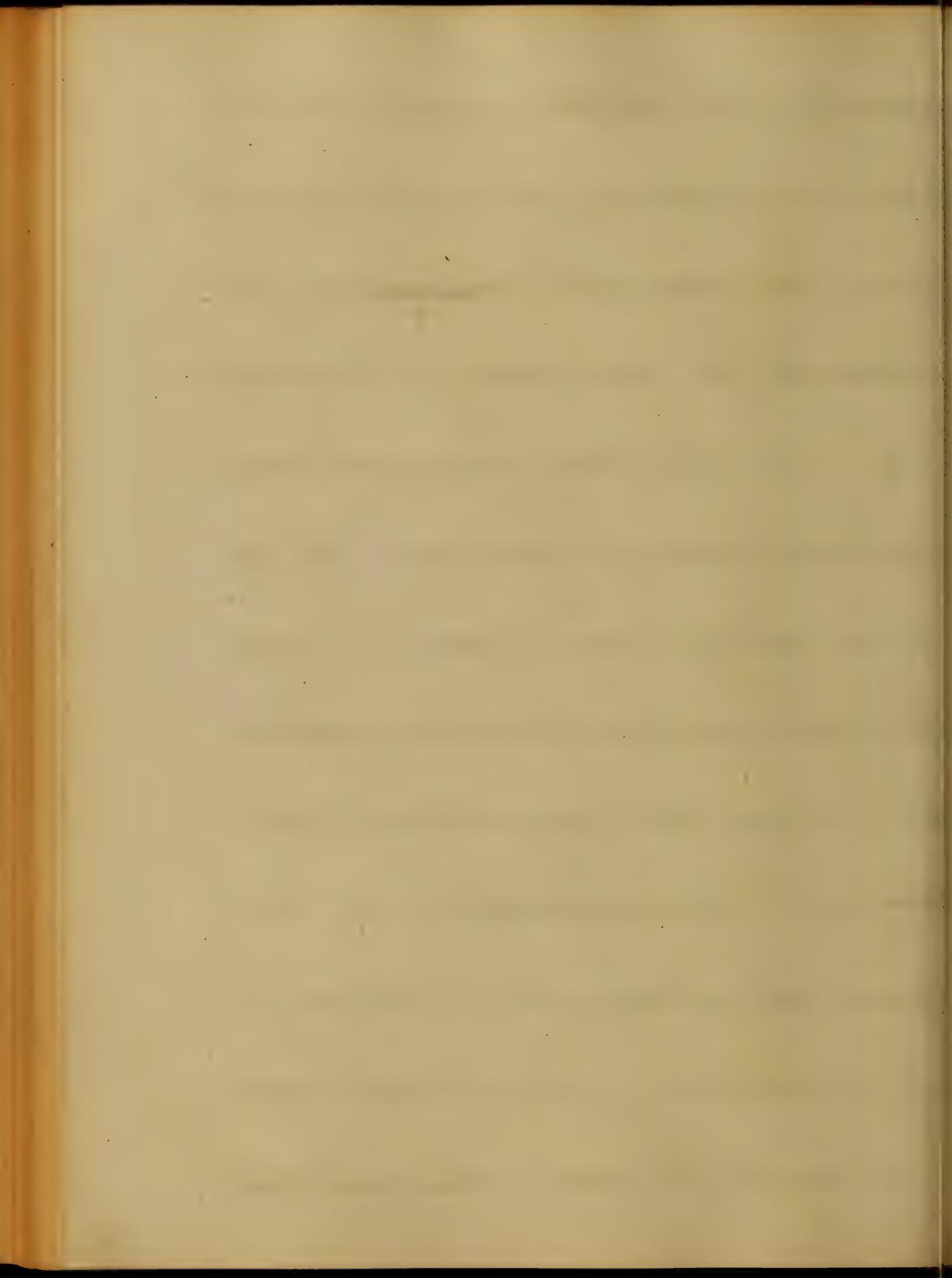
process or rather causes the efflux of  
blood to the part to be diminished.  
for we know that pain alone is  
quite sufficient to produce a reten-  
tion of blood to a part. Again,  
inflammation occasions more or  
less constitutional disturbance  
which is readily corrected by the  
use of opium. Thus also plainly  
the system is in a condition by which  
it is better able to tolerate the local  
affection. In inflammations, too,  
men do not because of the injury,



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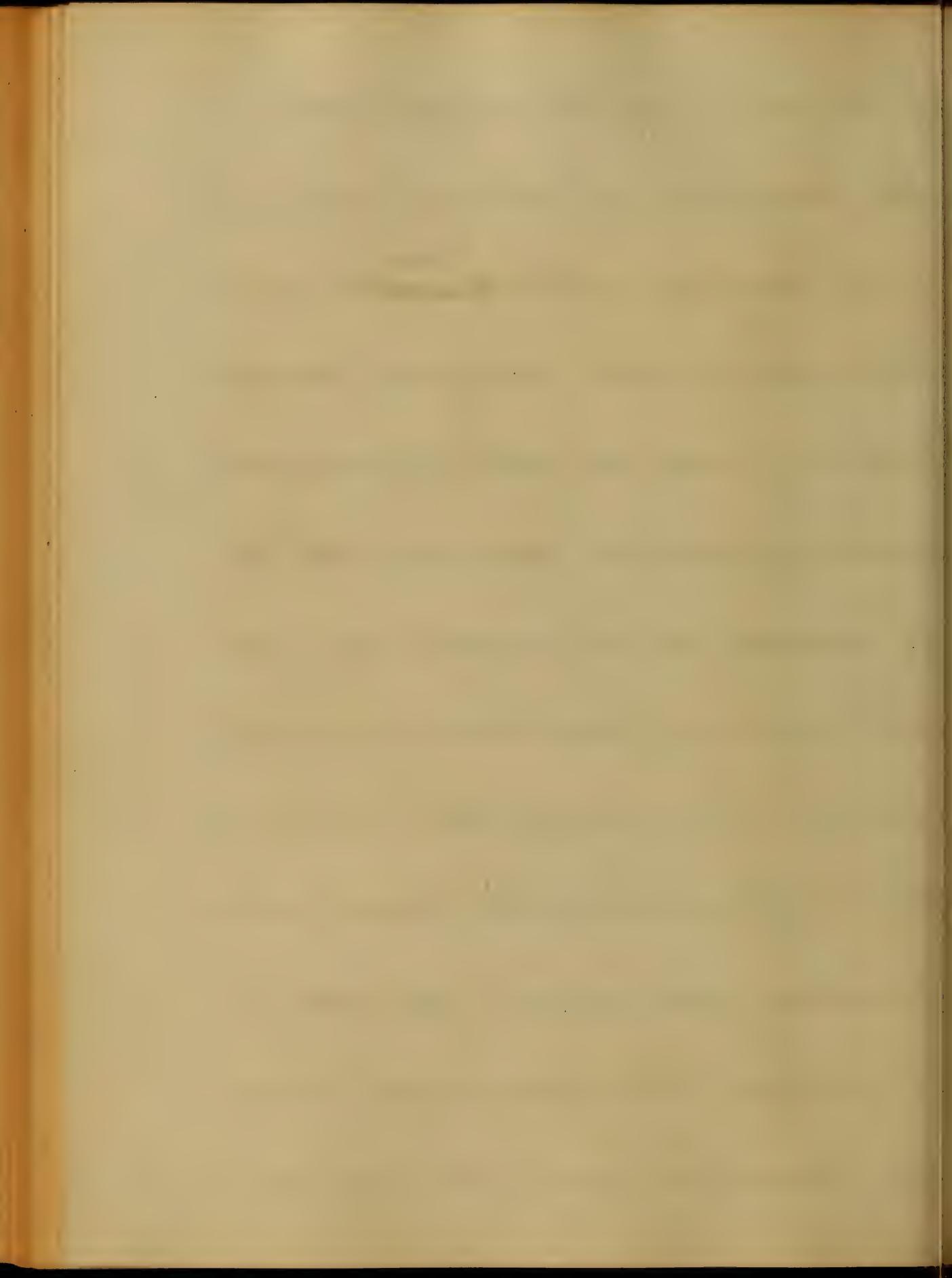
done to the inflamed part; but be-  
cause the vital powers are suppre-  
sed we render the body无力  
to support the progress of the disease.

Opium exerts a very  
decided influence upon the mu-  
tations. Their correct manner of action  
however in this malady appears  
to be vague and uncertain. I will  
not enter into any detail on this  
point. But rememhering & believiing  
the broad and general rule laid  
down by the distinguished Prognost.



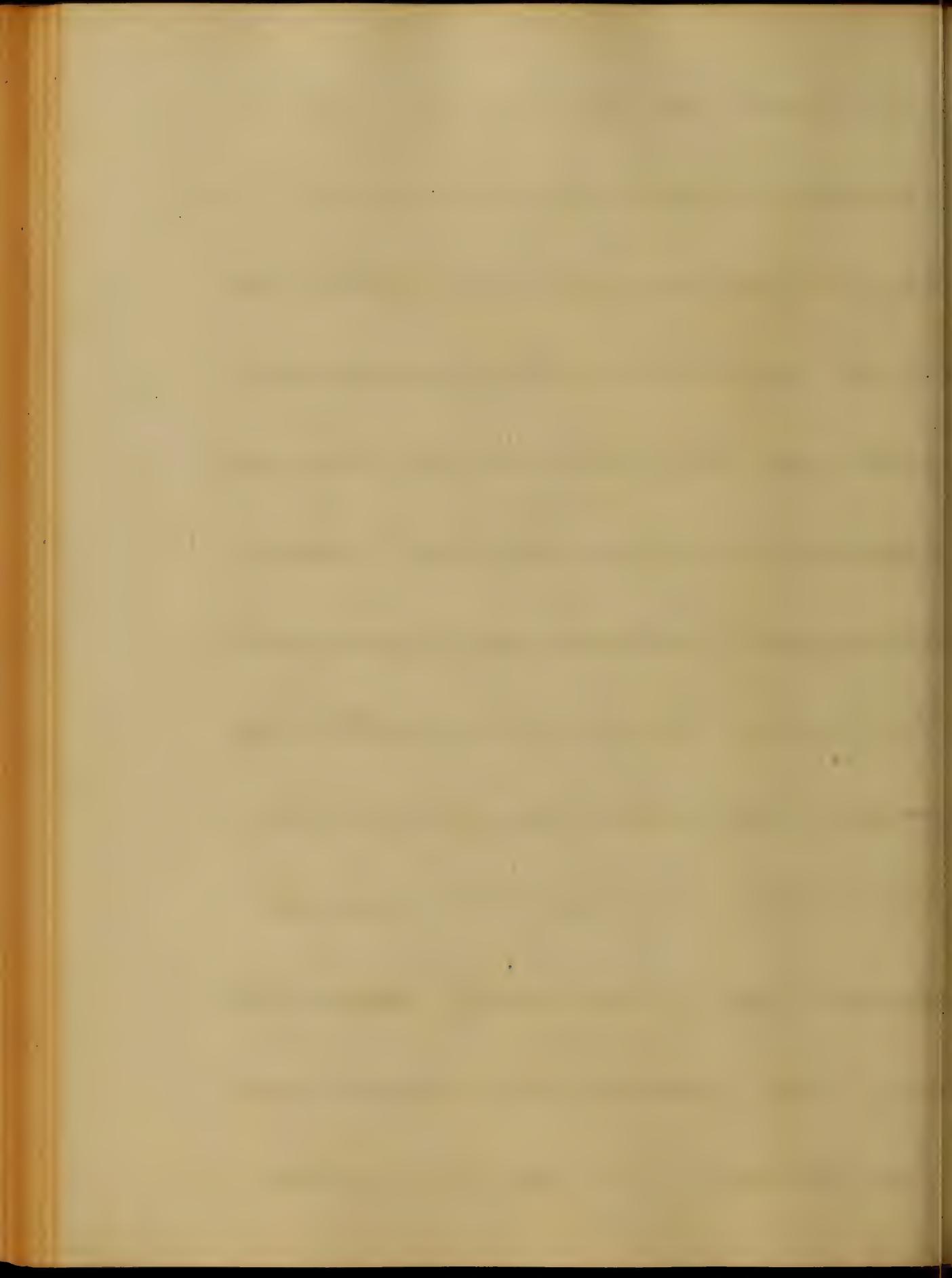
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of this subject in the school where  
the principles of medicine were first  
taught me viz: that ~~Morinda~~ <sup>Opium</sup> drink  
it every evening except the perspi-  
ration." I am content to await the  
result of practical experience whereby  
to understand the action on each  
section in particular. I will only  
remark that its effects on the sec-  
tions of the alimentary Canal are,  
in certain and decided, and Opium  
is, perhaps, the best remedy known  
for Diarrhoea, and other diseases



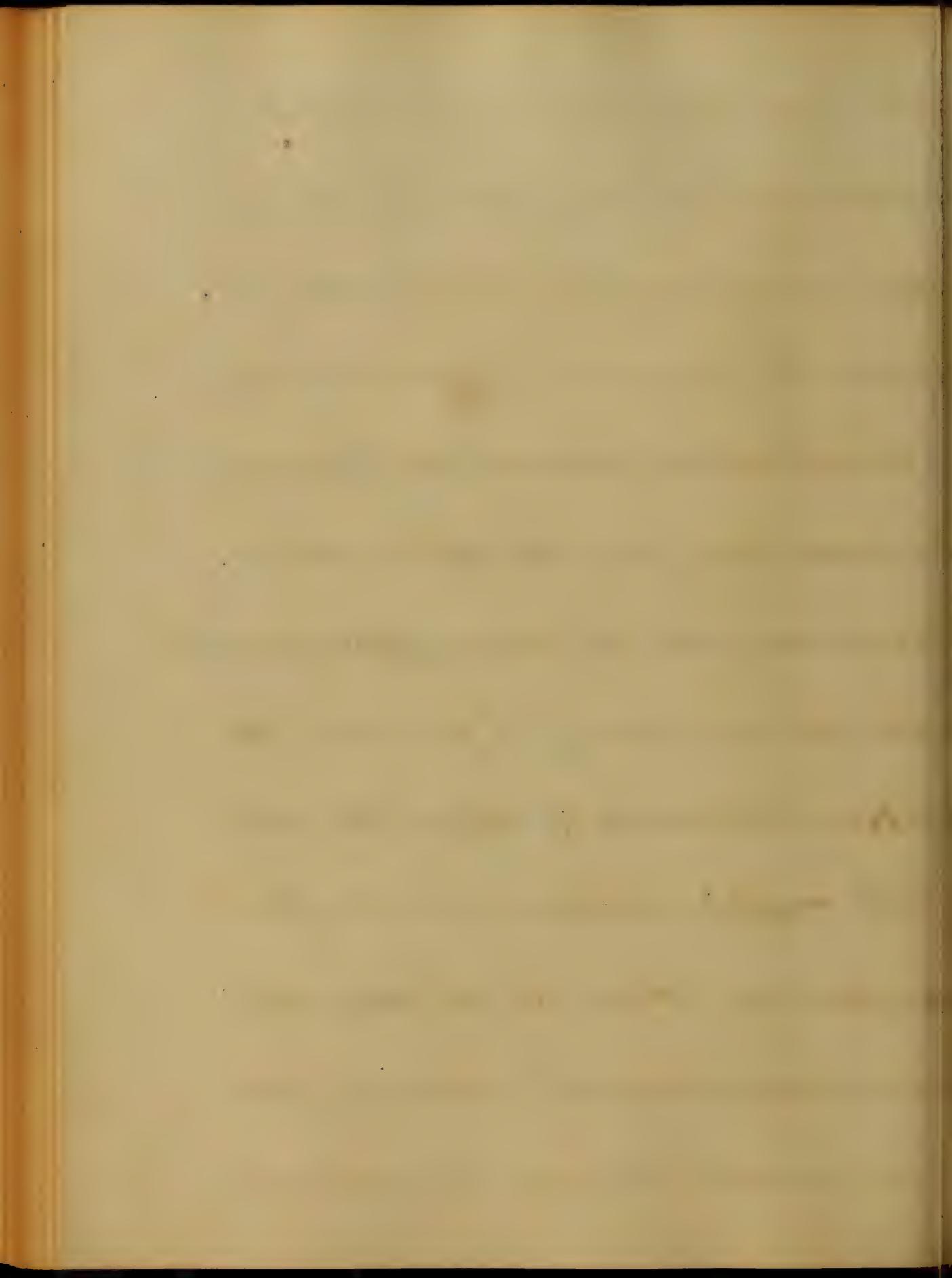
of a similar type.

An other very important use of opium  
can be anticipated. Now it proves  
true, and this is often an essential  
step in the treatment of many dis-  
eases. But circumstances must  
always be taken into consideration  
for instance, it must be withheld if  
one sees that it will counteract  
the effect of some other medicine  
previously administered. Now this  
is of very importance-sometimes  
in practice, for instance, a person



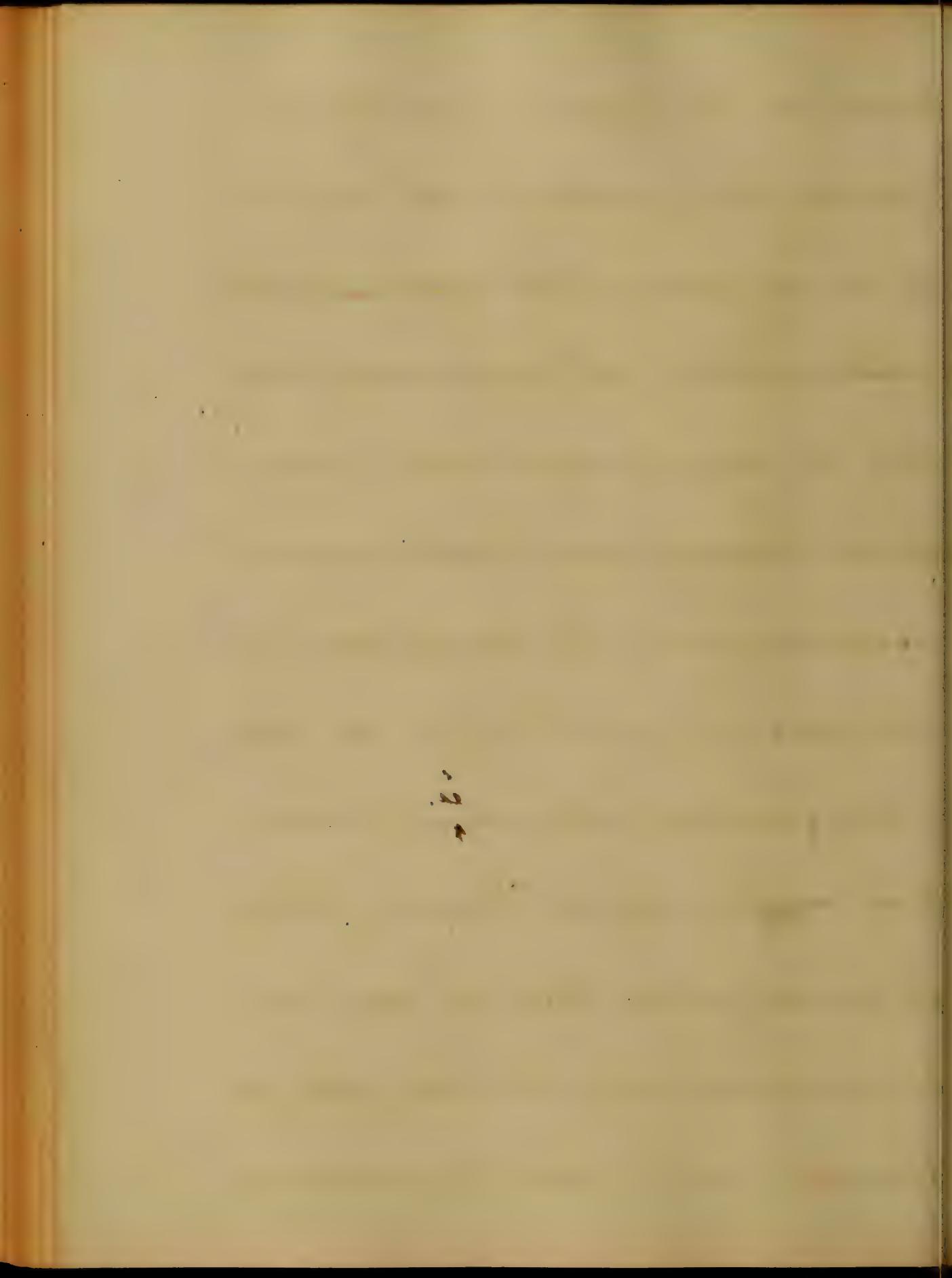
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we have a patient, and we wish to  
produce a discharge from his bowels.  
of course we give a purgative to  
aid the removal. now it is very  
evident that it would be unwise  
practice to give an opiate which  
we know will produce a effect directly  
opposite to that of a purgative. one  
would counteract the other. the other  
both would lie dormant in the  
system. And it were better that the  
unhappy patient had taken nothing  
at all. There is scarcely a disease



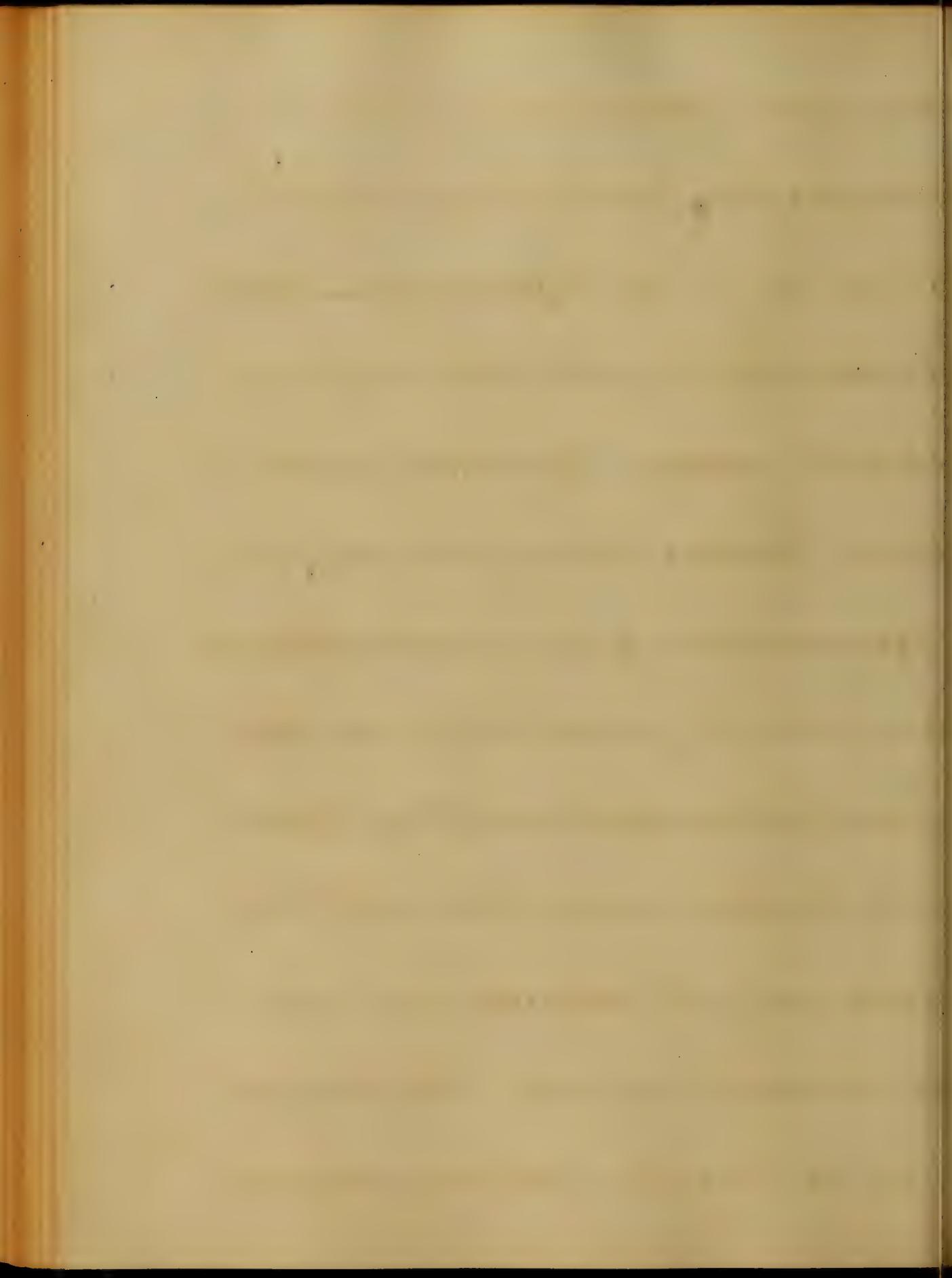
which the Physician is called upon  
to treat. When pain is not a con-  
spicuous and troublesome symptom  
to relieve which is his obvious duty.

Which as a general rule can  
be more safely and efficiently  
accomplished by Opium than any  
other known drug. There are two  
different kinds of pain Nervous  
and Inflammatory and it is highly  
important that we should dis-  
tinguish between these in practice.  
Nervous pain is, for the most part,

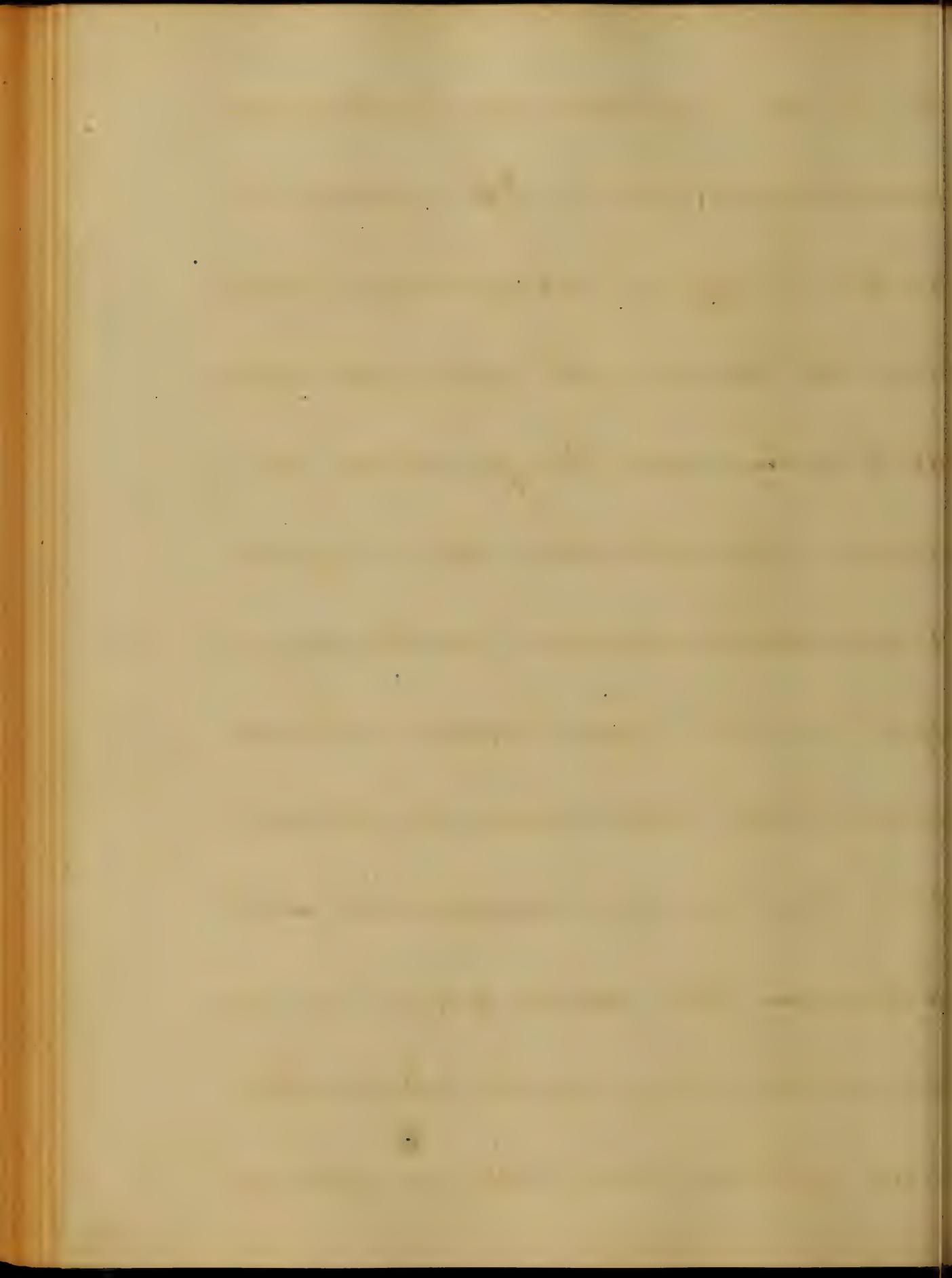


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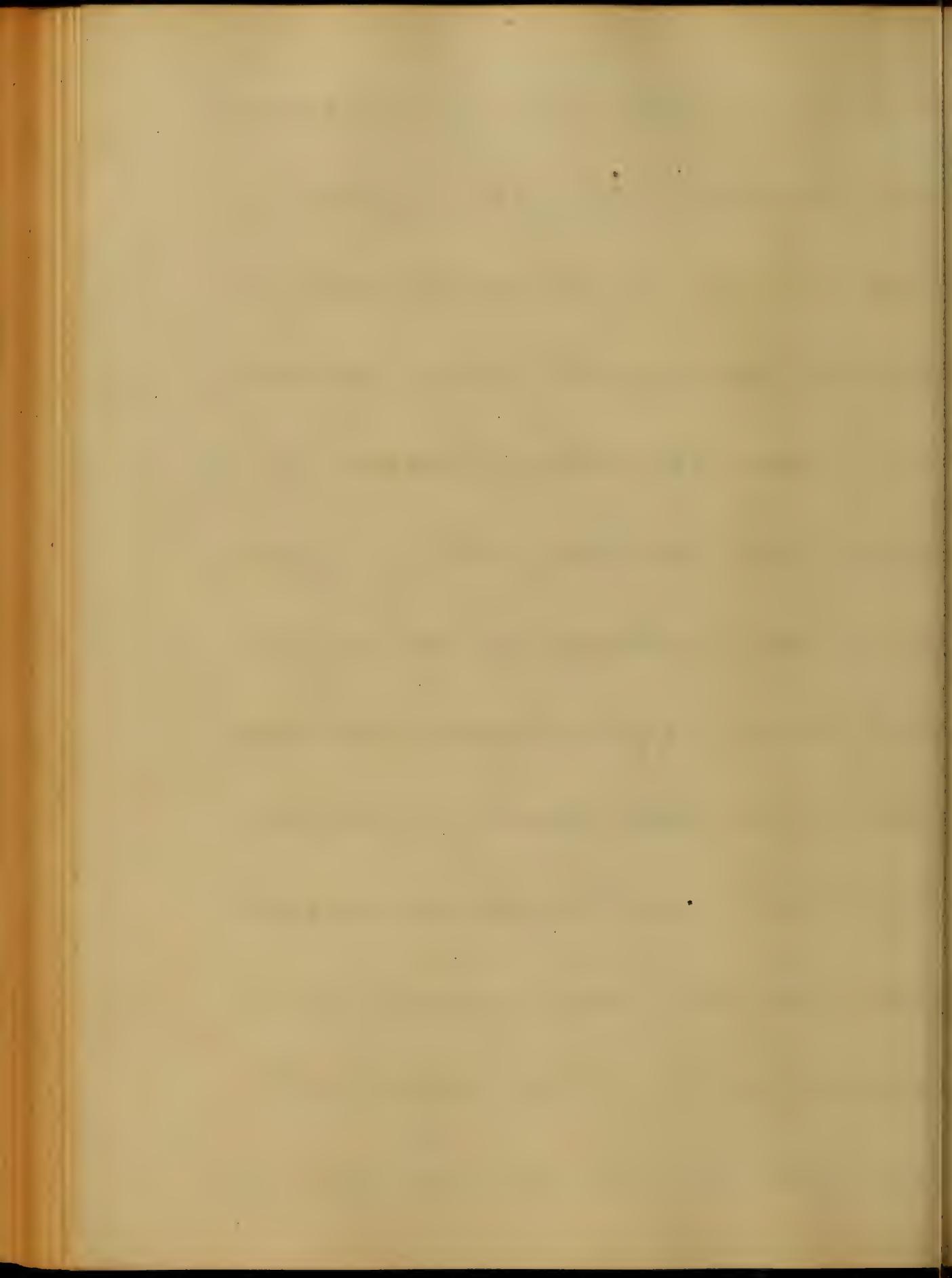
Inflammation, suppuration, &c., may  
lead ~~septate~~ generally. Nervous pain  
is rarely present. often following the  
whole course of the nerve. inflammation  
itself is confined to a circumscribed  
space. Nervous pain is not constant.  
inflammation is. Nervous pain  
does not injure the organism, which  
is not generally the case <sup>in</sup> inflammation.  
Now opiate are a source of relief  
for nervous pain. but in pain due  
to inflammation they play a  
secondary part in the treatment. And



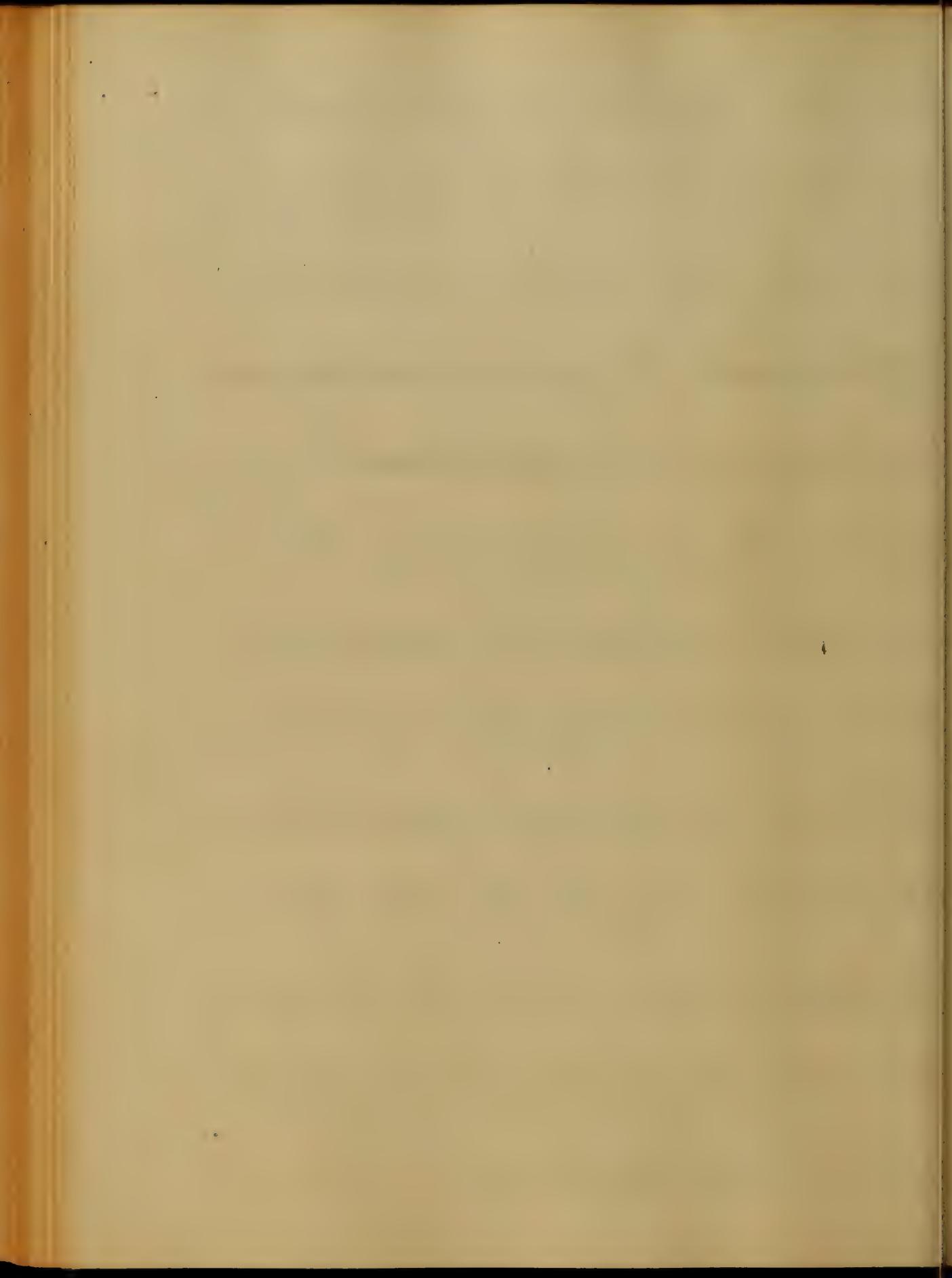
they must be often insisted with circumspection. Not in all diseases does the great effort of an inflammation bear so well. In order to bring out this view more clearly, suppose - for instance - we have a patient laboring under an inflammation of some internal organ. Now in such a case, pain is a very important symptom and one by which we are often made acquainted with the nature and the progress of the disease. And it must be evident that no mere temporary benefit will be obtained.



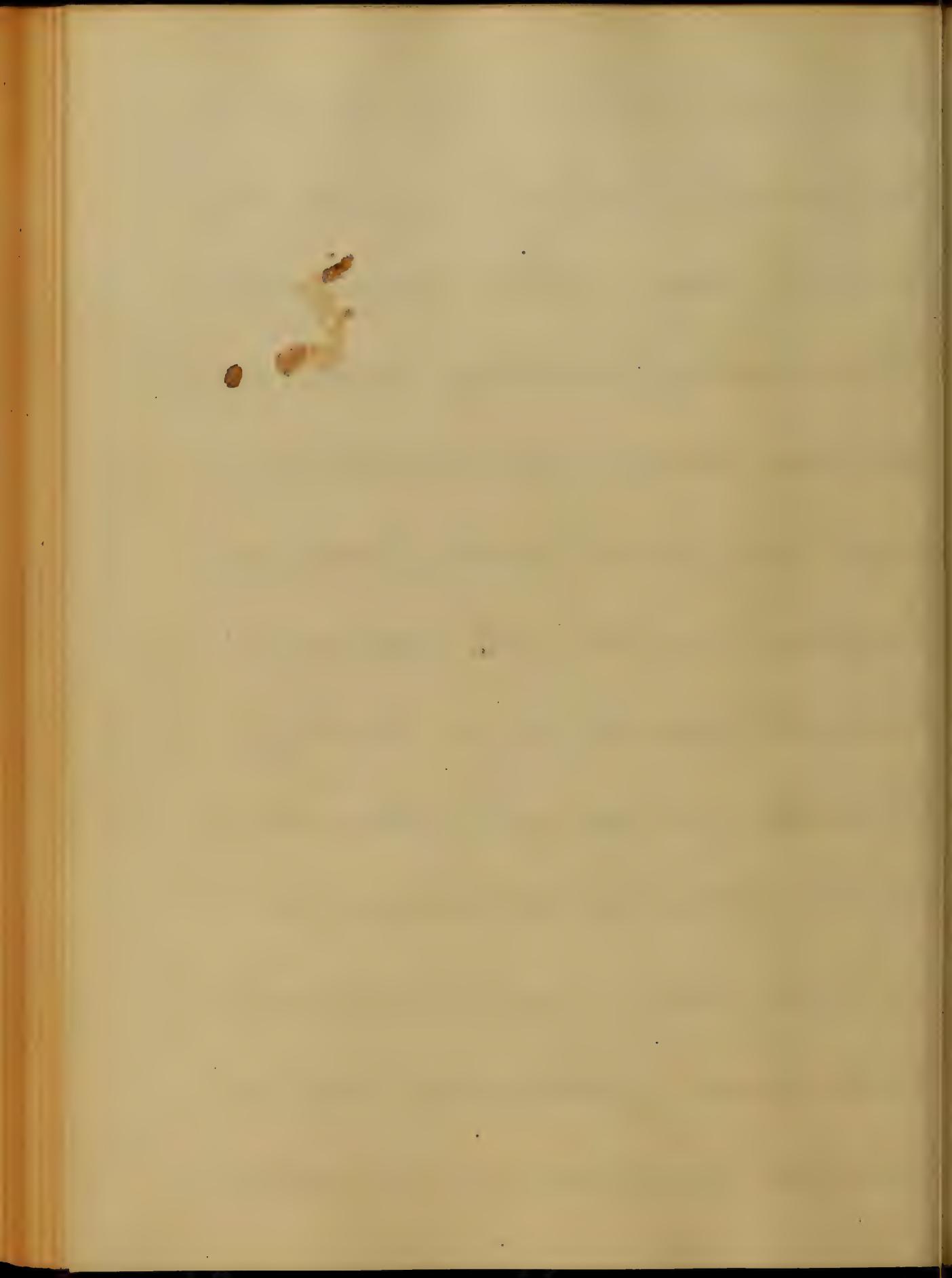
now to use of opiate when the patient  
insensible to the pain. The importance  
of this cannot be too forcibly impressed  
upon the mind of the young practitioner  
for he above all things is liable to  
make this mistake that is of not  
paying strict attention to the nature  
of the disease before he applies his rem-  
edies, or in other words he should  
not treat a single symptom in such  
a manner that would produce an un-  
favorable change in the whole char-  
acter of the disease. Opiates play an



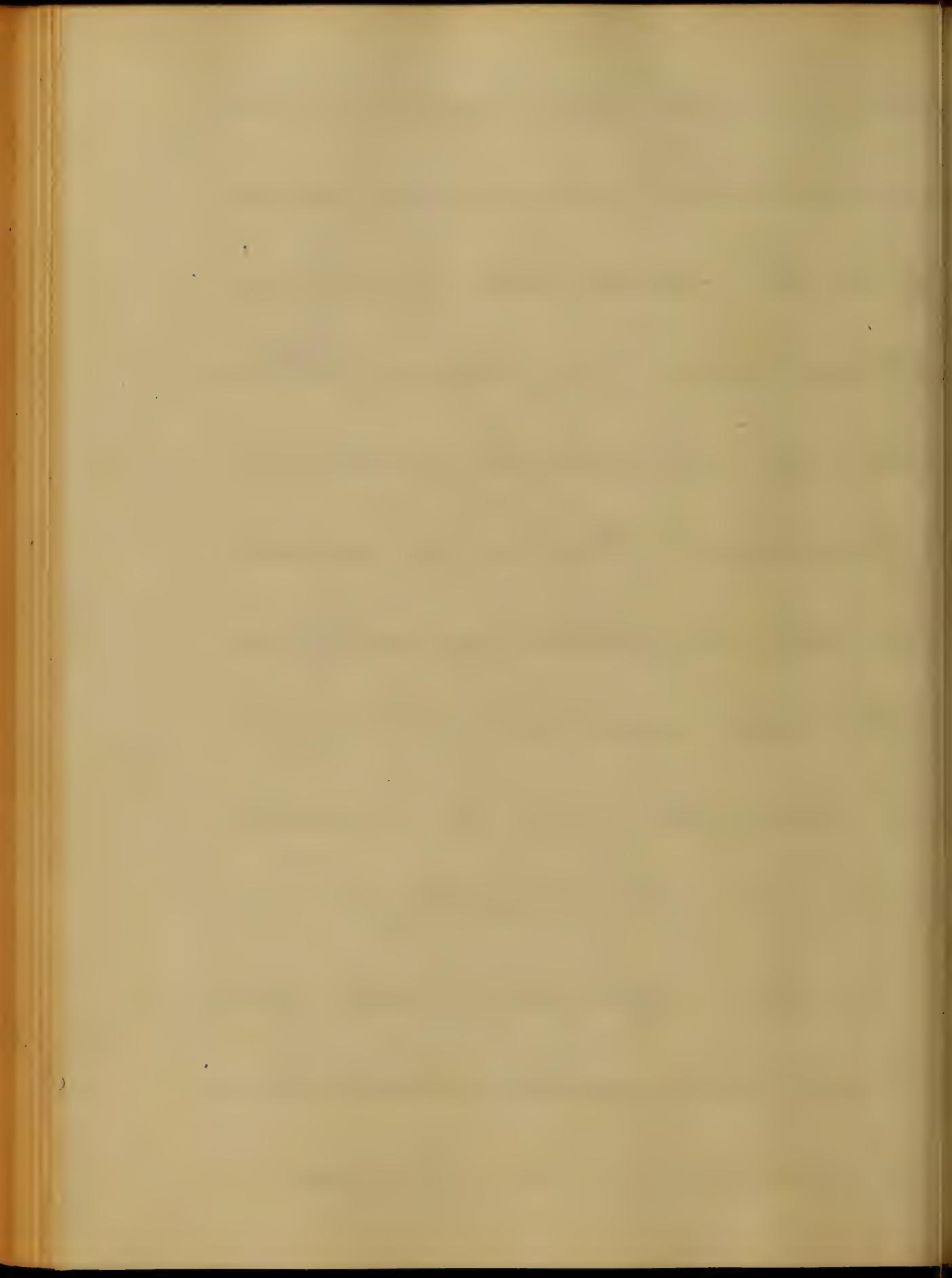
important part in the treatment  
of spasms of the involuntary mus-  
cles, and also a kind of spasm  
attended with great pain, usually  
denominated Crocsp. Hæmorrhage  
used with great benefit in the  
treatment of spasmodic asthma. The  
neurotic element of this affection  
often yields very promptly to the  
opiate-treatment, but as they call  
directly to diminish & control  
secretion, they must be administered  
with circumspection.



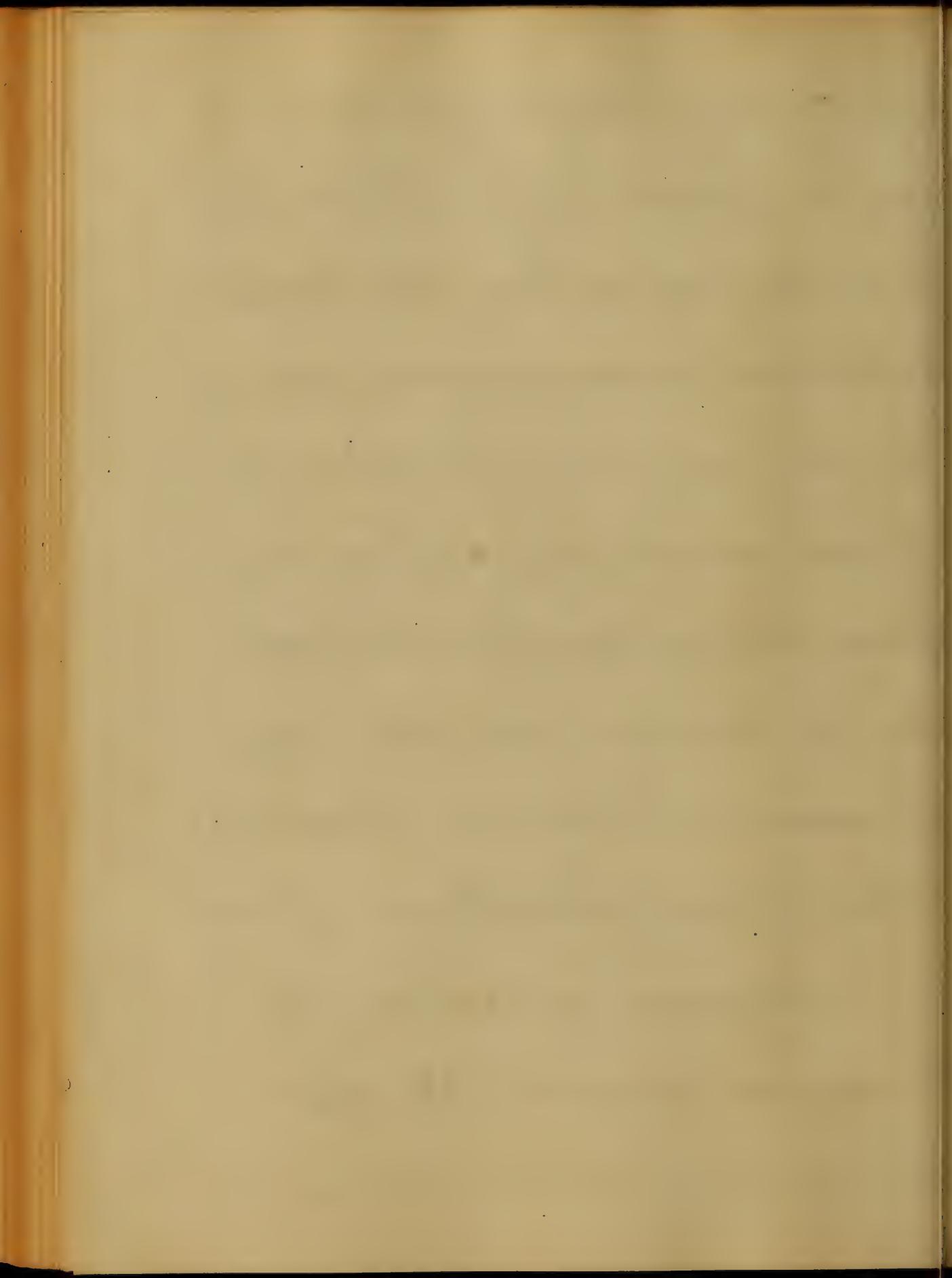
In the treatment of them. I can  
not have no faith in any in the whole  
Materia Medica, than Opium. And  
there is scarcely a disease which we  
are called upon to treat. where a  
single drug exhibits such happy and  
beneficial results. This disease  
seems to depend on a loss of  
the proper stimulus to carry on  
the functions of the brain, or  
perhaps, more properly, a sudden  
withdrawal of <sup>the</sup> stimulus, which the  
miserable subjects were accustomed.



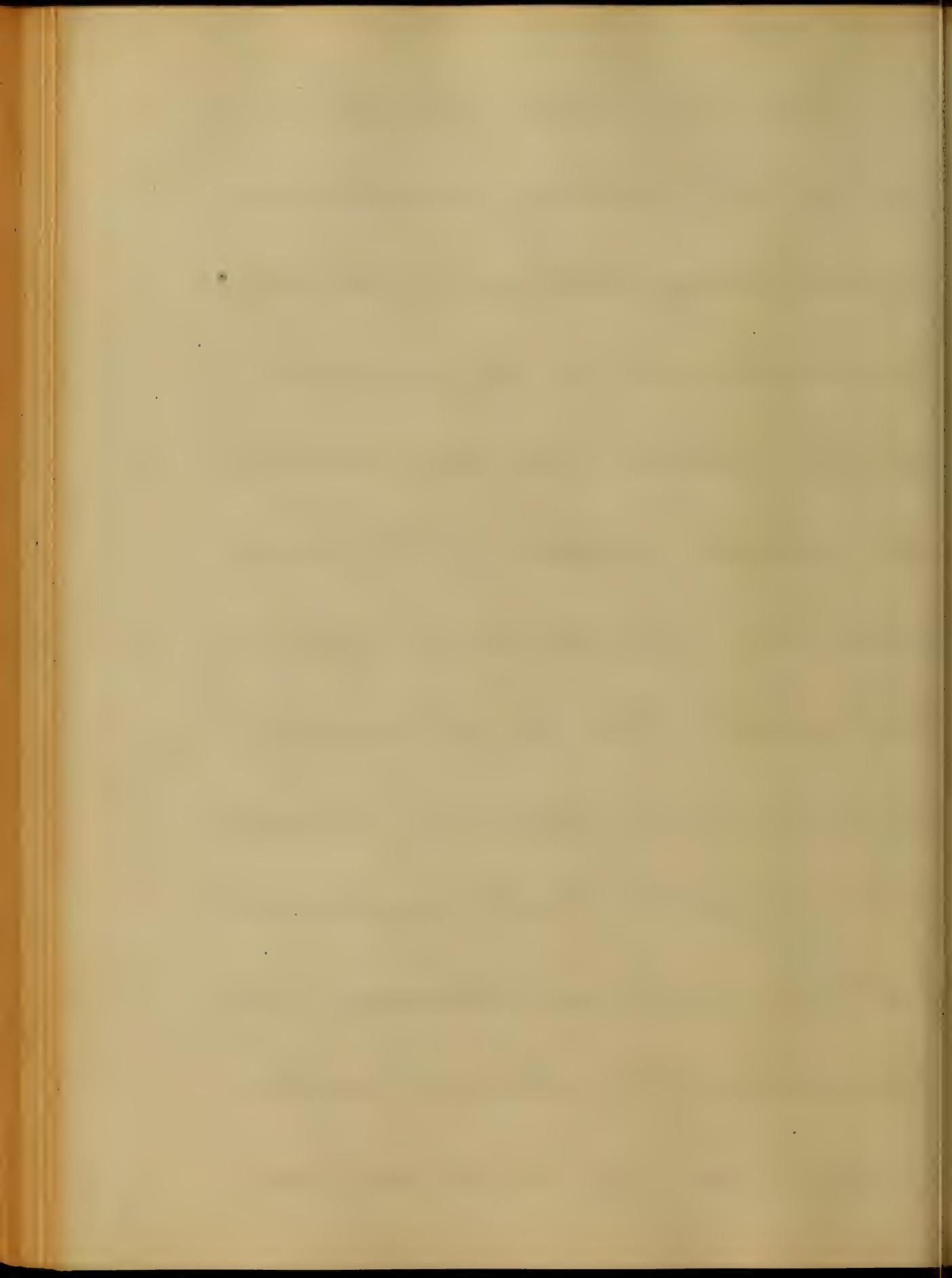
But however this may be, the best  
indication in the treatment seems  
to be the production of rest &  
sleep. and it is quite obvious  
that no other single agent will  
accomplish this result as spec-  
ifically and as effectually as opium.  
A most important fact for  
the operation of opium is, in this  
case, below the diaphragm, and  
moreover especially, when  
due to incrustable or calcified  
gall stones or 2- Calculi.



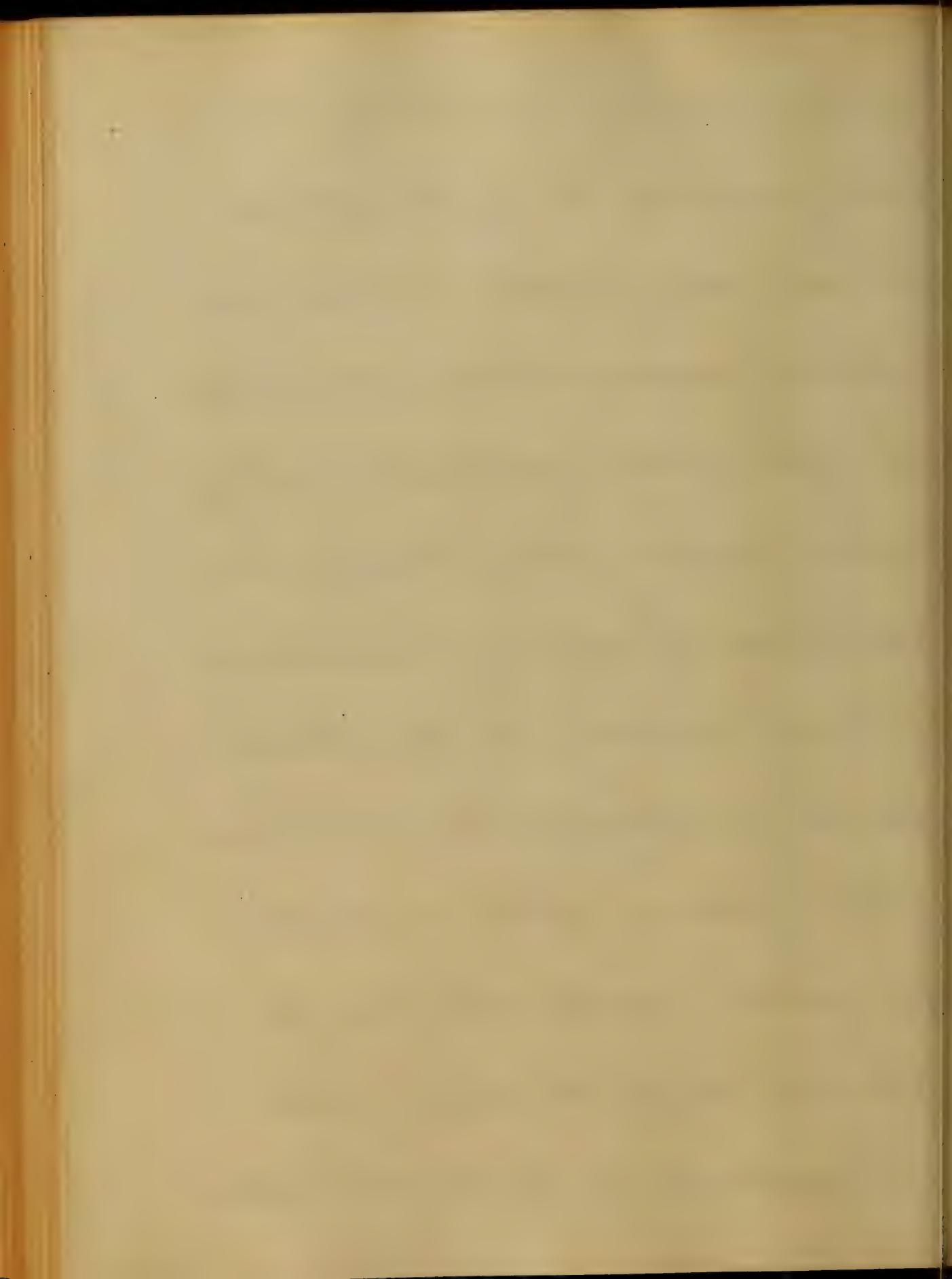
In former times opiates were considerably used in Molarious Fevers. It was thought that they possessed marked anaesthetizing properties. At the present day however we do not believe them to possess any such virtues. Nevertheless experience has abundantly proven that they are of immense value in the treatment of Sub-mortal Fevers. Given in full doses just before the paroxysm comes on. Not that they will prevent the paroxysm



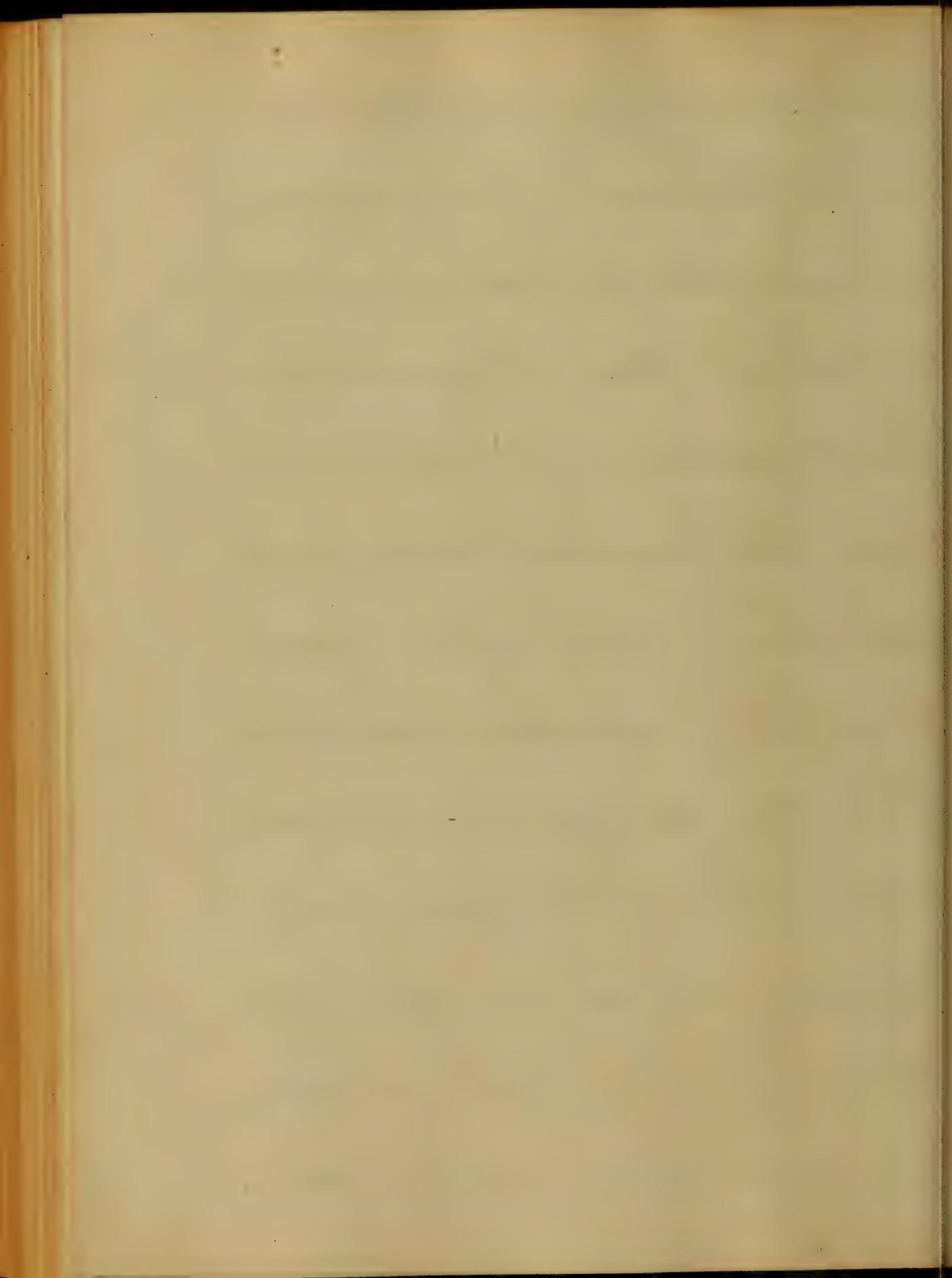
or prevent its recurrence. But will  
not all its violence unmask  
itself. Many other affections might  
be enumerable, in the treatment  
of which Opium plays an important  
part, but the scope of this  
Essay will not permit of their  
consideration. And for the same  
reason I refrain from speaking of  
them in reference to some  
actions. In conclusion we  
would say, that there is no class  
of Medicine which presents so



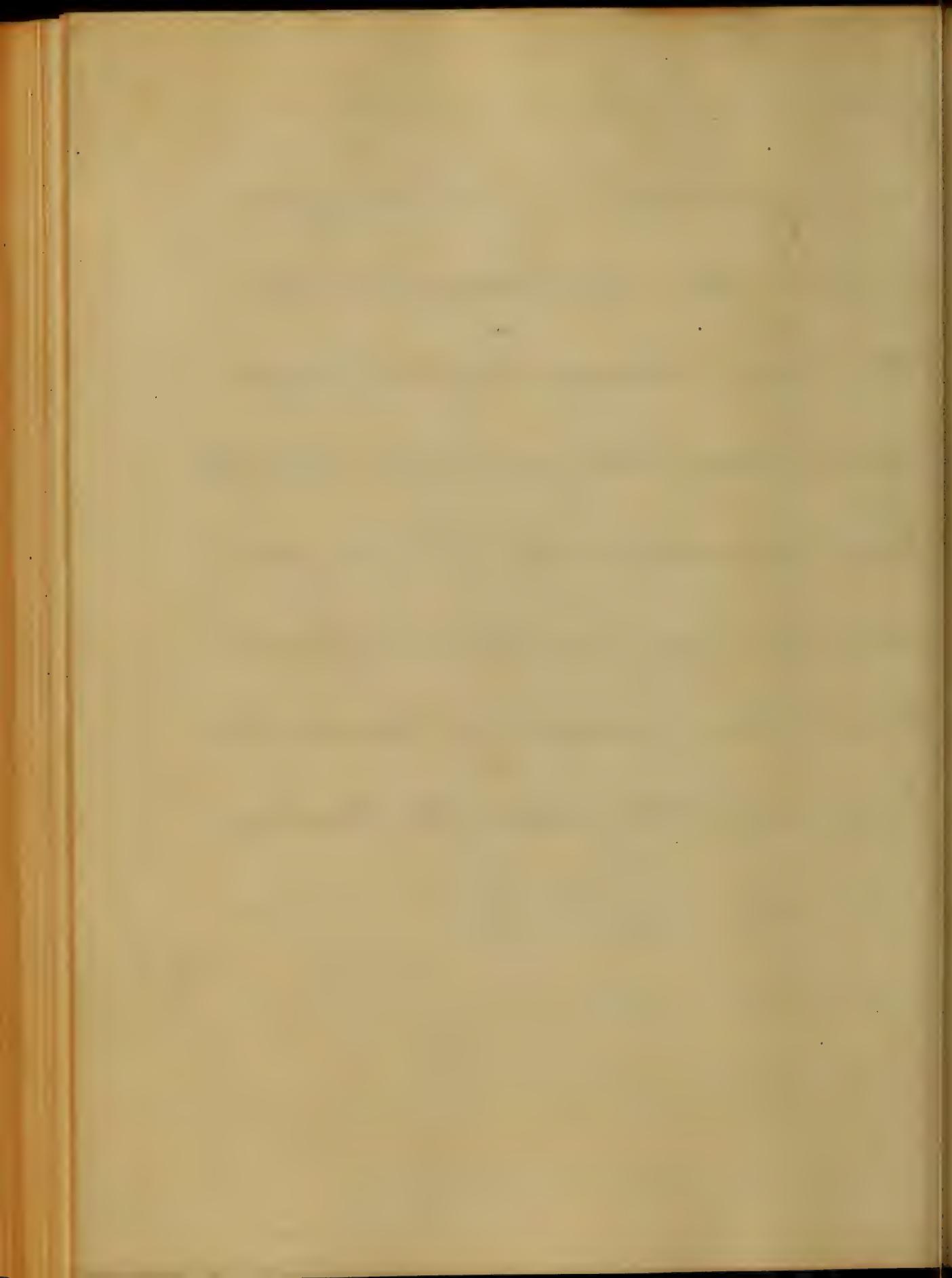
may be so to affect one  
different person as to Harriet, now  
whose administration is more mod-  
ified by circumstances. for example  
age of the patient. Edynuraceas of  
certain persons. and their former  
use. and the peculiar susceptibility  
of some persons to the several  
drugs are precisely alike in every  
respect. One is often an antidote  
for another. as Belladonna for  
Opium. and the same one  
in different patients will often



produce diametrically opposite  
results. Hence the great importance  
of being extremely careful and re-  
sponsible in their administration  
for whilst they like many other  
medicines, are most powerful  
good, they are also often most  
powerful for evil. in cases where  
when they seem to be most indi-  
cated. But if we meet with  
disappointment in some case  
this should not deter us from  
doing the same thing over



again if we feel we are the  
men in the right But too often  
is it the case that ~~knows~~ the Prac-  
titioner is insensible to his errors.  
While sad experience has taught  
him a lesson never to be forgotten  
and showed how by his folly  
many an immortal soul has  
been sent to meet its Maker



A  
Discussion  
on the  
Effects  
of  
Bromide of Potassium  
on the  
Human System  
by  
W. S. Shireman.

Pittsburgh.  
1869-

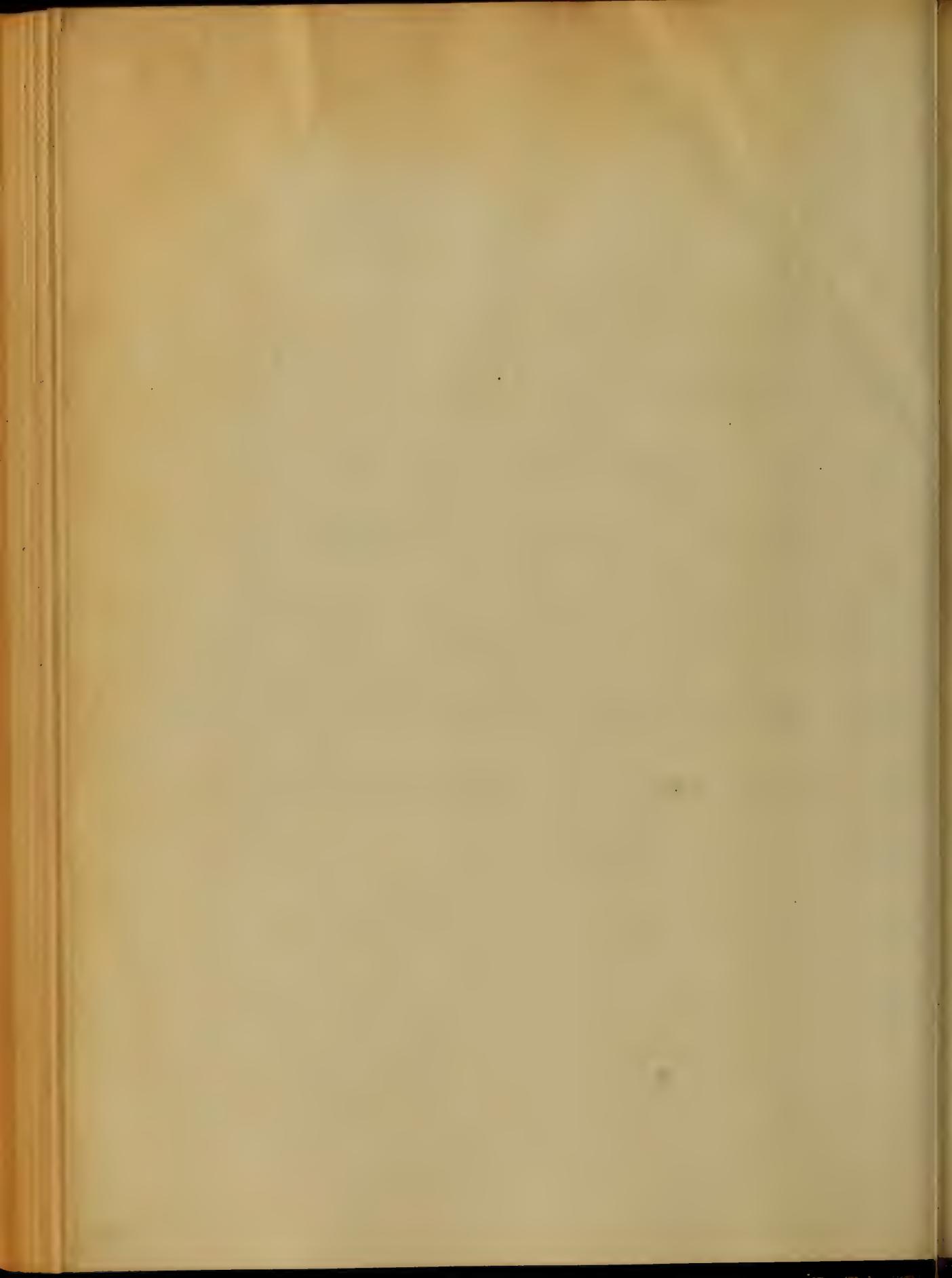


To My Dear Doctor,

J. T. Holland M.D.

In qualified remembrance of his  
professional friends and myself  
and as a memorial of our esteem  
and friendship this little article  
respectfully and affectionately  
dedicated by the

Author.

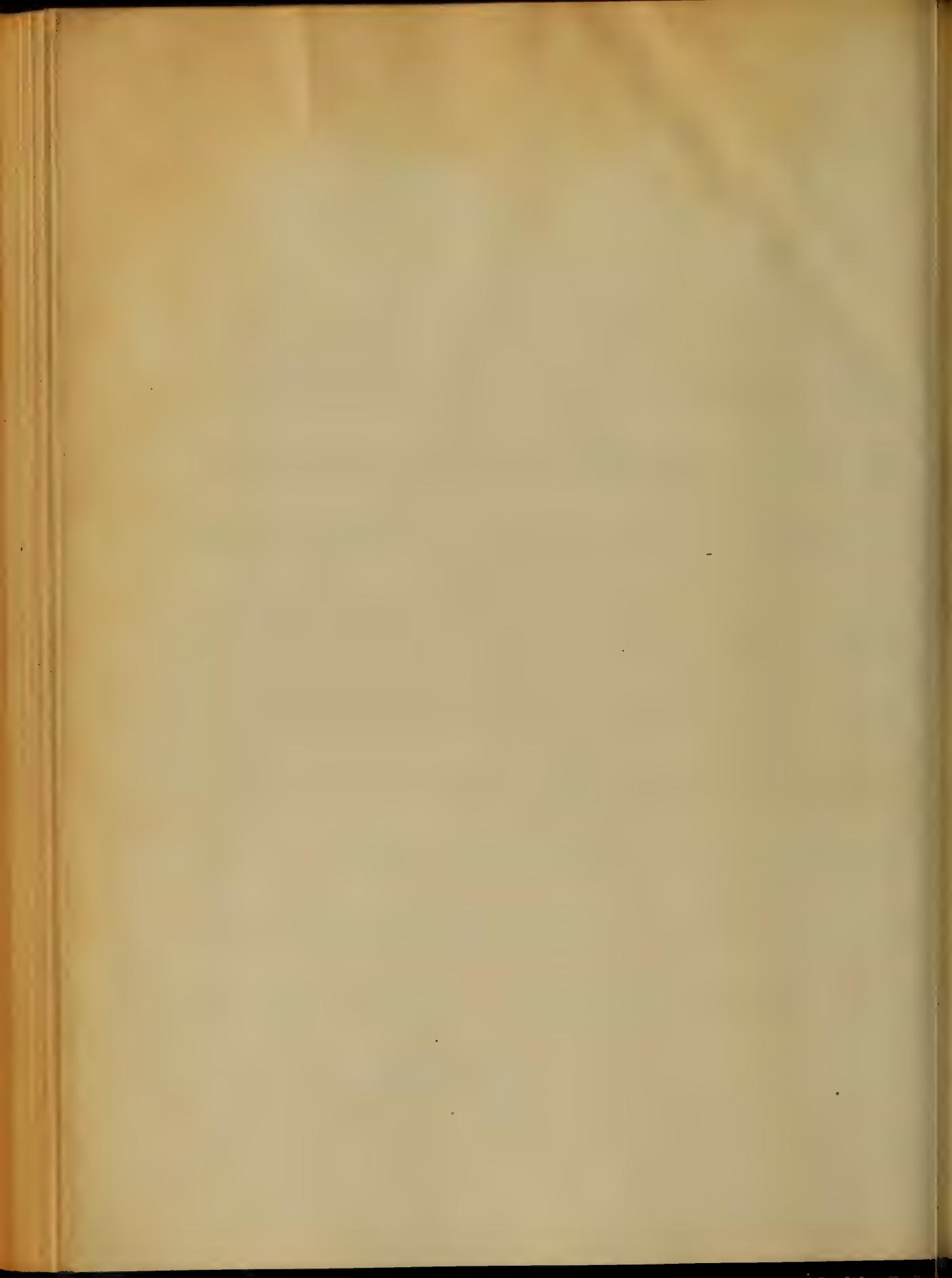


To the friends of  
The University of Michigan,  
Dear Friends

In presenting you the following  
which you will find it convenient  
to copy and circulate, we hope that  
it will meet with your approbation.  
We do not doubt it has been  
prepared without much trouble, and the  
opinions of myself yourself, and our  
judicious friends, we hope it will tend  
to be useful, & be of service to you  
as far as may be possible, in removing  
many imperfections.

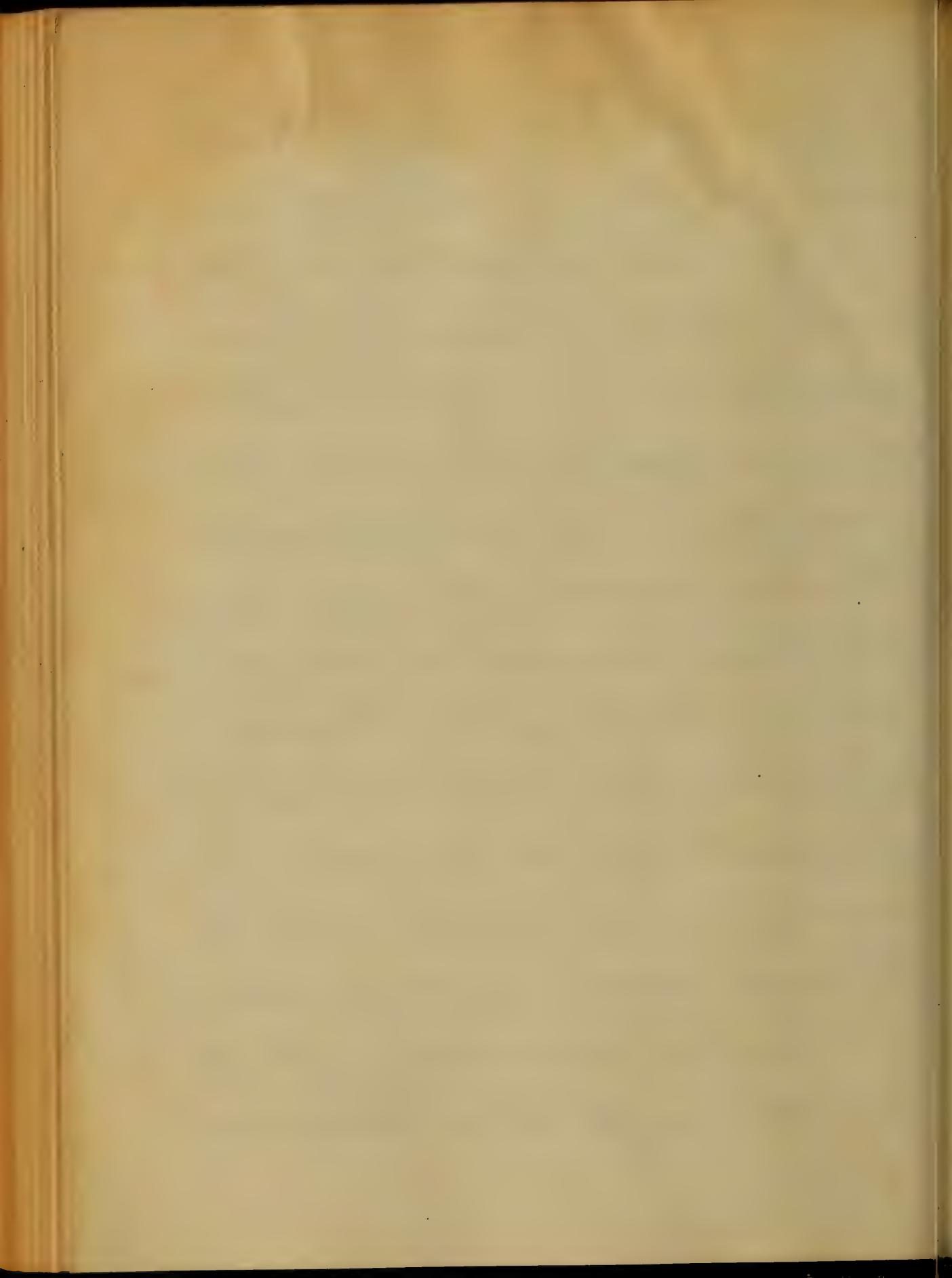
Very truly yours  
W. J. Sibley.

Detroit, Mich.  
Oct 30<sup>th</sup> 1864

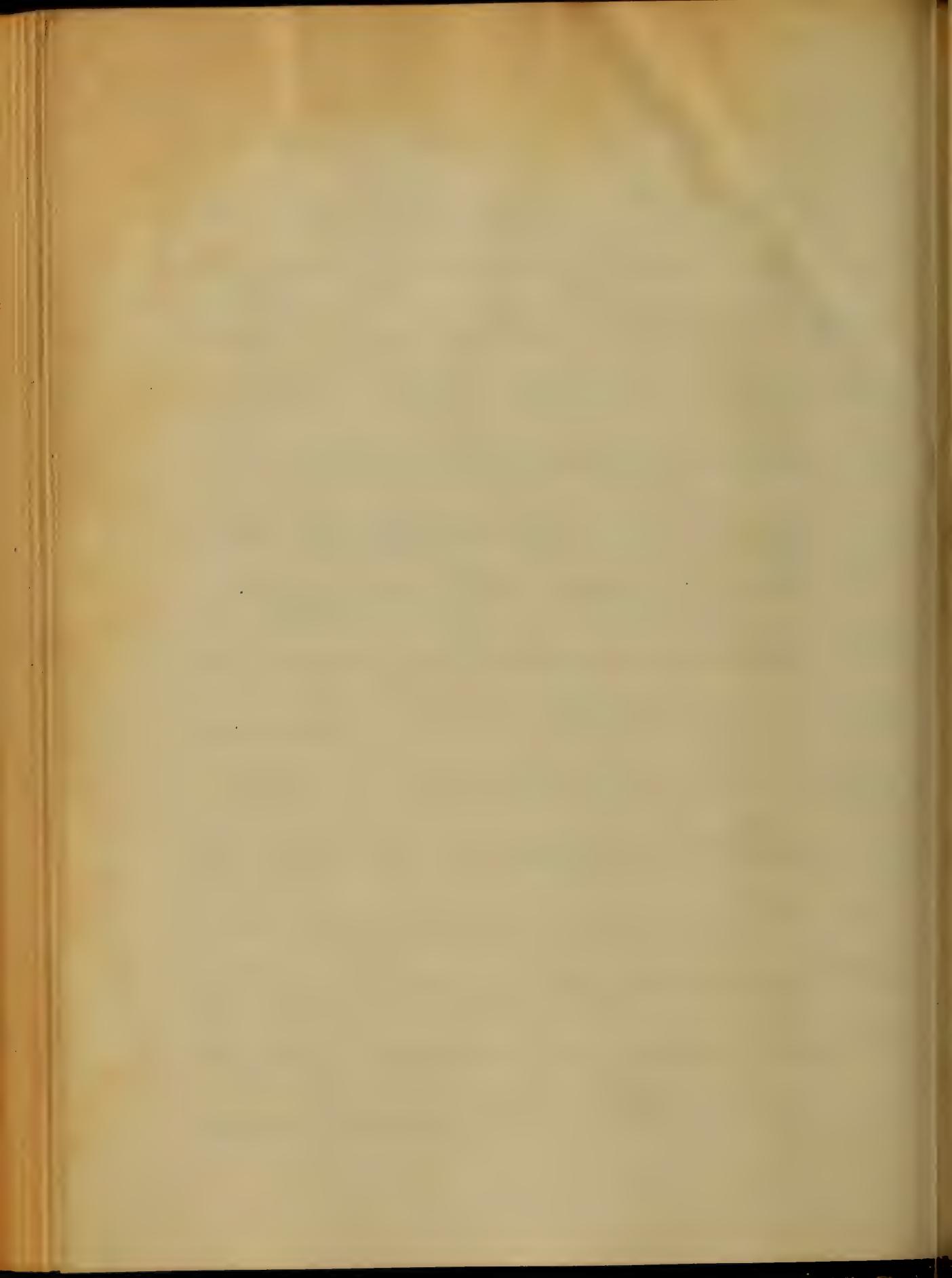


## Effects of Bromide of Potash upon the Heart, &c., etc.

It is hard to say whether  
not a little difference of opinion  
exists among the writers upon  
the most safe & thorough effects,  
Bromide of potassium is a very  
useful agent, and was formerly  
much used as an alterative an-  
obstinate and suffused.  
Its effects are analogous to those of  
preparations of iodine originally  
employed, but the results ob-  
tained are more striking, &  
for this & a few more useful and  
extended view of actions. It has become

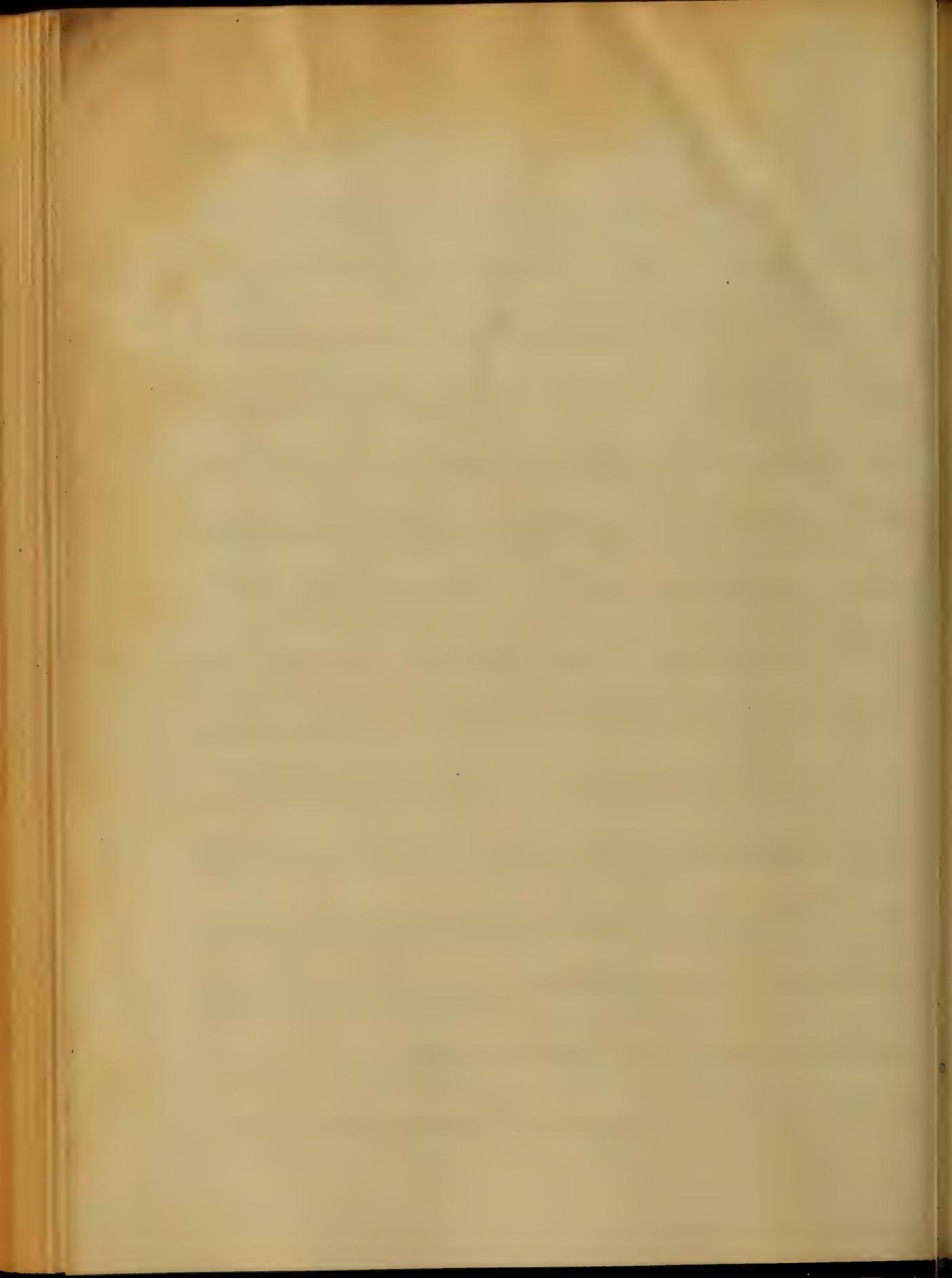


of those it cures it would  
be proper that we continue the  
employment of fumigations of the  
spinal nervous system, yet these  
will have had the most expense  
in its use we know, according to  
what section is specially affected  
by it. This, Dr. Bill, thinks, it effects  
in lessening violent convulsions, &  
that morphine is in its highest  
state," Dr. Brighton Brown, has  
been led to this conclusion by the  
having used directly as a sedative,  
to the medulla oblongata, "M. H. H. G.  
states its primary action is upon the  
spinal cord, Dr. Bill after reading



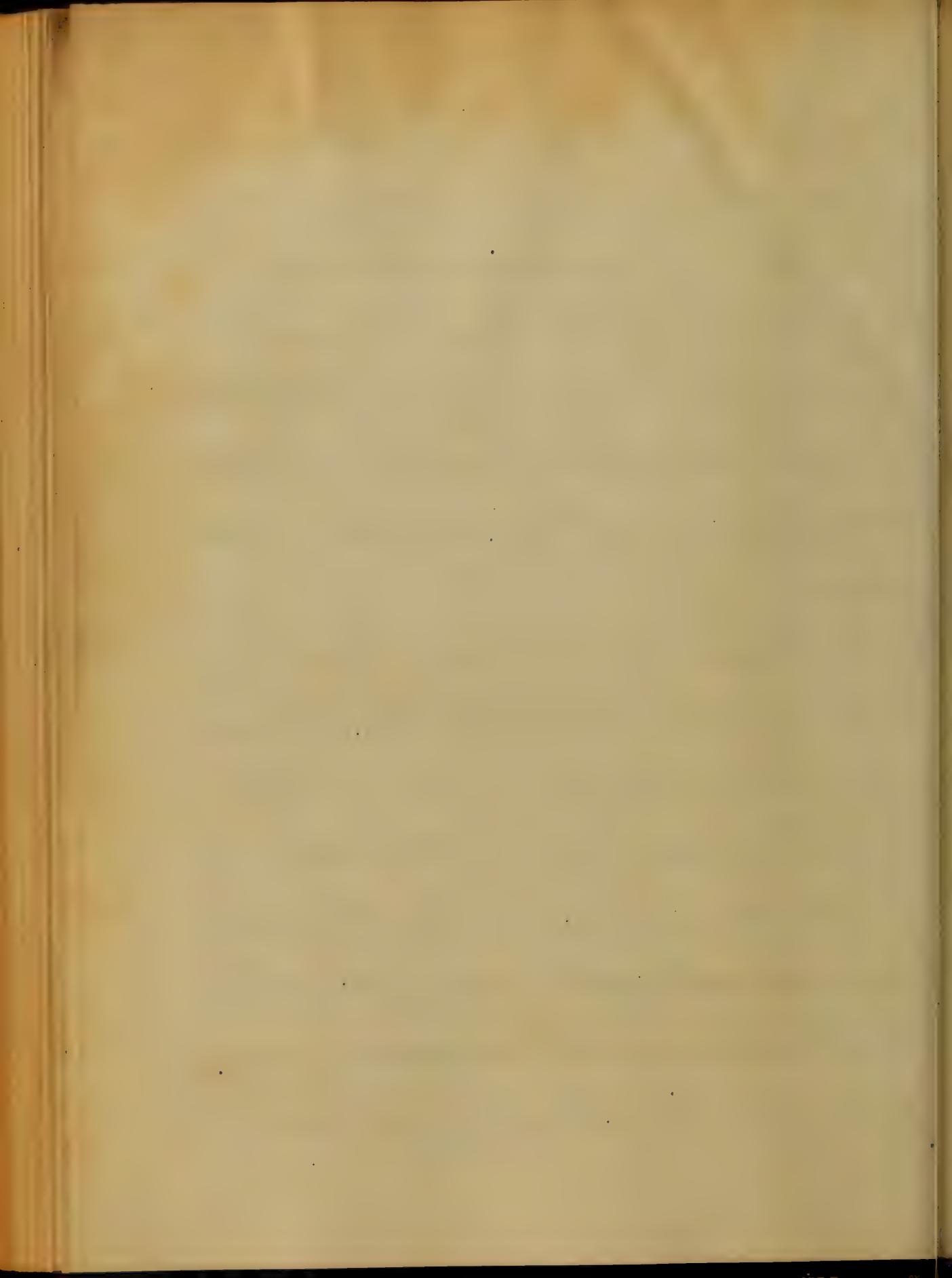
a series of experiments after the manner  
of a fine eight, made "to get the  
longest wind boundary / lessened  
in its latitude direction," and at  
various different moments and  
at different directions, all this in  
the absolute results of his ex-  
periments that it always and still the  
play and of the wind which is  
"windy like a dog's tail" and  
will blow in any direction, "so with  
a position of the earth and  
the banks, nothing can less than half of  
its length, so that it may be as many  
as low as fifty." (presumably.)

Public marks are used for



to do what is to do. They  
have the right of the states united  
and that we have not to interfere  
with their actions but if  
England does so a force will  
be sent out and express the will of the  
different parts things to come in  
opposite,

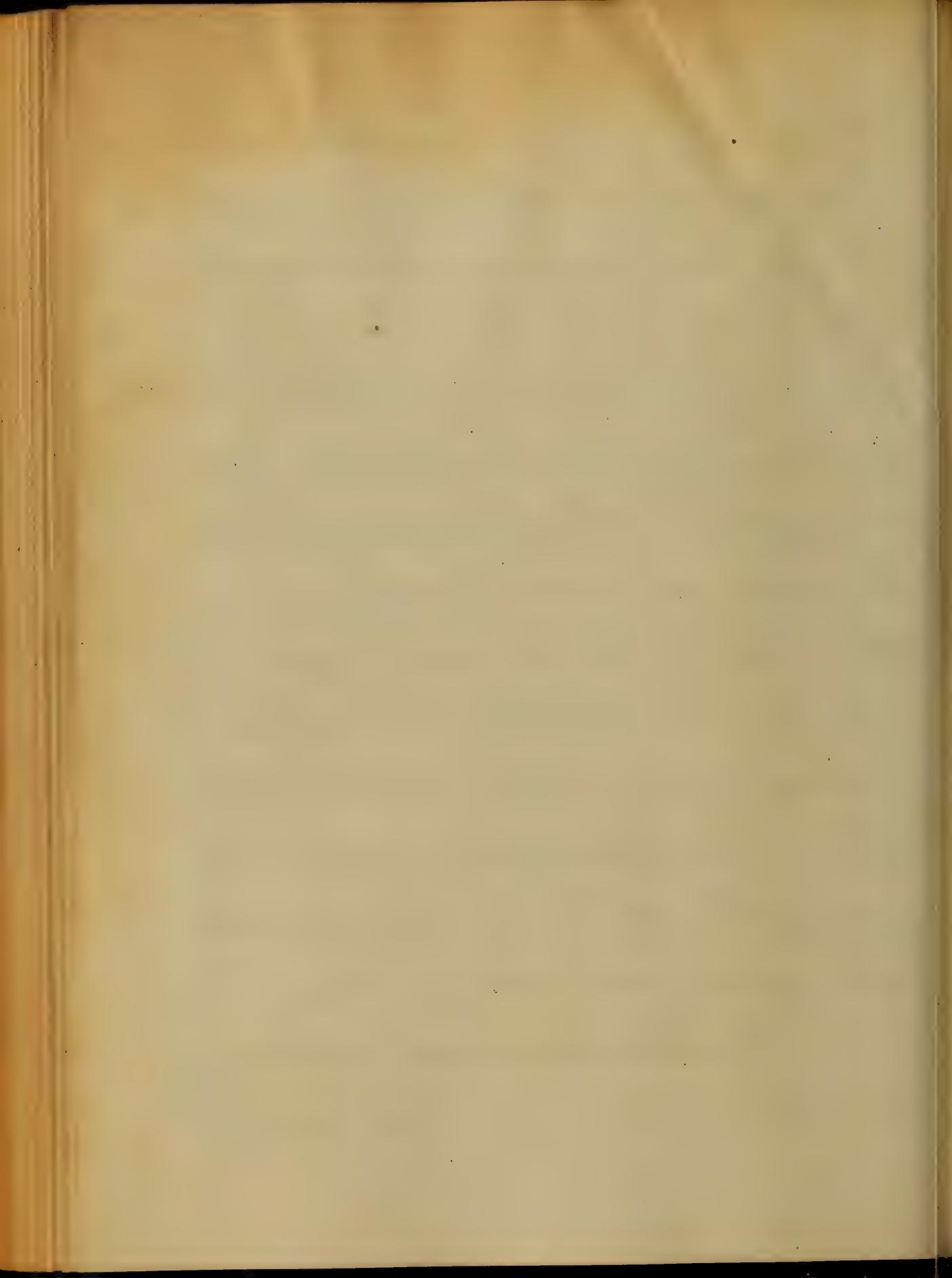
Bra - - - - -  
B. - - - - -



action back is most dangerous  
we doubt not equally honest the doctor  
he has has discovered the true action  
of the medicine.

No - what do all these  
extremists prove? Why! if they prove  
anything at all they prove that there  
is a universal sedative to all nervous  
systems, and that therefore, especially  
menstrual, all are right and others  
wrong; "right" does not mean  
the action is good, but wrong in sup-  
posing that others are not, besides  
are not other actions better,

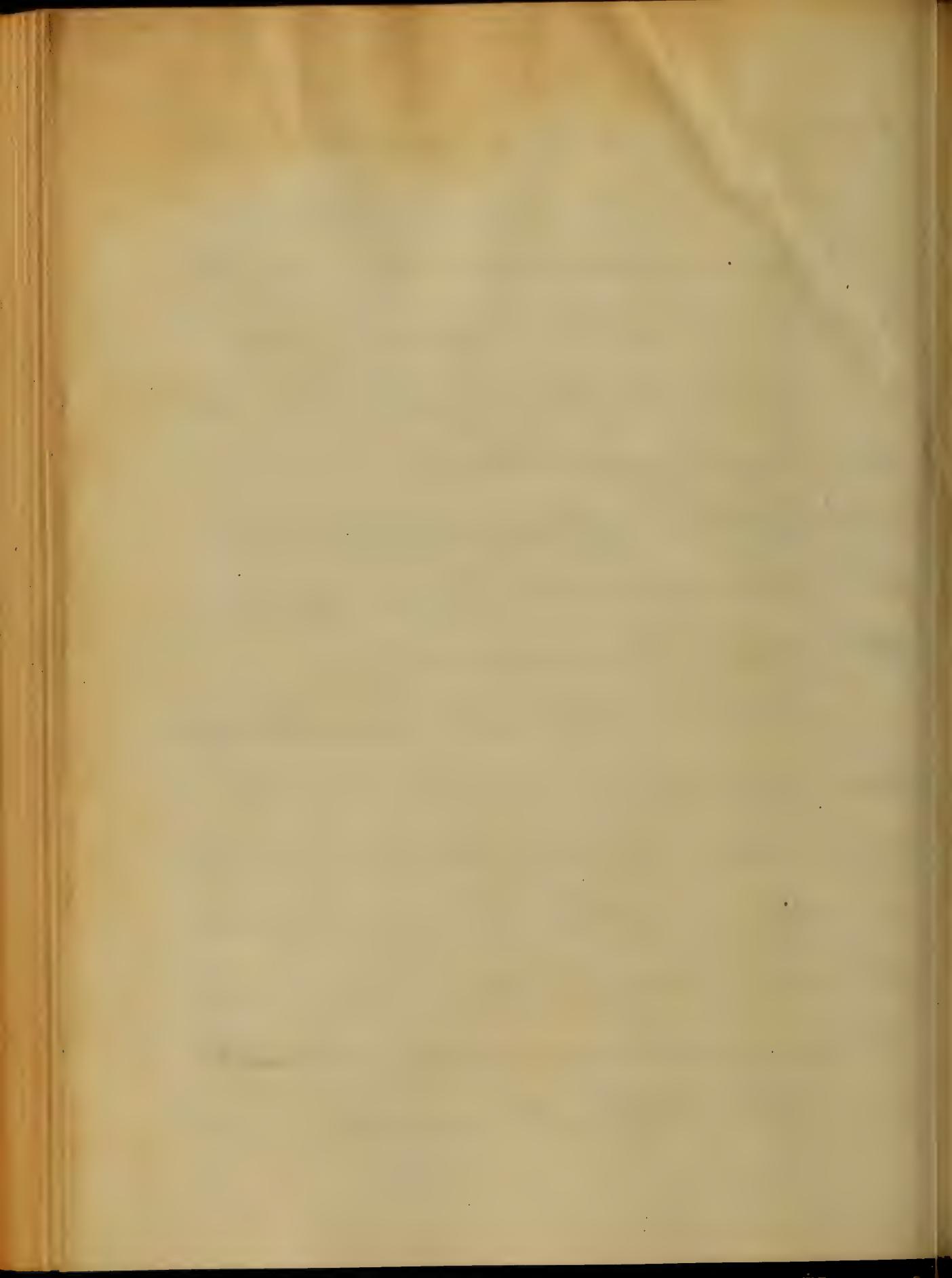
I think very much is to be ab-  
sorbed from the present discussion



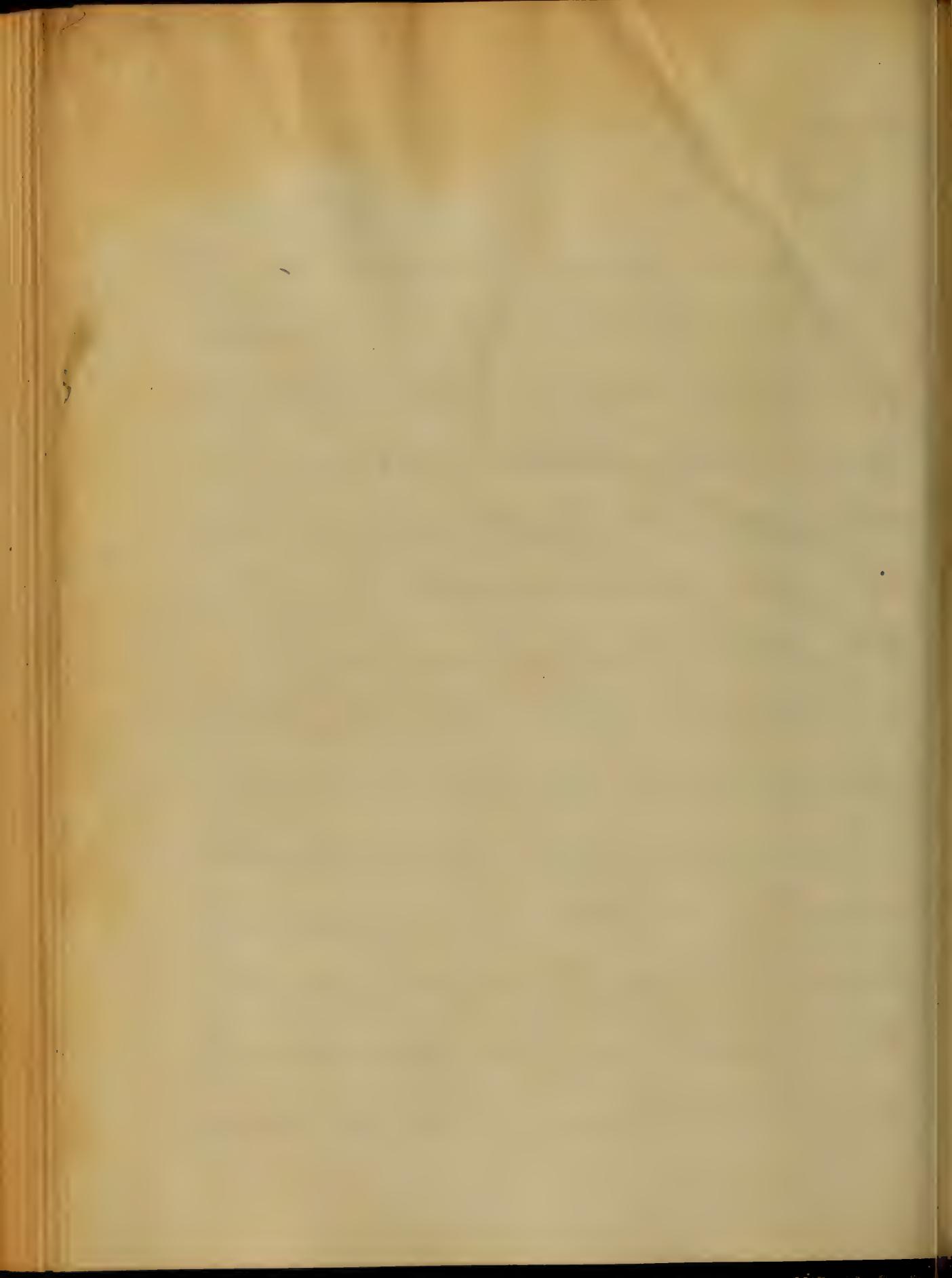
tions of the galvanometer, but it  
is desirable for a knowledge of some  
of the circumstances under which  
they might at this time arise,  
The above mentioned experiments  
were performed either,

- I Upon the healthy human organism.
- II Upon the diseased human organism.
- III Upon the lower animals.

I Those performed upon the healthy  
human organism must have been  
conducted by one subject, or repeated  
on other subjects. If only one  
subject of idiosyncrasy is encountered,  
it is difficult upon a number of different  
subjects of controlling them sufficiently



to diet, but it is insidious.  
It is performed upon us  
diseased men & women, 1<sup>st</sup>  
no allowance is to be made  
for idiosyncrasies & difficult  
in controlling habits, diet &c as in  
those upon the healthy. 2<sup>nd</sup> so that  
it is administered for the relief of  
disease & disturbance in the function  
of the system we may find what  
effect it has upon surrounding  
parts but it will be difficult to  
ascertain its specific action  
in the latter as well as in all the  
rest, and moreover it would be  
difficult to discriminate between



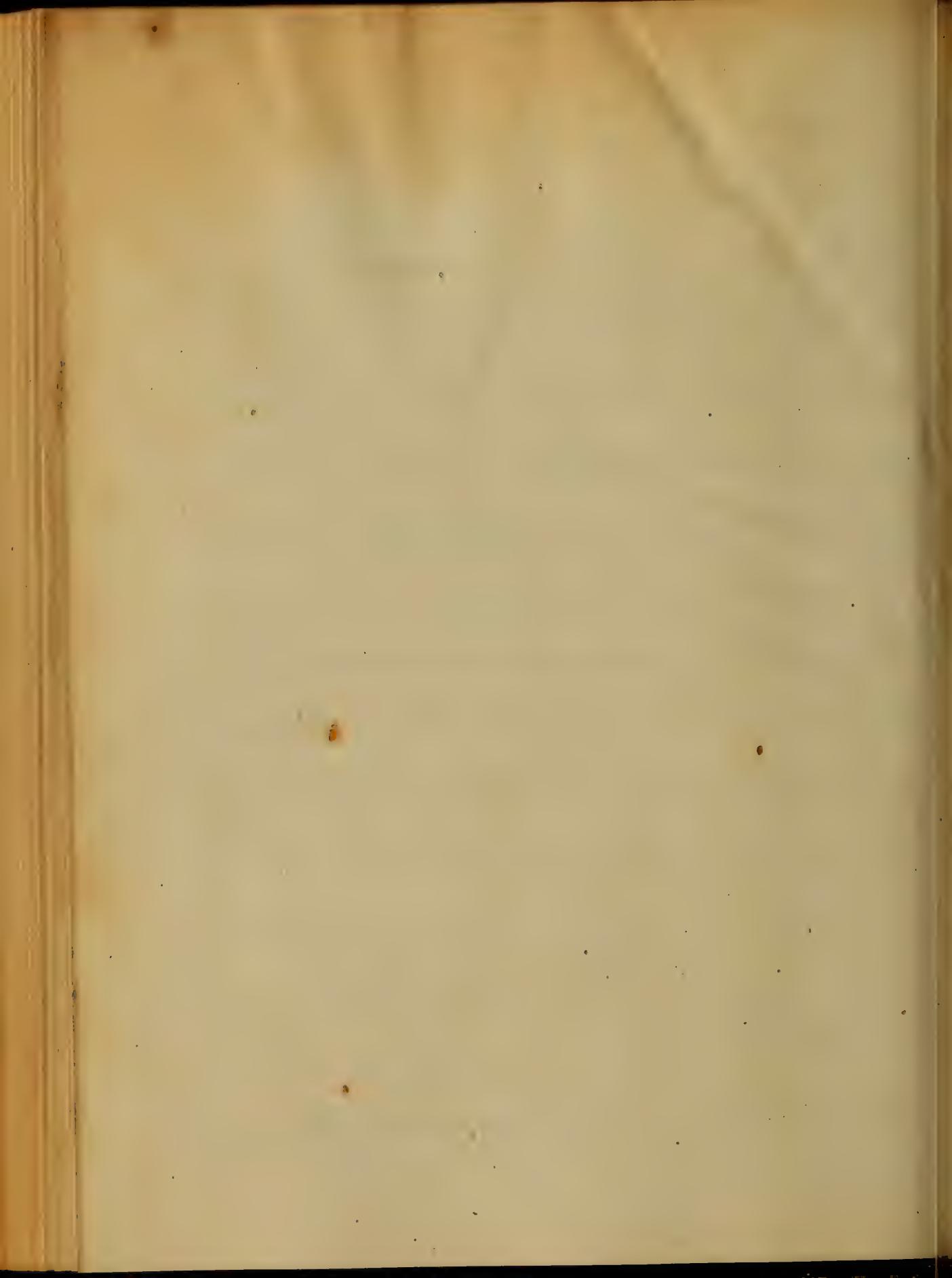
such results and those changes which  
are mere evidence of the disease  
under treatment. 3d Medicines of  
this class (sedatives) and 4th opozites  
(stimulants), often have the property of  
modifying the so-called functional  
disturbances so as to have no  
any effect upon the remainder of  
the system. I remember seeing a  
man who was in a severe attack  
of asthma 12 grains of Opium & its  
equivalent had been administered  
in a little over three hours with  
no other apparent effect than that of  
relieving the pain; but it had a  
most happy effect, however, if the ap-



2

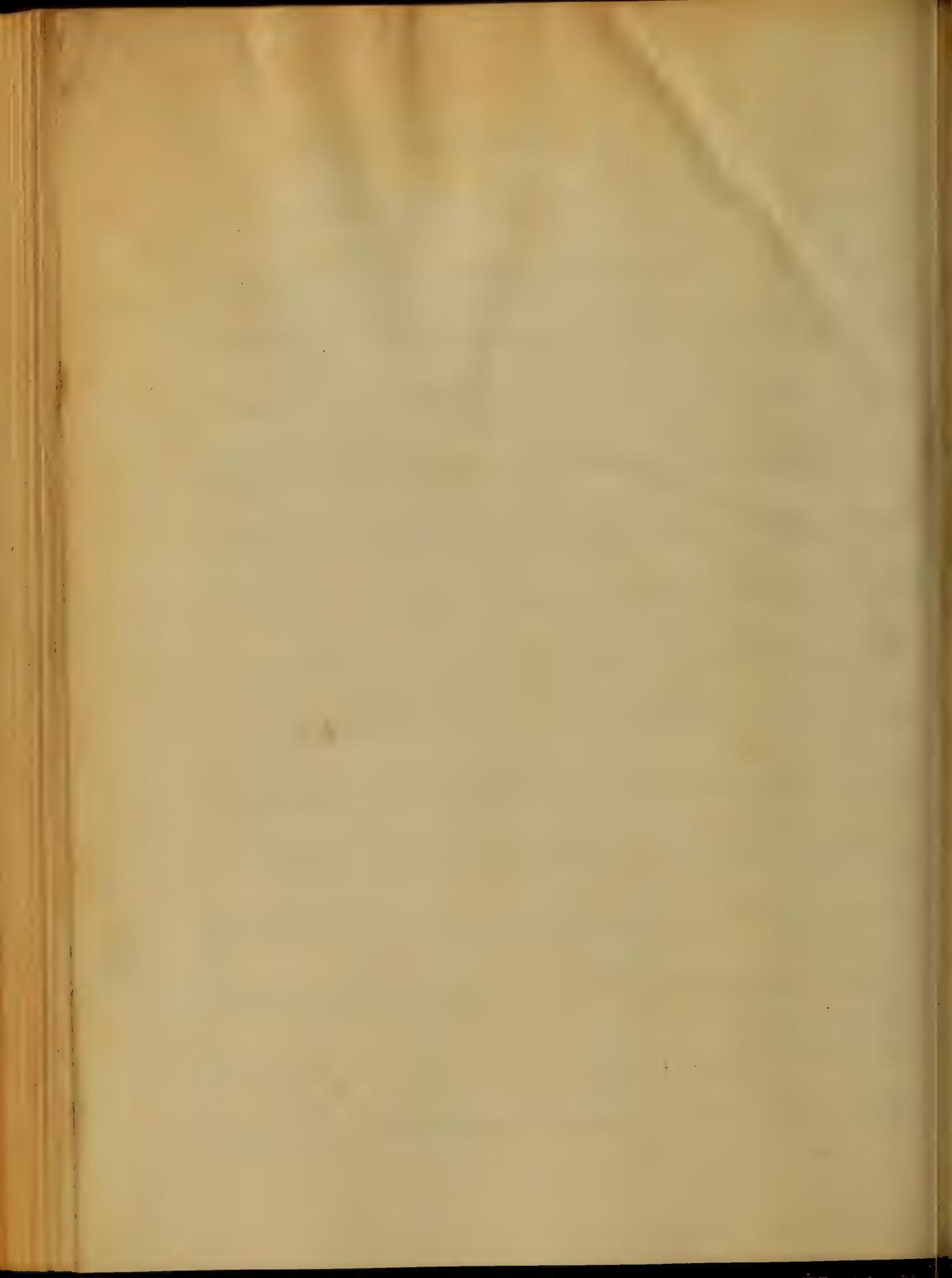
feels of opium and its prepara-  
tions had been observed only in  
order the profession might have  
been led to the conclusion that  
its special seat of action was the  
gastro-intestinal canals and sim-  
ilar errors would no doubt, have  
resulted from observing its effects  
in relieving disease situated in  
other portions of the system. There-  
fore the therapeutic and physiologi-  
cal effects of medicine are not  
identical.

III In the performance  
which animals without  
the sense of tasting are spe-



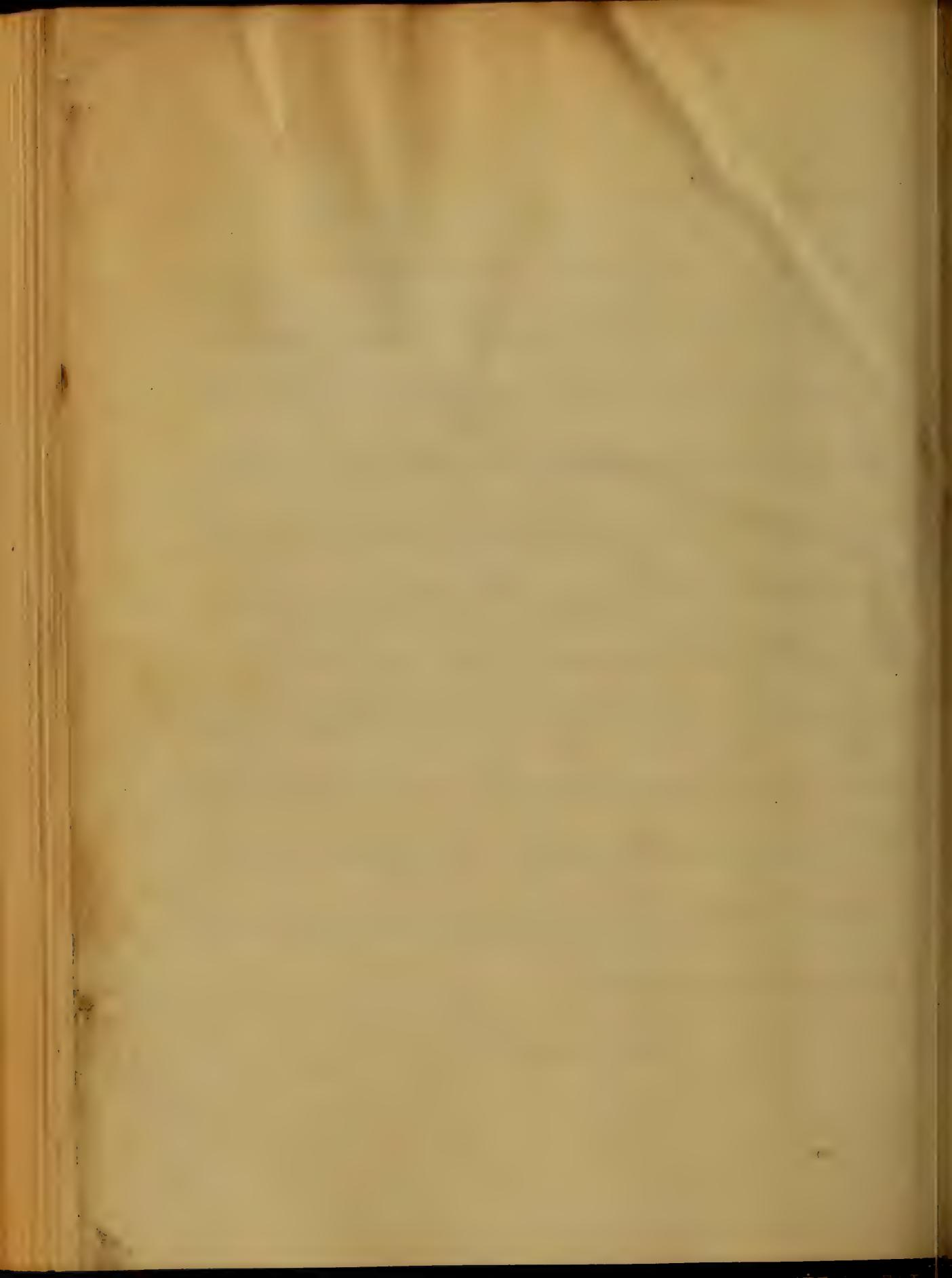
more numerous, for some time,  
each life of animal is its  
own classification with  
this; belladonna and stramonium.  
are not poison to rats and  
rabbits, Austin asserts that, no less  
acts on ants like stramonium, likewise  
will know from experience, it is  
widely diffused the plains is used  
largely of tobacco, it is common  
then, to predict all the beneficial  
action or man of a drug from  
even its well known and clearly  
defined action on the lower an-  
imals.

These are our own conclusions



in regard to the action of the  
medicine may be summed  
up as follows; that bromide of  
potassium is perfectly soluble and de-  
obtrusively, decomposed, soluble in  
the whole cerebro-spinal nervous  
system, and perhaps especially un-  
derrible to the eyes, to which organs  
and the pharynx, that it has the  
property of killing irritability of  
the parts we doubt not, but we think  
this last result, may be explained  
upon the principle of its general  
sedative action.

"The End,



AN  
Inaugural Dissertation  
ON  
*Delirium Tremens.*

Submitted to the Examination  
OF THE  
Provost, Regents and Faculty

OF  
**PHYSIC,**  
OF THE

UNIVERSITY OF MARYLAND,

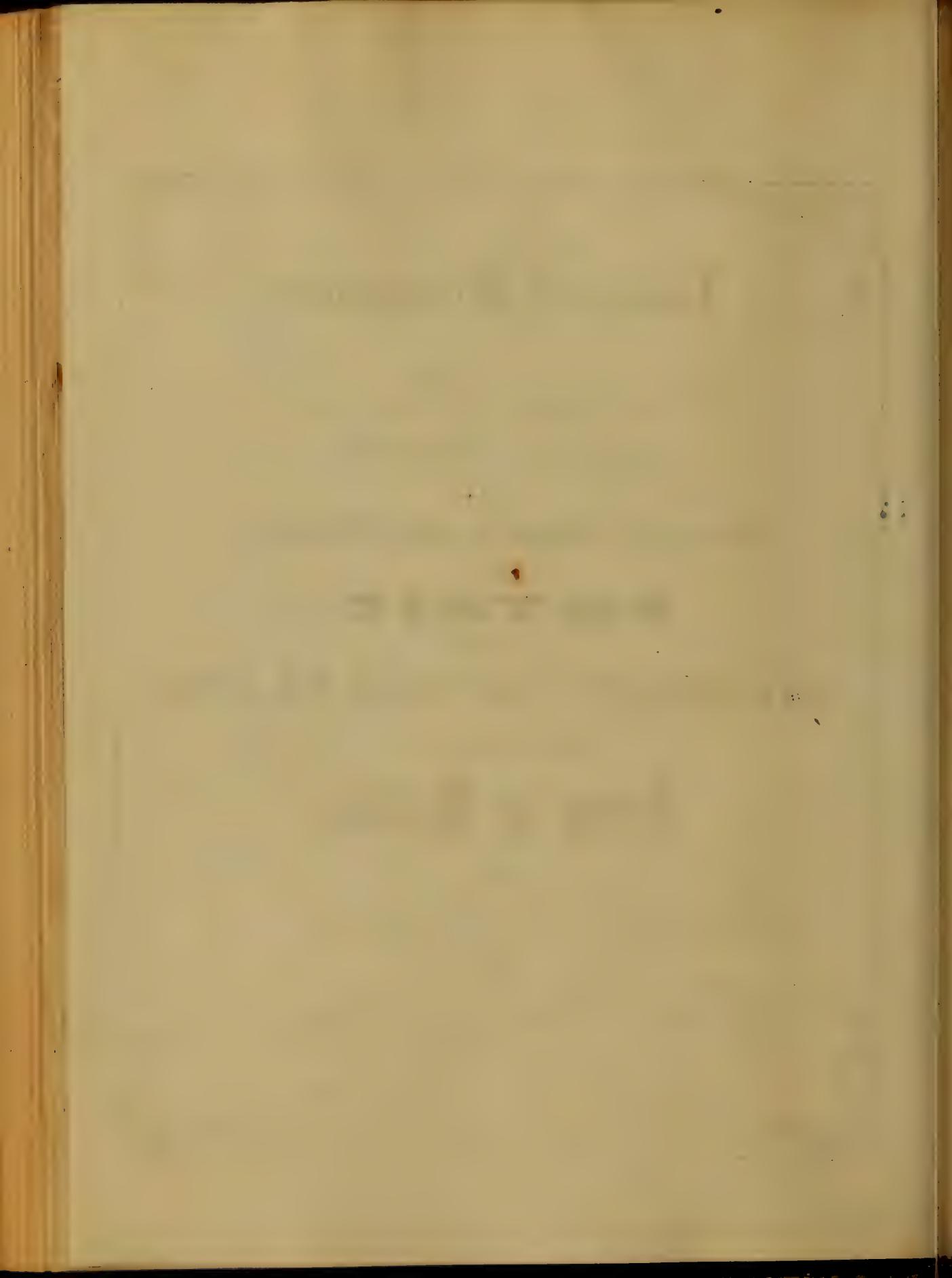
FOR THE DEGREE OF

DOCTOR OF MEDICINE,

Charles J. Jenkins,

St. Paul County, Maryland.

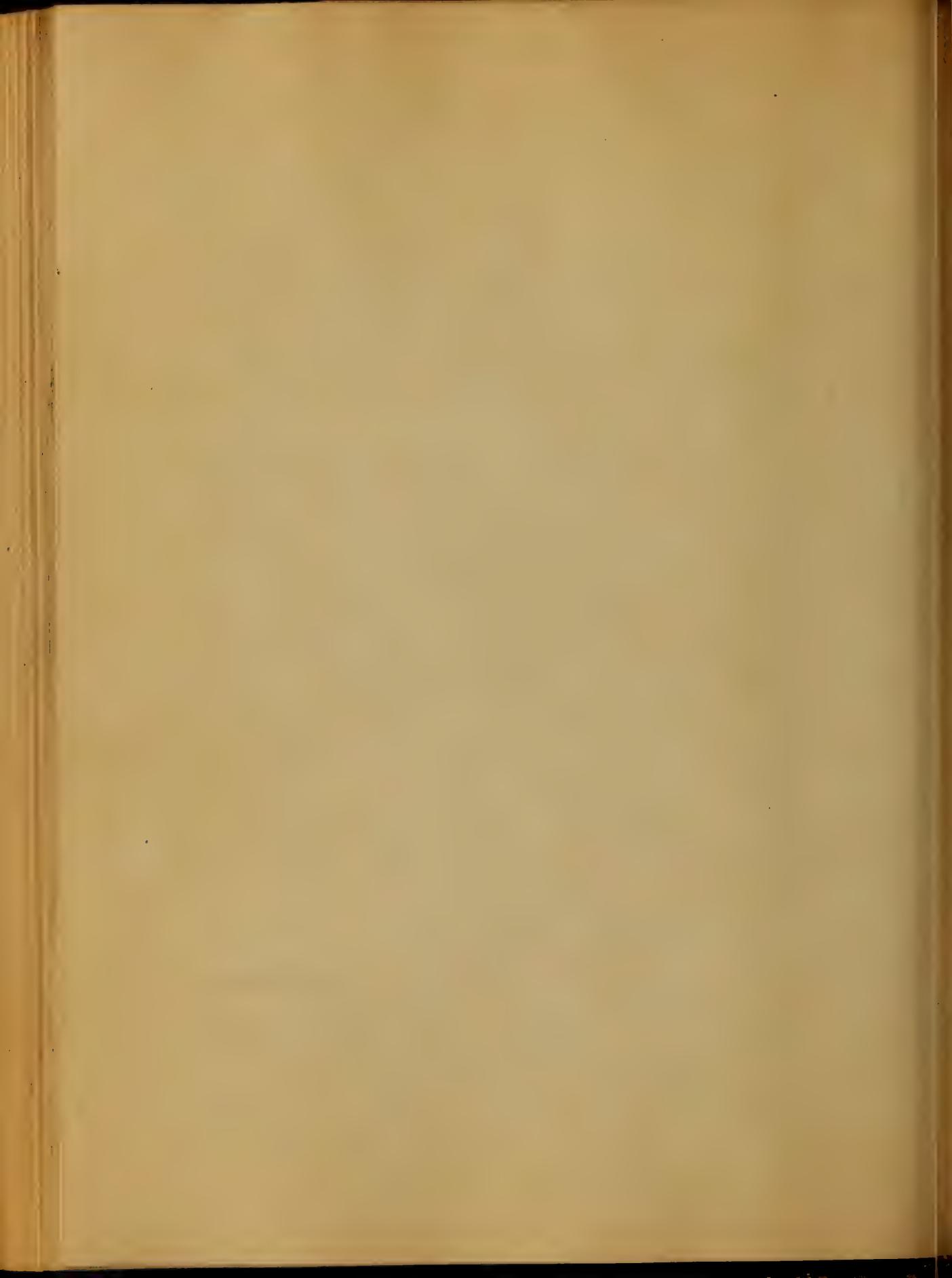
Session of ..... 1809



## *Nelumbo Nucifera.*

The diseases of the eye are not so  
known to man, and more justly urgent  
in their demand for the medical art,  
than the one we propose making the  
subject of this dissertation.

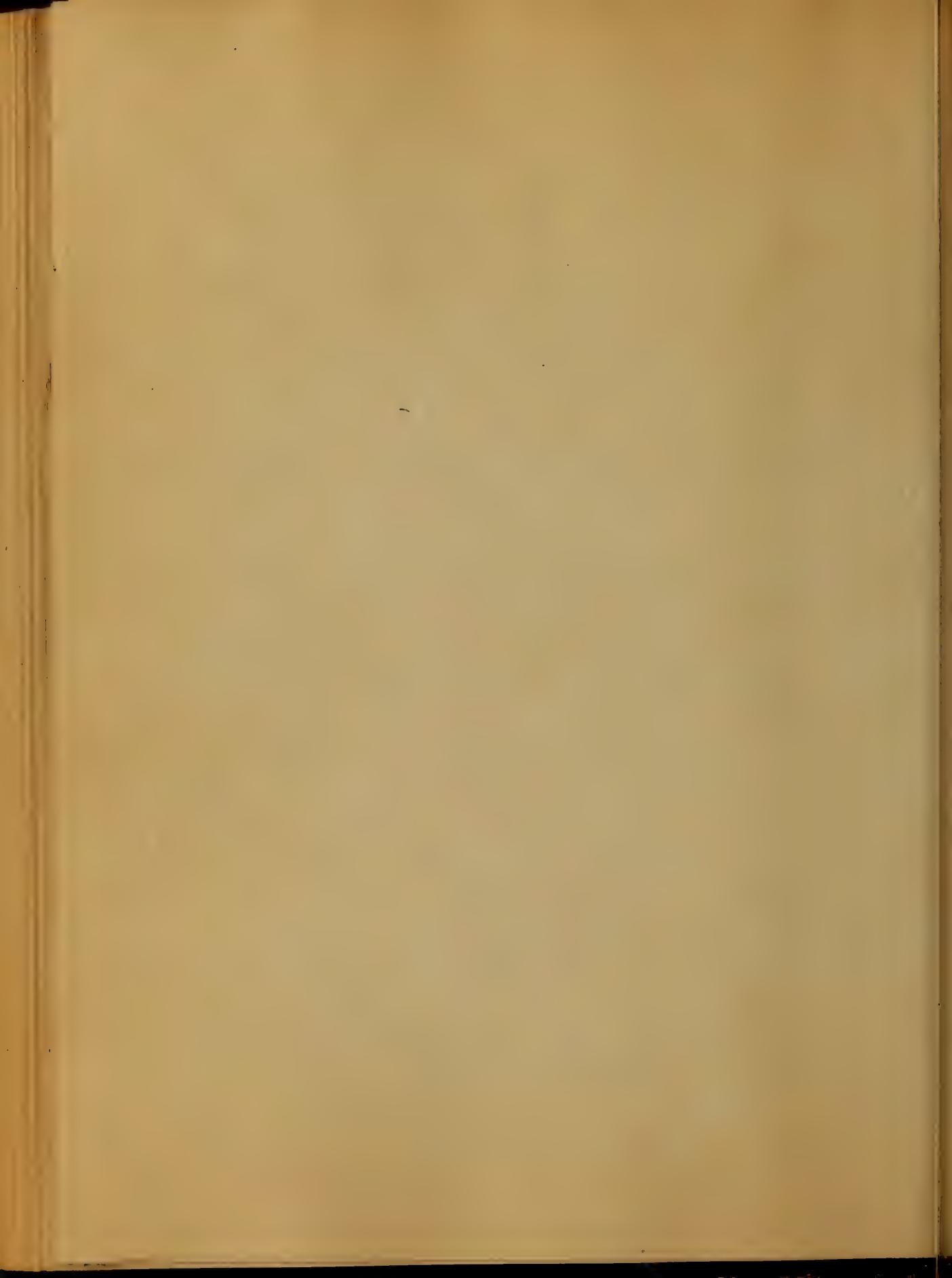
The incident suggesting the following  
as a drink, we know to be the one  
great cause of this affection, and there-  
fore, not like many other diseases, is  
*Nelumbo Nucifera* to be known in  
certain men or less extended districts,  
and at certain periods or seasons,  
but as unlimited as the field in  
which the cause operates, fast so  
necessarily do we expect to observe  
the disease. Making then, for the  
survey of its occurrence among all



classes of men, ignorant and in total obscurity that envelopes all its pathological features, will make it a subject of peculiar interest for every true physician.

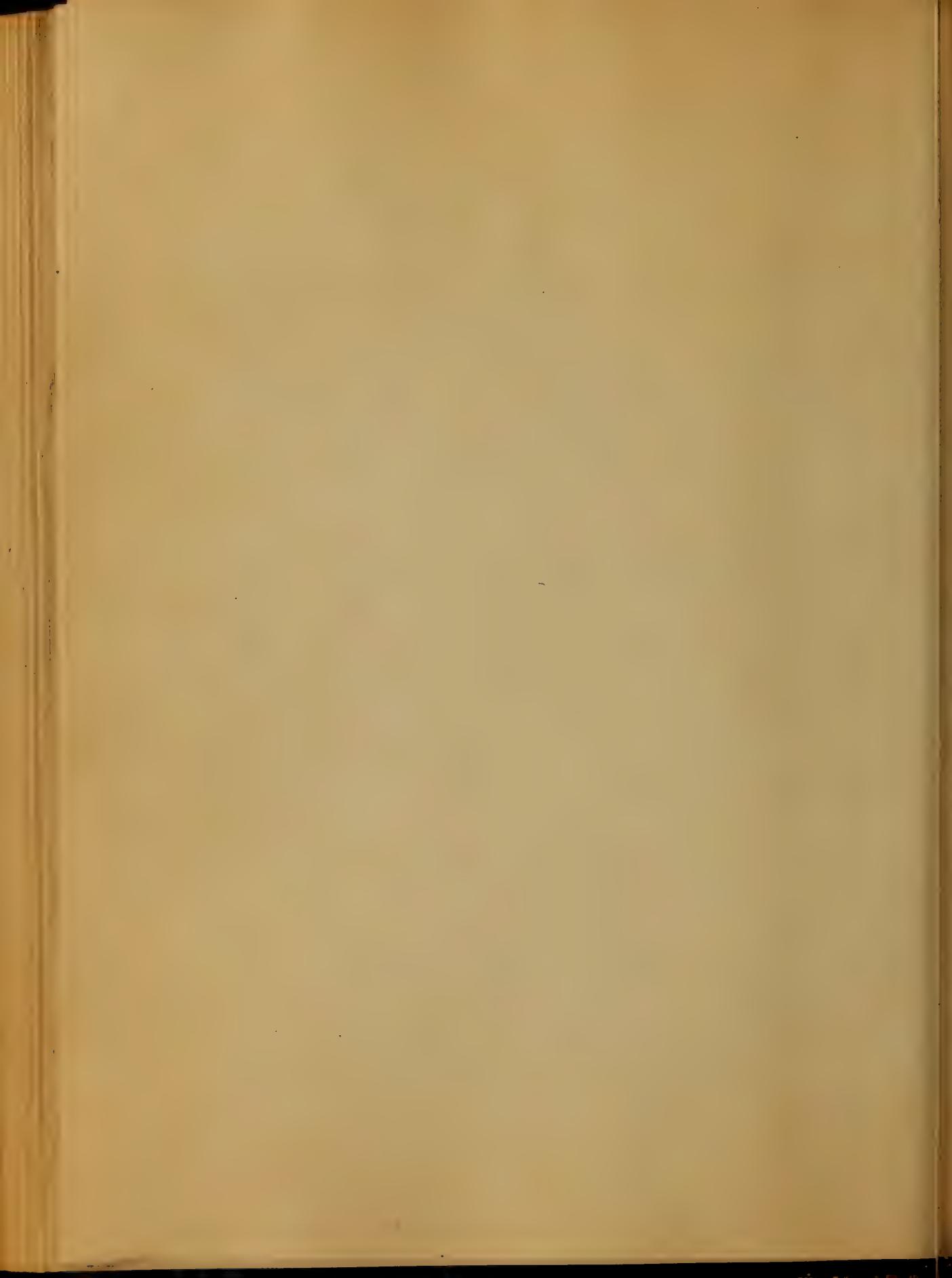
The various morbid effects of chronic use of alcohol are known under the general head of alcoholismus, which indirectly causes the production of very many diseases, by lessening the power of the economy to resist their influences, as well as, entering directly into the causation of very many other serious interdental character.

It is curious to see how applied to this immediate effect of alcohol, the inhibition of the liver, would, if



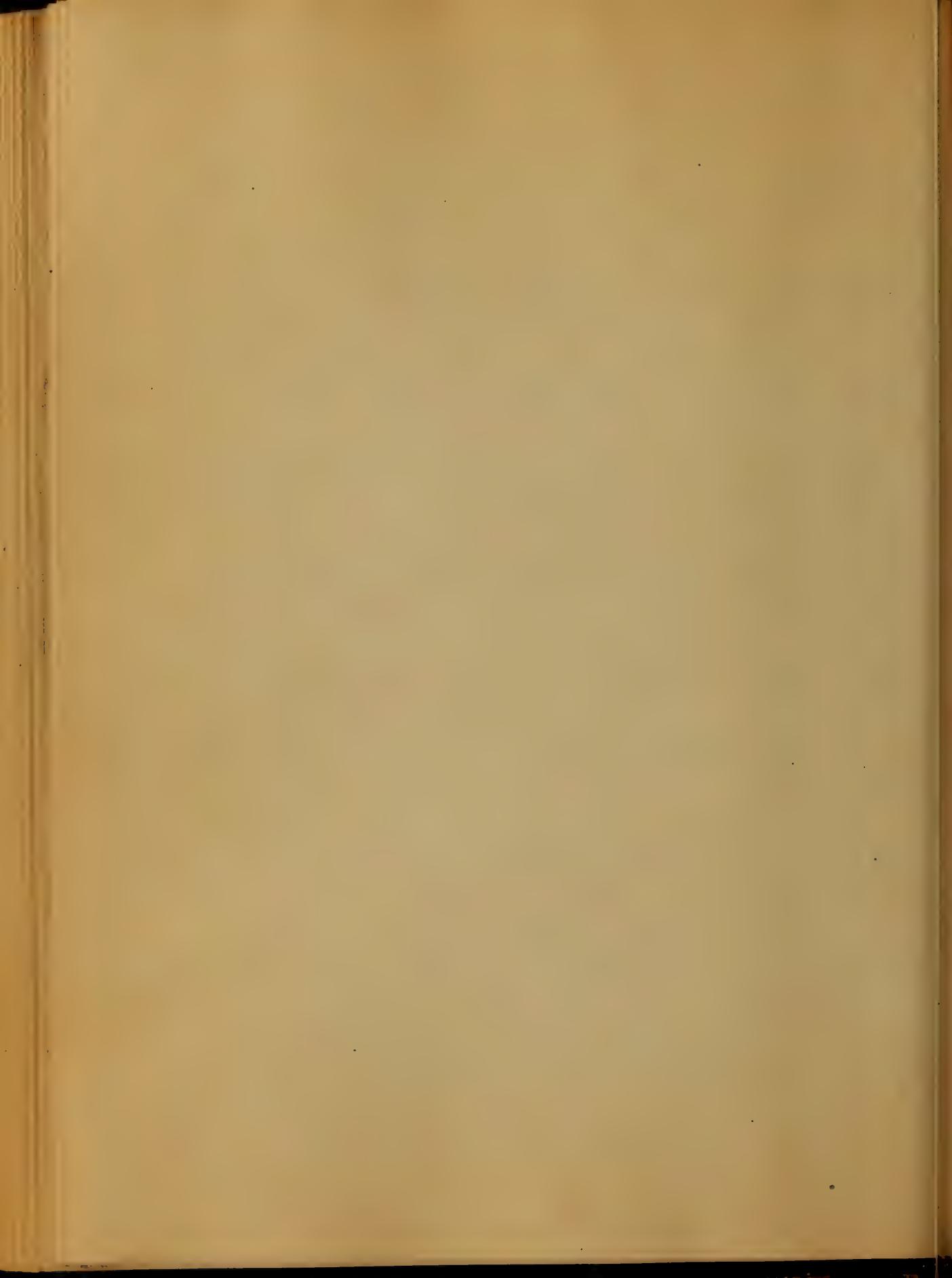
the agent and differs very markedly  
from the disease under consideration,  
which stands prominently among the  
effects of its continued use, and the  
so-called perhaps, of all, most frequently  
during the attacks of the med-  
ical man.

Selirium Tremens is purely a neu-  
rotic affection and is most frequently  
caused by the sudden withdrawal of  
alcoholic stimulants after a long  
continued use. It may be a conse-  
quence of the protracted action of  
morphine after the use. We therefore  
find it most frequently in persons,  
who voluntarily attempt the aban-  
doning of their dependence habit, or



the job as well, from some cause,  
to obtain the requisite amount to  
satisfy their vicious appetite.

Some authors state that the disease  
may be induced by long or  
severe overstraining of the nervous  
system, and although we are willing  
to accept this as productive of a  
few cases, there is no doubt, that, by  
far the greater number of cases are  
to be found among men addicted  
to excessive use of alcohol, in some  
or other various forms. Hence its  
most common name among persons  
out of the profession - Mania a potu.  
See Dr. John Chisholm's "Diseases of  
the Brain," & the chapter on "Alcoholism."

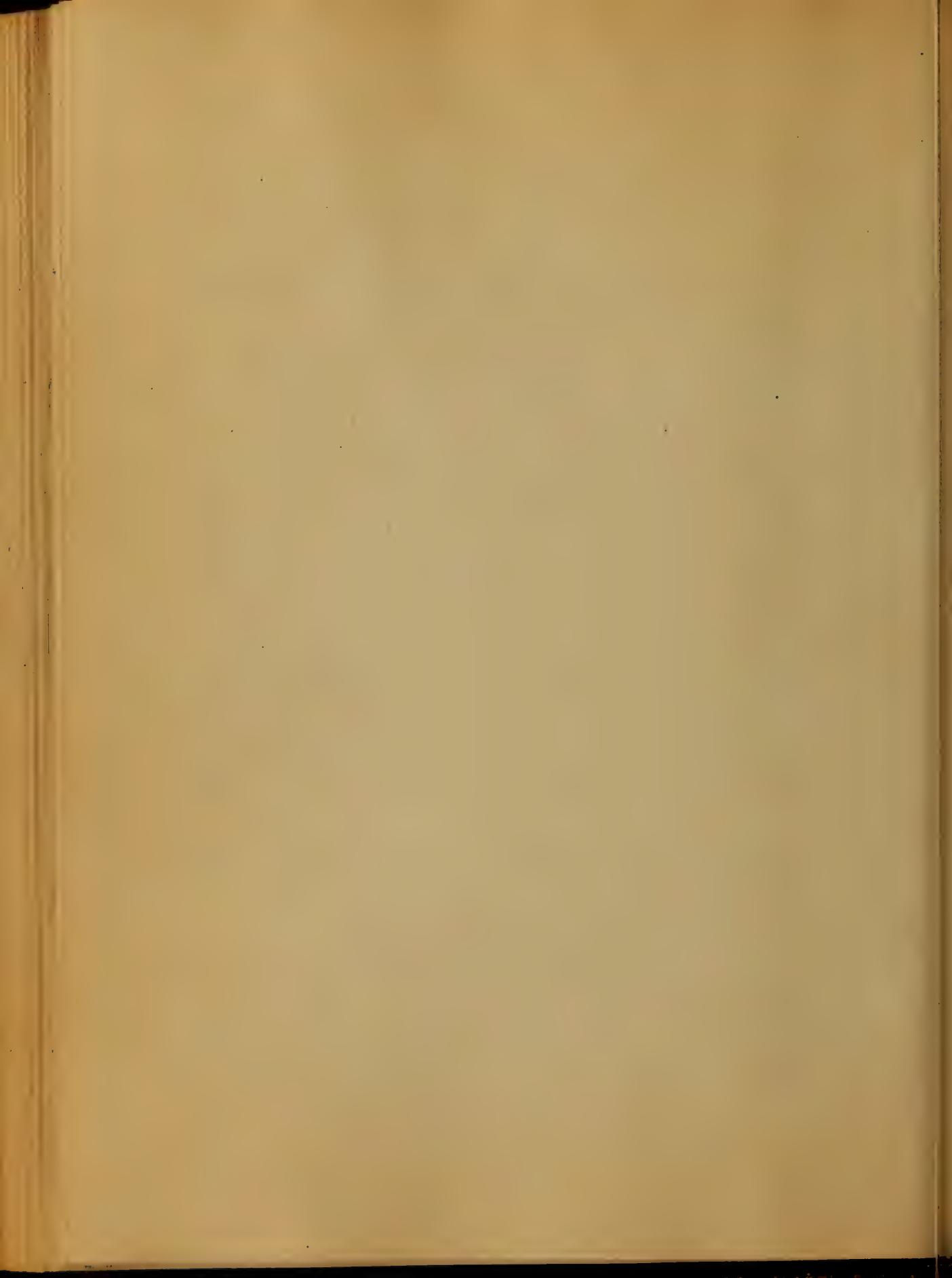


8

men, than women, alike subjected to its  
various causes. This is directly opposed  
to what we would naturally suppose  
that, taking into consideration the  
more sensitive character of the  
female constitution; nevertheless, all  
authorities agree that such is the case.

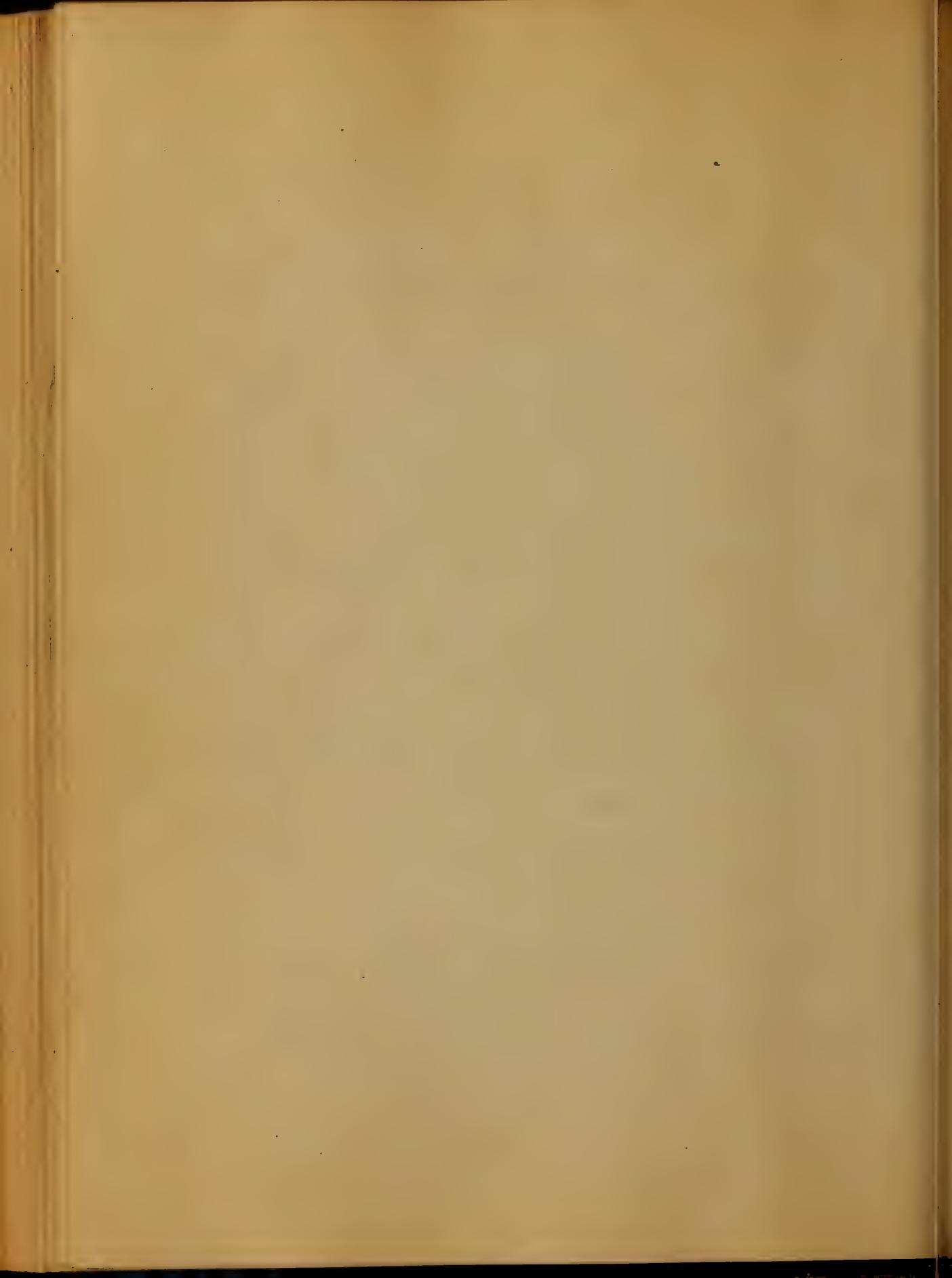
Formerly the prevalent opinion was,  
that Vomiting During pregnancy was pro-  
duced by the maternal liquor. But this  
idea is no longer held by medical  
men. I have witnessed an ease at  
the University Hospital brought on  
by a drink of this character.

The patient Mrs. H. A. H. & a resi-  
dential of the City, I do not know her  
name, took while under treatment the



out of the same place or in houses.  
The peculiar nature of the complaint  
with the proper method of treating it  
were first brought out in the year 1813  
by Dr. Salter of Greenwich in a lecture  
read before the Royal Society. During the  
past few years many essays and  
papers have appeared in England,  
France and this Country, where the  
disorder is very common.

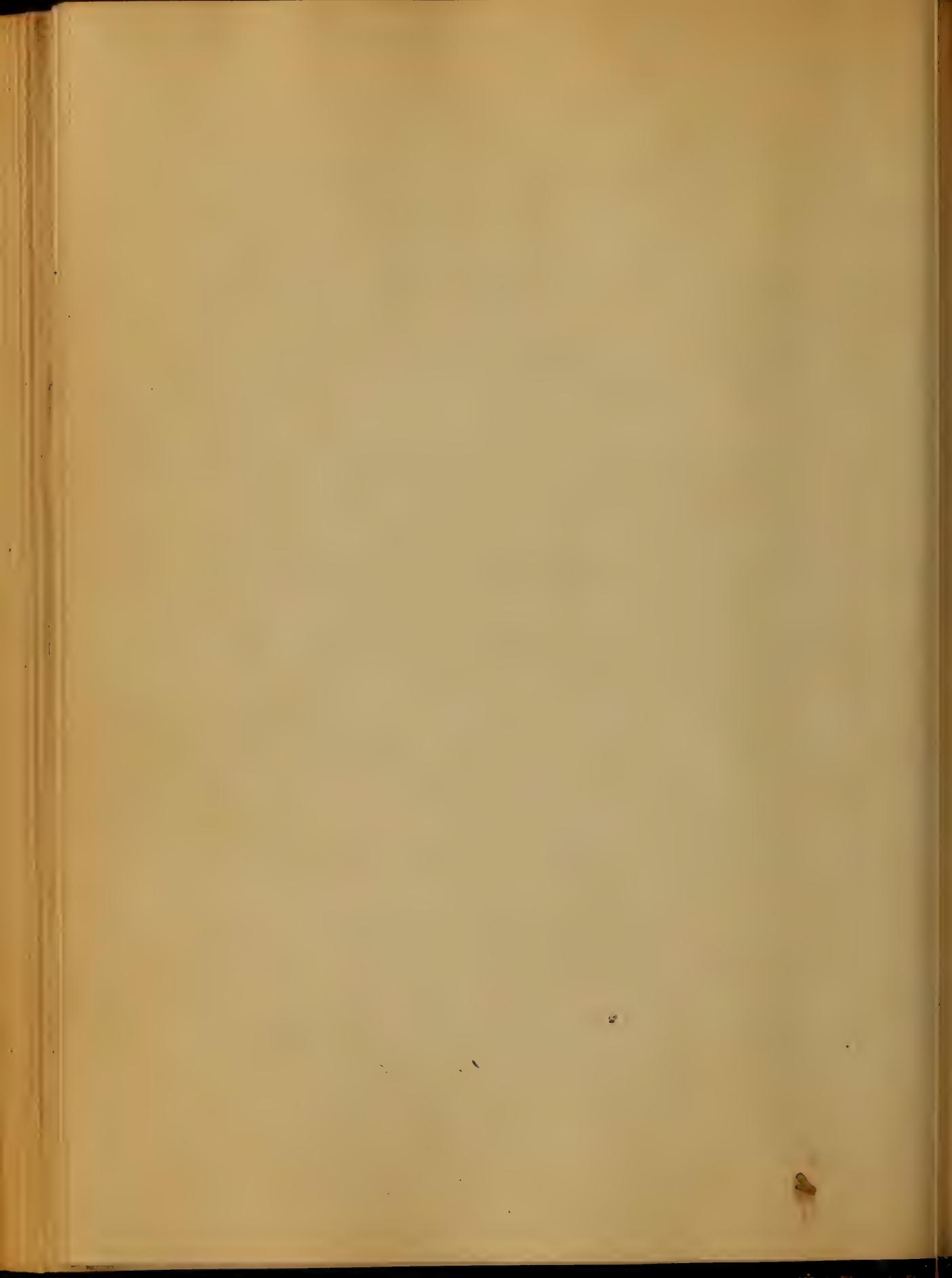
The symptoms characterising an attack  
are generally well marked, and although  
I do not expect to find every case pre-  
senting the same features yet there are a  
few, which in nearly every case may be  
confidently looked for. Recollect said  
Dr. Watson that "the" features of



1

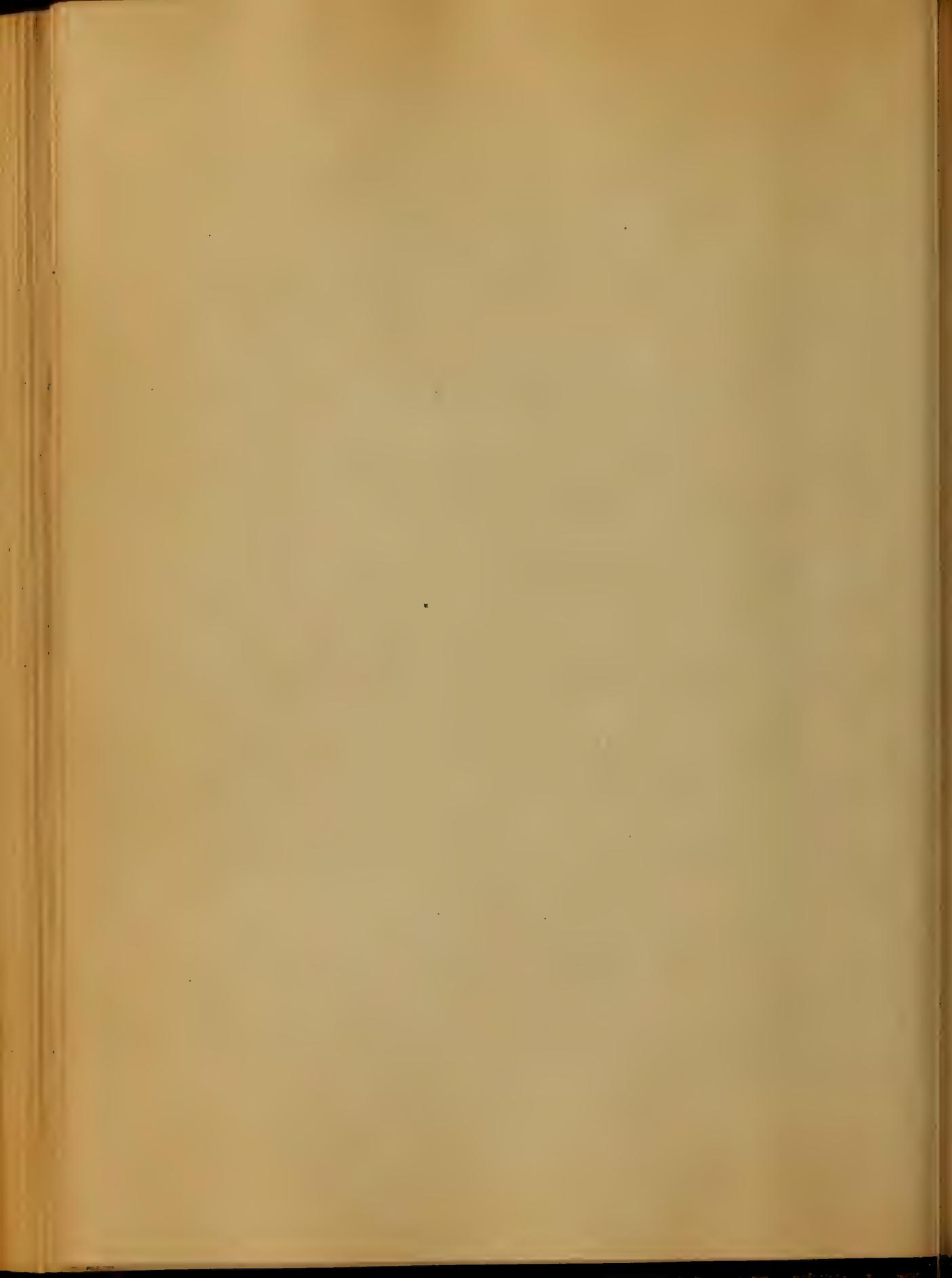
The complaint are sleeplessness; a burp  
but not burping; or violent, ~~delirious~~, con-  
stant chattering; trembling of the hands,  
with an eager and fitful employment of  
the same." To these are added other  
symptoms, which although they are not  
so calculated to strike the doctor,  
are of not less importance, inasmuch  
as they help to establish the diagnosis.

The tongue is moist and creamy;  
the pulse is soft, cough frequent,  
while the skin is perspiring and  
often bathed in sweat. This ~~sweat~~ secretion  
is described as having a peculiarly off-  
fensive odor. The face is sometimes  
pale, while at other, it is flushed  
and red, with eyes suffused.



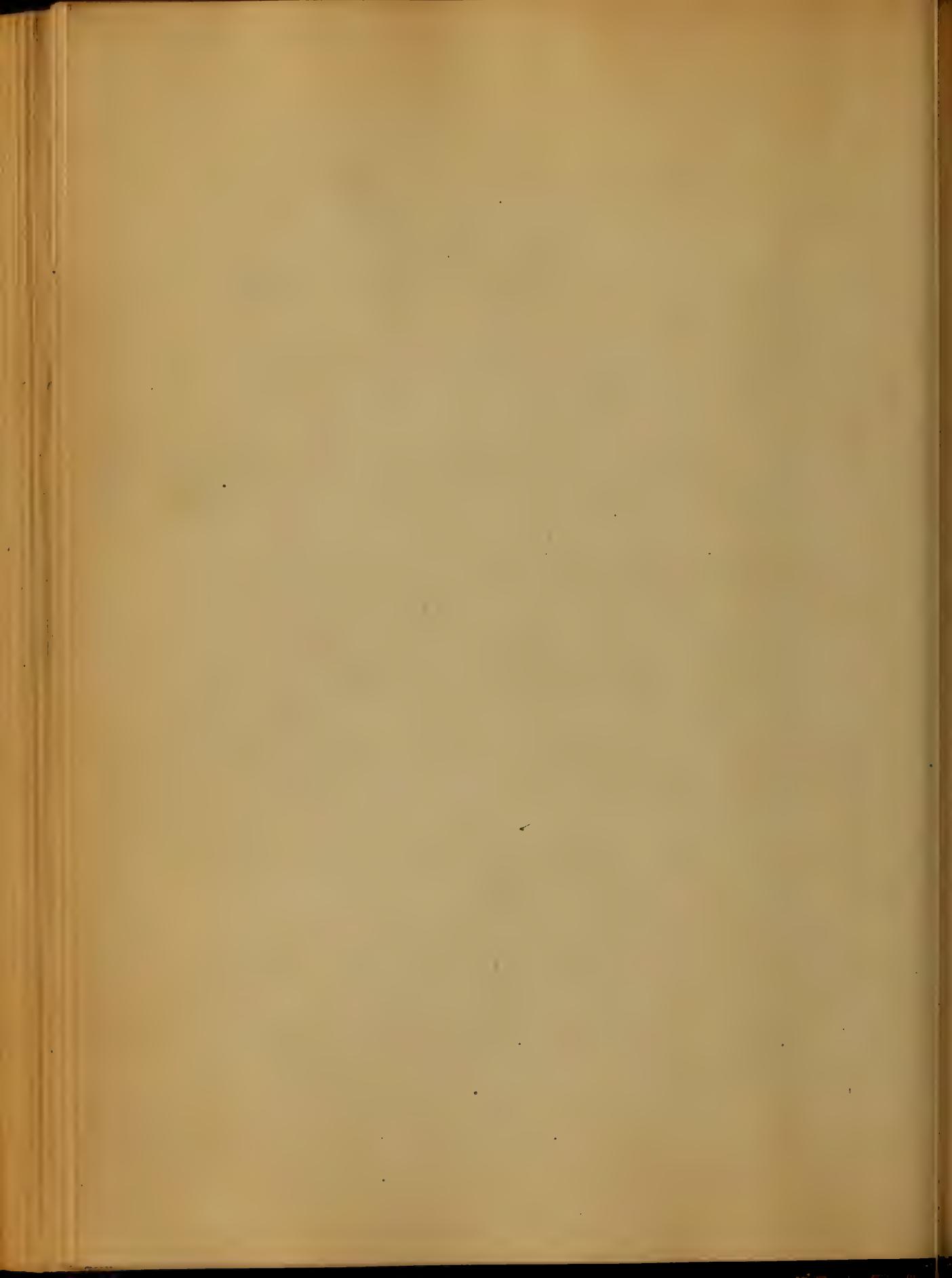
The muscular tremor so frequently present in the affection, often effects the tongue and thereby causes inexpressible difficulty in articulation &c.

But of all the symptoms, the somnium is the one most universally present, being almost pathognomonic when found associated with the delirium and in most mild cases seems to offer the only indication for treatment. I should have before stated that this is generally a developmental depression, which marks the first stage of the disease, lasting from one to three days, known by the subjects of this terrible malady as the "Horrors."



In this stage the mental suffering is intense, and more frequently now, than at any other time, is the patient prompted to commit some act of violence against his life or person.

As the disease advances the derangement is characteristic, although presenting different forms in one, or another, case on account of the circumstances surrounding the patient. His eyes take on a stare or vacant look, while his whole countenance looks frightened, or his expression is wild and painful to behold. He imagines all sorts of things - sick, that some person, perhaps a friend, is desirous of doing him an injury, or frequently, that he



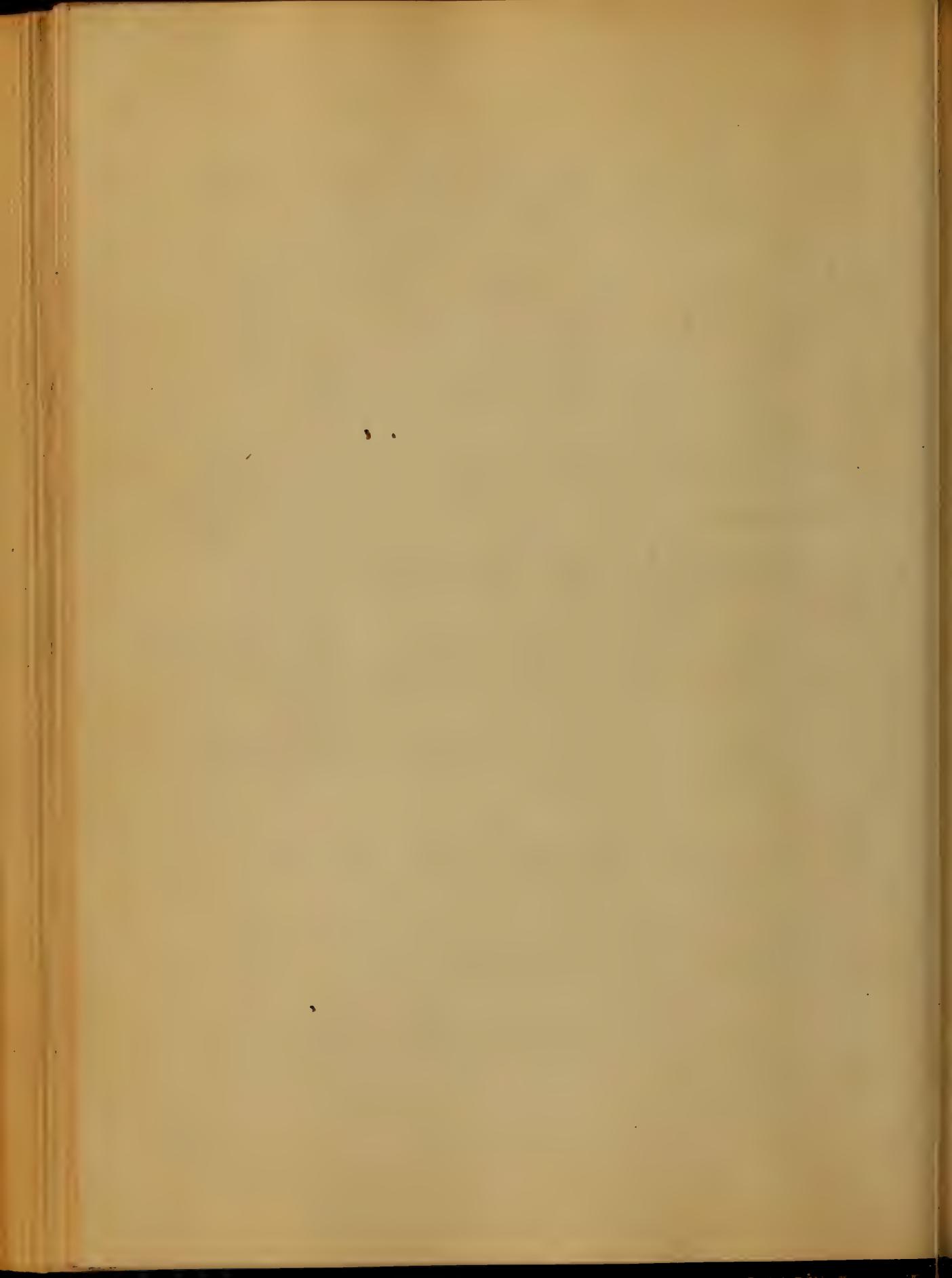
is beset by numberless animals or insects.

In fact, his fears are continually vacillating from one absurd thing to another. To all this, we usually have added, anorexia with constipation which last throughout the course of the disease, and offer sometimes troublesome symptoms for remediation.

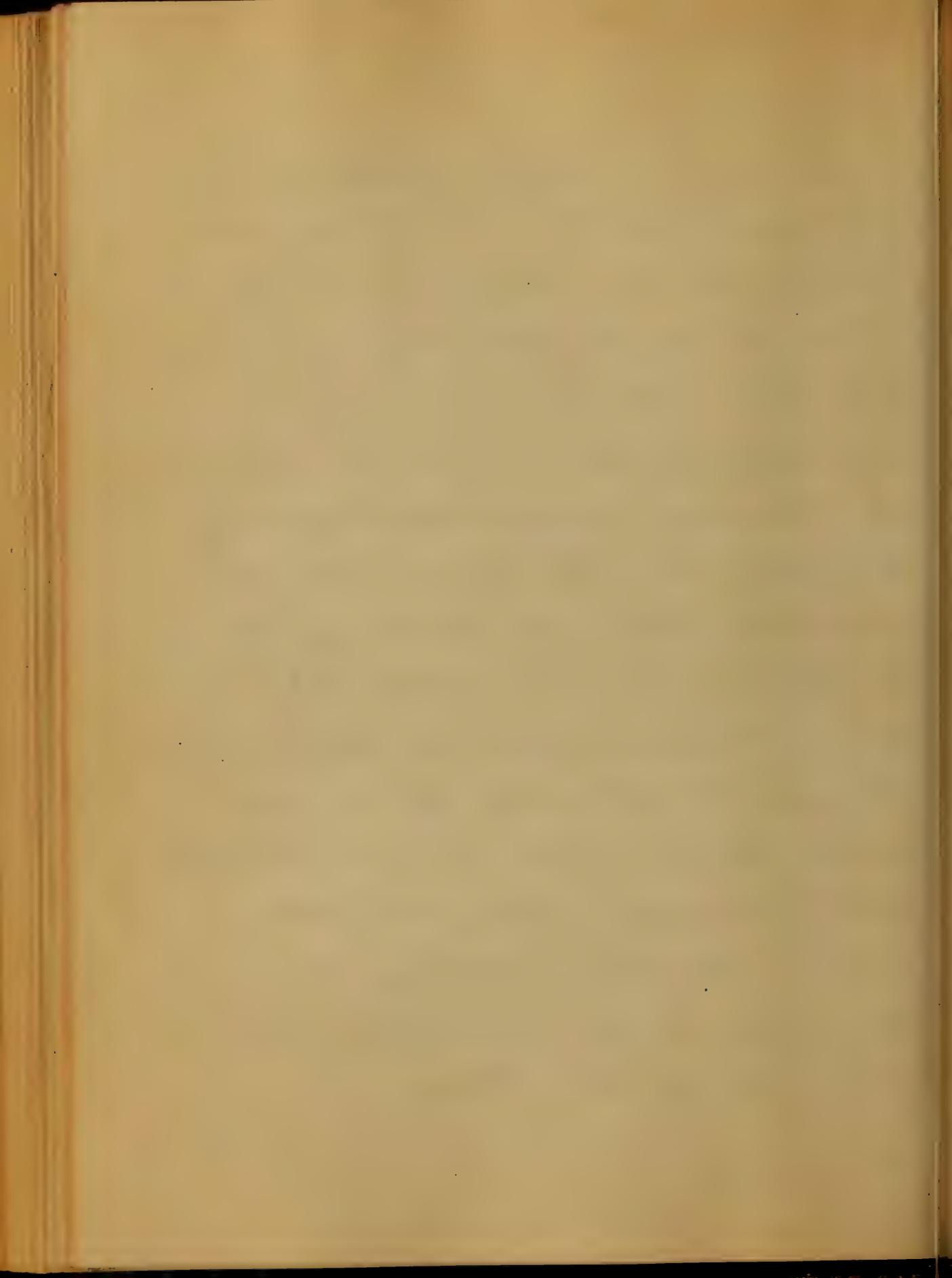
There is little, or no, pain experienced by the sufferer, who on being questioned, generally replies that there is nothing the matter with him.

The Diagnosis of Delirium Tremens is commonly easy and not fraught with much difficulty on account of the similarity of this, and other diseases.

The affection most likely to be

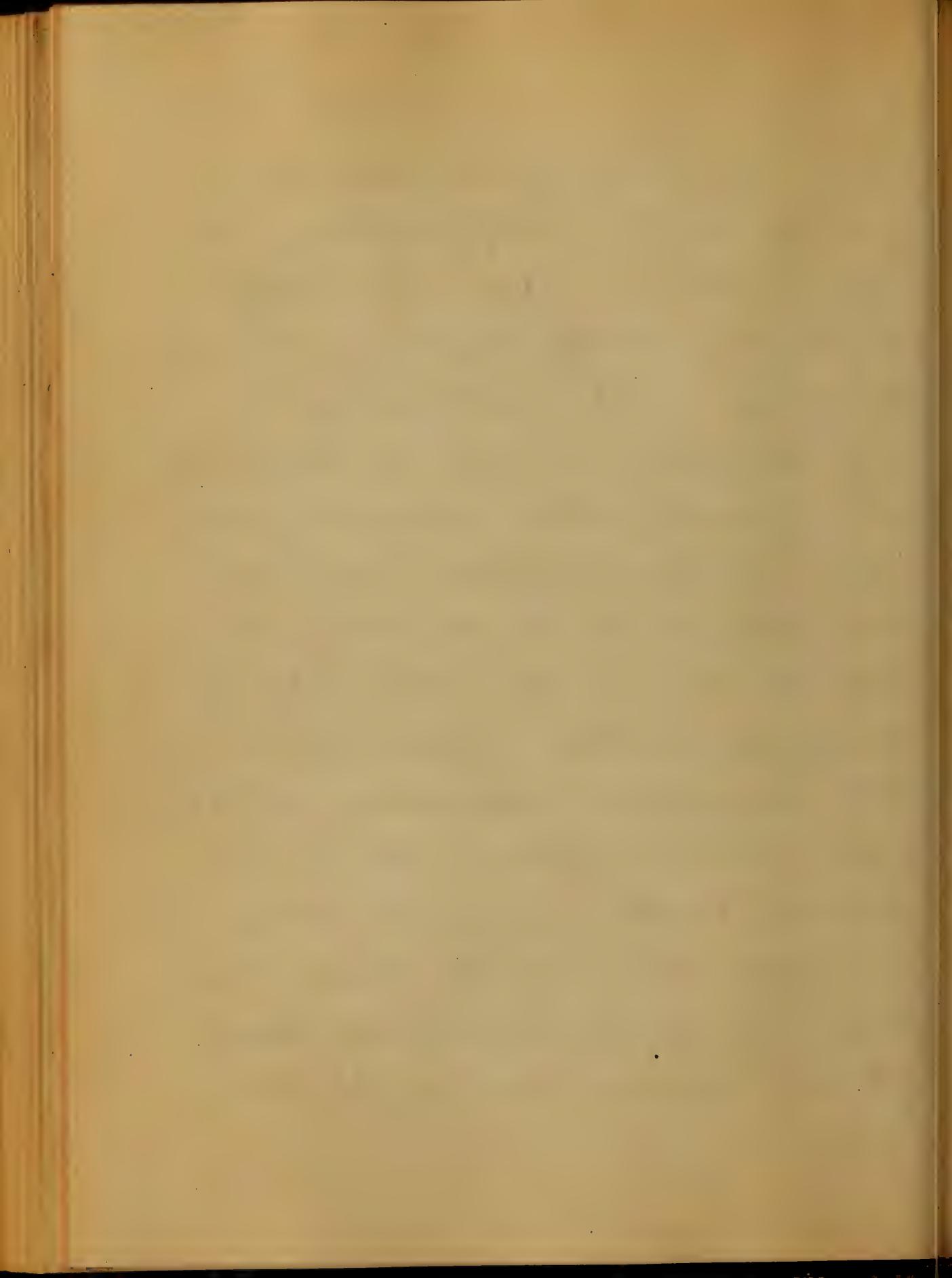


confounded with it, is encephalitis, but  
if careful note be taken of the delirium,  
(which is always a busy delirium,) and  
of all the points of history in the case,  
together with the malicefulness so  
universally present in Delirium Tremens,  
the diagnosis may without difficulty  
be made out. Dr. Bence Jones also  
states that there is a deficiency of  
the phosphate constituents of the  
urine, so generally present in the  
disease Encephalitis. In no case  
should the practitioner be easily satisfied  
with a diagnosis, since the treatment  
resorted to usually in inflammation of  
the brain would be decidedly injurious  
in a case of this kind.



It is authoratively stated that bending, which is so frequently employed, when there is structural disease of the brain, is of itself, capable of producing the disease under consideration.

The prognosis is more or less favorable according to several circumstances. If it be the first attack, and the case presents no complications, the prognosis may be said to be almost always, favorable. Those cases are more aggravated and serious in character which are produced by the extended employment of the drug, than those caused by the abrupt withdrawal of it. If there be any pathological lesion peculiar to the



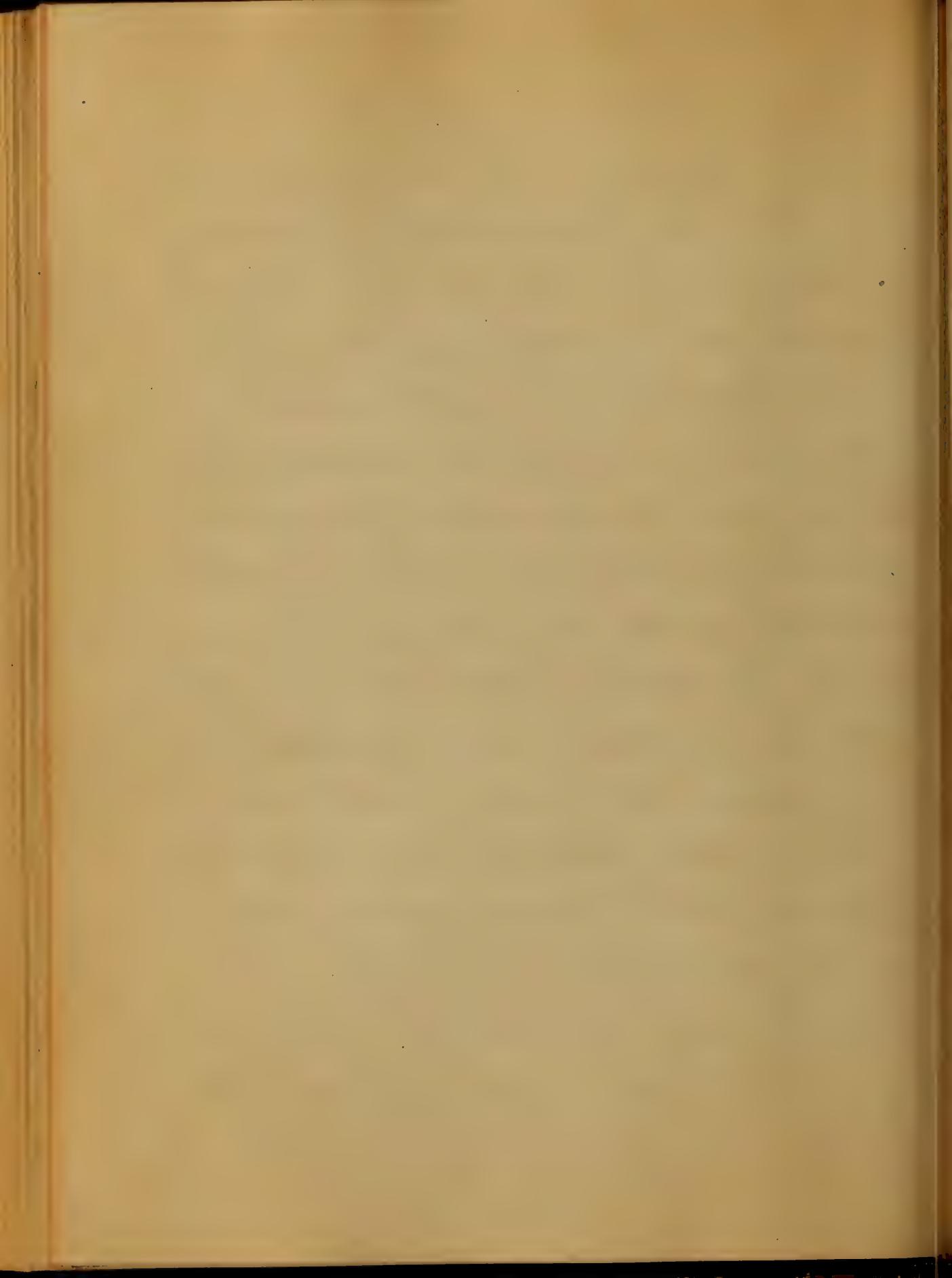
disease it is, as yet, unknown. All that can be said concerning the morbid condition, is, that the prolonged action of the Stimulant on the brain, induces a morbid condition of insomnia and delirium, unallieded by inflammation. Treatment. With this affection, as with almost all others, the treatment from time to time undergoes various changes, in the hands of different practitioners, who hope to establish the many theories of their speculative minds.

At one time, we hear of what is called expectant treatment, giving only strong food, without the use of Stimulants or opiate. Then we have the practice of giving laudanum



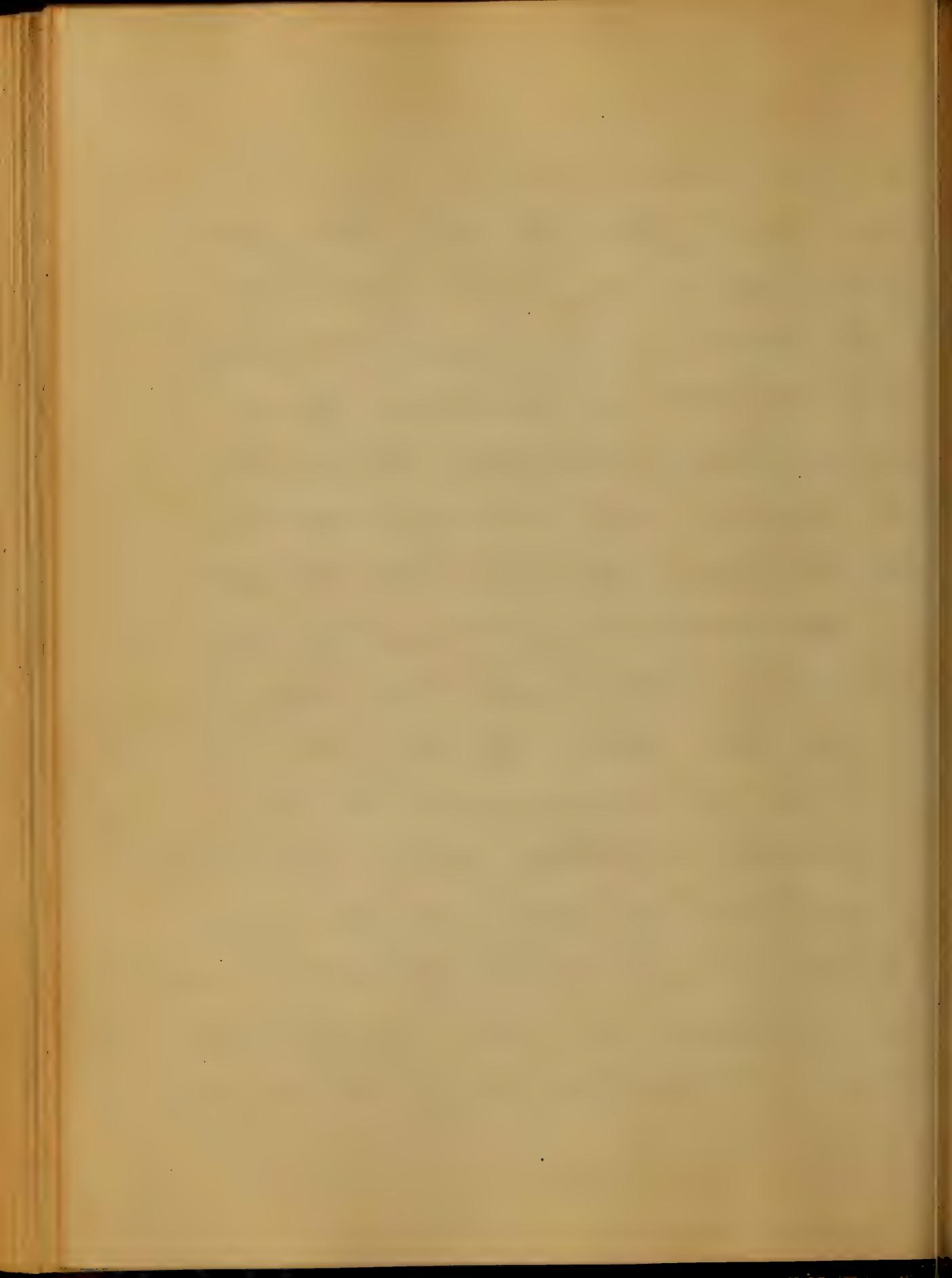
doses of digitalis, or by some preferring  
the internal administration of Chloroform  
in doses of one or two drachms - all of  
which, perhaps, proving beneficial  
in the hands of their appropriate  
atrocates in a certain number of  
cases, and under peculiar cir-  
cumstances. One is surprised when  
considering the very great frequency  
of the complaint, that it is yet the  
subject of such diversity of opinion  
as regards its proper treatment.

At one time bleeding was actually  
employed, but is early, if ever, abandoned  
in at the present day, and as  
long as the war which is now so  
zealously being waged against this



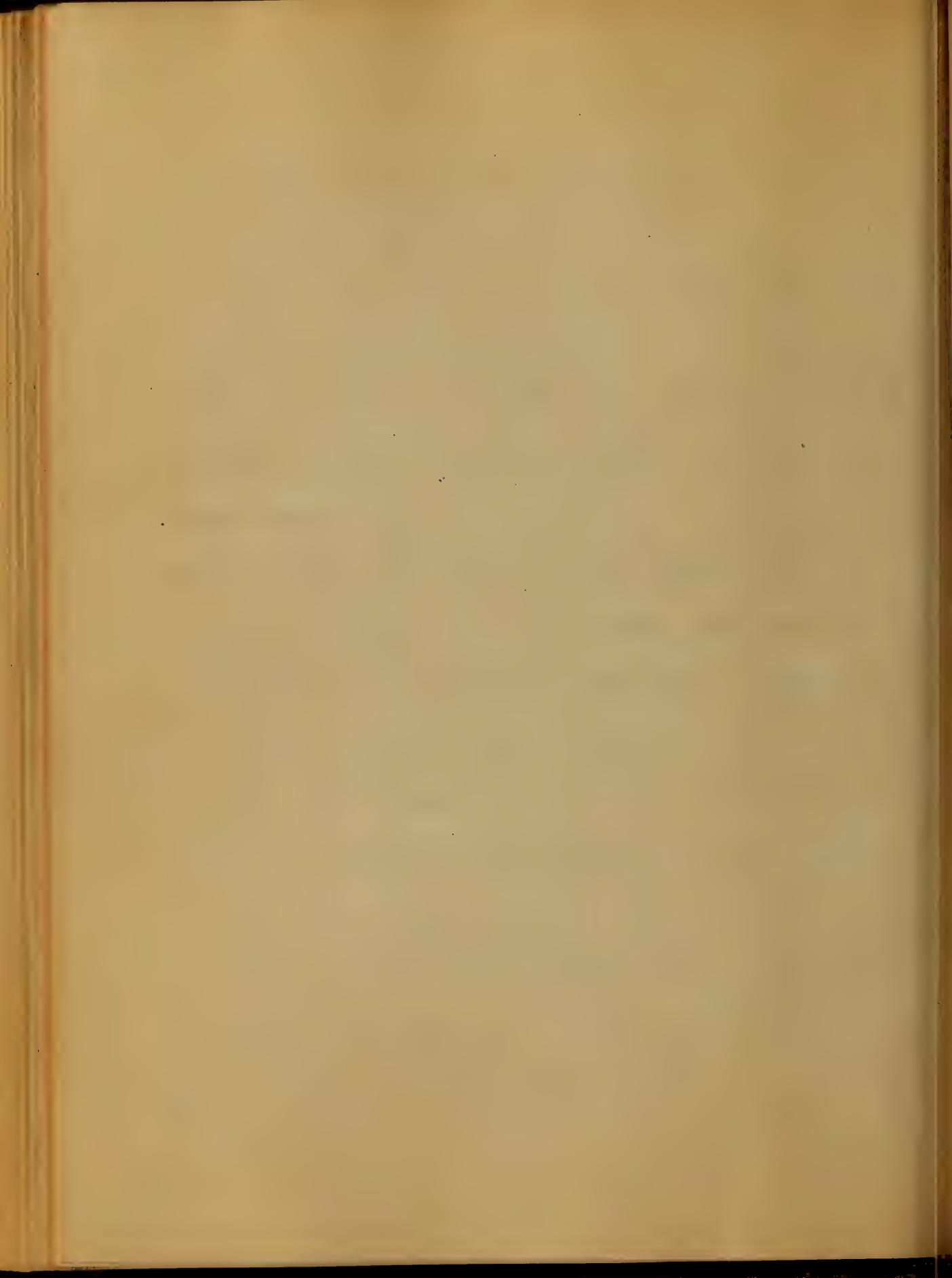
practice shall continue, we may have little fear for the bad effect of it, in this, or any other disease.

The insomnia is known to be the most troublesome feature of all cases, and I therefore think, that the force of all remedies should be directed against this symptom of the ailment in every stage of its course; although due care should be taken to allay the gastric derangement. For the production of sleep, Opium, of all drugs, held the greatest favour and for the longest time. Chloro, Bromido of Potassium, in many cases supersedes the employment of this agent.



I have myself witnessed the happiest effects of this drug, in the treatment of Ullerum Fremens in cases occurring at the Hospital attached to this College. Besides drugs, there are many precautions advantageously employed in the care of such cases.

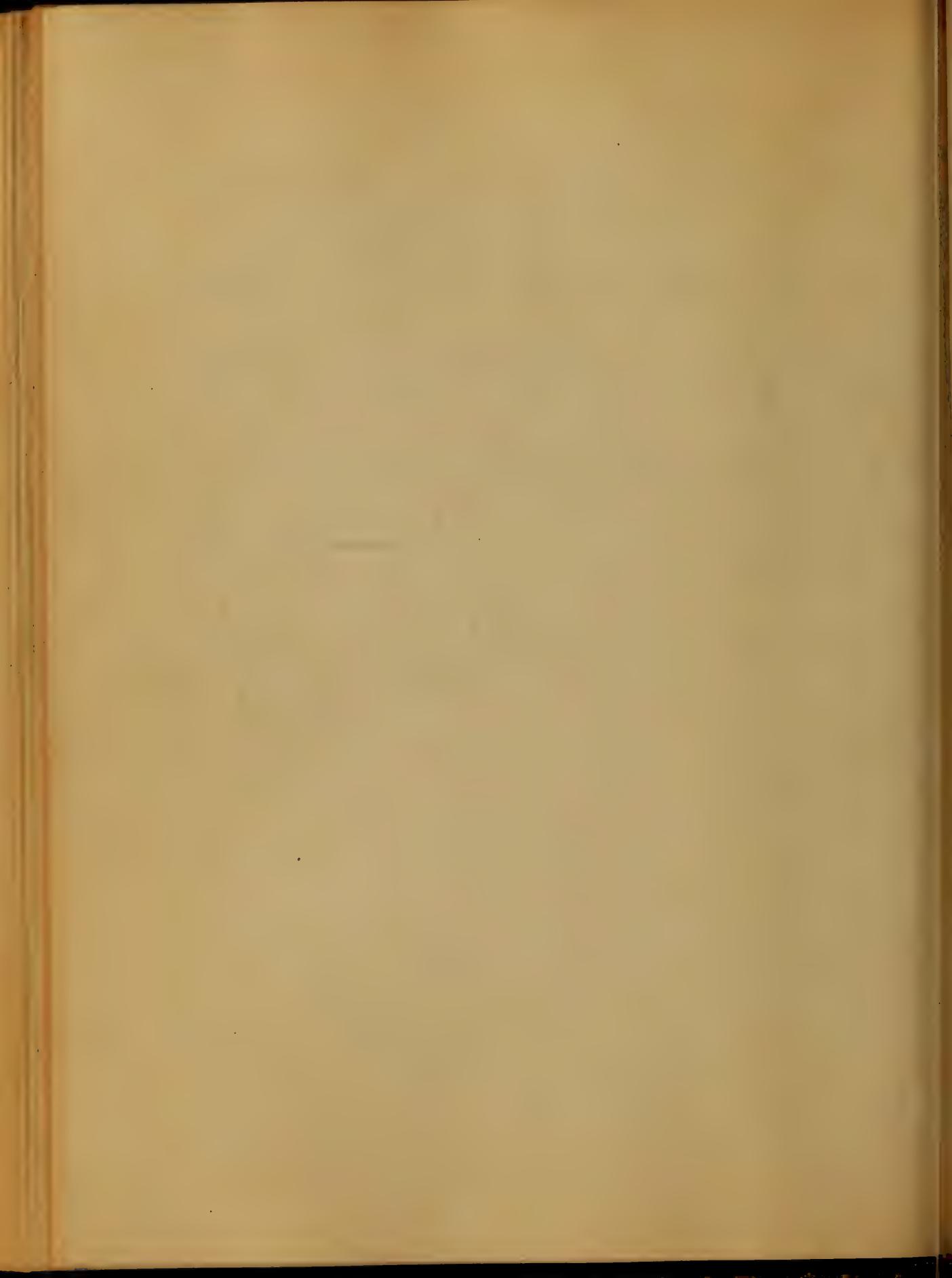
The patient should be carefully watched to prevent him from hurting himself, and be kept in a dark room, surrounded by every thing calculated to bring about the desired sleep. He should be allowed small portions of the agent producing the disease, and after carefully cleaning out his alimentary canal, should be fed with articles, both voluntary,

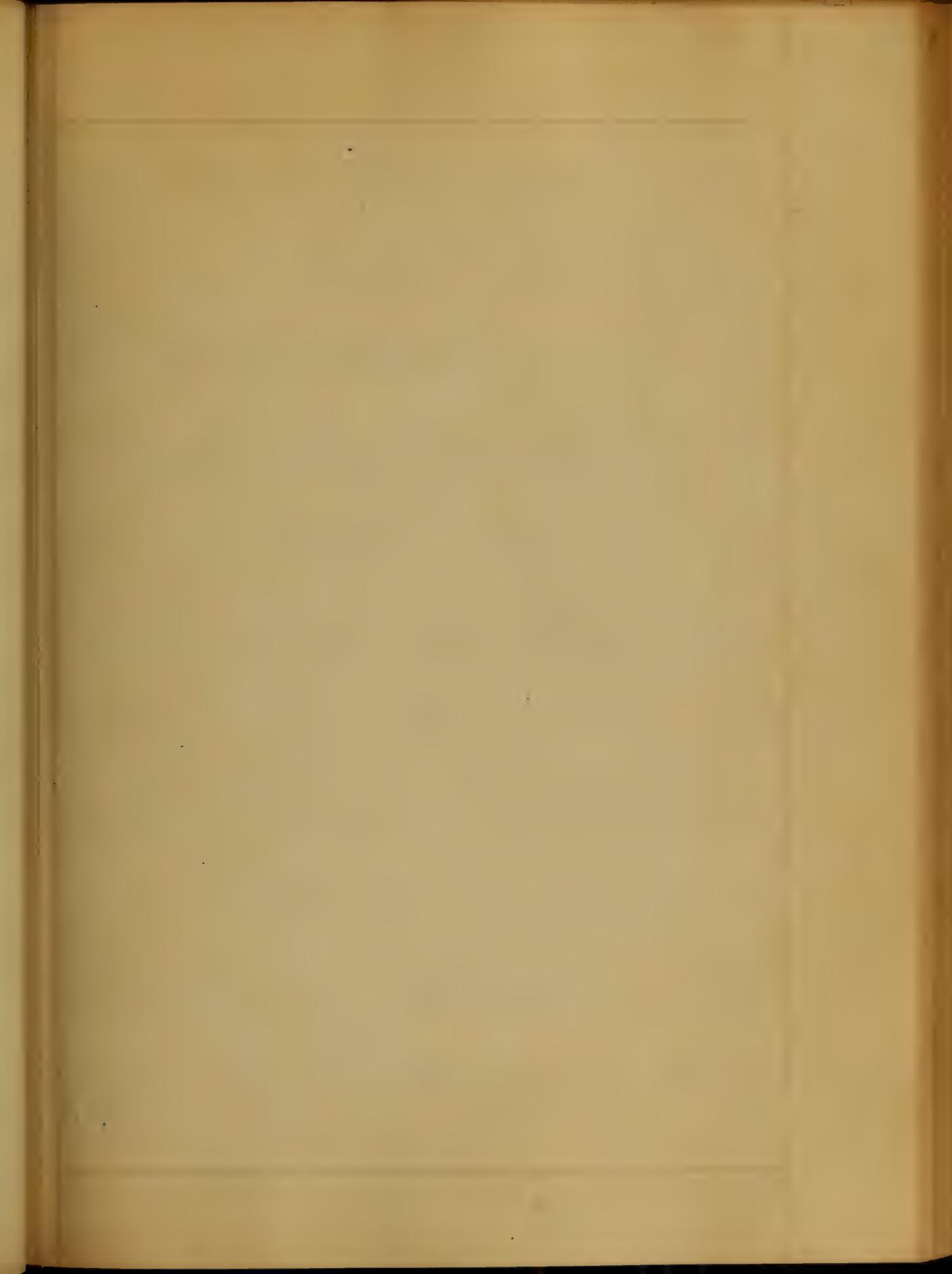


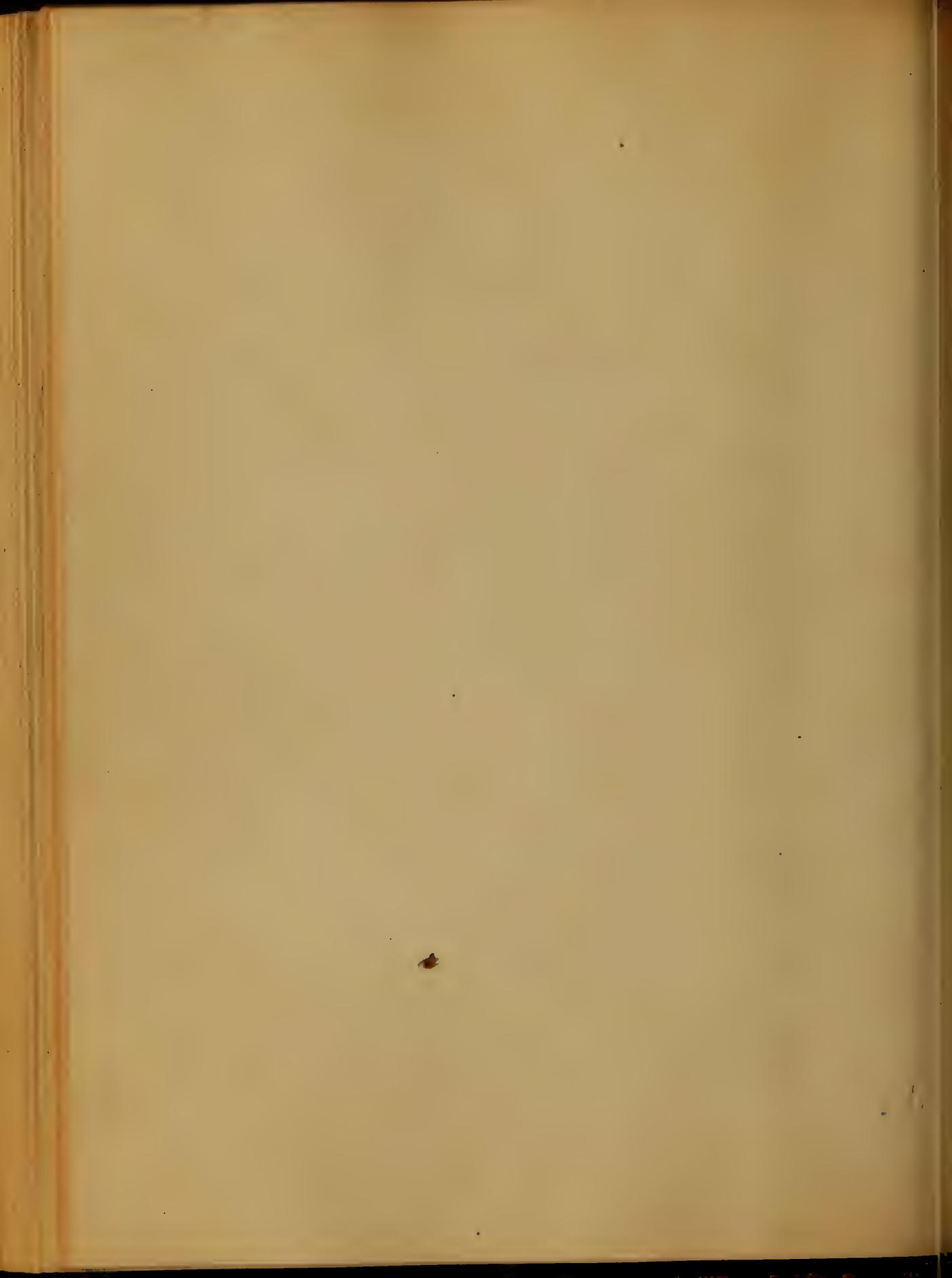
and easily assimilated. As regard complications, these should shape to some extent the course of the medication in each case, taking care to make every step taken in the treatment accord with both rational and scientific principles.

By Charles A. Durkin,  
Talbot County, Md

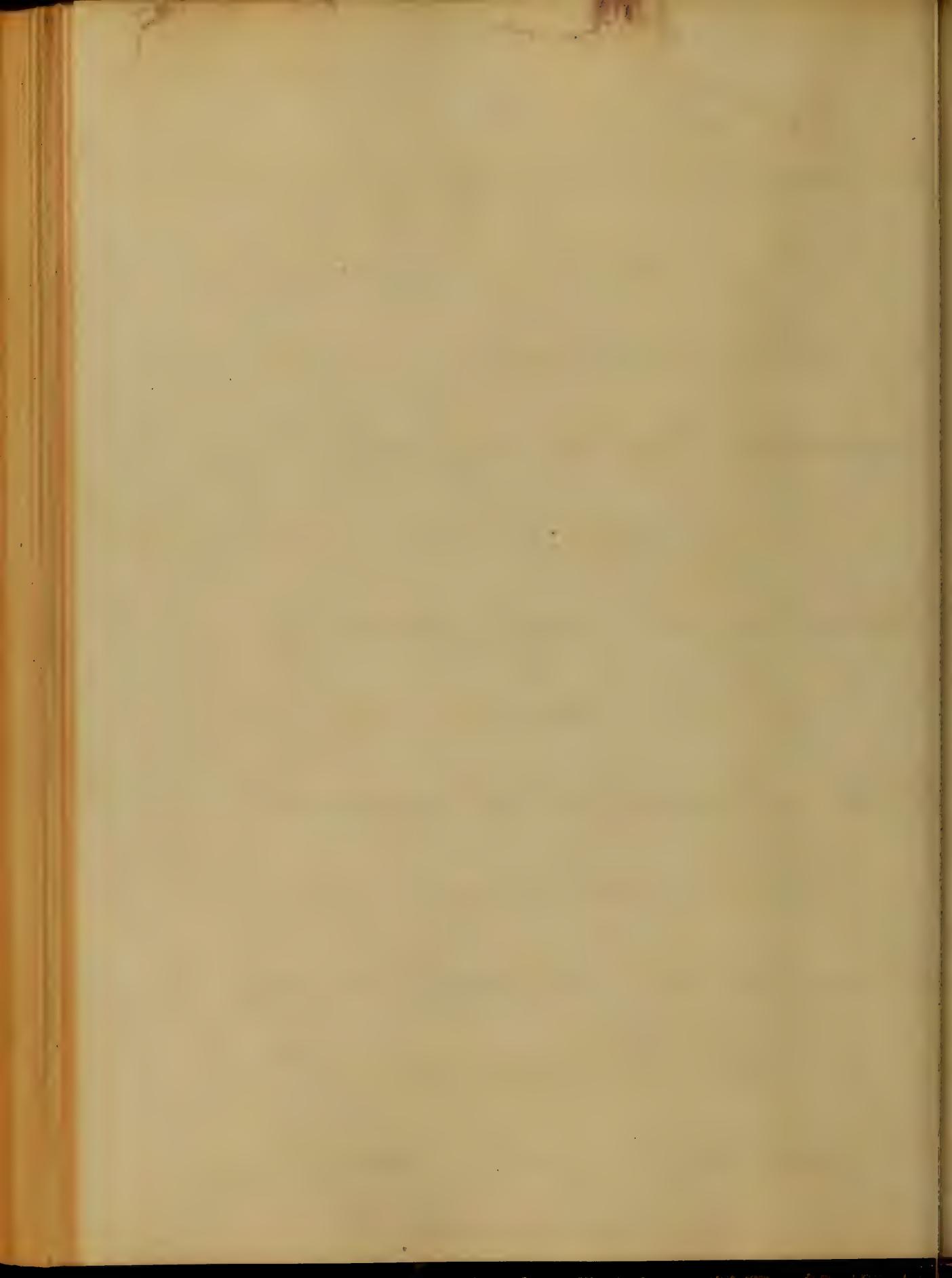
1869.



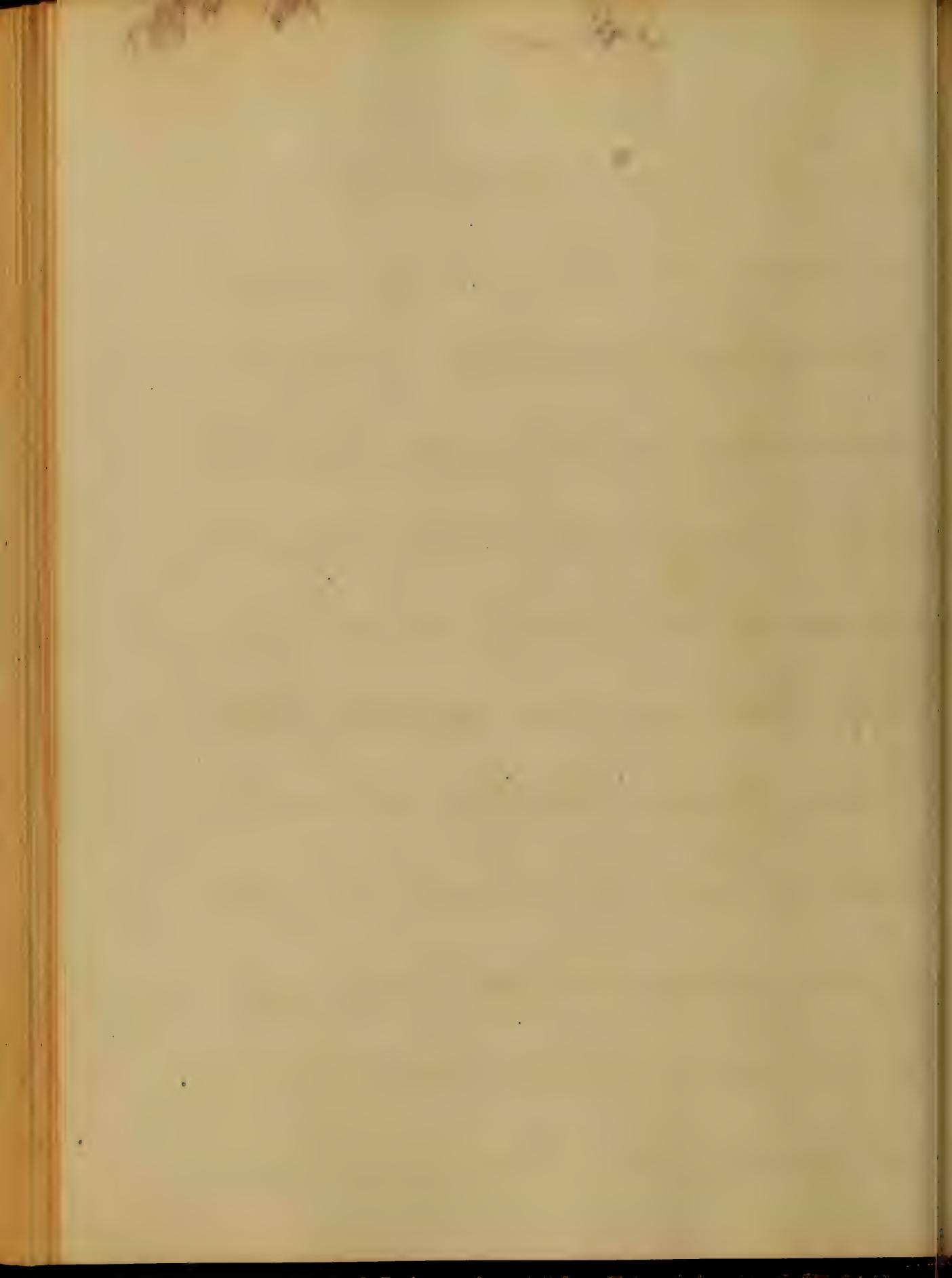




An.  
Inaugural Dissertation  
On -  
*Cinchona.*  
Submitted to the Examination  
of the  
Provost, Regents, and Faculty  
of Physic -  
of the University of Maryland  
for the degree of  
Doctor of Medicine by  
J. W. Derry of  
Frederick County Maryland  
Septm. 1809.

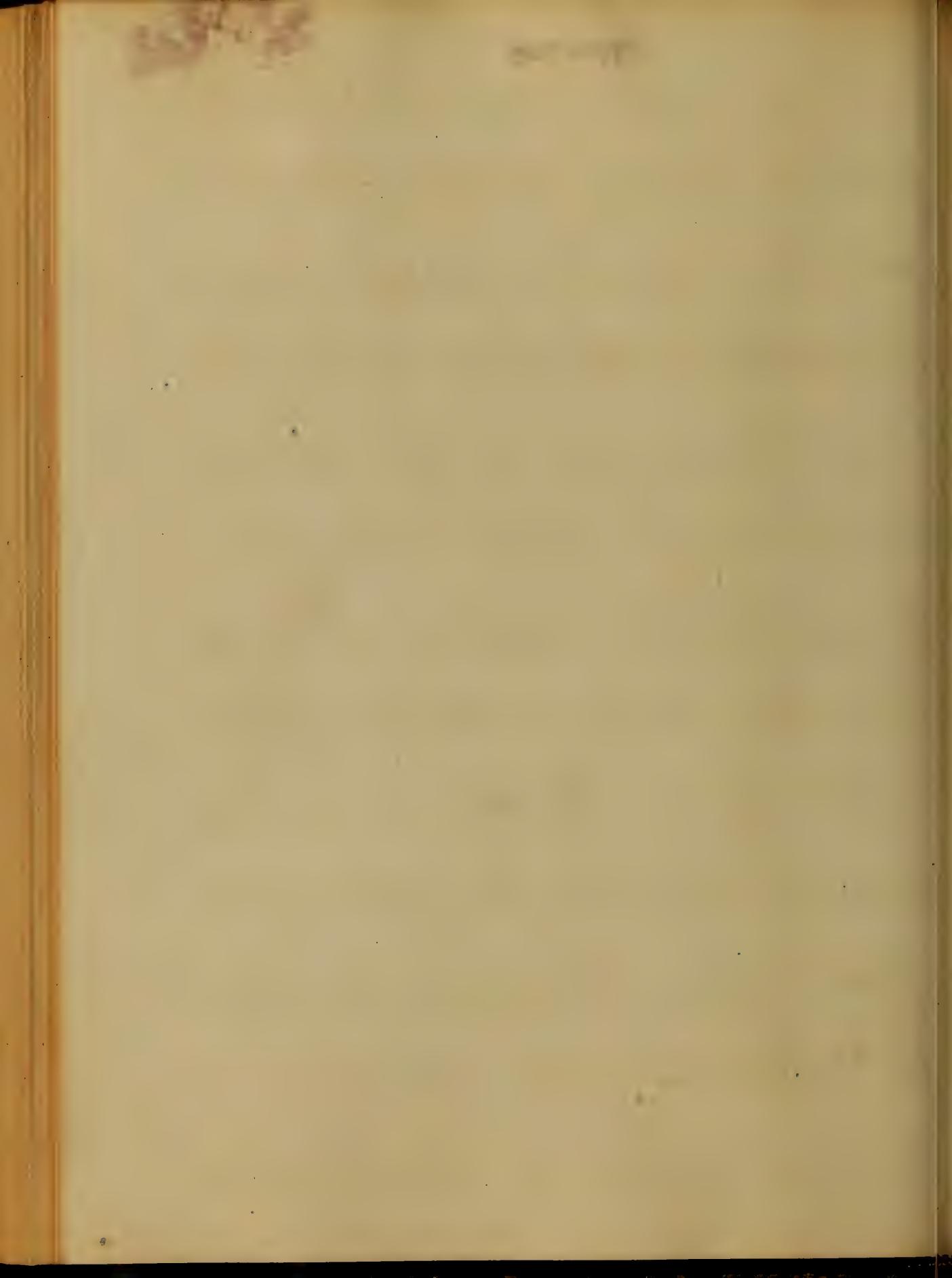


C. how it's para<sup>t</sup> to the species.  
Cinchona, is the name applied to the  
Bark of different species of Cinchona  
(Natural order) Cinchonace large tree  
which grow in the mountainous  
regions of the Western portion of  
South America from the 19° of South  
Latitude to about the 10° of North.  
Persons has tried to grow the tree  
in various parts of the world but  
as yet none has succeeded very well,  
except in Southern India where



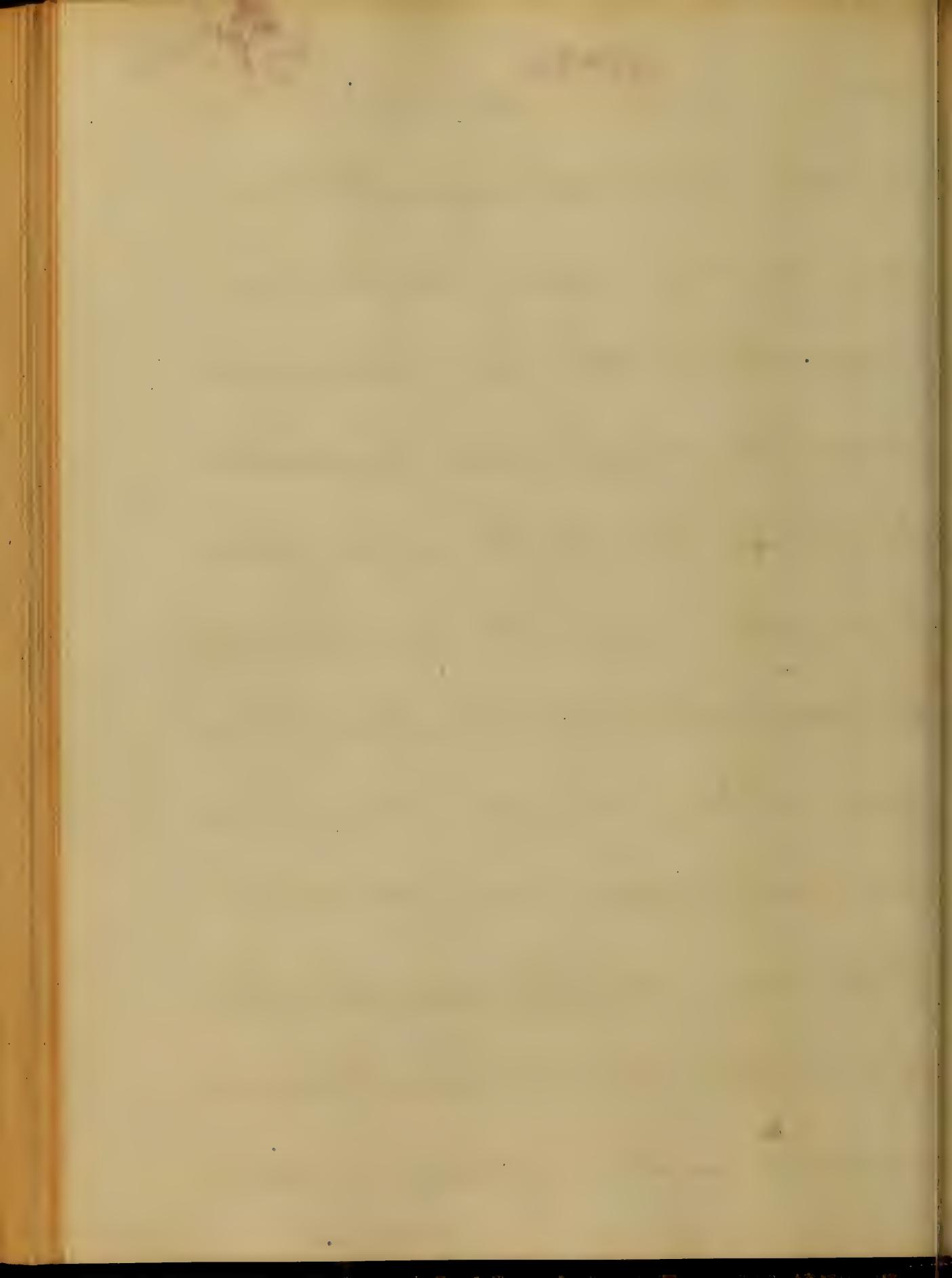
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Within the last few years the cultivation  
of several varieties have been introduced  
very successfully - and valuable specimens  
of Red Bark nearly equal to that of  
South America have been sent to  
Europe - There are three varieties of  
this Bark known as Cinchona Flava &  
Yellow Bark called in commerce Calisaya  
Cinchona Gallienii - Pale Bark called in  
Commerce Soya and Lima Bark and  
Cinchona Rubra Red Bark which grows  
in the Andes between Ecuador & Bolivia in  
this country for the most part of

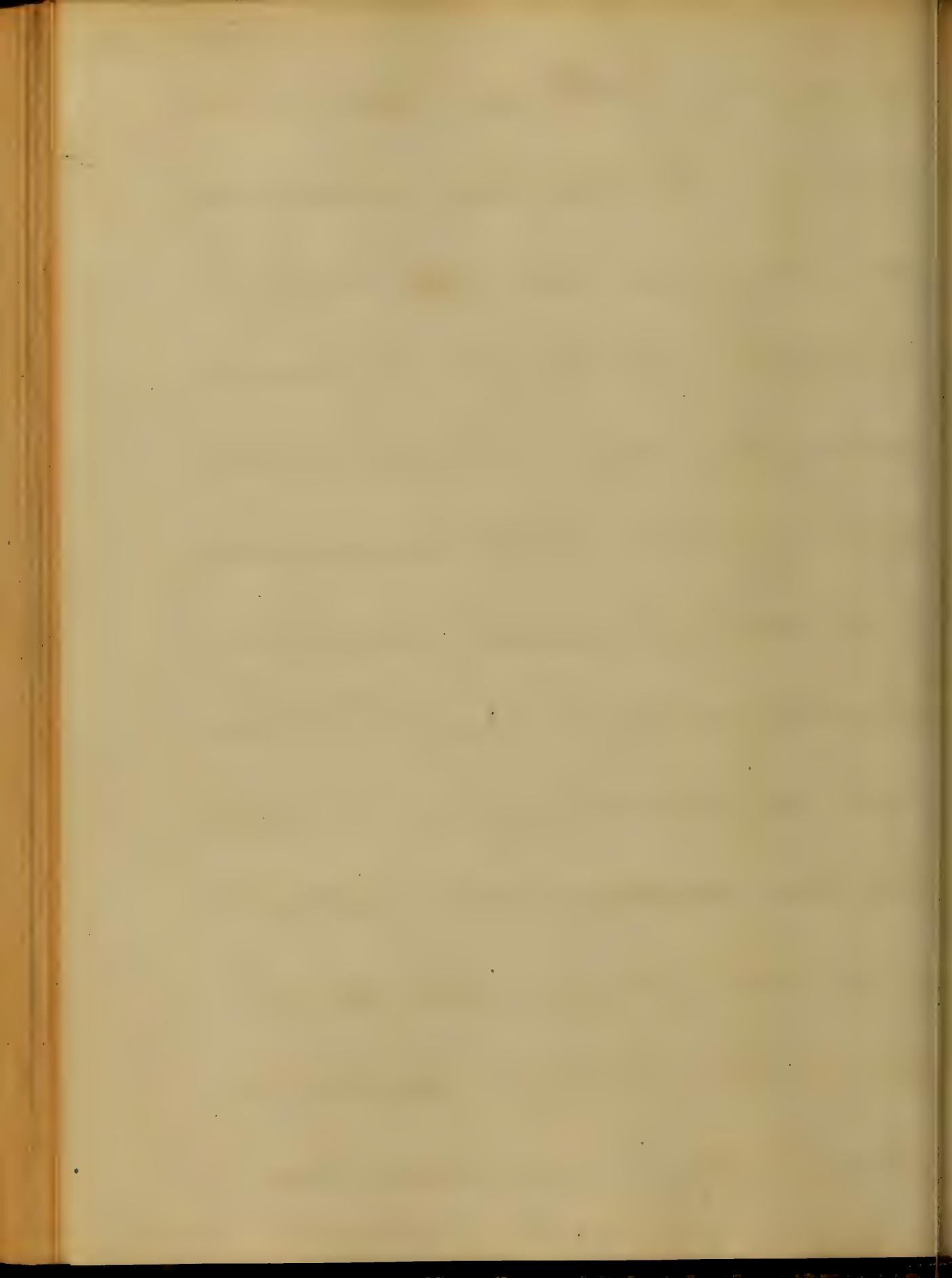


South America & is obtained by strip-  
ping the trunk and branches of the tree  
during the dry season and is dried  
by exposure to the sun during which  
process it usually becomes quilled.

The Yellow or Calisaya Bark comes both in  
quilled and flat pieces the quills averaging  
three or four inches to a foot or less in width and of  
variable thickness. The bark is brown & the  
dermis which possesses none of the virtues  
of the bark - The flat pieces are taken  
from the larger branches and trunk and  
are usually described of white or yellow



less compact, bitter, and of less medicinal  
virtue — The Yellow bark is distinguished  
by its much more bitter taste in  
comparison of red or Asbury's bark, its  
brownish yellow-brown color which is still  
brighter in Powder and by containing more  
of the active principle Quina with  
very little Cinchona — The Yale bark  
comes in cylindrical form a little with  
some time, singly sometimes, to be pointed  
the best kind is about the size of a  
goon quill The external surface is  
rough marked with fissures and of



a grayish color owing to adhering lichen.

The interior surface is of a cinnamon color

and the inner sorts are white, the color is

a pale green. taste moderately bitter, some

what delvingent - Thinner, fleshy but

rather aromatic. This bark contains

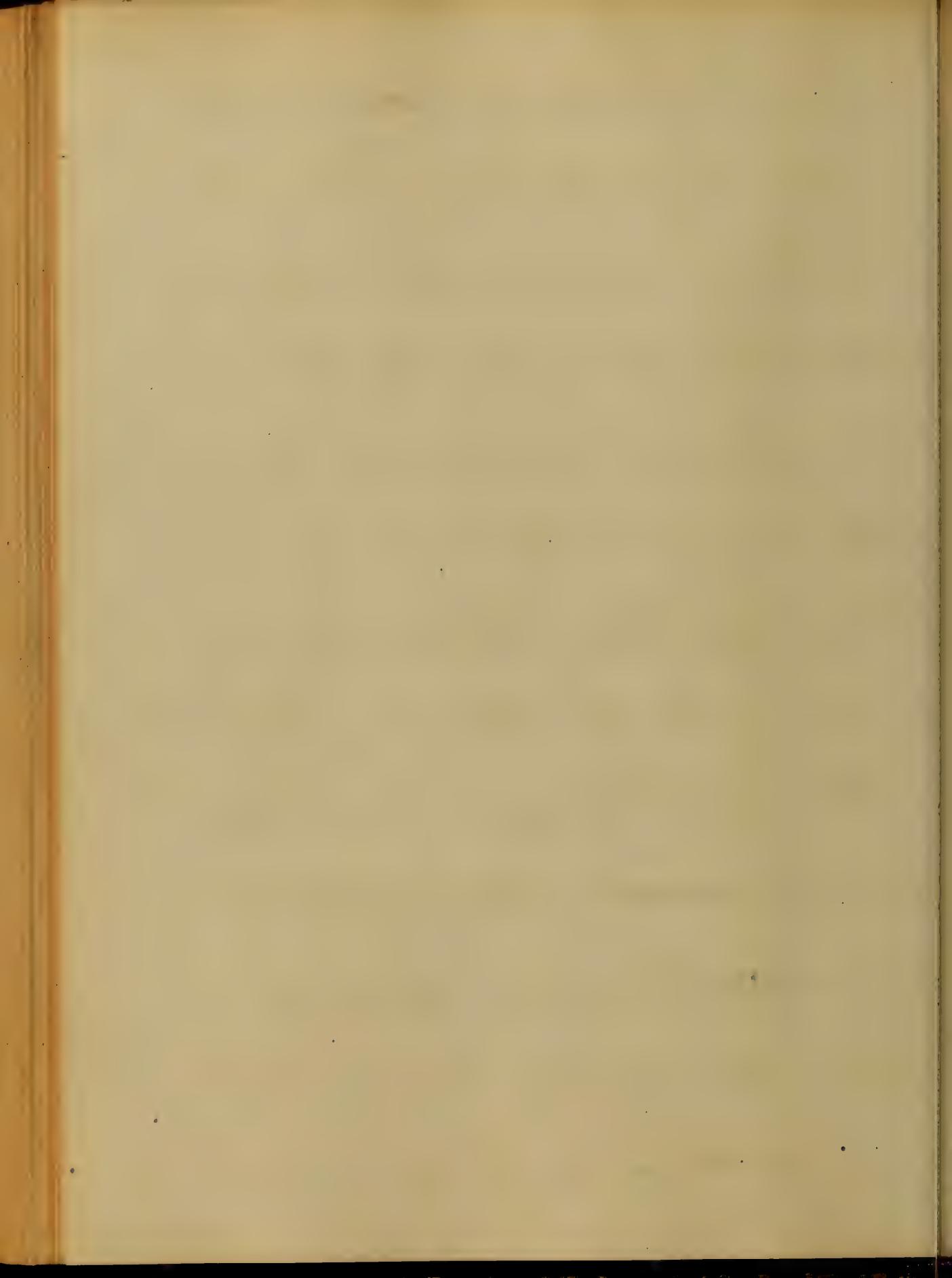
a larger proportion of the Principal

Cinchona than of Guineas

The Red Bark comes in large thick  
flat pieces sometimes also in quills  
from a half to two inches in diameter

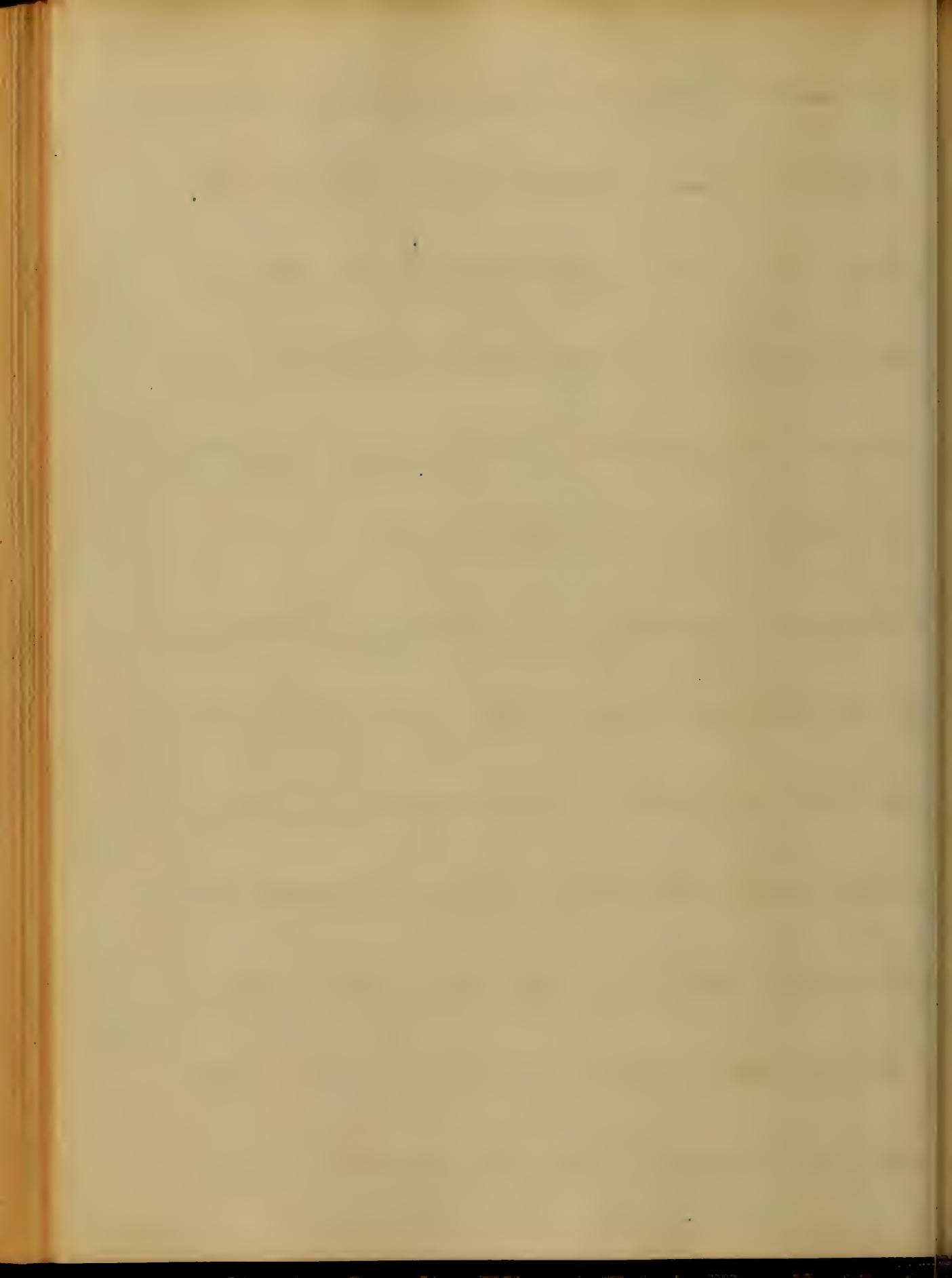
they are covered with a reddish brown

rough epidermis beneath which is a



dark red brittle and compact layer the  
interior being woody and fibrous the  
taste is bitter and aromatic its odor  
not differing from the other bark, slender  
reddish It contains about equal proportion  
of Guimia and Anchonias.

Chemical constituents. Bark owes its activity  
to certain principles. The most important  
are two alkalies called Guimia and  
Anchonias they are believed to exist in  
the bark largely in combination with  
Kino's acid. They are found in different  
and proportion in the different barks

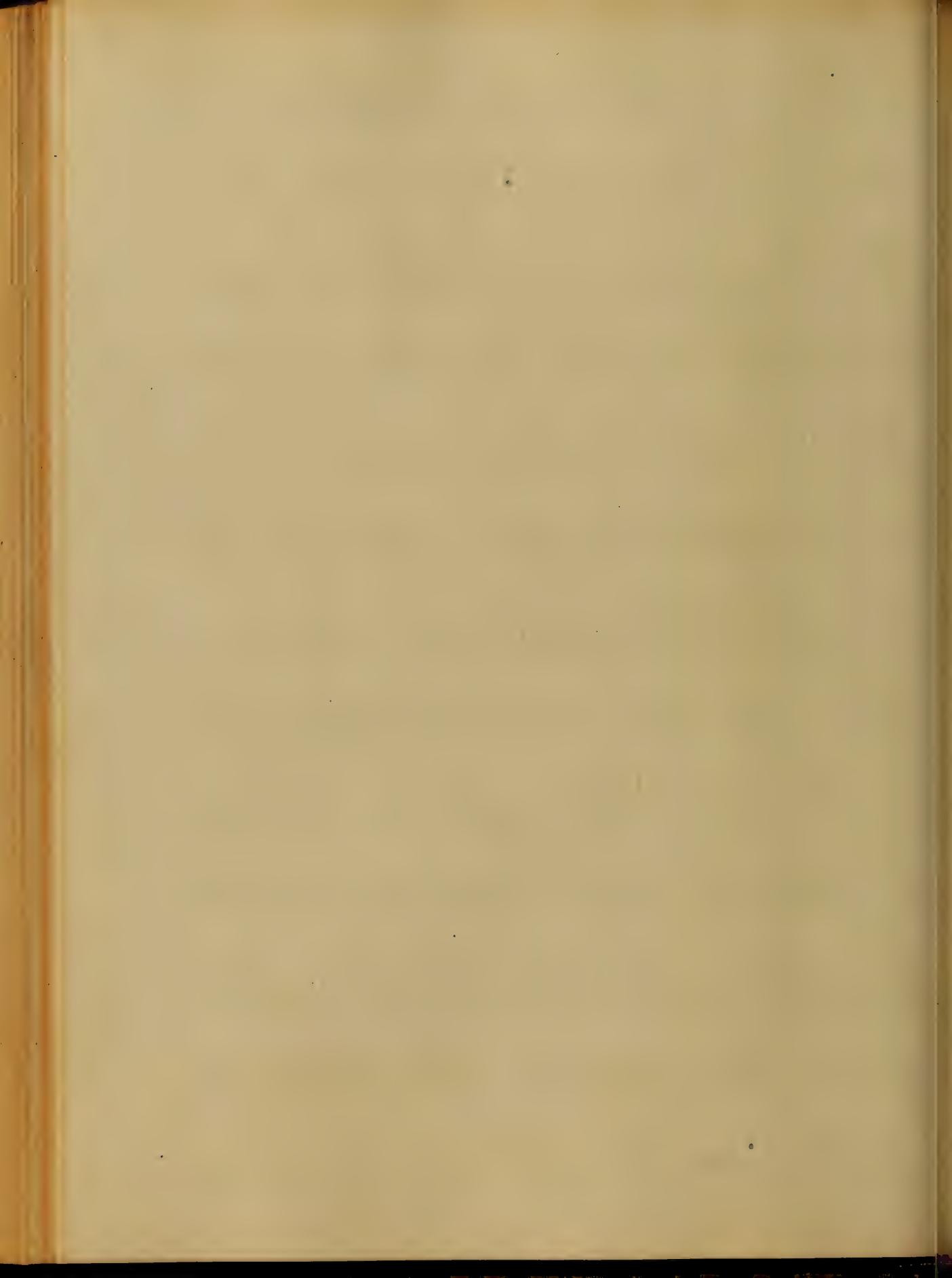


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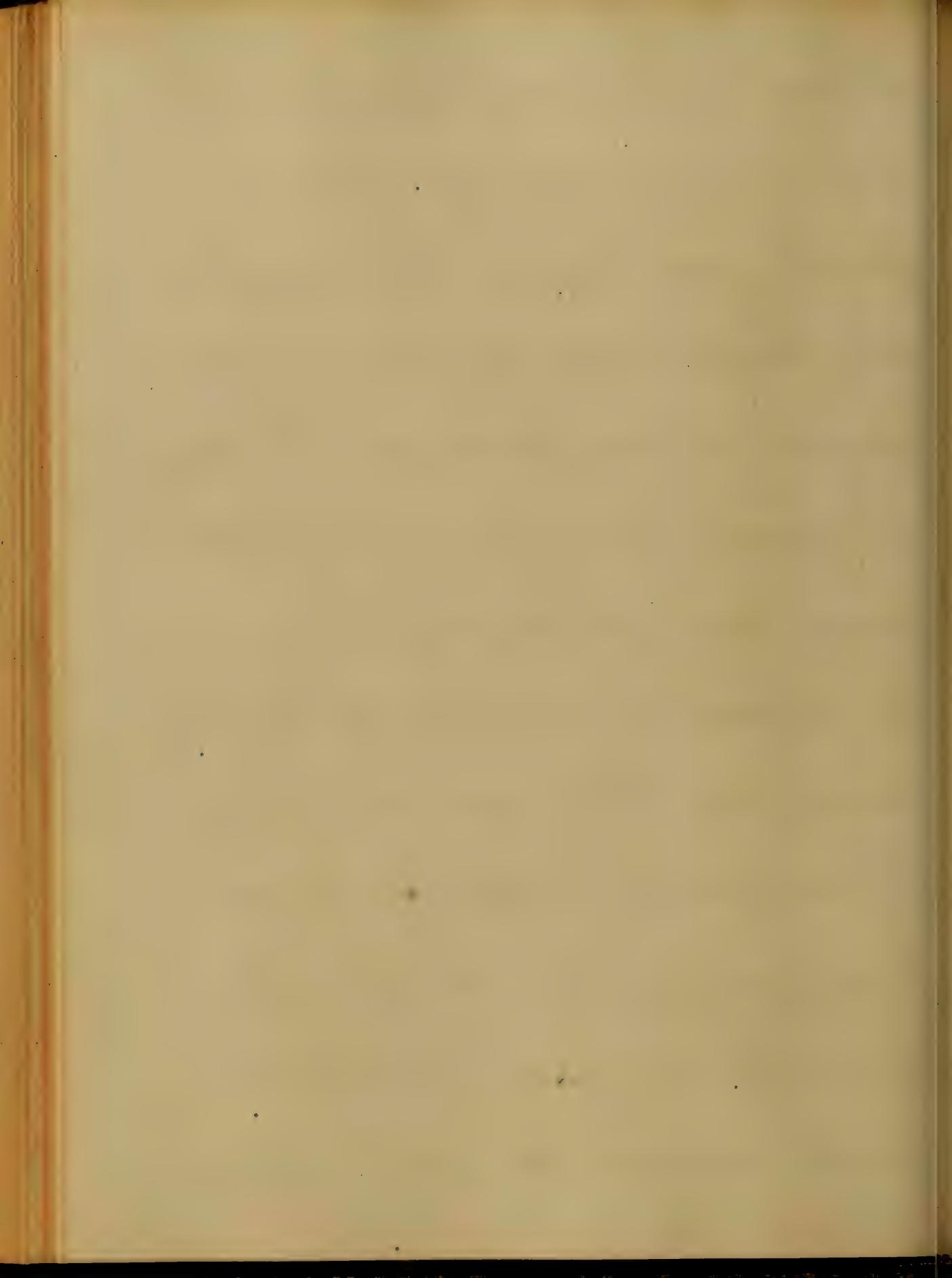
Guinidá being most abundant in the  
Yellow and Cinchonia in the Pale -  
two other valuable constituents are  
Guinidá and Cinchonidá they are  
found to a certain extent in all  
the bark but most abundant in the  
Pale and Carthamus. others are tanic  
acid Tannic acid coloring matter starch  
fatty matter lime & CO<sub>2</sub>  
Incompatibility; The alkalies and their  
carbamates and the alkaline salts form  
a precipitate the alkaloids of Cinchona and  
tannic acid form with them another



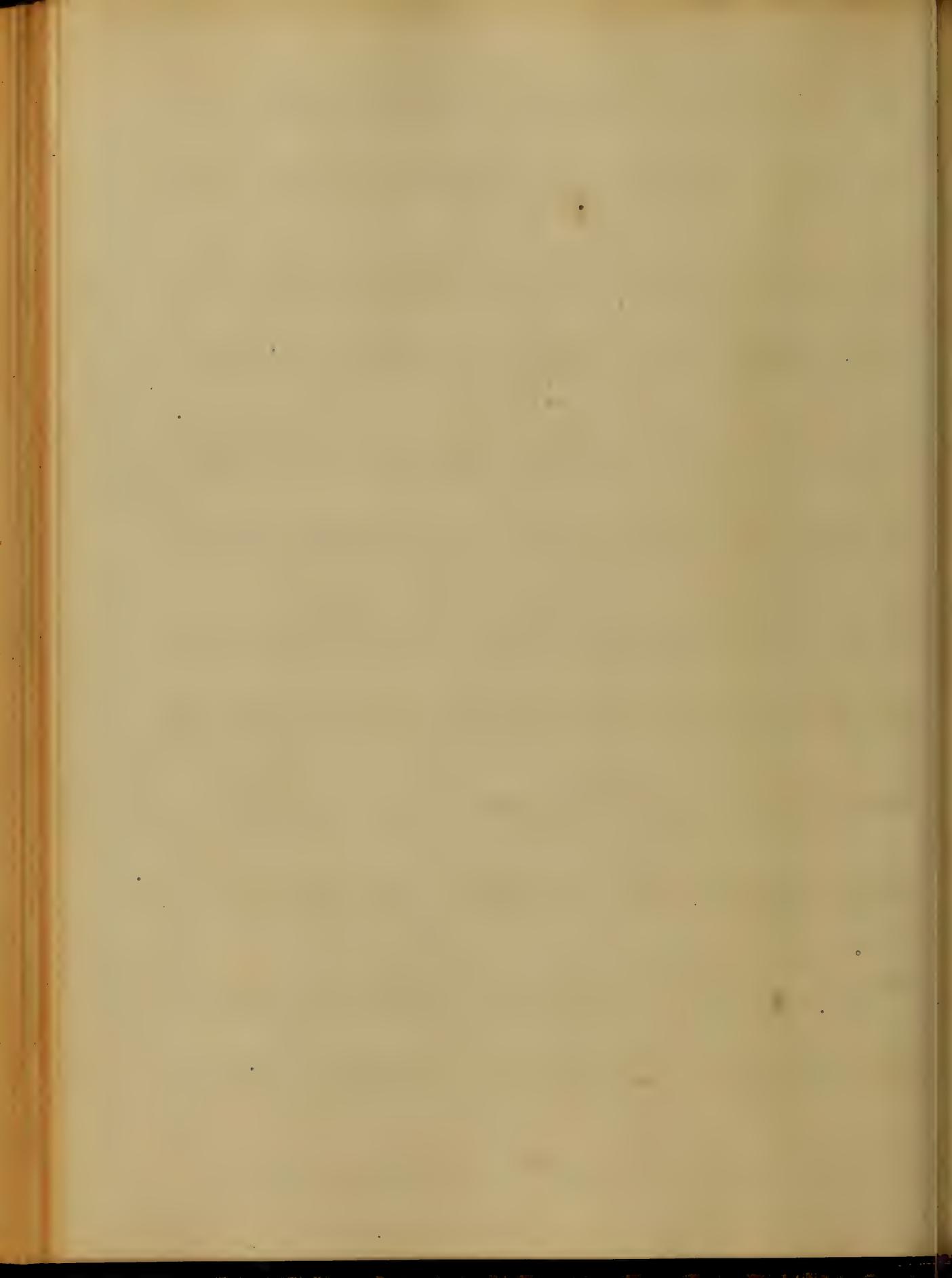
disorder often called dyspepsia.  
This first taste of the food follows  
when I am given to eating more in  
quantities not agreeing for one or  
two days in view of half to a day, it pro-  
duces effects identical with those of  
apple butter, cinnamon or nutmeg.  
This may be experienced, however,  
a short time the appetite is increased  
and the food appears to be more  
wholesome to taste, the patient becomes  
fuller and stronger, the temperature  
of the body is slightly elevated, and



it affects us from time to time in  
fitting us to those given trials in  
which does it exercise trying to  
act specially upon the brain and often  
produces decided effects upon the body.  
The party to begin, will in dif-  
ferent cases greatly increase  
the attacking susceptibility to con-  
siderable distress when mentioned.  
The first cerebral partake in usually  
beggarizing, and having more  
in his best along with the common  
partial suffrage the voter is led

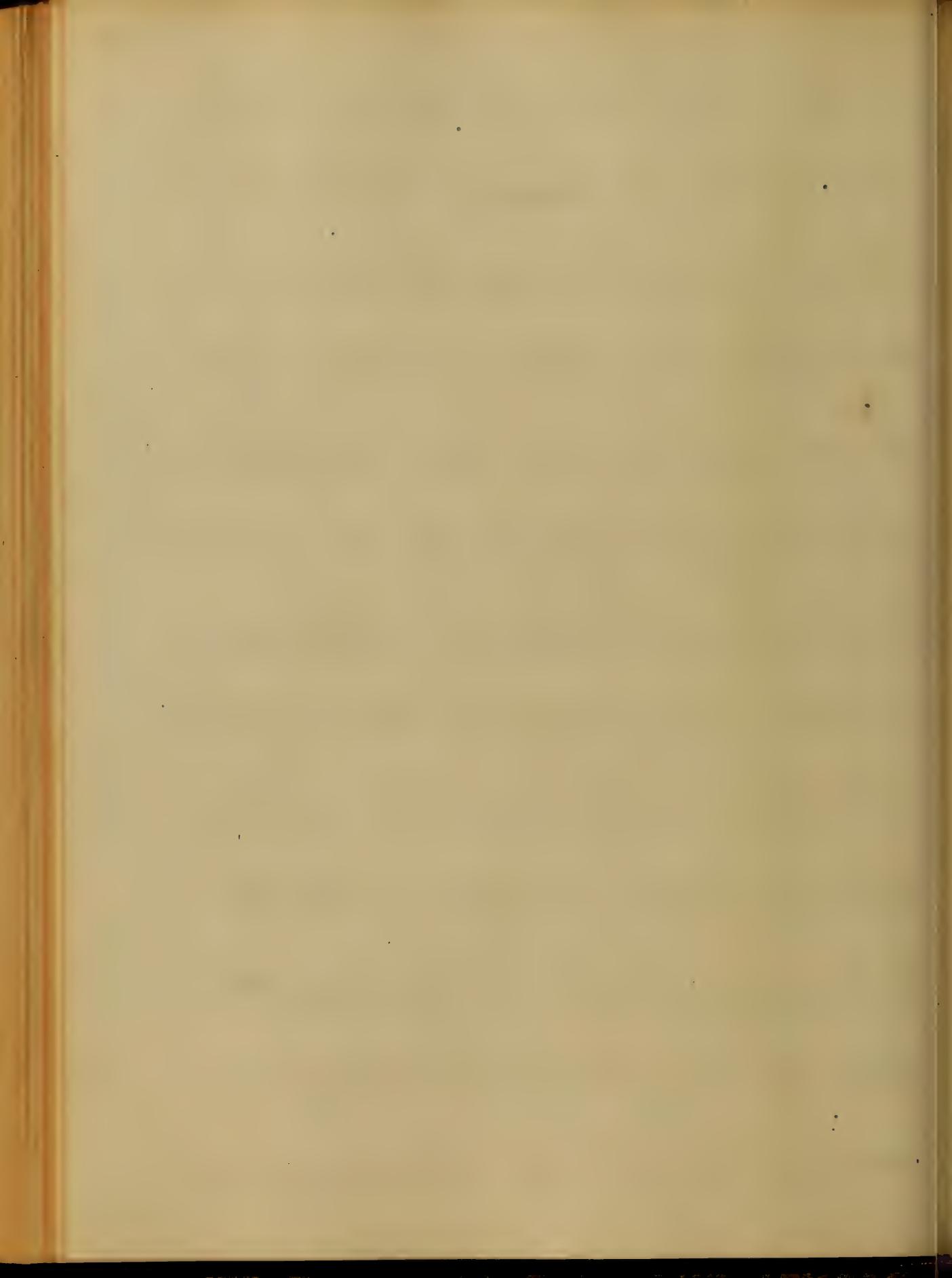


the most characteristic effect. The  
water of the salt bath leaves  
upon the body a salty  
taste, and the contact  
is continued and a decided de-  
pression upon the circulation pro-  
duced, as evinced by a diminution  
of the force and frequency of the pulse  
proportional to the amount of the  
salt used - There is now greater or  
less stiffness the individual often staying  
the hands of being infected  
by means to positive surfaces But



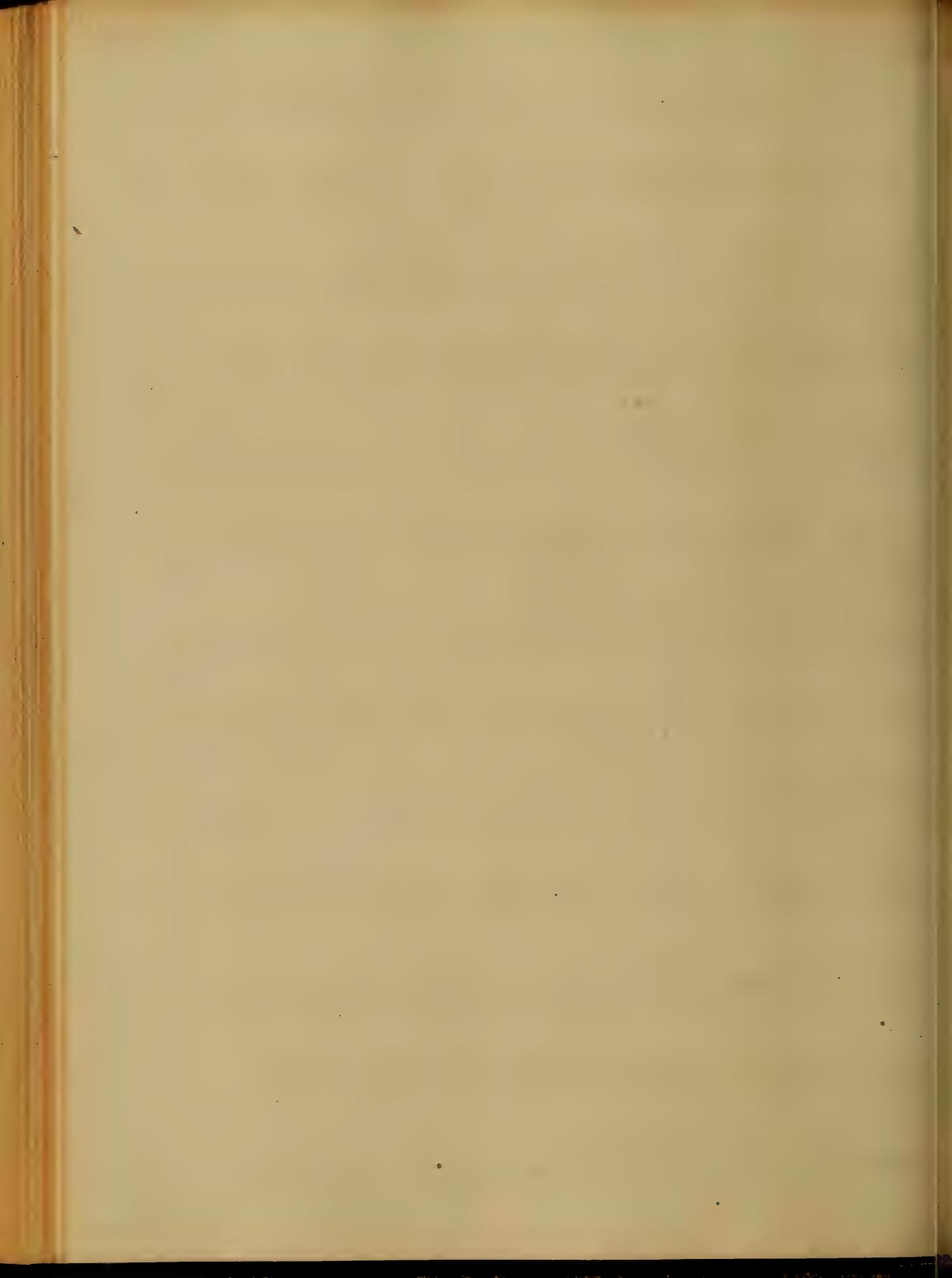
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It also produces other effect it has  
been supposed by some to render the  
blood more fluid due to lessens its  
coagulability but more numerous exper-  
iment, have gone to prove the fallacy  
of this argument. In the urinary  
passages it occasionally produces  
irritation probably by its direct contact  
with the mucous membrane of these  
passages as it escapes with the  
urine. Sometimes it irritates the  
stomach considerably causing a  
sense of weight or oppression.

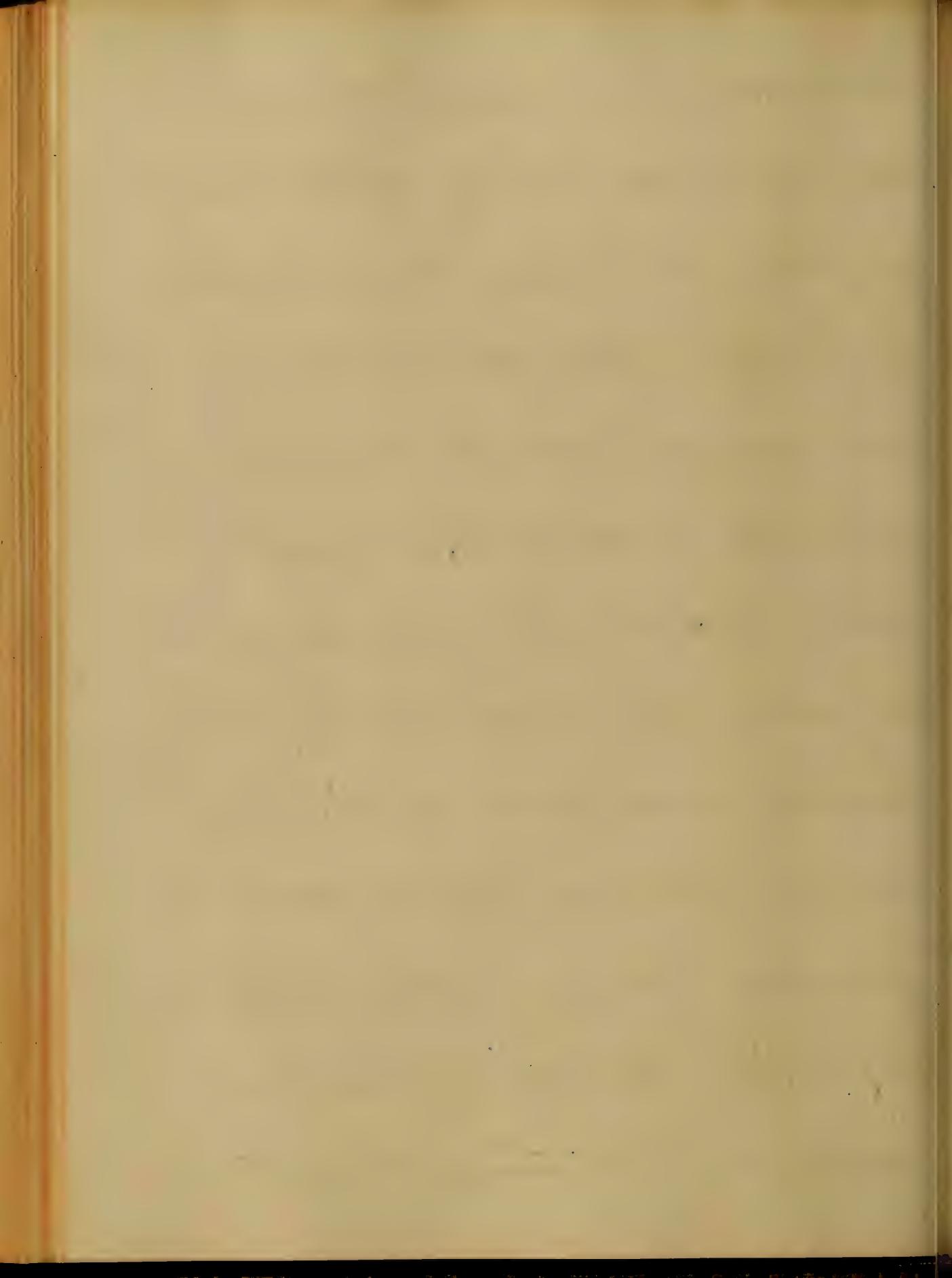


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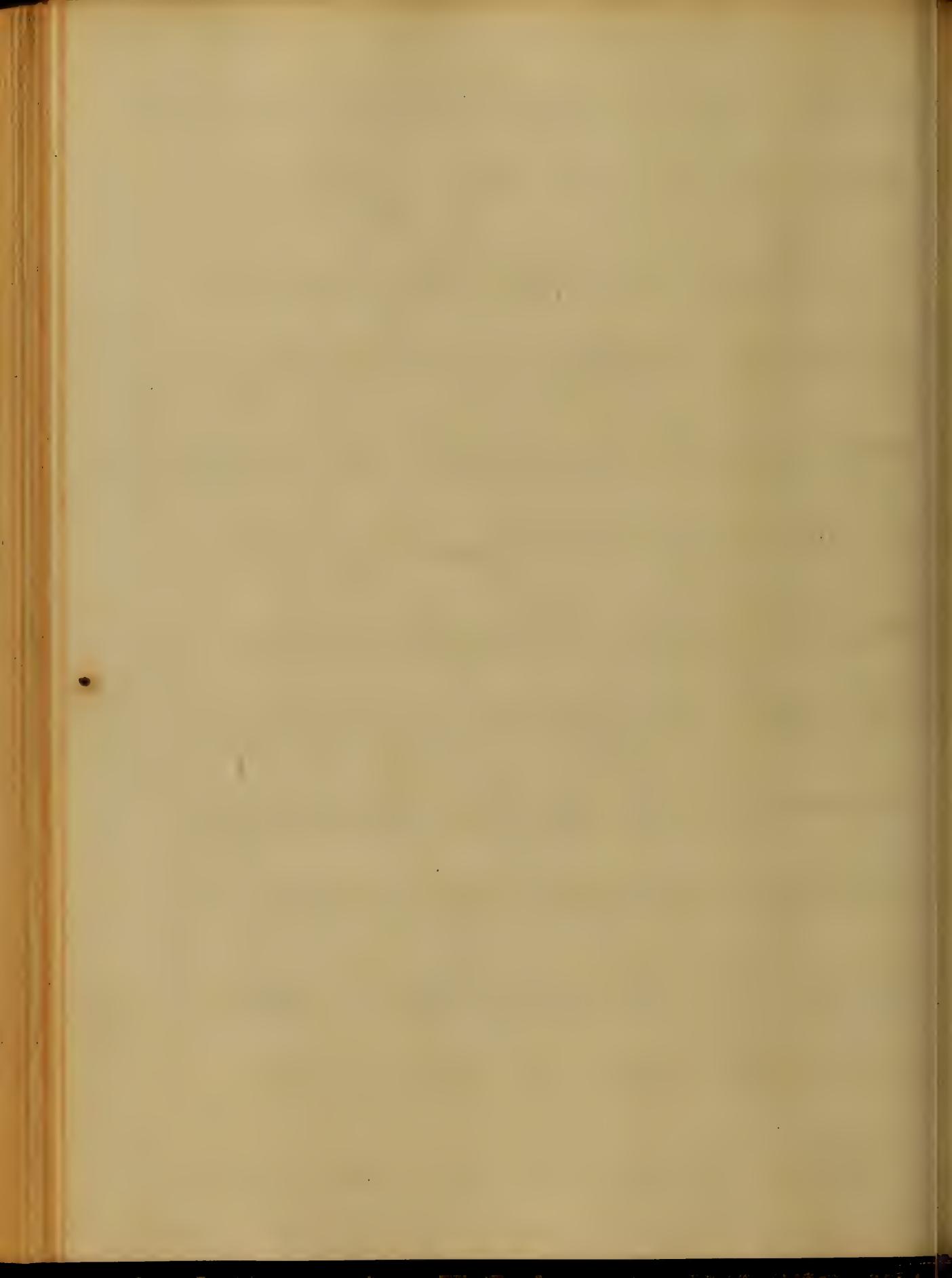
pains and nausea or vomiting. This  
is especially the case in horses when  
the stomach is empty, it has  
or strongly disagreed to it. Some in-  
sects upon the body causing giddiness,  
pain and diarrhoea. The constitutional  
effect on the same is much less  
it enters the system either given  
by the mouth, the rectum or injected  
hypodermically when applied  
to the skin stimulated of the cuticle  
it produces so much irritation  
as naturally to enterprize and to



absorption. In solution it will take  
the effects are essentially the same  
as those of Quinia but on account  
of the size of the dose to be given  
it is not now much used, it  
may not produce the same ir-  
ritation of the stomach and bowels  
as quinia, on account of the non  
active principle contained  
in it - it largely won't  
generally become entirely offen-  
sive to the stomach, so that it is  
difficult to obtain for it.

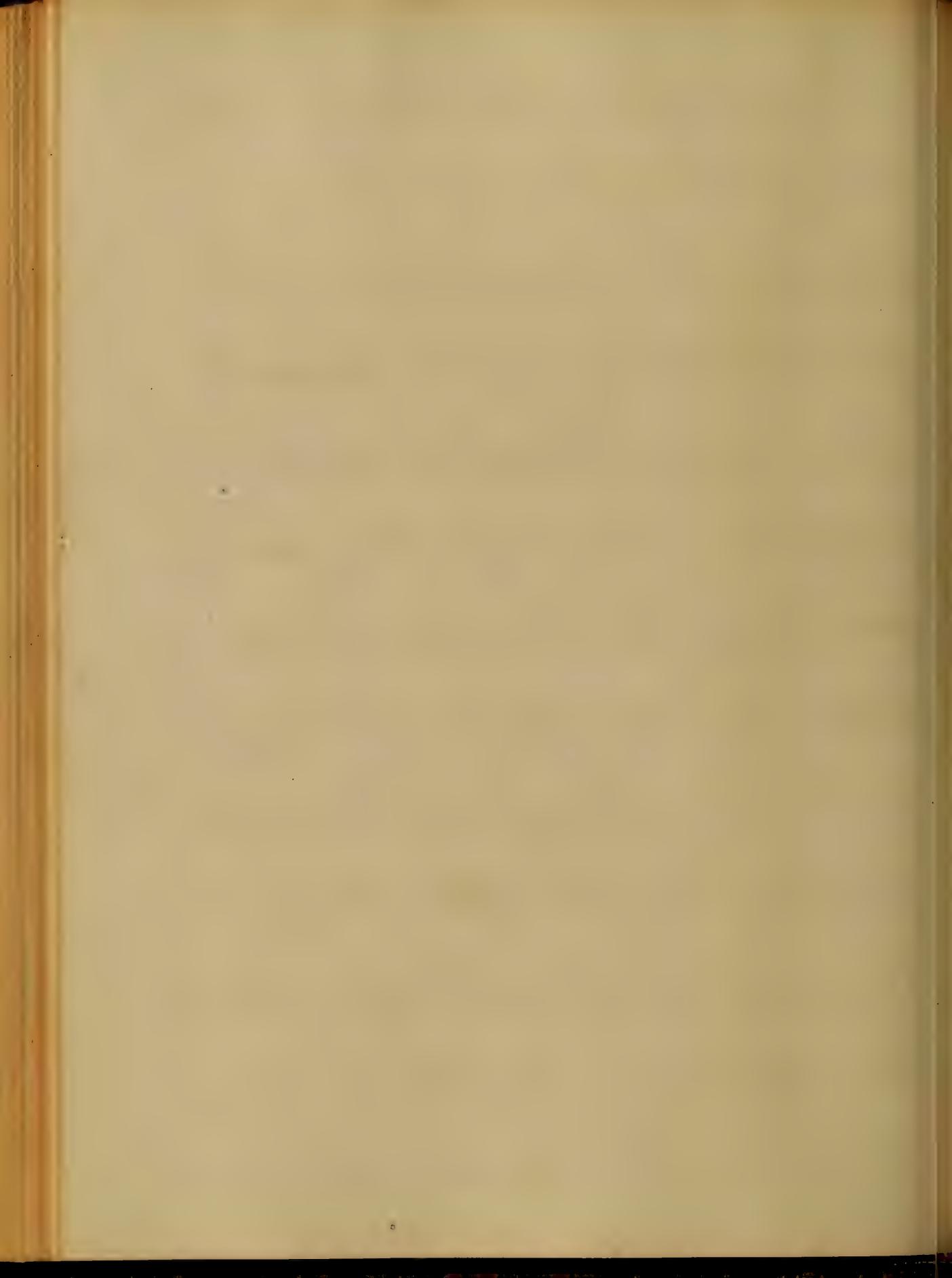


sedative and prostrating effect pro-  
duced by excessive dose of Quinia  
Cinchonina has been found to  
be nearly identical in its action  
with Quinia except that it is about  
one third weaker requiring to be  
given in one third larger doses.  
The other principles do not  
much need it I will not refer  
to them at any length. Quinia  
appears not to differ from quinine  
in its operation on the system  
within physiological limits.

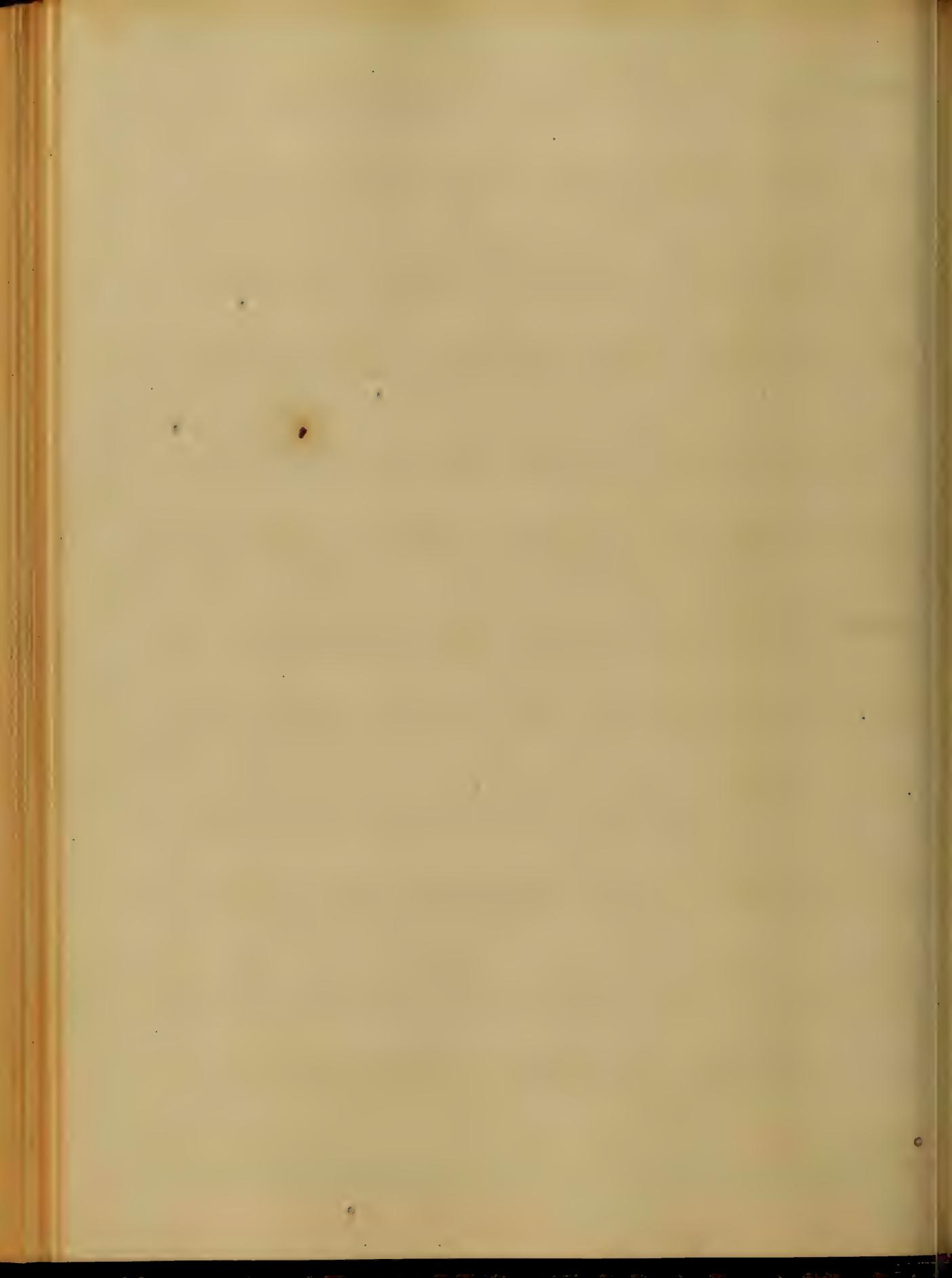


it is much more soluble in water  
than cocaine - -

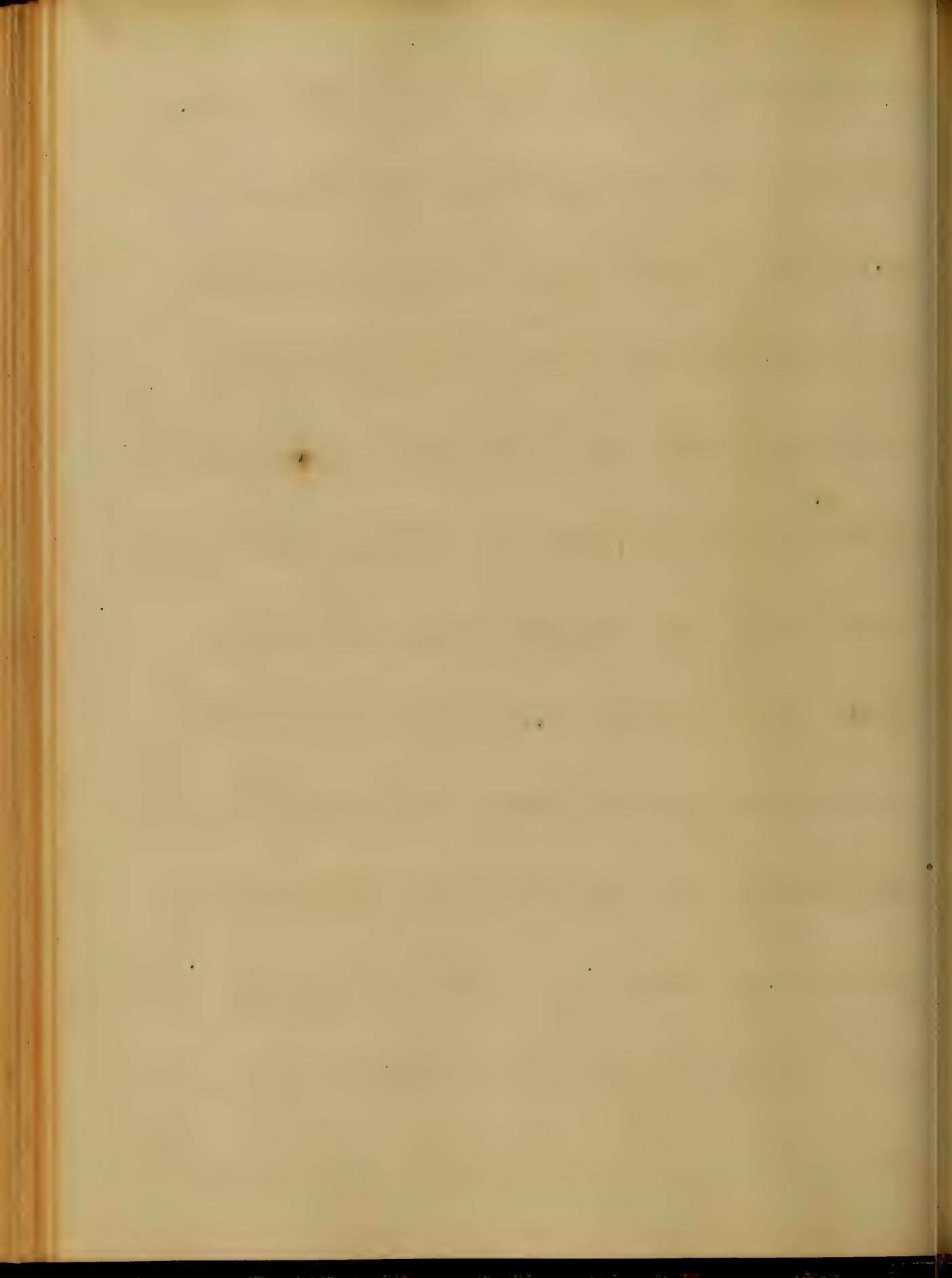
Injurious effects often arise from  
cocaine when given in too small  
doses as for instance the unpleasant  
symptoms from congestion or over  
excitement of the brain resulting  
which a great degree of delusion  
is common. Generally therefore  
subsists with the other phenomena  
in a period of a few hours only  
but sometimes continues several  
days and becomes permanent.



and incurable. Cases are on record  
in which death has occurred from  
inflammation of the brain, under  
the influence of quinine, without  
danger arising from it, and with  
great secondary prostration from  
~~massive~~ enormous doses in persons healthy  
which may readily prove fatal.  
It is strange, however, considering  
the powerful effects often produced  
by comparatively moderate doses,  
how far the quantity may be in-  
creased without producing disease.

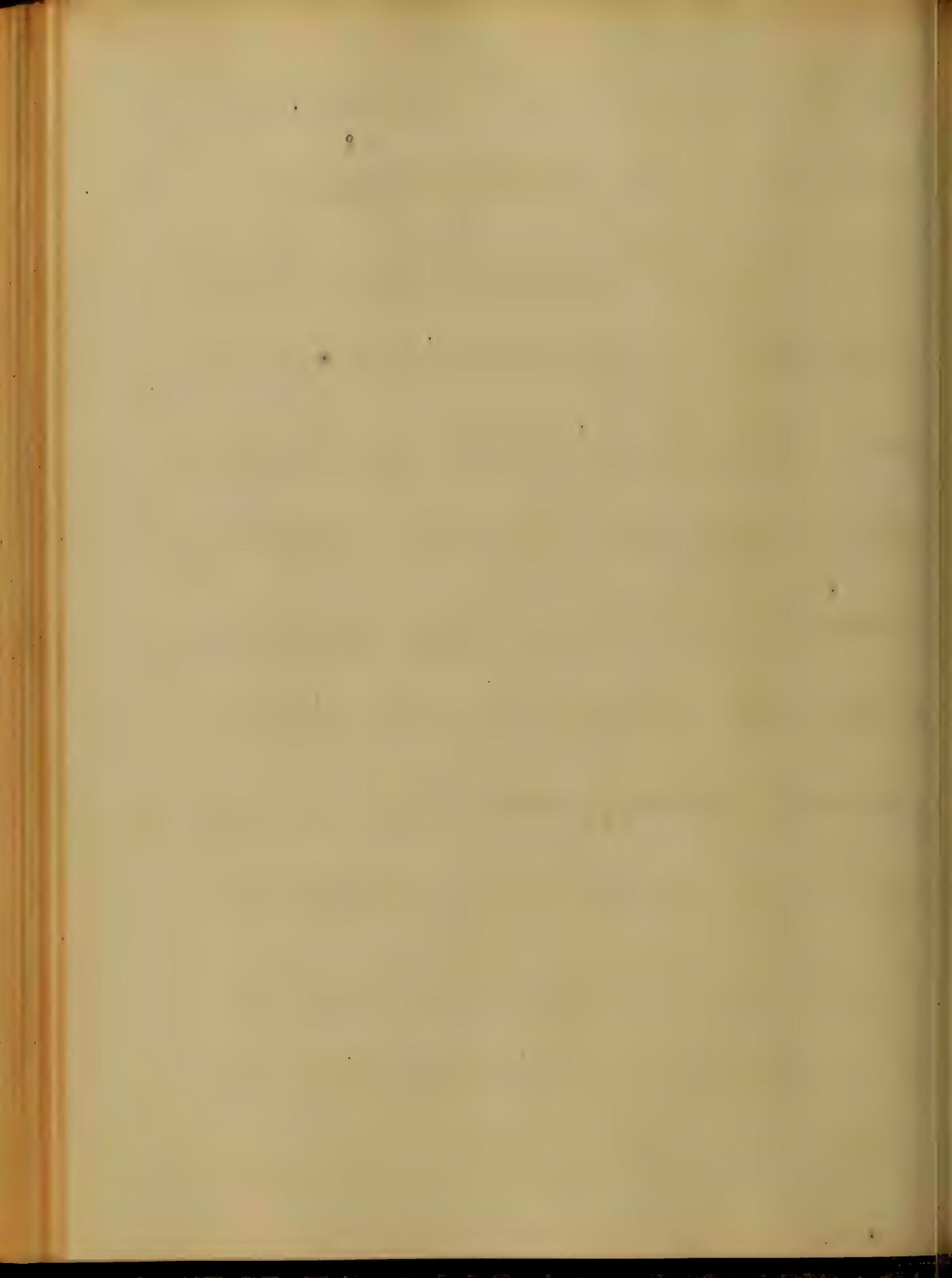


is mentioned by Dr. Hall where a  
person believing himself to be  
attacked with pernicious fever took  
in a short time nearly 300 of  
quinine by the mouth and the  
symptom of great prostration  
with loss of sight and hearing  
came on which he avoided hot  
venicious fever and hoped to  
counteract by a continuance of the  
enormous doses, in the course of  
one or ten days he took additionally  
300 of the cold & physician gave



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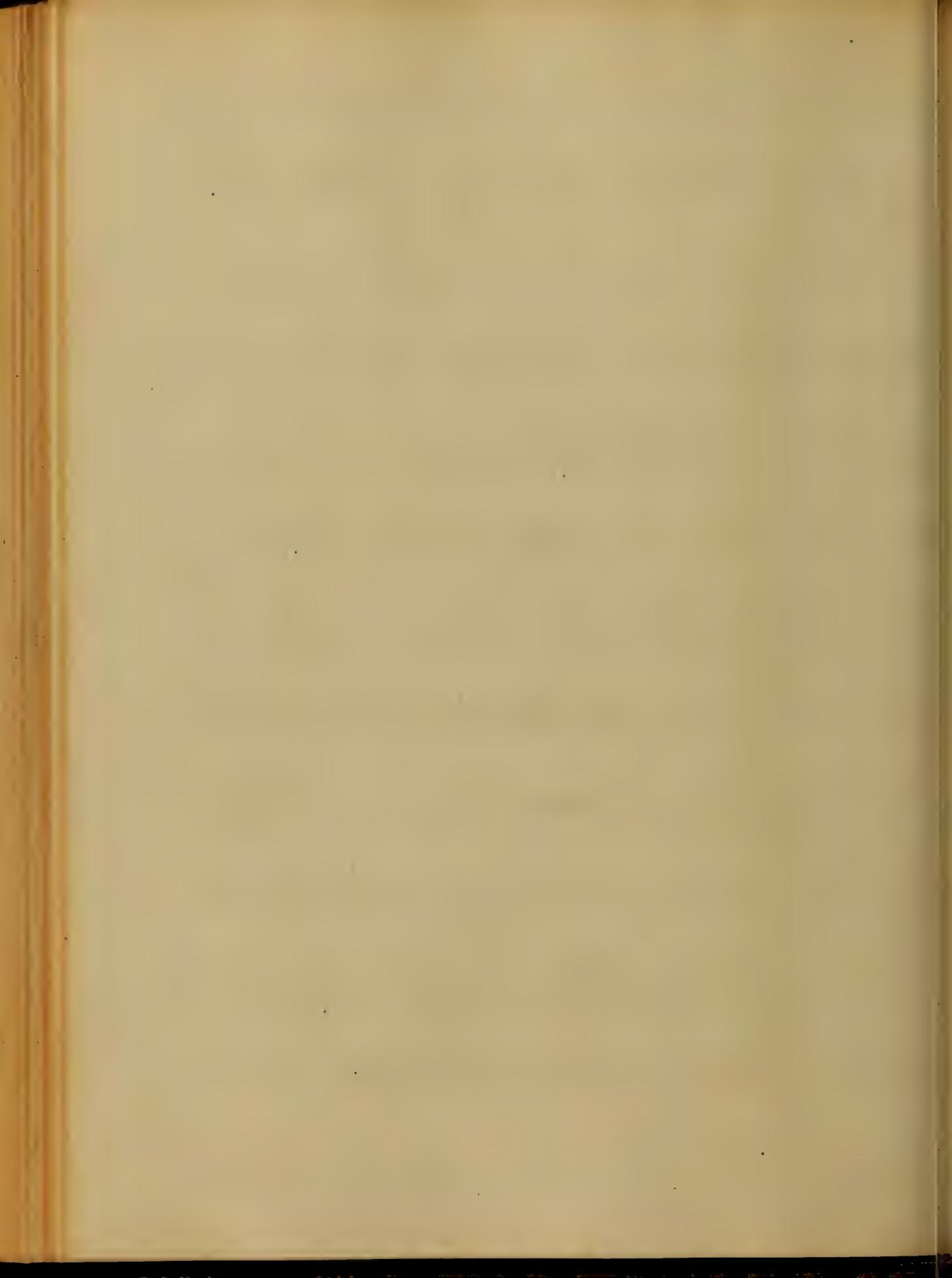
called in friend for second, with  
cold sweat, completely insipid  
and listless, with difficult and rattling  
respiration, profound stupor and  
an expression of countenance like  
that of drunkenness he was partially  
roused with much difficulty, so  
as to give rational answers but  
soon became delirious again  
Another is mentioned by Bruguer-  
in which about 3x was taken  
in a few days the patient had  
for a time night fits and



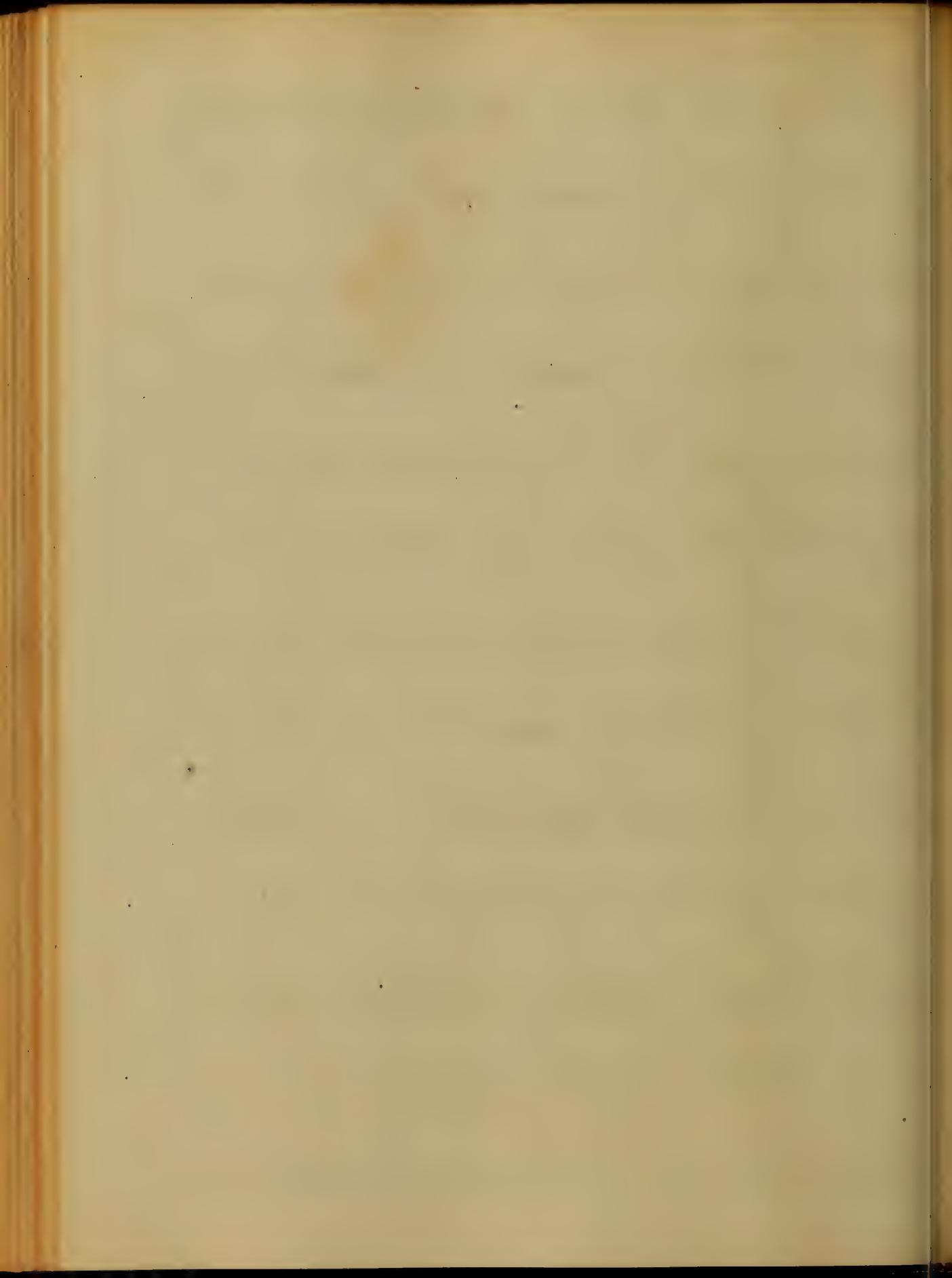
speech and became as cold as  
a corpse, but now the life recovered.  
In all cases in which the salts  
of the Cinchona alkaloids have been  
given too largely, tannic acid or  
an astringent infusion should  
be administered intervals, for  
though the tannate formed is not  
without effect on the system it is  
certainly less rapidly absorbed than  
the soluble salt. We now come  
to its therapeutic applications.  
The most important of these



employment of bark in the  
treatment of fevers of  
malarial origin. Its efficacy in  
these diseases was first made known to  
the world by the French Missionaries  
in Senegal, whom it was called  
from whence the type of malarial  
fever in which the powers of bark are  
most strikingly displayed, is inter-  
mittent; the non-malignant and  
uncomplicated form of which it  
rarely if ever fails to control. It may  
be given in these cases as follows.

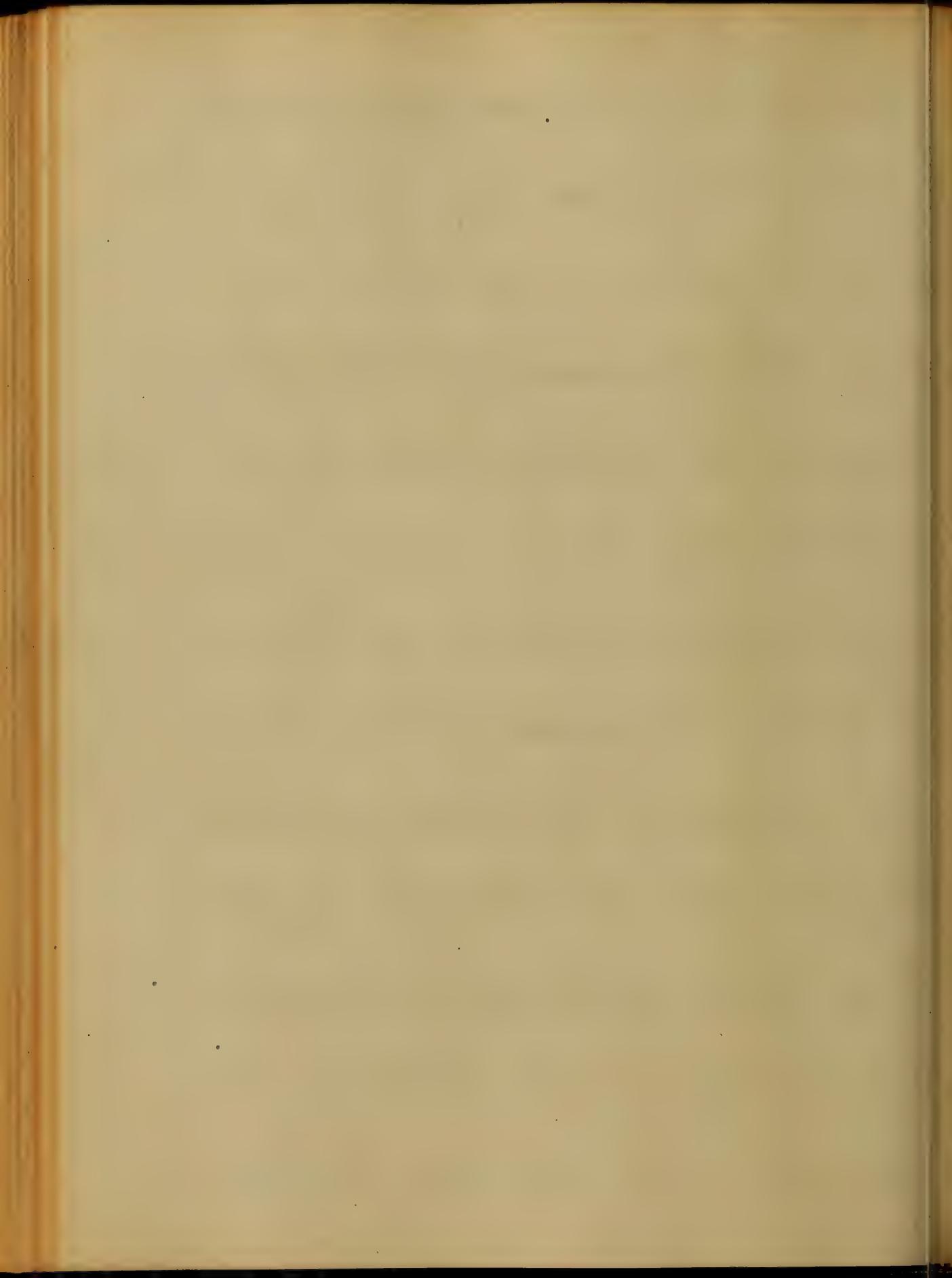


onset of the attack is left conmindi-  
cated by the presence of gastritis  
tability, which must be removed  
by an emetic or mucous purge. In  
remittent fever bark is scarcely if  
useful & than in intermitting and  
most physicians who practice in  
Malabar district, now consider it  
becoming by its exhibition in three  
fevers, as soon as it can be borne  
well by the stomach, without danger  
for a remission. On the present more  
conjectural form of intermission and

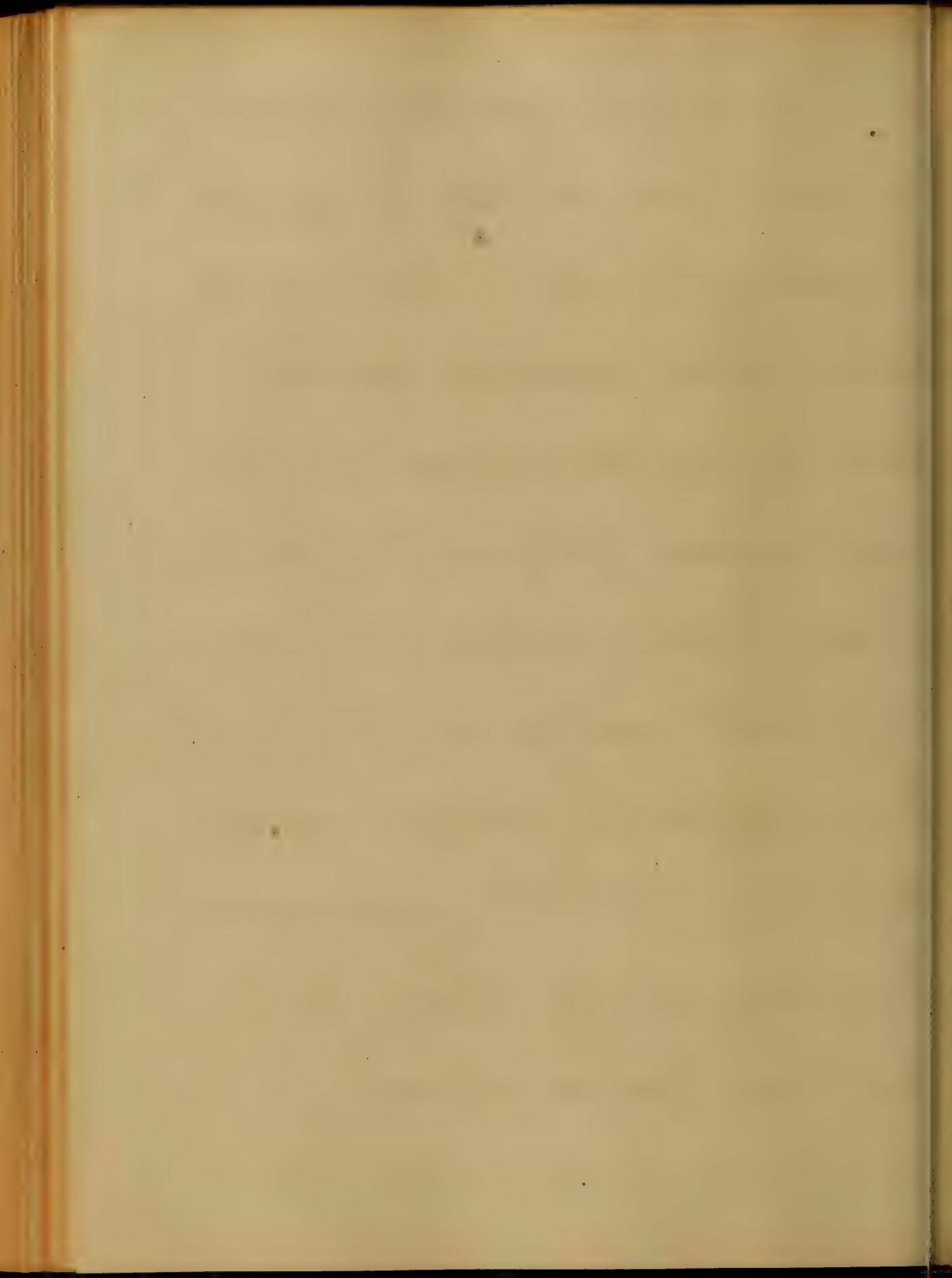


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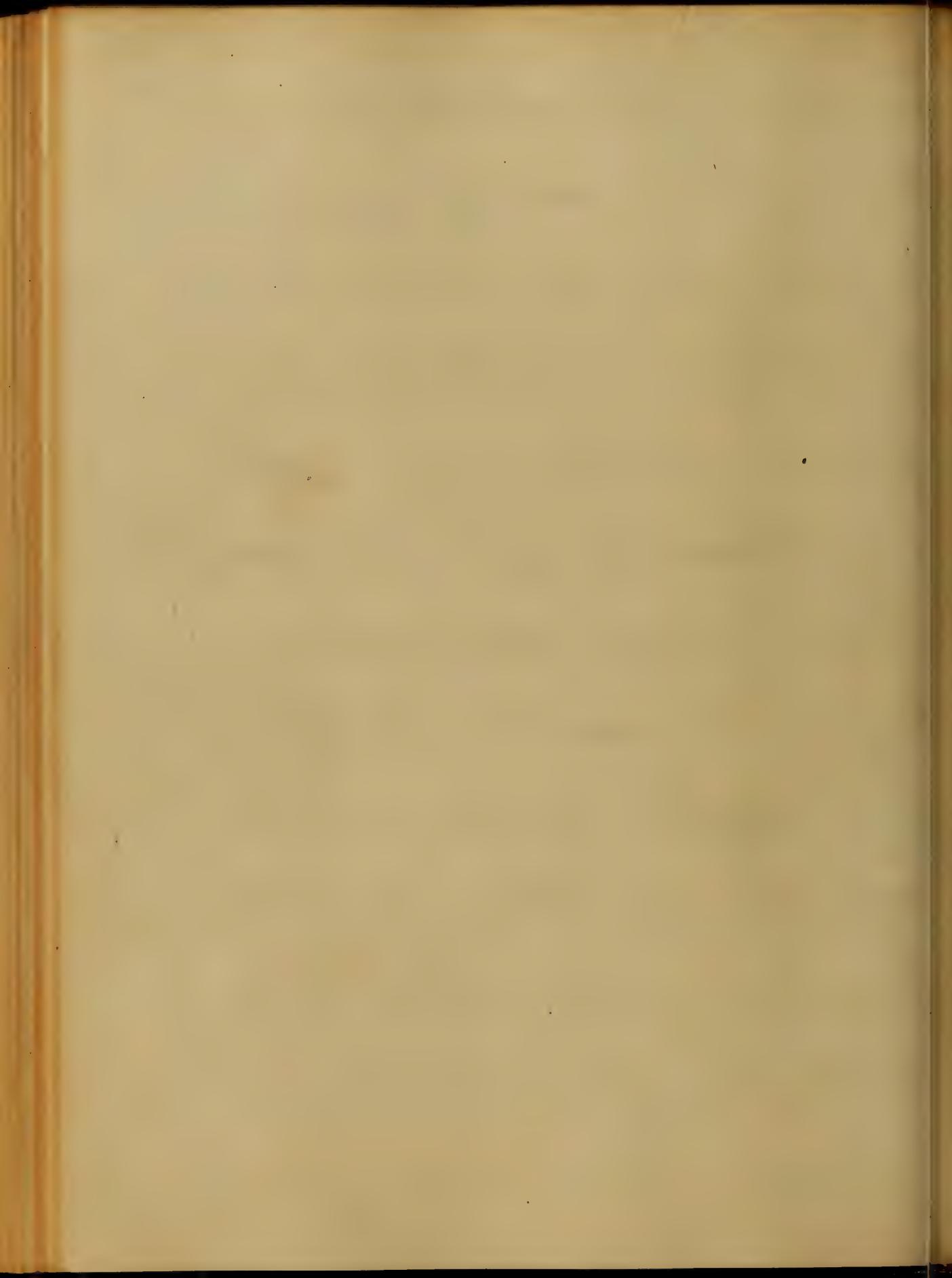
remittent fevers, the early administration  
of large doses of bark with proportionate  
sulphur of Guineo, or containing  
with its stimulus, is imperative. de-  
manded. As a prophylactic against  
malaria in fever, the use of the preparation  
of bark is very efficacious. On the other  
of sulphur, including that derived under  
spiral meningitis, the salts of guinea  
in full doses constitute the only true  
balsam; in conjunction with stimulant  
and nourishment, the yellow fever, the  
deleterious stage of which, so well



most exanthematous, gangrene, malignant  
syphilis, carbuncles, external suppuration,  
the typhoid form of fever generally, the  
hectic of phthisis, acute rheumatism,  
diarrhoea, dysentery, and cholera, and  
various disorders of the nervous system, as  
neuralgia, tetanus, and asthma, both in  
its preparation, or in the drug itself.  
It is also much used as a stimulant and  
general tonic, but when just the opposi-  
tely effect, as in convalescence from some  
severe case of the simple bilious or a  
febrile. Especially, bark in combination



an astringent and cathartic. There  
there are the principal form of doses  
in which bark and its preparation  
are employed. The preparation con-  
firms the Sulphate of quinine which  
is administered in about gr xii daily  
in doses of 1 & 2 gr - though now may  
begin - the dose of bark in powder  
is about 3 drachms. Then there is also  
some loose zii, extract of yellow bark.  
dose gr x to xx then extract, decoction  
tincture, loose zii to to compound at  
a Museum of the Royal College of Physicians

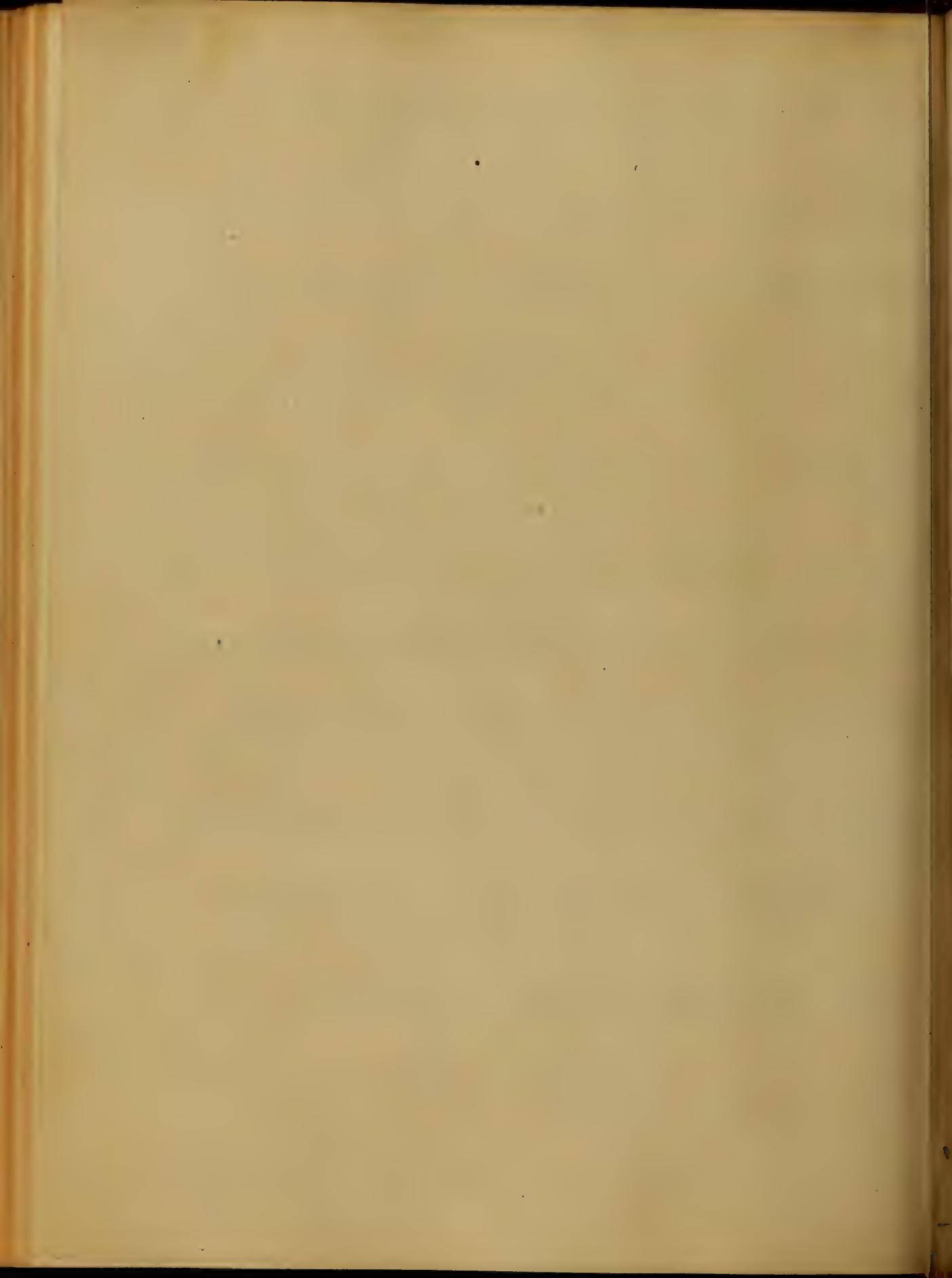


at present and expect to find  
the Sulphuric acid in  
a state of Crystallization  
and more than the Sulphate of quina.

Yours

I lay this before you, as a rough, un-  
certain, state, and I beg you, to excuse all  
technical, and other errors, that may be com-  
ing in as my science, that I am but  
a student, and have a great deal yet  
to learn.

Respectfully,  
John



A N  
**Inaugural Dissertation**

ON

*Phlebitis: its nature and treatment*

Submitted to the Examination

OF THE

Provost, Regents and Faculty

OF

**PHYSIC,**

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

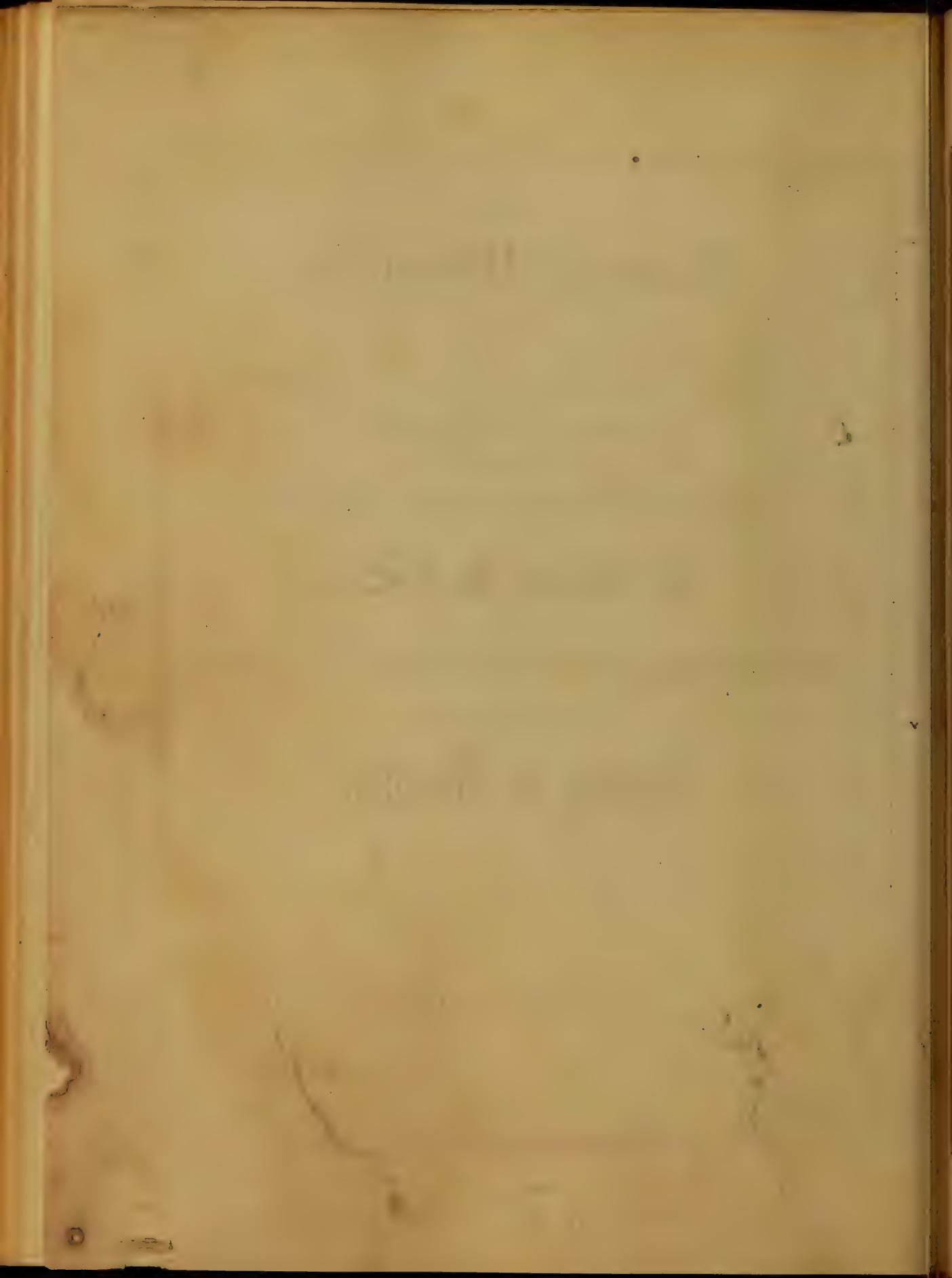
**DOCTOR OF MEDICINE,**

*John J. Egget*

*Maryland—*

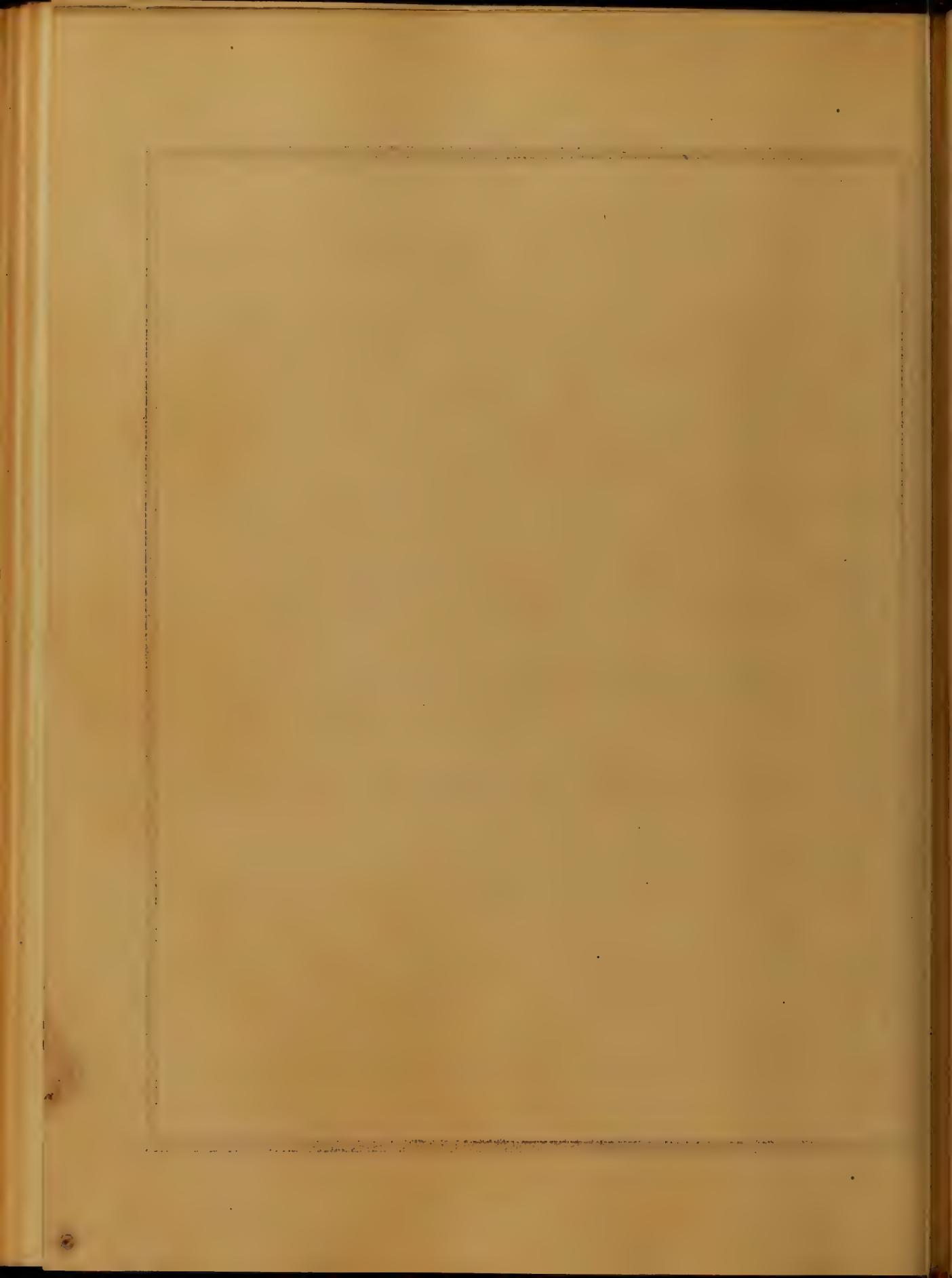
*Learned of*

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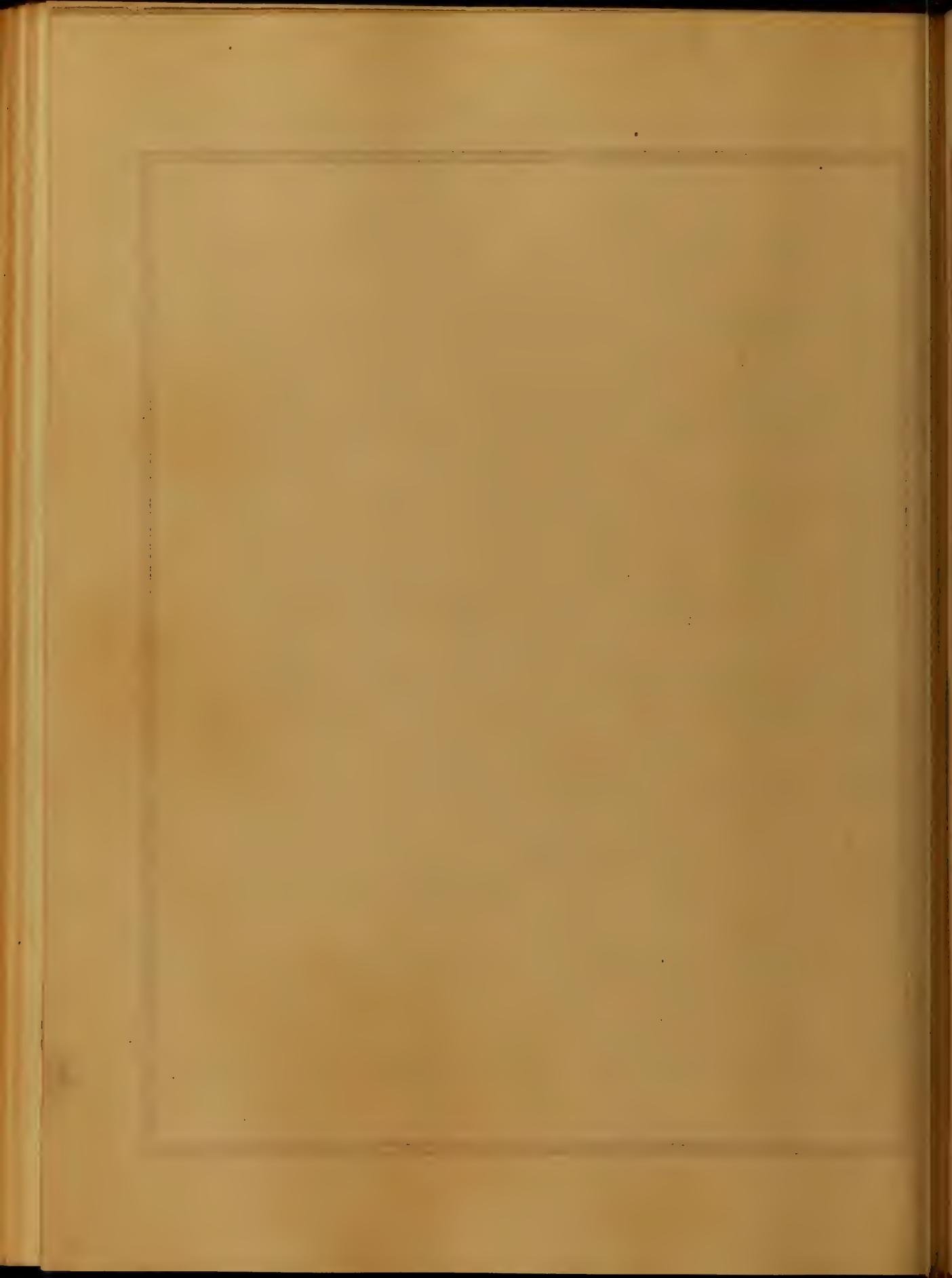
## Introduction

Of the several systems identified with the human body, none can surpass in point of interest to the student of Medicine, that of the nerves. It presents to him, in its thorough consideration, a subject fruitful indeed, in thought and investigation. Aware of the peculiar properties with which the nervous system is endowed, and the controlling influences it exerts upon associate systems, he desires to know, naturally enough, all that science has revealed upon the subject of its mysterious action. General Anatomy affords to the diligent student, complete information upon its structure and properties, while Descriptive Anatomy furnishes a view of its arrangement in the body. Physiology treats of its functions, and teaches that these can be neither physical or chemical in nature, as they do not correspond in their mode of operation, with any known phenomena belonging



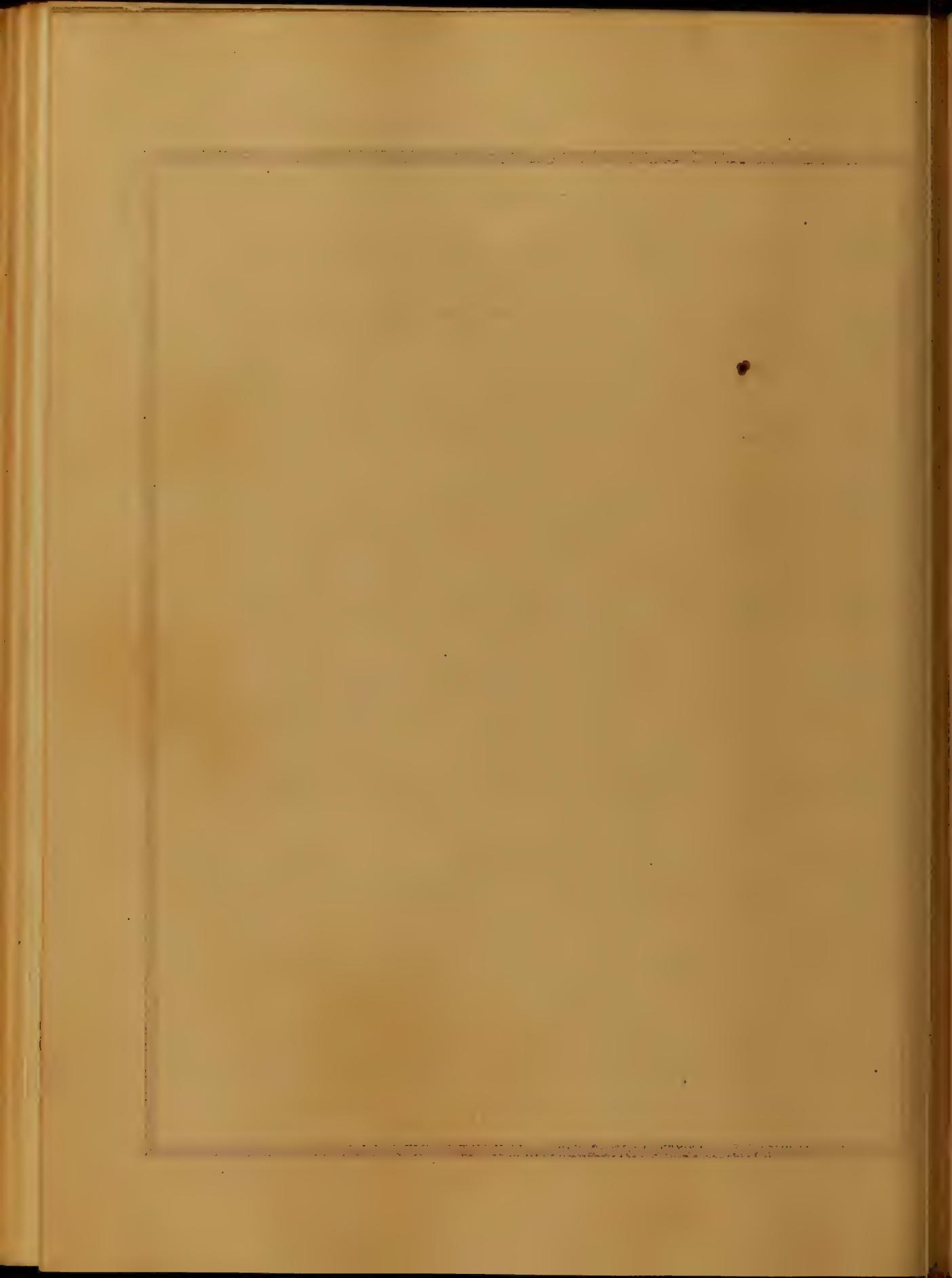
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to these two orders. That it is not an apparatus which acts for itself, but a medium of perfect kind, for the transmission of influences from one part to another. Beyond this, as regards understanding the mode by which impressions are conveyed, we cannot go. This yet remains unexplained, and will probably remain so, as do many other phenomena, the effects of which we are perfectly conversant with in every day intercourse with nature. The rapidity and accuracy with which impressions are conveyed, show the nerves to be possessed of most exquisite sensibility, and therefore of delicate structure. Can it be strange then, that such complicated and sensitive machinery should be liable to derangement, or that its disorders be ranked among the most frequent and troublesome that affect our race? The class of Neuroses, is recognized by the physician as comprising



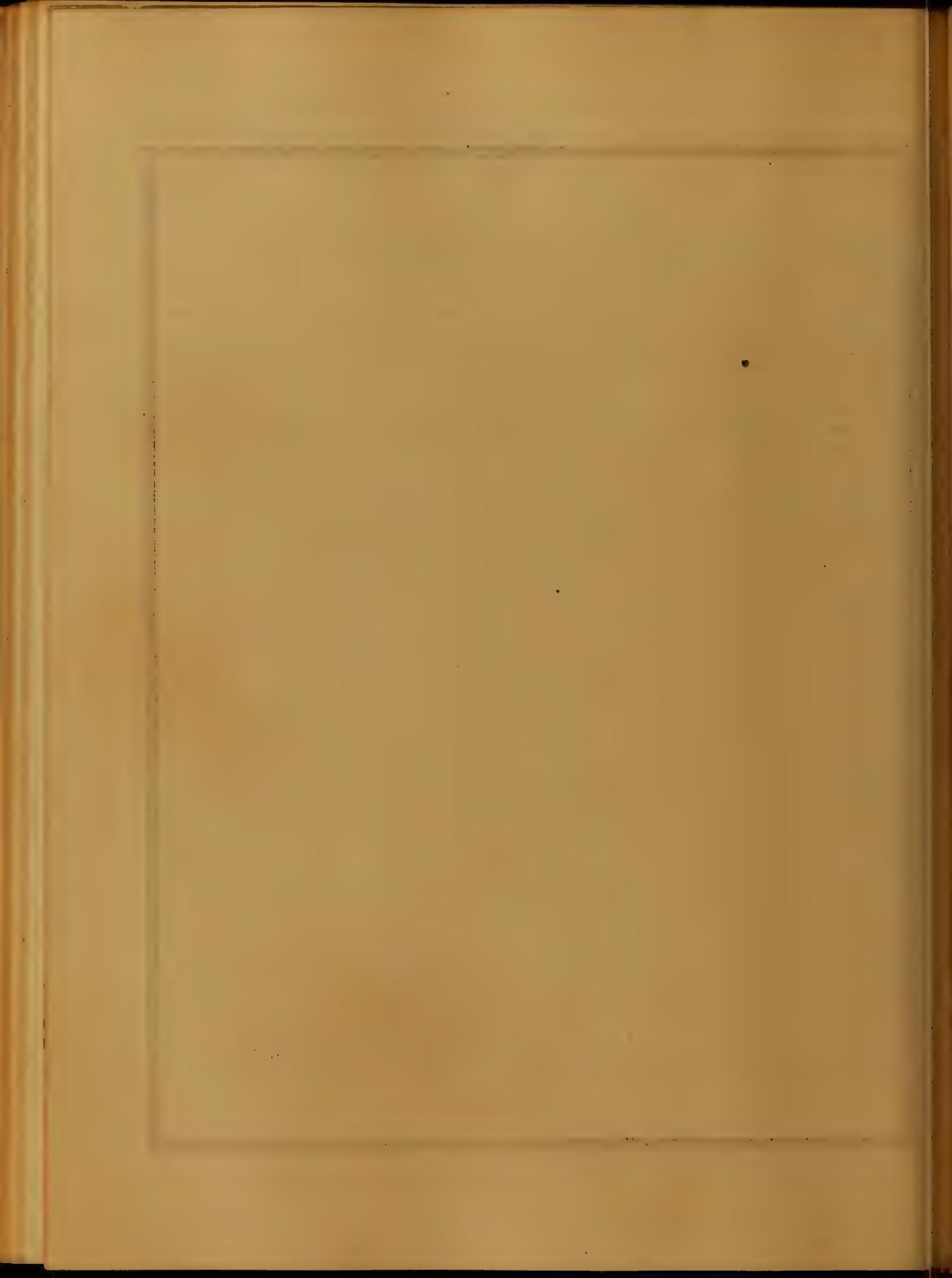
within its limits, the most obstinate, violent, and dangerous diseases, against which he has to oppose the resources of his art. None more frequently resist his remedies or baffle his skill, than these. The disease chosen as the subject of the following pages belongs to this class.

Tetanus is an affection which has been endowed with singular interest to the Author, since commencing the prosecution of the study of Medicine. Its frequent origin in causes apparently most trivial, the violence of its seizure; its intractability to treatment; the terrible sufferings entailed upon the patient; and in the majority of cases, when fully confirmed, its great fatality; all combined to attract his attention and impress him with the importance of understanding its correct pathology. In submitting this essay to the notice of the Faculty of Physic, &



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the University of Maryland, he feels that its many imperfections will be kindly considered, even as its merits will be justly and impartially decided upon by them; and that however much it fails to reach the standard of a thesis in their estimation, yet the degree of effort made will partly, at least, compensate for the want of consummation.



## Tetanus

The nature of Tetanus has always afforded a subject of ample scope for discussion in the medical world. Many theories have been advanced from time to time upon the ratio symptomatum and proximate cause of tetanic affections, that may be said to possess the property of skillful reasoning combined with a certain degree of probability, but none have been of such character as fully to accord with all the phenomena attending their singular course. Discrepancies will appear in endeavoring to adapt these theories to the known characters of the disease. Uncertainty yet prevails as to how a minute puncture of the skin, a contusion, laceration or incision, and exposure to cold with moisture, can produce a lesion of such dangerous kind. It is our design to introduce some of the theo-

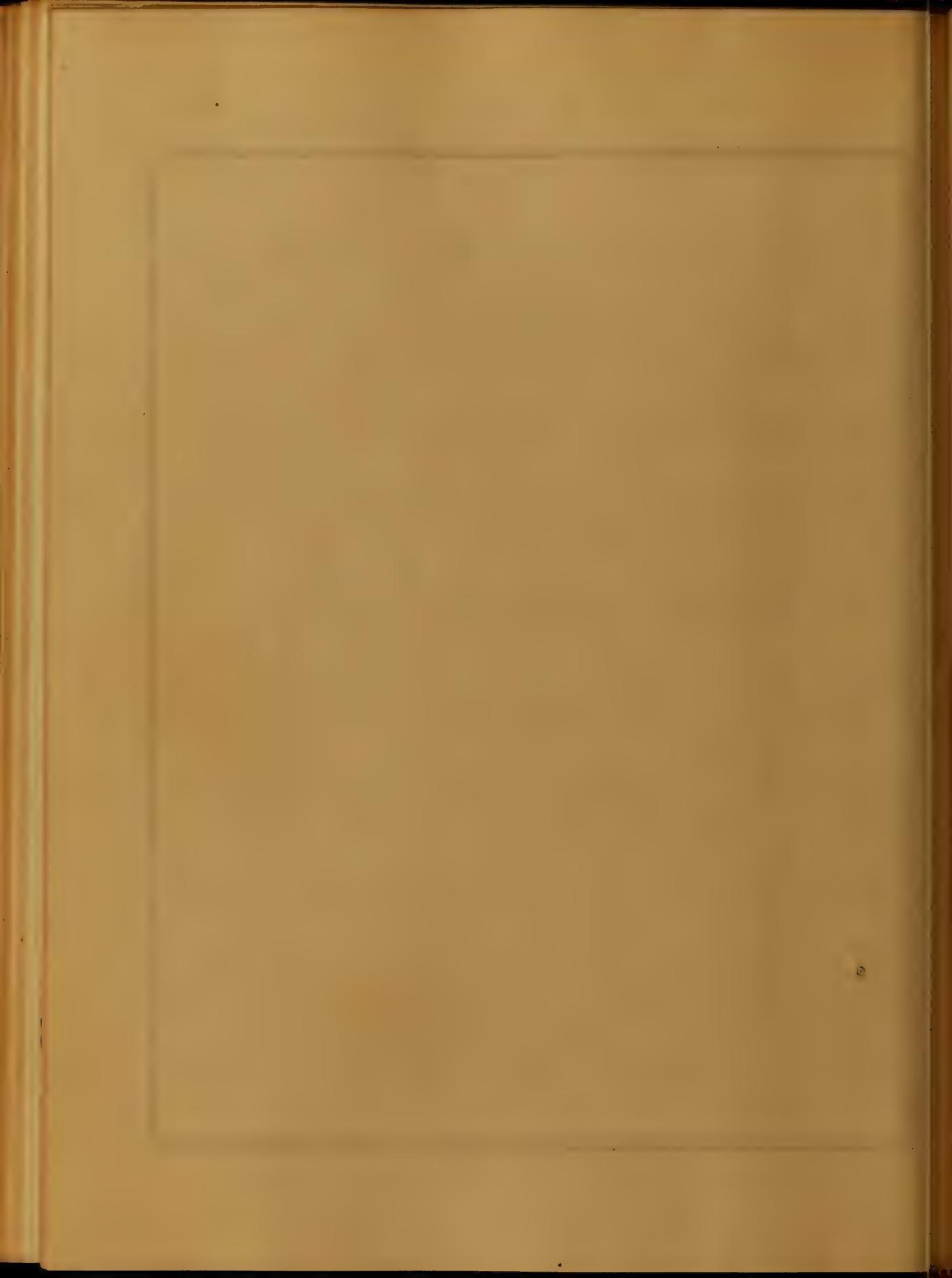


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ries referred to, and accompany their notice with such remarks as may be suggested by their consideration.

Galen referred the seat of the disease to the spinal marrow, but left no theory as to the condition in which it was necessary for that part to be, to cause its production.

Willis, of England, and Hoffman of Saxony, who flourished in the 17<sup>th</sup> century, concurred in the opinion entertained by Galen, and supported the same by adducing the evidence furnished by post-mortem appearances, and the fact that the muscles supplied by spinal nerves, were almost exclusively affected. Hoffman, however— who has the merit of first turning the attention of practitioners to the morbid affections of the nervous system— went still further, and taught



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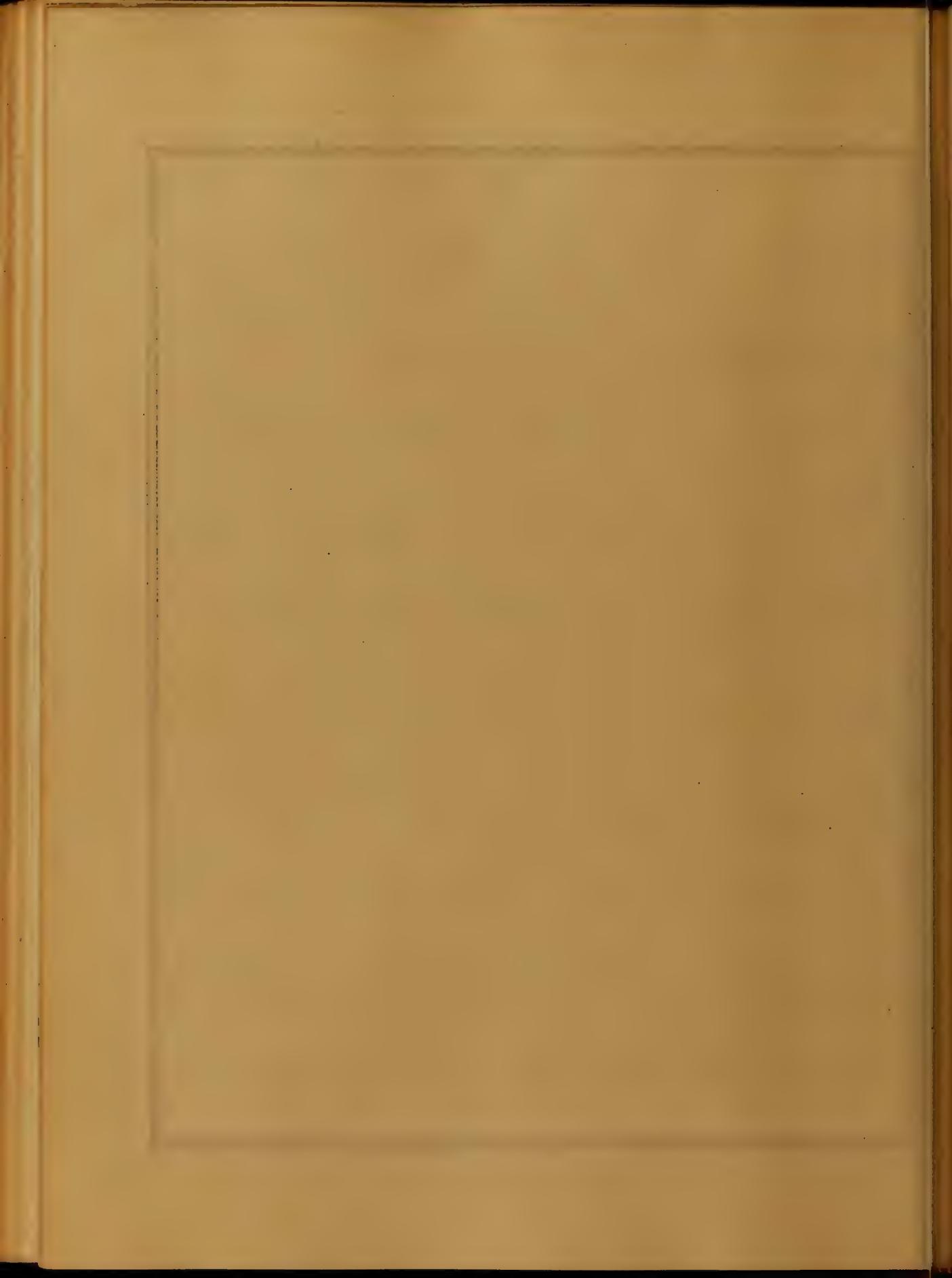
that it consisted essentially in "violent contraction of the membranes surrounding the spinal marrow, and the nerves proceeding from it, which produced impetuous influx of the nervous fluid into the affected muscles." That "the convulsive irritation might be induced in two ways: either the membranes, being directly irritated, were convulsed themselves, and drew into convulsion other parts connected with them; or, some of these parts, being first spasmodically affected, communicate stricture to the spinal marrow, from which it extends by concert to other parts, between which there is no evident connection, unless through the medium of the brain." This doctrine, based evidently upon the Humoral pathology, needs no refutation, as its defects are sufficiently apparent. The fact that the membranes above mentioned are possessed of no contractile power, destroys this theory.



at once.

The theories indulged in by Medical men upon the nature of Tetanus, since the time of Hoffman and up to a recent period, offer us but few essential points of difference (as far as known to the Author) from those already given.

We shall therefore, next notice the opinion of Dr. Geo. B. Wood, of Philadelphia, upon the question, as expressed by him in his "Practice of Medicine". Dr. Wood believes the disease to be undoubtedly seated in the spinal Marrow and Medulla oblongata. That the morbid action may extend also to the white substance of the brain. That the morbid action present, is not inflammatory as such condition seldom leads to such an excess of function, but rather induces the reverse. This principle being well illustrated by the fact, that one of the most common results of inflam-



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mation within the spine is paralysis. He admits that inflammation of one part, may communicate an irritant action to another and sound part; and that tetanic spasms are sometimes really mingled with the other symptoms of myelitis. But, in the occasional cases of tetanus, originating in inflammation within the spinal column, that the inflammation does not constitute the disease: it is merely a cause of it. In such cases the presence of the characteristic symptoms of the myelitis or spinal ~~spinal~~ meningitis revealing plainly their complication. He defines the infected state of the spinal and cerebral meninges, and the slightly infected appearance of the nervous substance exhibited by dissection, to be the result, not of inflammation, but of congestion. The latter he regards as the result, and not the cause of the disease, and alludes in support of this view, to its frequent absence in fatal cases.

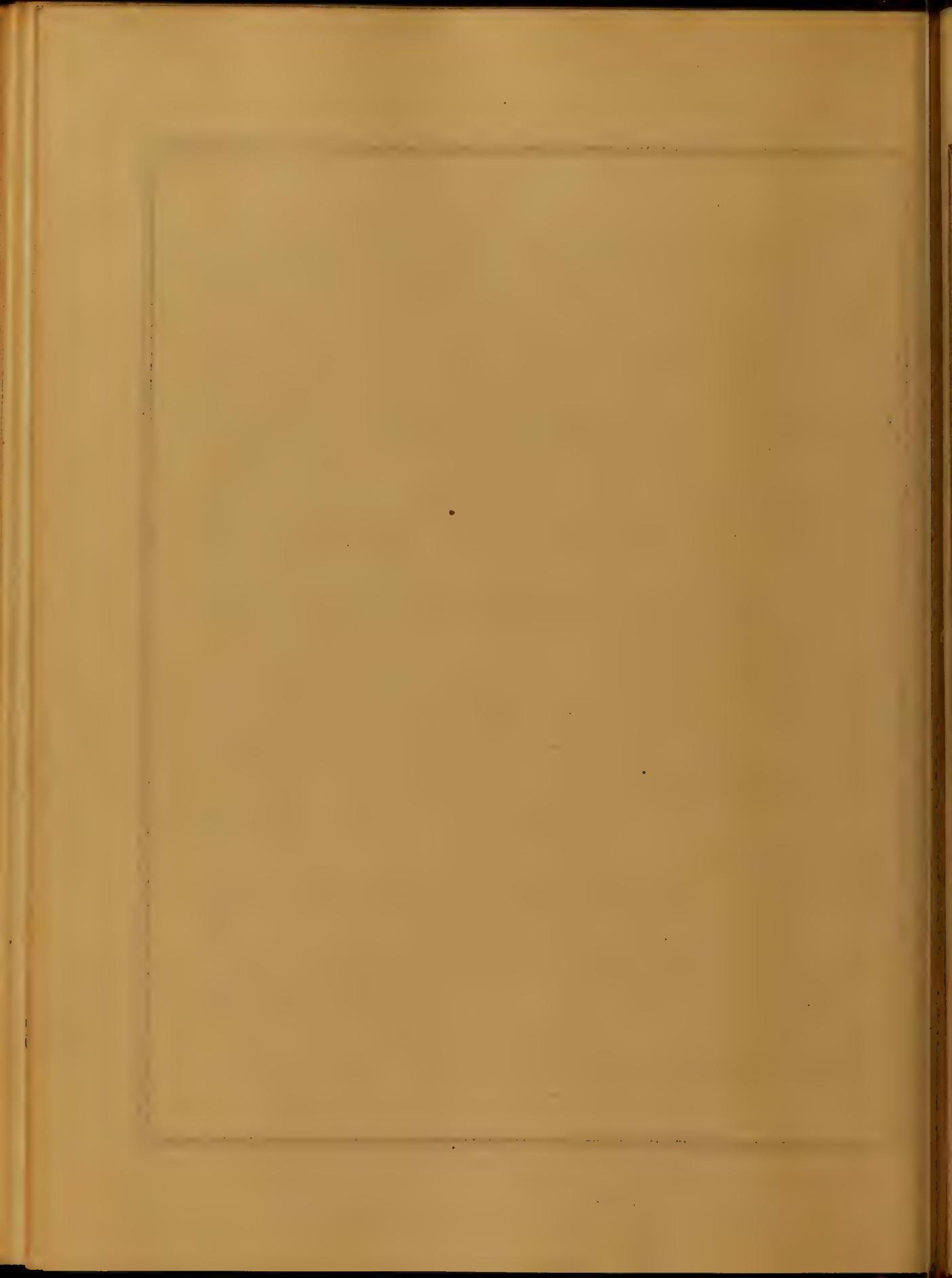


D<sup>r</sup> Woods special theory is: That the disease is a mere irritation of the spinal marrow, including the medulla oblongata, and possibly, to a certain extent, the white cerebral fibres. This irritation may be propagated from the injured extremities of the nerves, as in wounds; or from other sources of excessive excitement, as the intestinal mucous membrane in verminose affections; or it may originate in the spinal marrow itself through causes acting on that structure, such as cold or rheumatic influence. The irritation thus excited in the medullary columns, is extended to the muscles, and produces tetanic spasm, exactly as the same effect is caused by irritating the spine directly by running an iron wire into it, or by mechanical injury of one of the motor nerves proceeding from it. The vascular infection, without other marks of inflammation within the spinal canal, is the result of the



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irritation, just as redness of the conjunctiva is produced by Neuralgia of the eye. How it should happen that the nerves of the wounded part should remain apparently quiescent for some time, occasionally even till the wound has healed, is one of the mysteries of which so many remain unsolved in relation to nervous action. We may conjecturally say, that at one period of the wound, the requisite irritability of the spinal marrow which constitutes the predisposition, is not yet in existence, and is to become developed by the circumstances under which the patient may be placed. But, if this were true, it would only remove the difficulty a single step. It has been well ascertained that, though the spinal irritation may be set on foot by the local cause, it is afterwards capable of sustaining itself, and may continue even though the cause has quite ceased to operate."



Having concluded our notice of Dr. Wood's views, we shall next refer to those entertained by Denome. From laborious researches (the results of which were confirmed by Flechner and others) this gentleman ascertained the presence of new growths of connective tissue in the cord, in various fatal cases examined by him. Upon being convinced by observation of this fact, he appears to have arrived at the conclusion, that upon this pathological condition the disease essentially depends in all cases. As a natural sequence to this idea, he proposes to accord to Pot. Iod., the preference as a remedial agent. A course of treatment of so thoroughly unpractical a nature, as hardly to obtain the assent of the inexperienced practitioners.

Kleberg concludes that "Tetanus is not a nerve disorder, but an affection of the blood localizing itself in the muscles. This localization expresses itself by deposits in the muscular



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tissue, and metamorphosis of the same probably directly induced by altered or diminished innervation. The immediate result of this is shortening and stiffness of the muscles; the tetanic convulsions are consequently not spasms but contractures".

The reflex spasms which he admits do occur are only accidental, and do not belong essentially to the disease. If this theory be correct, we ask why should this localization of a blood poison in the muscular system, be confined to a particular portion of the muscular structure? Or, why is not the whole muscular system similarly affected, when every portion is equally permeated by the noxious principle contained in the blood?

Richardson, Roser, Wells, Thomson and Betoli, regard tetanus as "the result of a poisonous matter formed in the blood, or absorbed into it from an unhealthy secretion of the wound. This acts like Strychnia, setting up that peculiar irritability which



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of the cord which is the essential condition of the phenomena, and without which the various slight excitants which produce the spasms would take no effect." They, with reason, urge the prime necessity of accounting for this condition of exalted polarity, which in their opinion cannot be explained upon the sole view of peripheral irritation. They argue in addition, that their theory gives an explanation of the idiopathic form, and of the occasional epidemic or endemic prevalence of the disease. The close resemblance of hydrophobia, a disease undoubtedly of toxic origin, and tetanus, is referred to by them to further substantiate their doctrine; as also the fact that division of the nerve proceeding from the seat of injury in traumatic tetanus has by no means proved as frequently successful as one would expect on the view of peripheral irritation being the sole and essential cause.



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C. Handfield Jones in noticing this theory, says: "There is much in this theory to commend it, but until it is proved that any secretion of a wound can, on being inoculated, give rise to tetanus, it must remain a mere hypothesis. We have no example of any similar morbid production, setting up notable nervous disorder. In glanders and farcy, in malignant pustule, in syphilis, in syphilitic and smallpox inoculation, and in the action of snake poison, the phenomena are much more those of disordered circulation and blood crisis than of nervous derangement. It is certainly extremely rare, if it ever happens, that a foul ulcer, not the result of traumatic injury, becomes the cause of tetanus."

We would add in relation to the resemblance existing between hydrophobia and tetanus, that the idea of the latter being dependent upon any material poison would seem to



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be disproved by the circumstance, that in the former affection, the presence of a poison is evidenced by the Vis Medicatrix Naturæ attempting to eliminate the poison through the agency of the salivary glands (by largely increased secretion), while in tetanus no such effort is made.

C. Handfield Jones in his work on "Functional Nervous Disorders", concedes that the theory which assigns to local irritation the chief place in the causation of the disease has, especially if somewhat modified, much evidence in its favor. He quotes the testimony afforded by Mr. Poland's figures obtained from the records of Guy's Hospital, as being strongly in its favor. These show that in the institution mentioned, when wounds were made by a clean, sharp knife, tetanus occurred in the proportion of 1 case in 1364, while in those resulting from accidents and where the nerves were injured, the proportion was 1 in 55.



Clearly, to his mind, there must exist in all cases, a certain predisposition of the cord, before the spasmodic symptoms declare themselves. As a means of throwing some light upon this dark subject, he proposes to note some points of affinity between tetanus, and other nervous disorders. The well known fact that prolonged exposure to heat has a considerable influence in promoting the occurrence of tetanus, as also that it enfeebles the nervous system, and renders it more liable to a variety of derangements, is introduced. That exposure to wet and cold may give rise to tetanus, as also, according to Maisonneuve, it may be the proximate cause of epilepsy, is likewise noticed by this author. The production of cramp by cold is a familiar fact, and one in which the question of poison cannot be entertained. Yet it is a minor tetanus. He argues that the supervention of tetanus upon exposure



to wet and cold, bears perfect analogy to the invasion of paralysis under similar circumstances, and, though the results of the spasmodic & paralytic affections differ widely in character, yet there is much to justify the view that both are varieties of deranged action of nerve cells. "Just as numbness and pain," he says, "which are certainly very different sensory disorders, are co-products of the cause giving rise to neuralgia, so it may be with spasm and paralysis. . . . ."

"If prolonged action of our muscles causes fatigue, the same when one position is maintained for a long time causes cramp. These facts go to show that causes producing impairment of nerve power may give rise to spasm."

D<sup>r</sup> Jones is inclined to the opinion, from the case quoted by Pflüger from Dieffenbach in which a tetanoid state of one arm, and general epileptic paroxysms, resulted from the



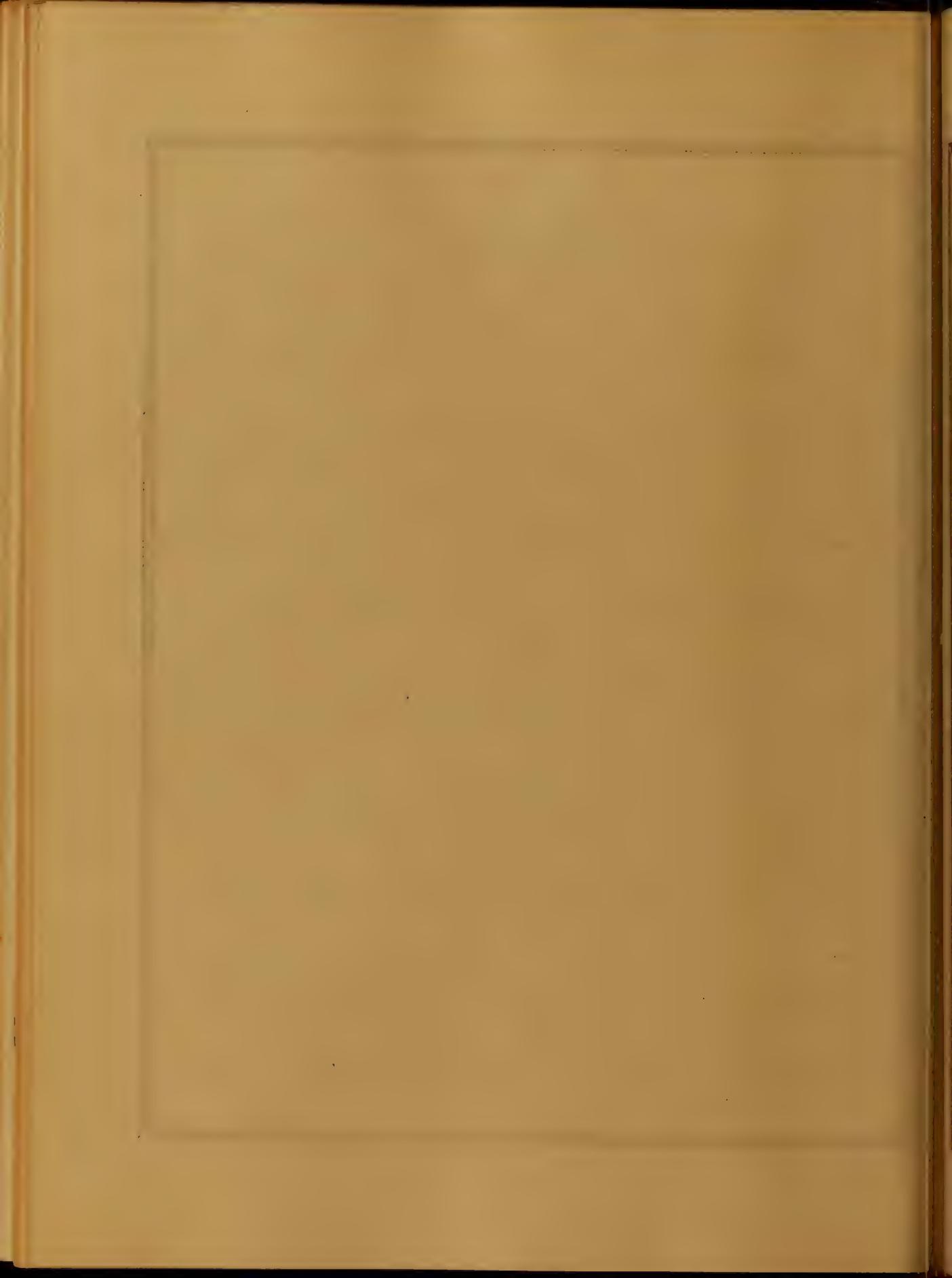
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same traumatic irritation, and ceased with its removal; that in both these affections a morbid condition of a diathetic, rather than toxic character, is indicated. He thinks it worthy of consideration, that the muscular contractions in tetanus are accompanied with severe pain, the pain of cramp. That this shows of itself that they are very different from voluntary muscular contraction, which how forcible soever are never painful. He believes the association of pain approximates the nerve disorder to neuralgia.

We will now introduce some points contained in an interesting communication, which appeared in the "London Lancet" of Aug. 12<sup>th</sup> 1865, by Mr. J. Lochhart Clarke, and originally addressed to the Royal Medical and Chirurgical Society, upon the condition of the spinal cord in six cases of tetanus. In every one of these there was not only more



or less congestion of the blood vessels, but there were also definite and frequently extensive, lesions of structure, such as have never yet been discovered. These lesions consisted of disintegrations of tissue in different stages of progress, from a state of mere softening to that of perfect fluidity, and were accompanied by certain exudations and extensive effusions of blood. They were found chiefly in the gray substance, which, moreover, was in many places strangely altered in shape—unesymmetrical on the opposite sides, or partially fused with the adjacent white column in a common softened mass. Although lesions of this kind existed, in one form or other, in every region of the cord, they were absent in some places; nor did they ever, for long together, maintain the same shape, size, or appearance, but were constantly & alternately increasing, diminishing or disapp-



pearing, at short but variable intervals. These lesions in tetanus are precisely similar in character to those which the author (Mr. Clarke) has discovered in the spinal cords of many ordinary cases of paralysis; and on comparing together the lesions and symptoms of both kinds of diseases, he finds good ground for the support of the following conclusions:

1<sup>st</sup>. That the lesions are either not present, or are present only in a slight degree, in those cases of tetanus which recover.

2<sup>nd</sup>. That they are not the effects of the great functional activity of the cord (manifested in the violent spasms) but are the effects of a morbid state of the blood vessels.

3<sup>rd</sup>. That they are not alone the causes of the tetanic spasms.

4<sup>th</sup>. That the tetanic spasms depend on two separate causes.



firstly, on a morbidly excitable condition of the gray substance of the cord, induced by the hyperemic and morbid state of its bloodvessels, propagated from the injured nerves and resulting in exudations and disintegrations of tissue; and, secondly, on irritation propagated and spread through the morbidly excitable cord from the same source - from the periphery, by the diseased nerves.

Mr. C. stated that the observations described in the paper were made on the spinal cords of six cases of tetanus; and that since the communication of the paper, he had examined the cords of three more cases with precisely similar results. The lesions and alterations of structure, though numerous, were in some places exceedingly small, and appreciable only under glasses of considerable magnifying power.

In the report of the Transactions of the Medical Society of



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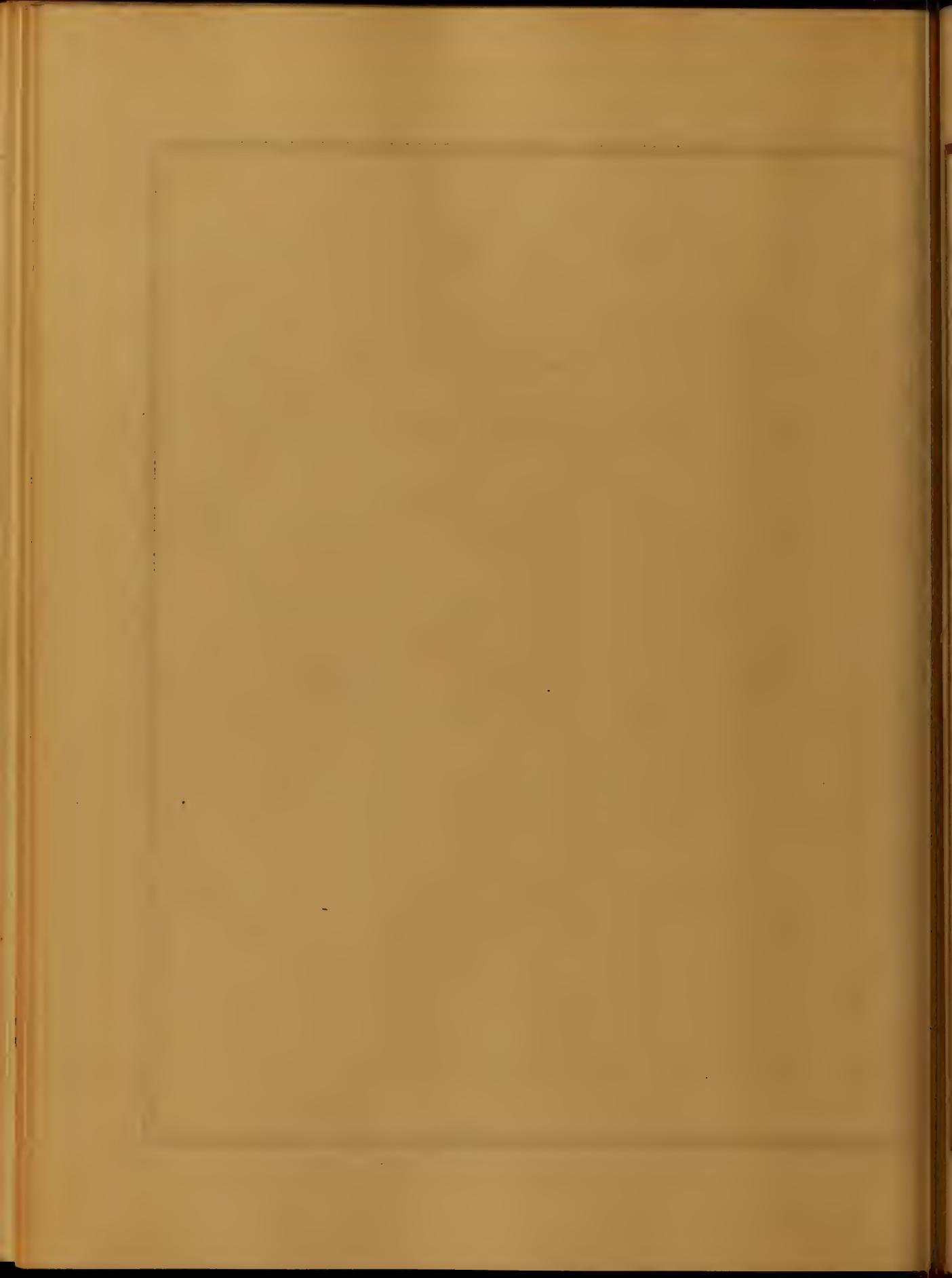
the State of New York for 1861," we find the first paper to be upon traumatic tetanus, by Dr J. McMurtry, of the city of New York. This gentleman assumes and defends in this paper, the position that in the blood of certain persons, there circulates a morbid principle, which produces in them a tetanic diathesis, which, when sufficiently developed, and then only, will give rise to tetanus, whether the patient shall receive any local injury or not. Dr McMurtry disclaims the ability to demonstrate the morbid cause of tetanus, or to show in what manner it operates to produce the result; these points he reserves for future investigation.

The chief argument in favor of the position referred to, is the unquestionable fact, that tetanus has occurred idiopathically without the infliction of any injury whatever; while, on the other hand, the very class of injuries, the infliction of which is reputed



to be those most apt to occasion tetanus, occur daily, in a very large number of cases, and under all the conditions which are usually esteemed as those increasing their tendency to give rise to tetanus, without any tetanic symptoms being produced.

We have aimed thus far to collate the views of different pathologists upon the nature of tetanus. In doing this the author has availed himself of all the sources of information within his reach, and endeavored to briefly embody the opinions obtained in a single paper. These opinions, though not numerous, must be considered as having considerable influence upon a correct appreciation of the nature of this disease, coming as they do, with perhaps one or two exceptions, from men of eminence in the medical profession. In deducing inference from the opinions given, we conclude : 1<sup>st</sup> That the scale of medical opinion inclines towards the view, that tetanus is dependent



upon a morbid condition of the spinal cord; and 2<sup>nd</sup>, That said morbid condition depends essentially upon a certain predisposition which must first exist in the spinal column.

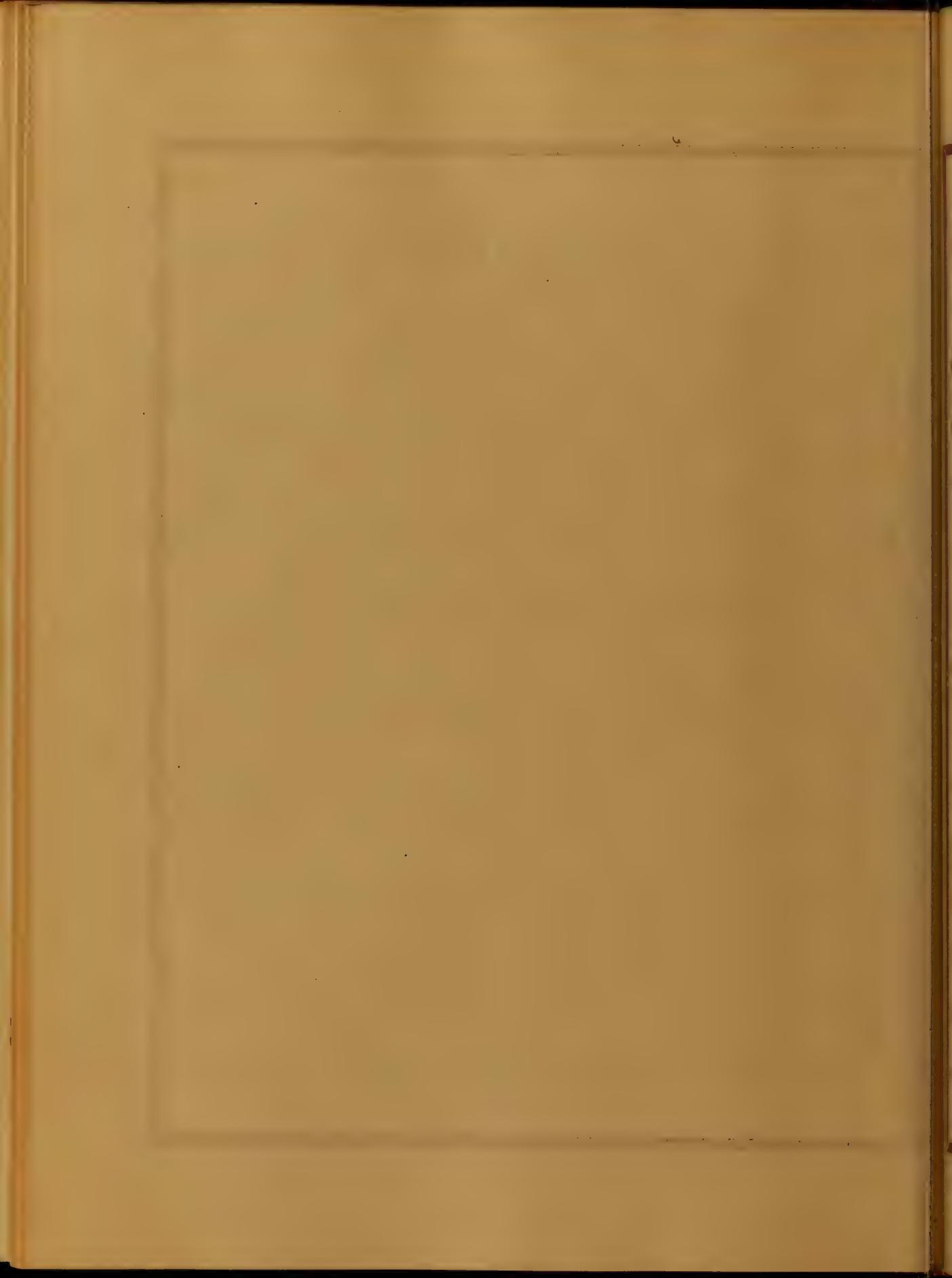
What this morbid condition is, and what constitutes the predisposition, are questions upon which some diversity of opinion exists. Prof. Wood thinks the "morbid condition is "a mere irritation of the spinal marrow including the medulla oblongata." Dr. C. H. andfield Jones says it is "a variety of deranged action of nerve cells." Mr. J. Lockhart Clarke that it is "a morbidly excitable condition of the gray substance of the cord." Richardson, Roser, Willis, Thompson and Detoli say that "a peculiar irritable state of the cord, is the essential condition of the phenomena."

Our own humble opinion is that tetanus essentially depends upon a morbid excitation of the vital properties of



the spinal cord, and that such excitation is due to increased activity of the circulation in that structure. This view would seem to be justified by the following facts:-

Muscular contractility is a property inherent to the muscular fibre, and acts through stimuli conveyed by the nerves. In tetanus the tonic spasms produced by continuous nerve stimulation, indicate the source from whence this stimulation proceeds, to be in a state of exalted activity. This exalted activity or morbid excitation of the spinal cord, can alone be dependent upon an increased circulation of blood through its vessels, as the fact has been demonstrated conclusively, that nutrition is the source of the vital properties. Brown-Séguard divided the spinal cord in the dorsal region of a mammal, and then killed it by occluding the carotid artery. A few minutes after the cessation



tion of reflex action, he injected blood by the opening made in the carotid. Life returned and with it the reflex faculty. This experiment proves positively that the reflex faculty is a vital property belonging to the spinal cord, and that its source is in the nutrition which maintains the organization of that nervous centre.

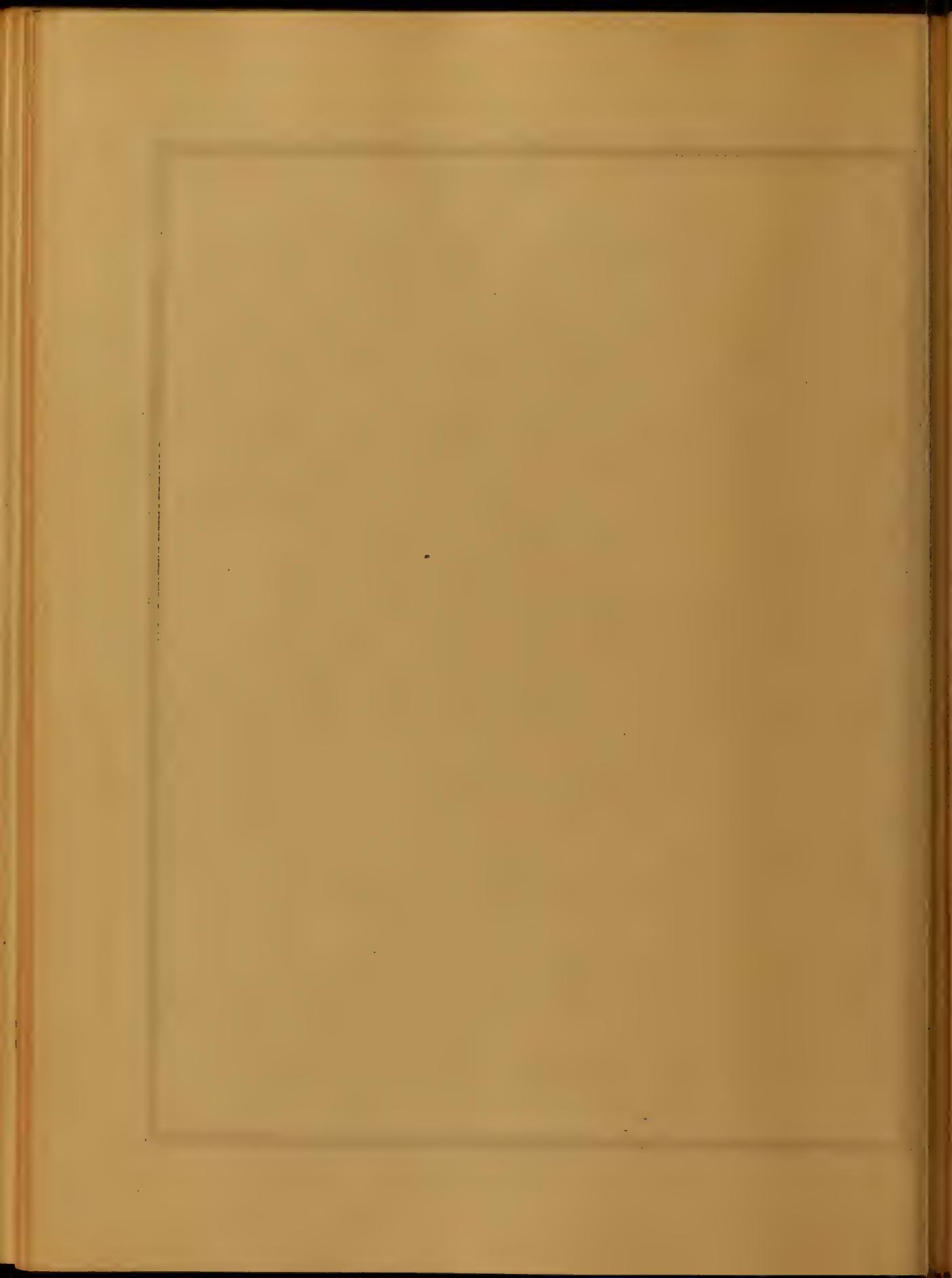
Admitting that increase of nutrition produces increase of nerve power, we can better understand the effects of climate and temperament in acting as predisposing causes of the disease. Itanus is well known to prevail to a greater extent in hot climates than in cold ones. To account for this we have but to consider the fact that in such climates the whole dermoid system is in a state of exstition; hence, through continuous sympathy, the spinal cord is similarly affected, producing afflux of blood, and consequent in-



1

crease of sensibility and nerve power. This nervous centre being thus kept continually at nearly its maximum healthy standard of nutrition, must naturally, when it becomes the seat of still greater activity of circulation through the irritant influence conveyed to it by the nerves implicated in a puncture, contusion, laceration or incision or those exposed to sudden vicissitudes of temperature, give evidence of morbid excitability by the exercise of preternatural reflex power.

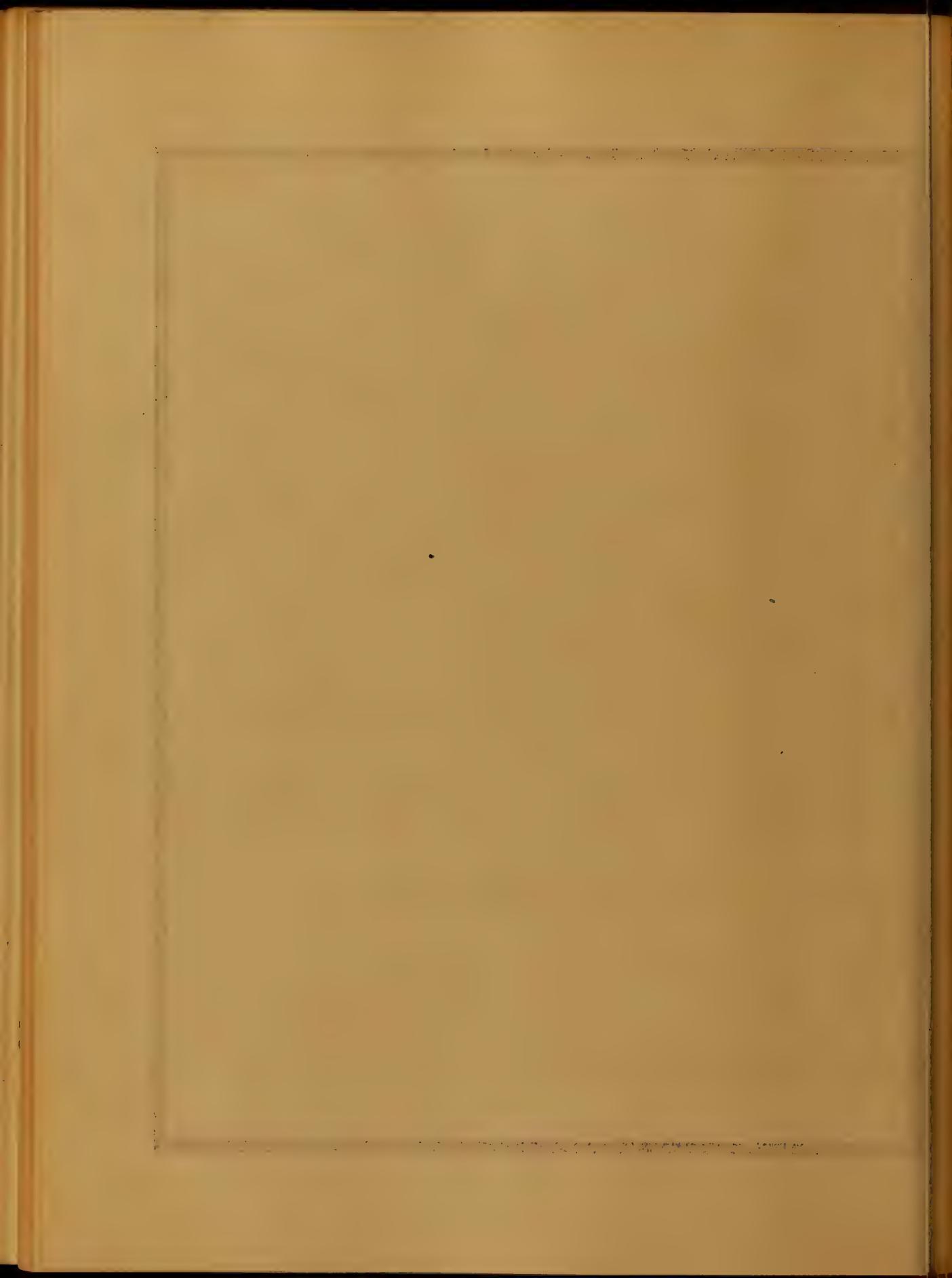
That temperament exerts some influence upon the contraction of tetanus is a fact which comes to us substantiated by observation. Baron Lormey observed while with the army of the first Napoleon in Egypt, that the temperaments of the majority of those affected with the disease, were of the dry or irritable kind, as he termed it. We therefore conclude



that persons of a nervous temperament are particularly predisposed to attacks of tetanus, because in them the cerebro-spinal system is in excess, or peculiarly excitable.

Hence, causes of most trivial character, may produce the disease, even in cold climates & without the aid of a high temperature, by increasing the already great excitability of the spinal cord.

Cases of idiopathic tetanus may be explained upon the principle, that where there is a high state of nutrition of the spinal cord produced by the influence of climate or temperament, causes of so slight character as not to attract notice, may produce the disease by augmenting the already high stimulation of this nervous centre. The fact that division of the nerves leading from the wounded part in traumatic tetanus frequently fails to check the disease



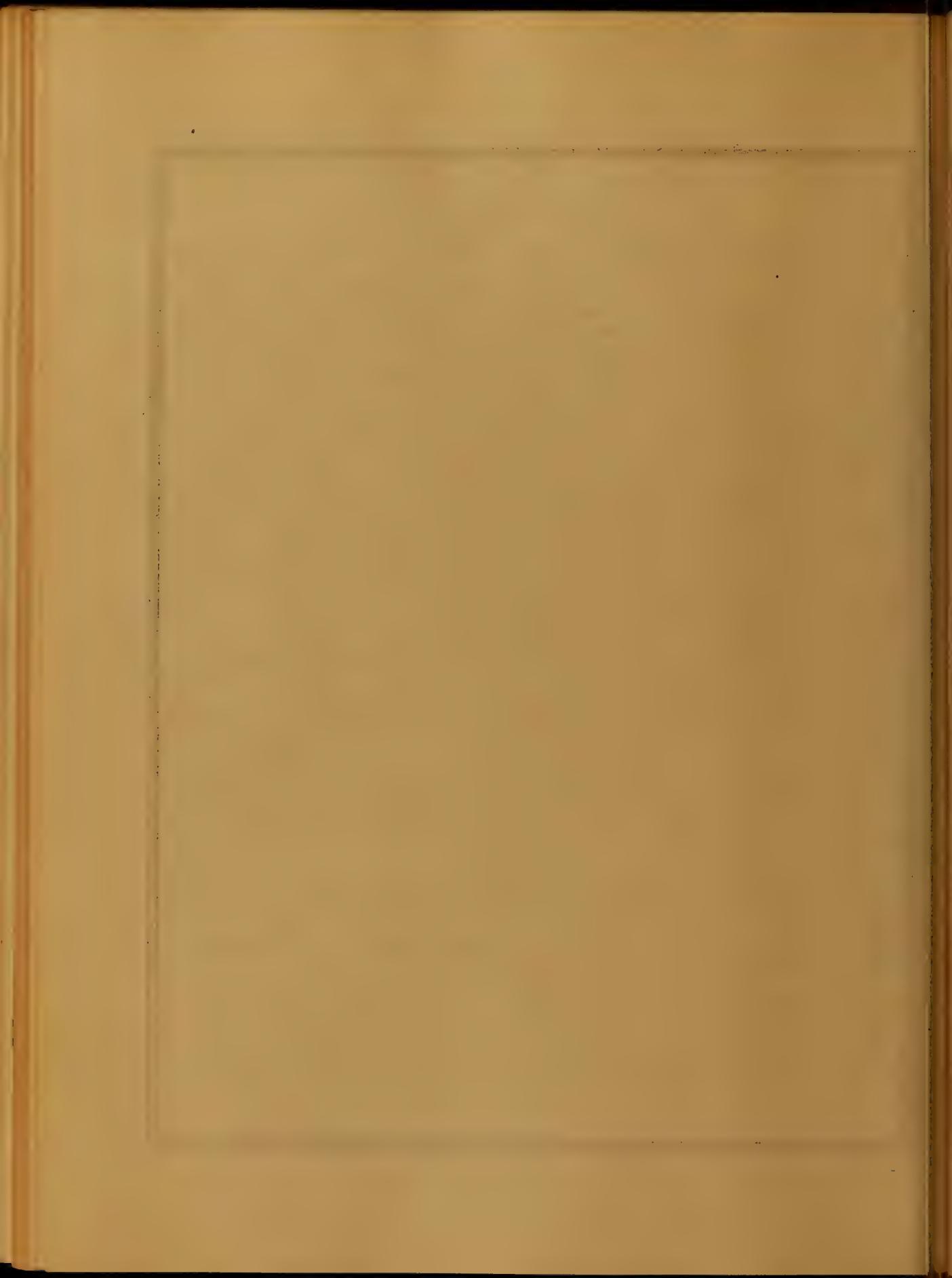
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may be accounted for, by remembering that the violent pain accompanying the involuntary muscular contractions, may afford the requisite irritant influence to the spinal column.

### Treatment of Tetanus

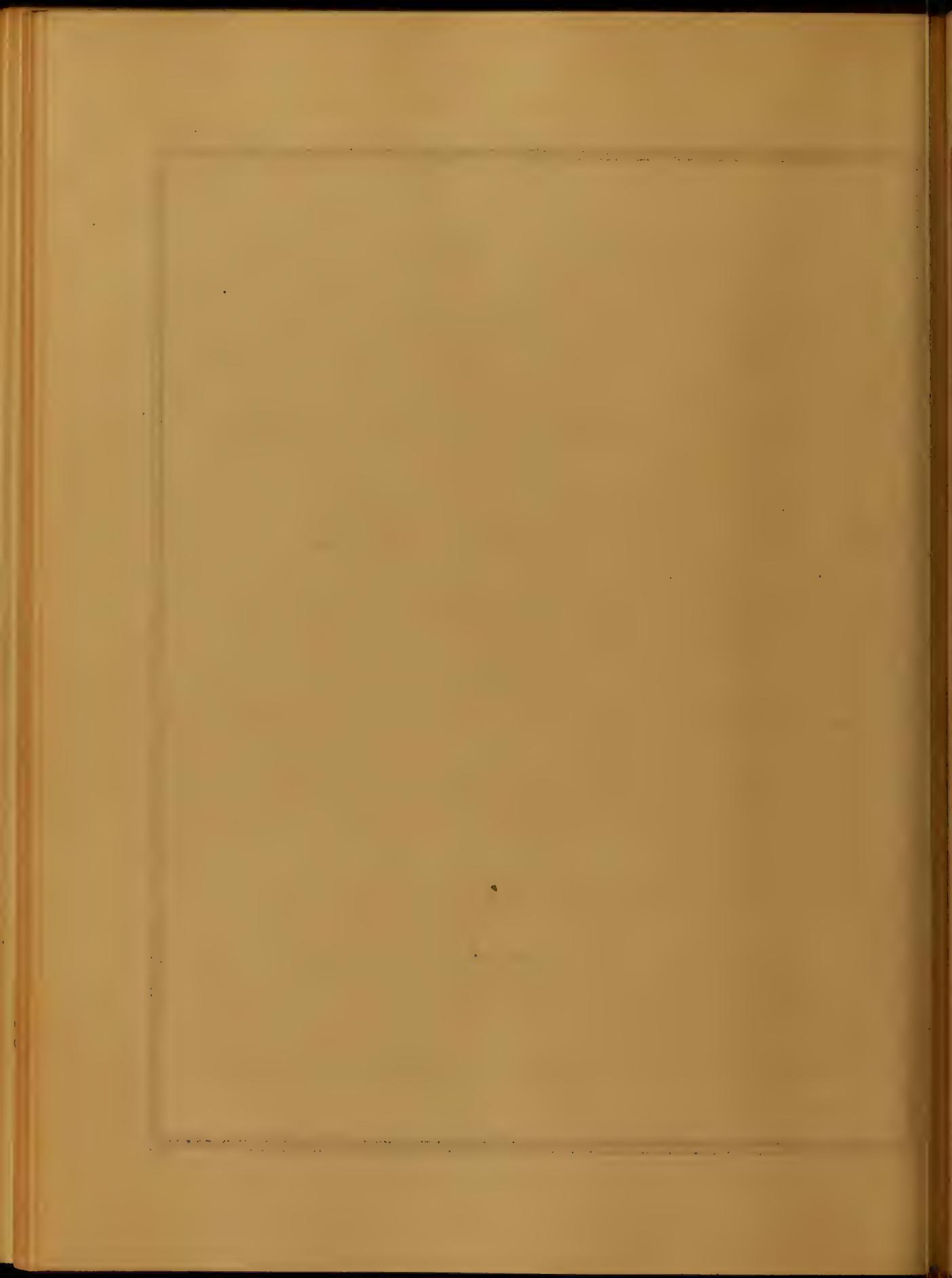
The treatment of tetanus is both local and constitutional in character.

The local treatment has for its object the removal of the irritation that has induced the tetanic condition. Although it is true that when tetanic excitement has been set up in the cord, it has a tendency to continue after the ablation of the primary irritation; yet it is only reasonable to suppose that other treatment will best succeed if local irritation be removed, as otherwise the general remedies will have not only to combat already existing disease



but also to overcome the continuous excitement-maintained by the local disturbance. If the case be seen in the very onset, the nervous communication of the wounded part with the spinal cord, should be broken by dividing the mediate nerve or nerves near the wound. Amputation of the wounded extremity has been frequently resorted to, but is not generally advocated, unless the injury has been severe, and the part has passed into a state in which whether from sloughing or otherwise, its recovery is doubtful.

If no special nerve appears to have been injured, Liston recommends a  $\wedge$  shaped incision above the part, down to the bone, so as to insulate it completely. The injured part should have poultices applied to it, having Sol. Mag. Sulph.; Chloroform; or some narcotic Ext. incorporated with them; and the limb above wrapped with lint soaked



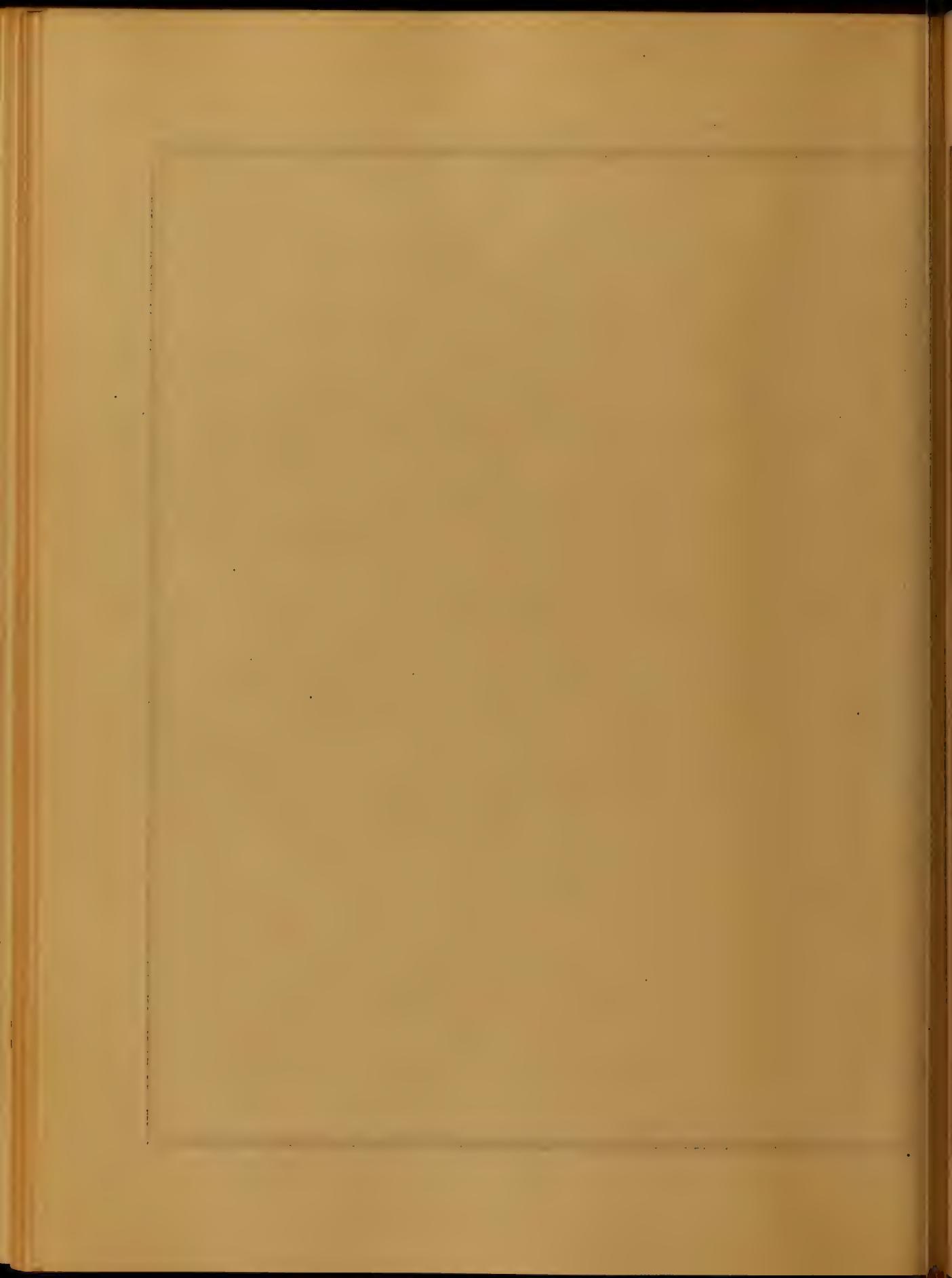
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in laudanum or chloroform.

The constitutional treatment - is directed to the arrest of spasm, and to the support of the patient's strength. To attain the first object, the application of ice to the spine, is to our mind, the most-efficient remedy. The hyperemic condition of the cord evidently calls for this procedure. One of the first-phenomena produced by the action of cold, is (according to M. Pouchet, of Lyons, who communicated a long series of experiments upon the Congelation of animals, to the French Academy of Sciences) the constriction of the capillary vessels. If sufficiently long continued, so great is the contraction, that no globule of blood can gain admission, so that these vessels remain entirely empty, whence the paroxysms of frozen parts. The use of ice in this disease is recommended by Dr. Todd, as well as Mr. Erichsen, who direct that an ox's



gut or gullet be filled with ice and applied to the whole length of the spine. Being in their estimation a powerful depressing agent, they caution against the longer use of it than six, eight or ten hours, the condition of the patient being looked to in the meanwhile. Dr B. D. Carpenter, of Cutchogue, Suffolk Co., Long Island, reports two cases of severe traumatic tetanus, which recovered under the use of ice applied to the head, and along the whole length of the spine. The application was repeated at intervals varying from 2 to 8 hours, and continued from ten to thirty minutes each time. The results derived from the application of ice in these cases, must be admitted to confirm the view we have expressed upon the condition of the spinal system in tetanus, as by such measure, the quantity of blood circulating in the cord, is evidently reduced, and depression of



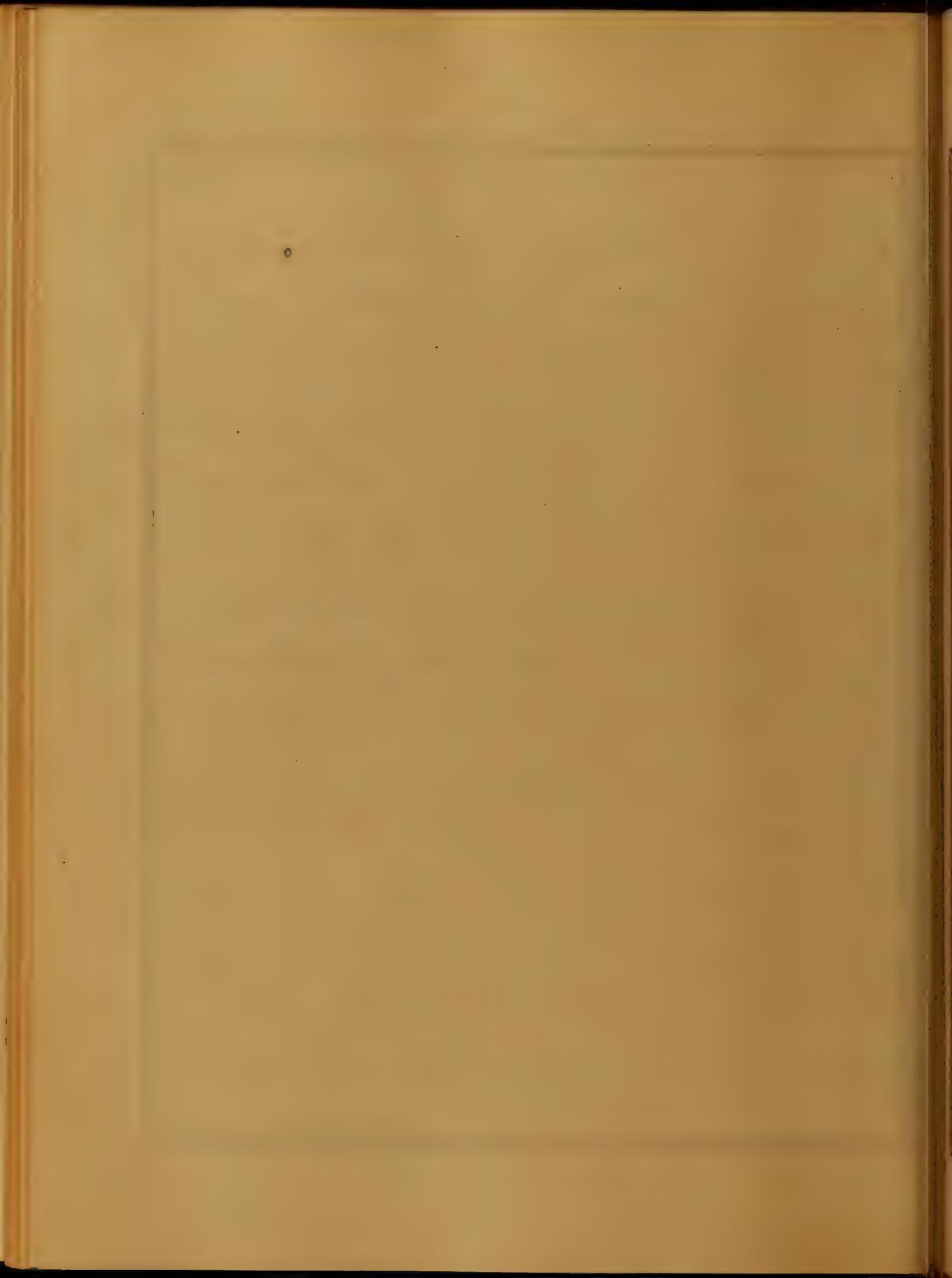
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function ensues to the relief of the spasms. The bowels should at once be attended to by the practitioner, and active doses of Calomel with Jalap or Sennas, Senna and Sulphate of Magnesia; or other brisk cathartics be given.

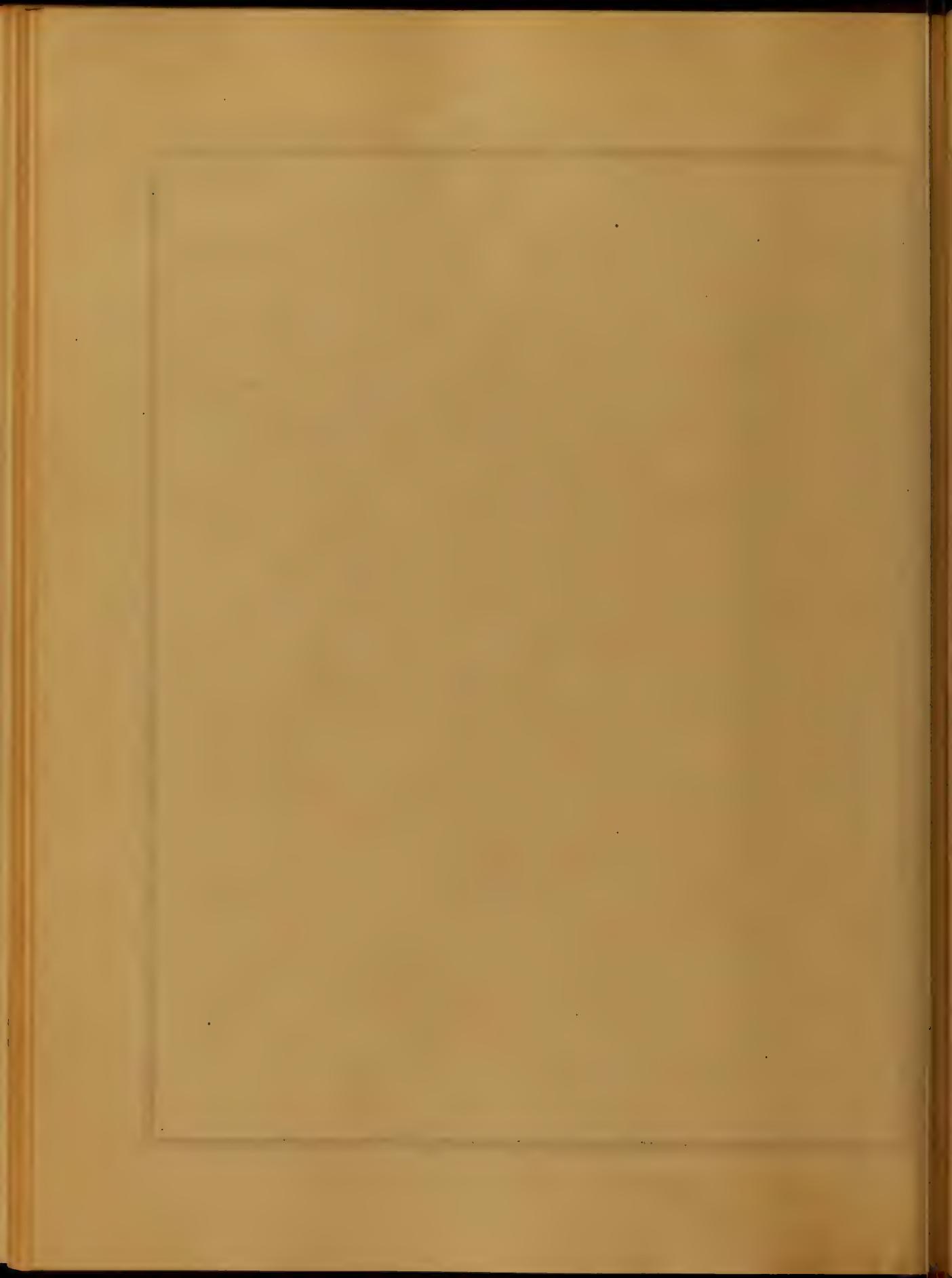
If deglutition is difficult, a drop of Croton oil placed on the posterior part of the tongue, will fulfil the indication. To diminish the susceptibility of the nervous centres, recourse may be had to the narcotics or cerebral stimulants.

Of these, Opium or some of its active principles, come first. Cannabis Indica, Belladonna, Stramonium, Woorara, Hemlock, or Aconite may sometimes be employed with considerable advantage.

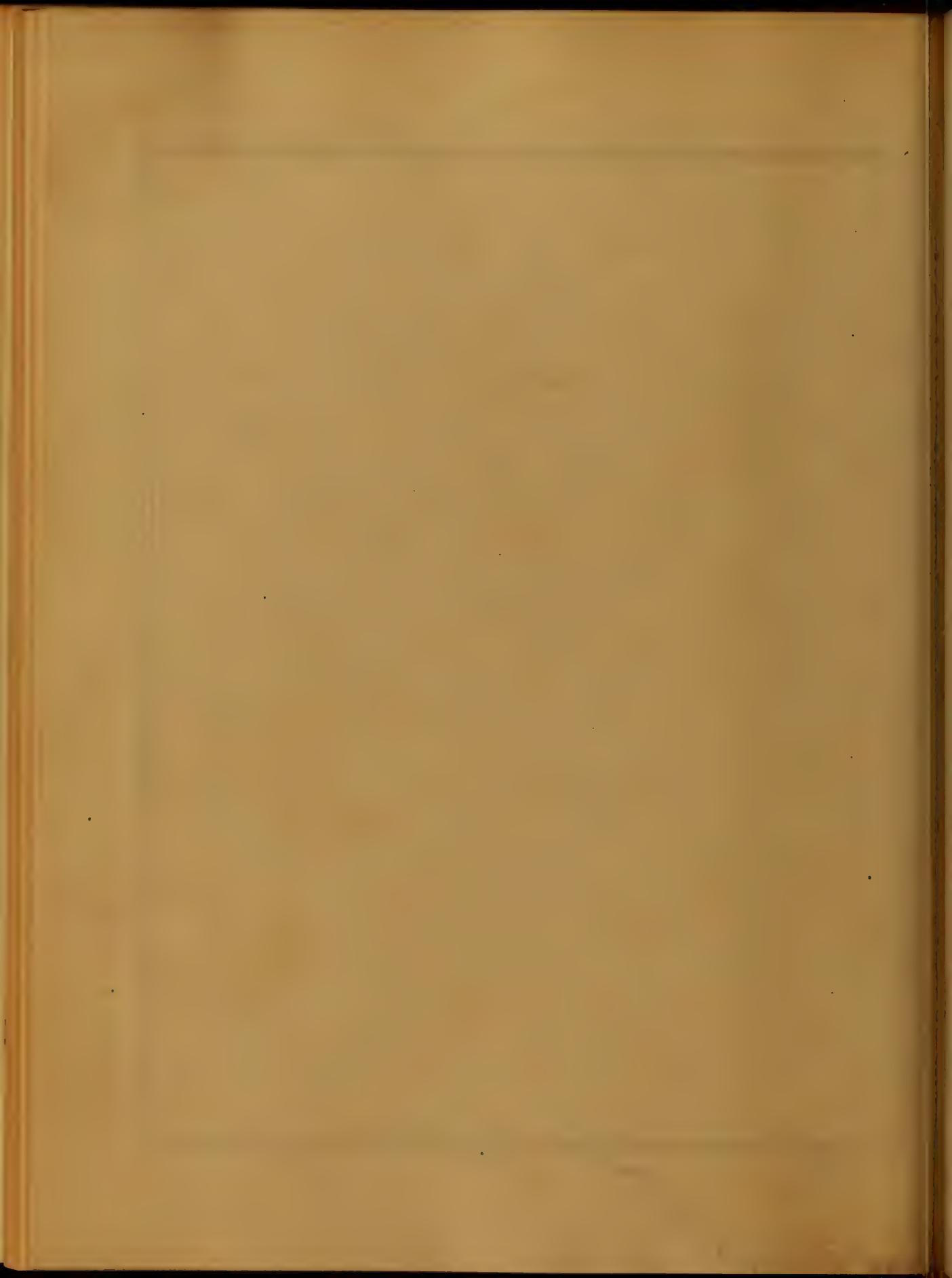
To support the strength is an important indication. The disease being one of exhaustion from the intense suffering and violent muscular contraction, the system speed-



ily fails, if not plenteously supplied with nourishment and tonics. Wine, beef-tea, milk, animal broths, eggs, and similar articles of concentrated fluid nutriment should be given if possible by the mouth. Should the jaws be found too firmly fixed, nutritious enemata may be available. Experience has shown Sulphate of Quinia to be apparently efficacious, when exhibited not merely as a tonic, but with a view to its peculiar influence on the system in heroic doses. Oil of Turpentine in the dose of a fluid-dram every 2 hours, until it evinces some effect or the patient recovers, has had no little reputation in the treatment of tetanus. Dr. Elliotson has spoken highly of the preparations of iron in this disease, and especially the Sub-Carbonates. The latter has been given in enormous doses. In one instance it was given to the



extent of half an ounce every 2 or 3 hours, and even of a pound daily. In the more acute cases all remedies seem to fail, the patient being speedily destroyed by the disease.



An  
Inaugral Dissertation  
on

Gun-Shot Wounds

submitted to the examination  
of the  
Provost, Regents & Faculty of Physic,  
for the  
Degree of Doctor of Medicine  
by  
Edward H. Dunn.  
of Md.

Session of 1868-69.

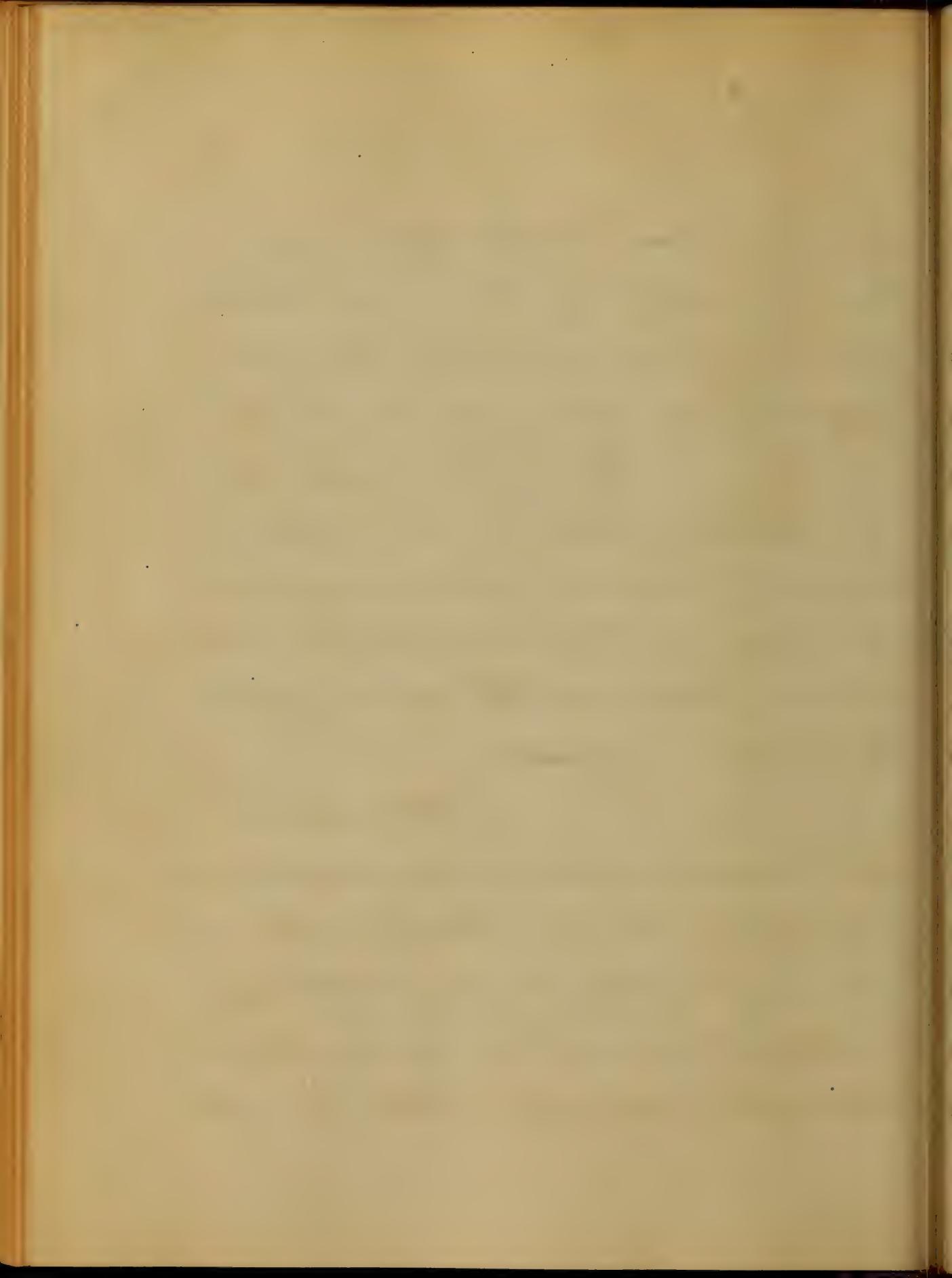
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## Gun Shot Wounds "

In accordance with the requirements of your honorable body I hereby respectfully present a brief dissertation upon the subject indicated by the above heading

Gun shot wounds include all accidents and injuries occurring from an explosion of gunpowder, and are of course, as various as the missiles propelled by the explosive force and the regions wherein the injury is inflicted.

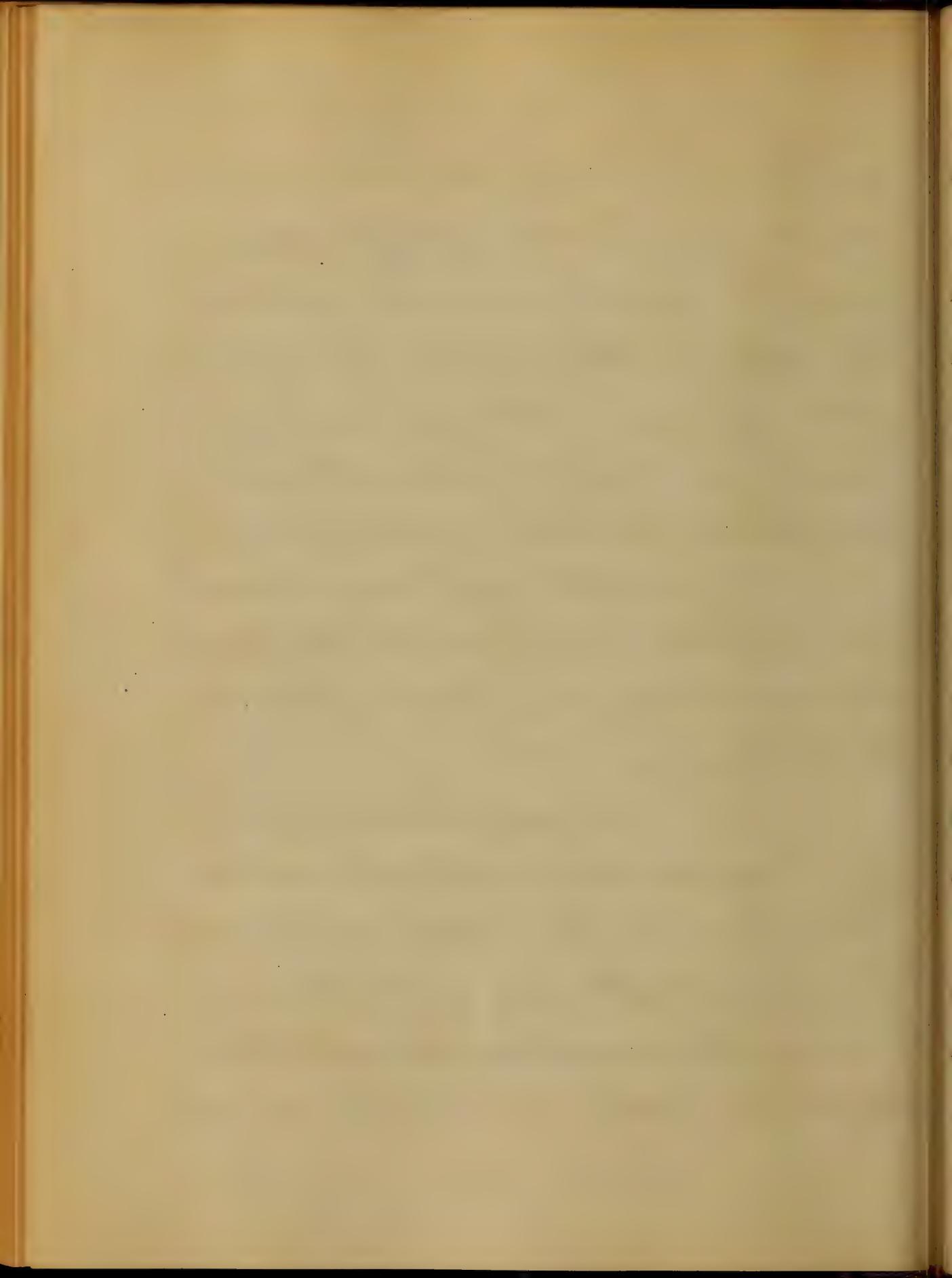
In this article I shall endeavor to confine my subject mainly to injuries sustained in actual warfare and shall aim to follow the rule of "military surgery" in contradistinction to that of "civil practice"; the treatments being to some extent different.



and the prognosis very far different in the two situations; a limb instantly condemned on the field, would be saved in civil practice where the patient could be surrounded by all the comforts and attention of home life, and ready access to all the modern appliances and apparatus for treatment of such injuries.

No portion of the body is exempt from gun shot wounds; hand and soft tissues, bone and muscle, viscera and nerve are all liable to injury.

A comparatively trifling injury may result in death, while an extensive, and horrible looking, wound may pass favorably through all the stages to recovery; the smallest missile may inflict terrible and lasting injury, while a cannon ball

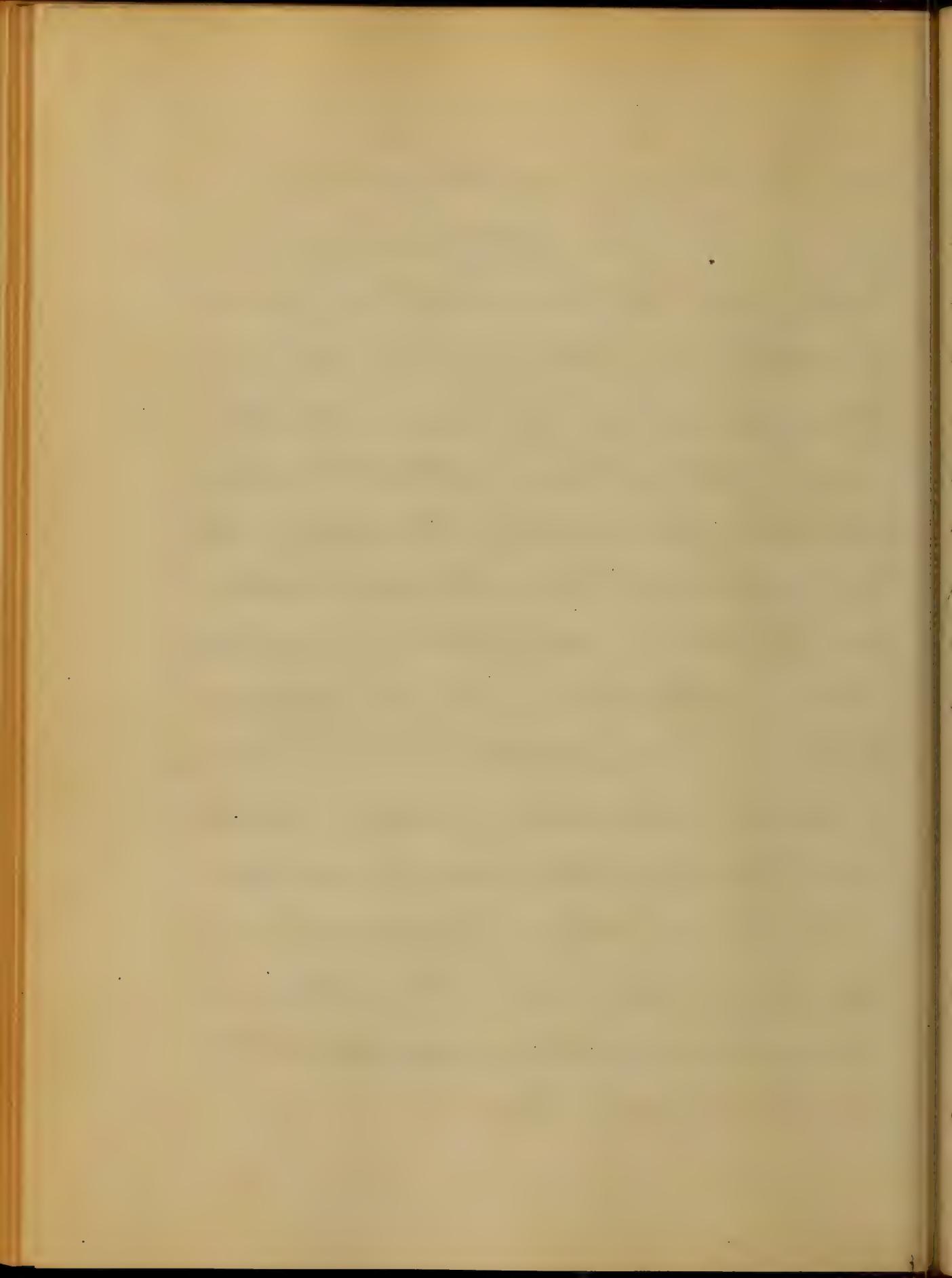


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may cause only a slight contusion

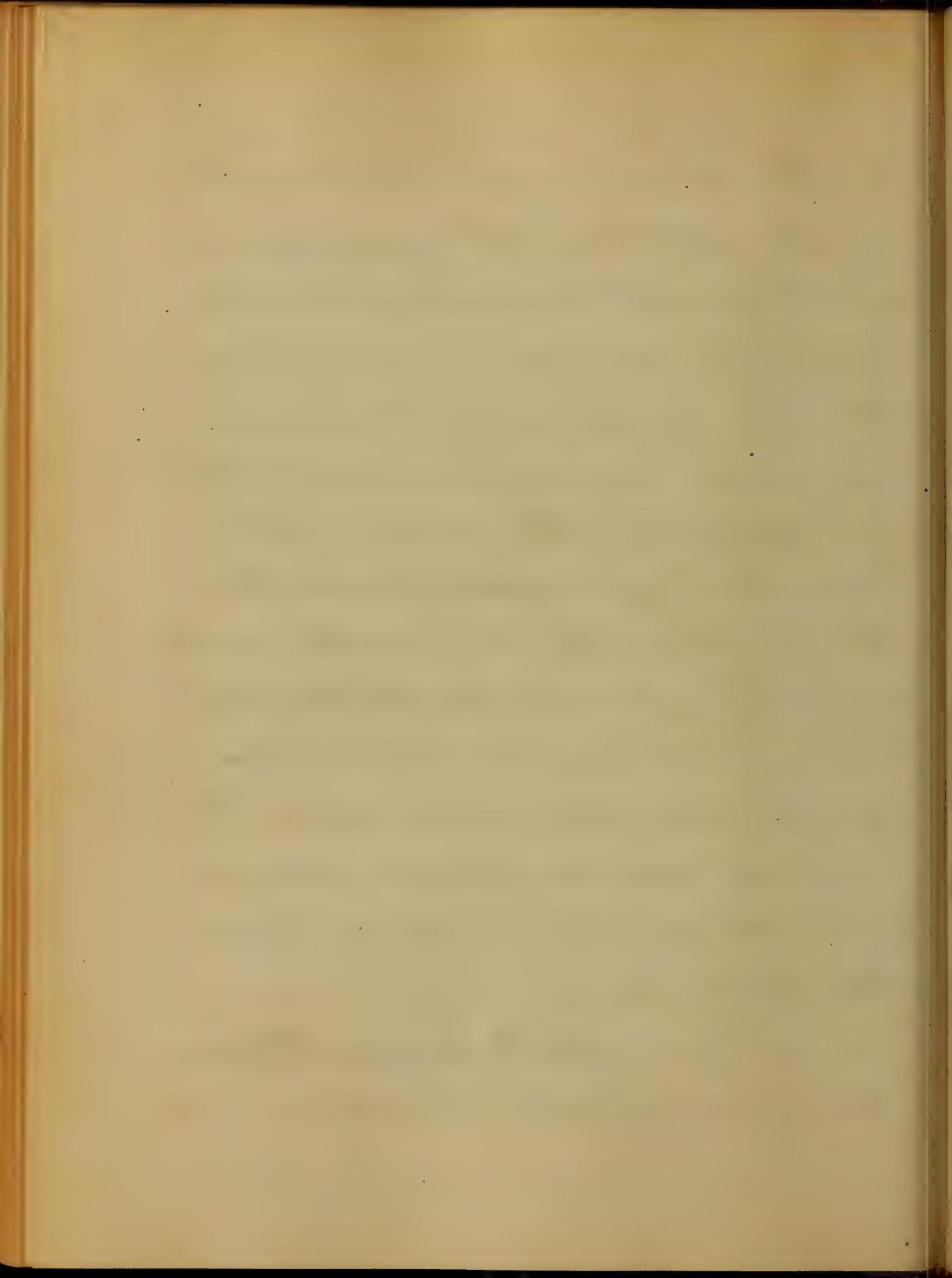
Gren shot wounds come  
strictly under the head of contused and  
lacerated wounds, they are nearly always at-  
tended by sloughing and profuse suppuration  
owing to the extensive destruction of tissue  
immediately surrounding the track of the  
ball: in former times this profuse suppuration  
was thought to be due to the poisonous character  
of the wound, this theory is however exploded,  
the tissues are lacerated, torn and bruised, and  
the sloughing is the result of nature's effort  
to rid herself of these, now, foreign bodies.

These wounds are, as a  
rule, dry wounds, except where a large vessel  
is torn across or the lungs perforated, when  
we have haemorrhage



The dryness is due to the lacerated condition of the tissues, the mechanical injury, and the heat of the ball; it is very well known that torn and lacerated vessels bleed less than when cleanly incised; the heat of the ball is due, in my opinion, in part to the heat engendered by the ignition of the gunpowder, by its rapid passage through the air, but mostly to its sudden arrest upon coming in contact with the parts injured; wounds from spent balls slough less, to a marked degree, than wounds received at short range where the missile is rapidly propelled through the air.

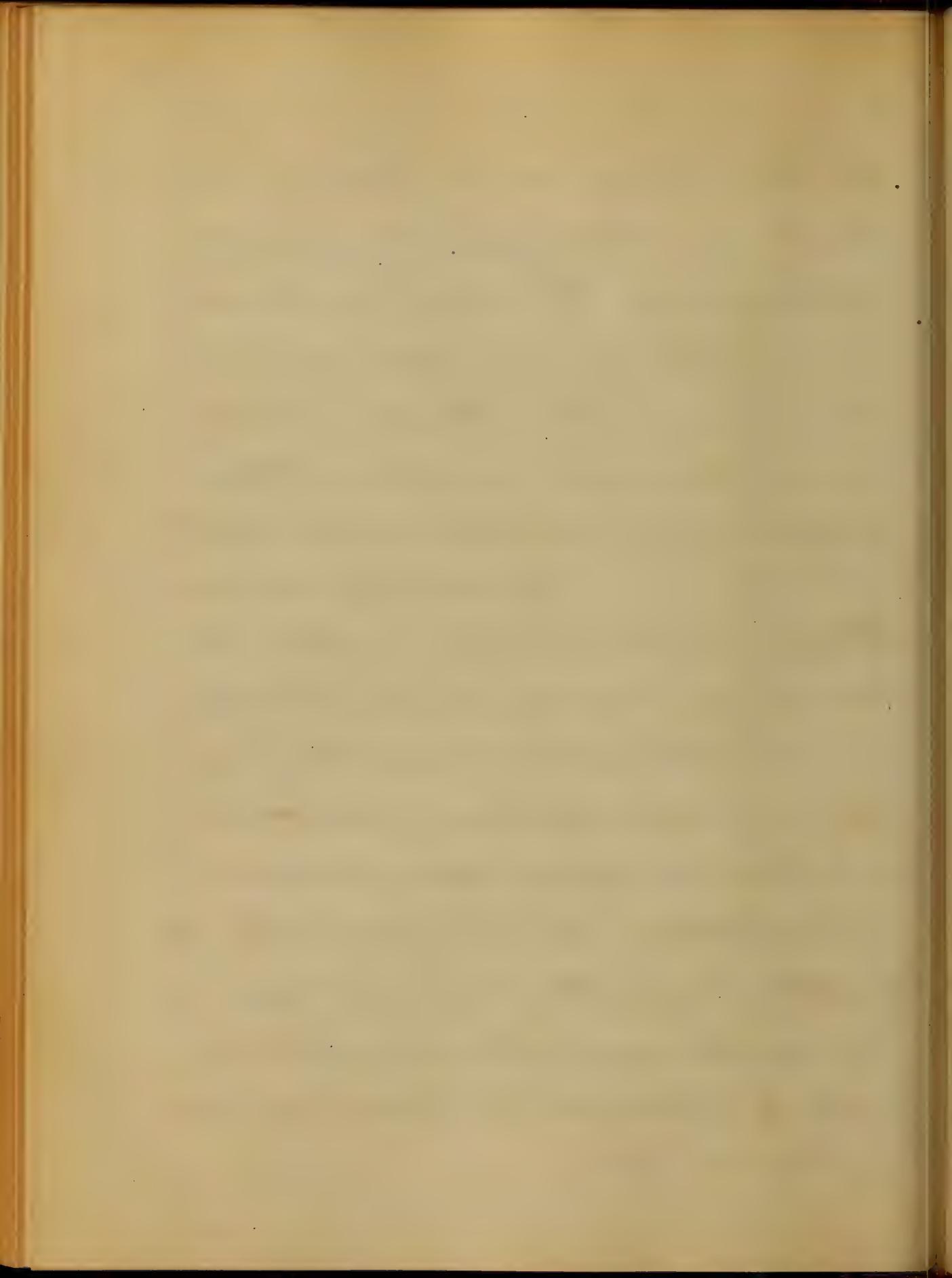
At short range the modern ball makes the opening of entrance and



that of exit nearly opposite, ploughing through all opposing substances in its course, but at long range this rarely if ever the case.

The course of the modern conical ball is very erratic, a tendon or bone or even a vessel will change the direction of a ball, if it be near spent.

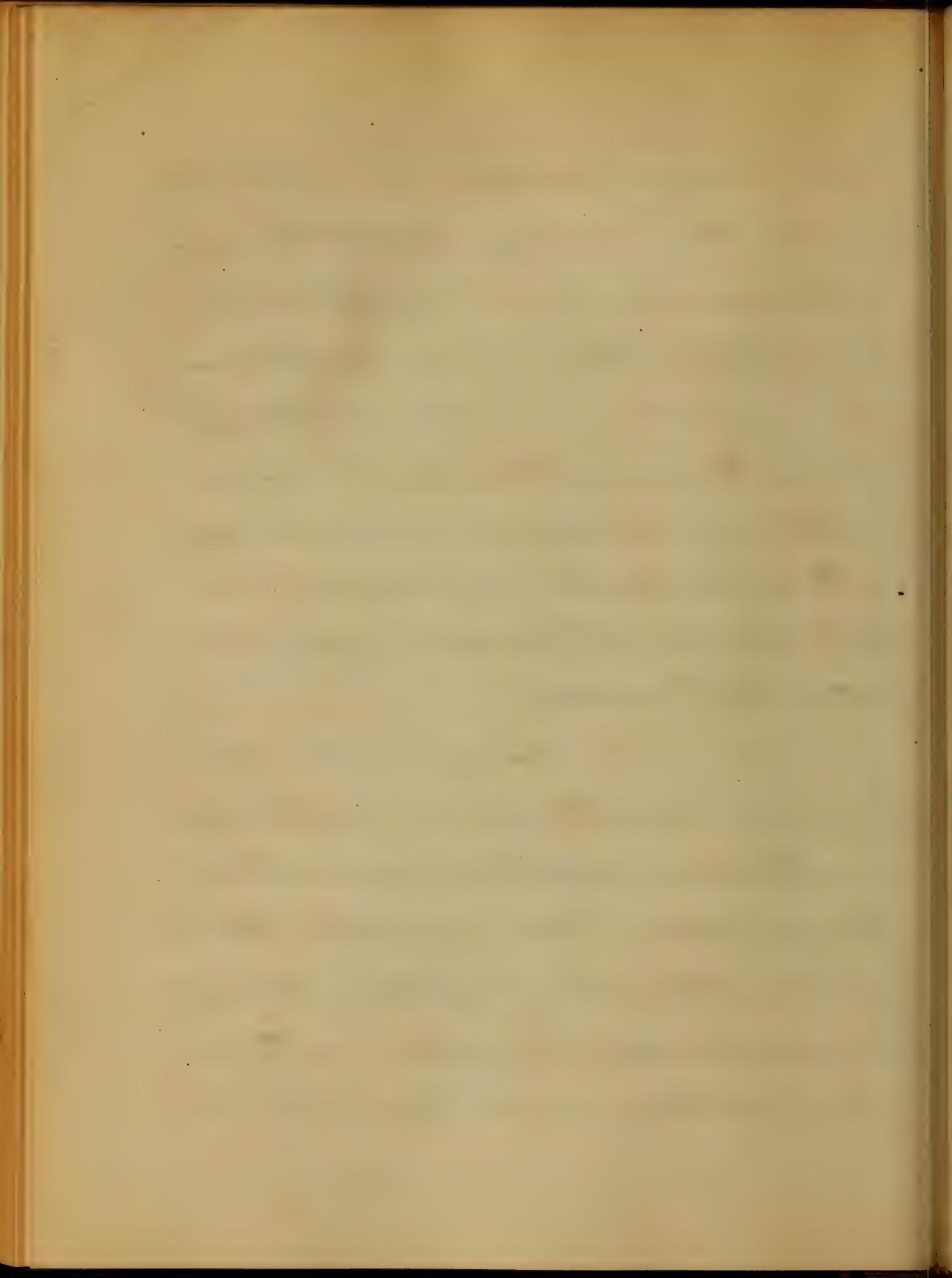
A ball in its course through a limb, on coming in contact with the edge of a bone, may divide into one or more portions, and each portion may cause a separate orifice of exit; again, balls have been tracked between vessels in intimate relation without injuring either, apparently not doing them harm, but secondary inflammation may in these cases cause occlusion of the vessels or sloughing that will result in haemorrhage.



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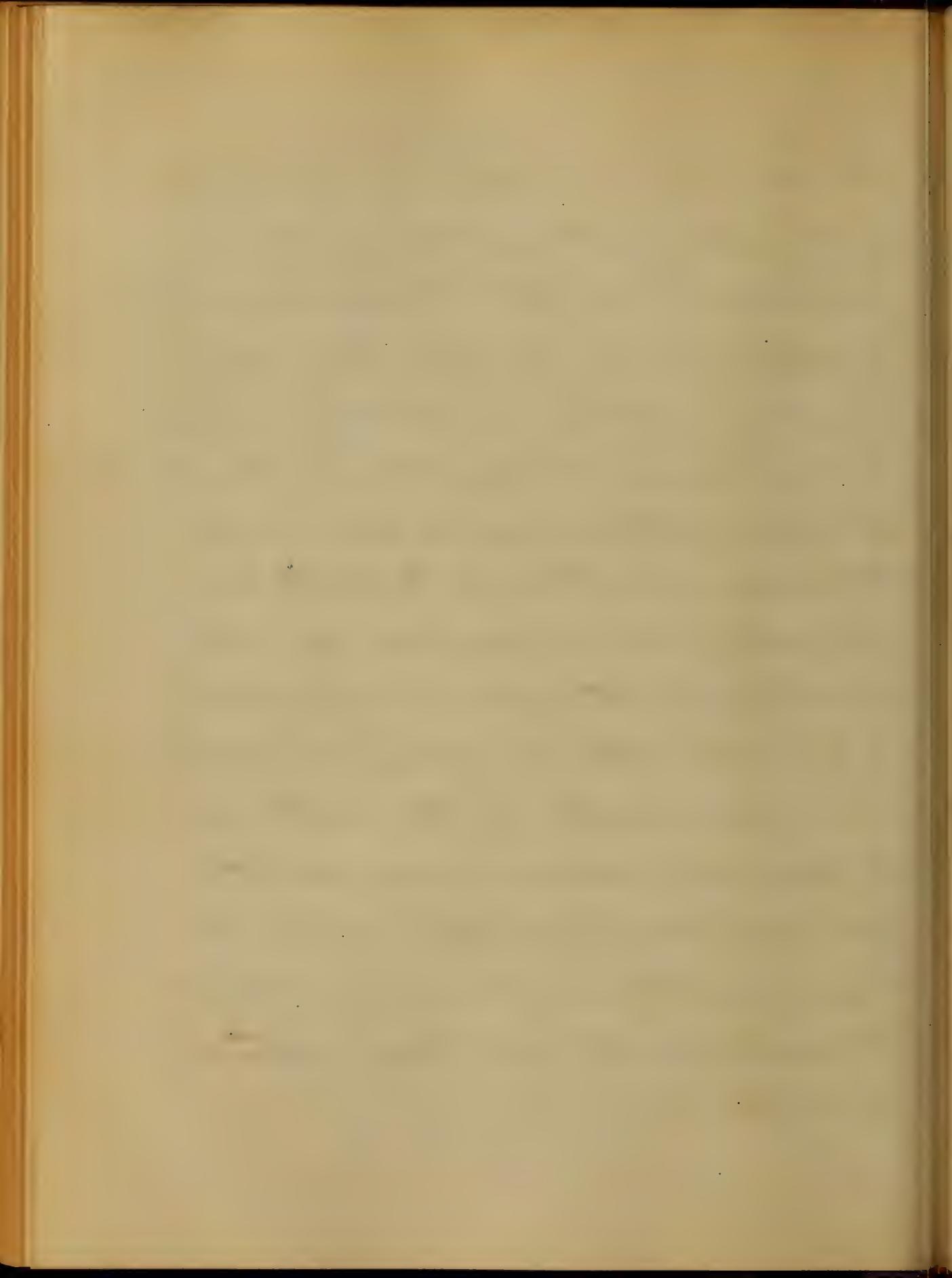
It is always important in gun shot wounds to study them carefully, to note the course of the ball, to ascertain if possible the position the person was in when shot, and the immediate result the reception of the injury had upon his nervous system, as upon a correct knowledge of these few facts will depend, in a great measure, the prognosis, and to some extent the treatment.

As a general rule the orifice of entrance and of exit can be determined at the first examination, that of entrance will be inverted, that of exit everted, that of entrance will be of a smaller diameter, the orifice of entrance will be stamped or punched out, while



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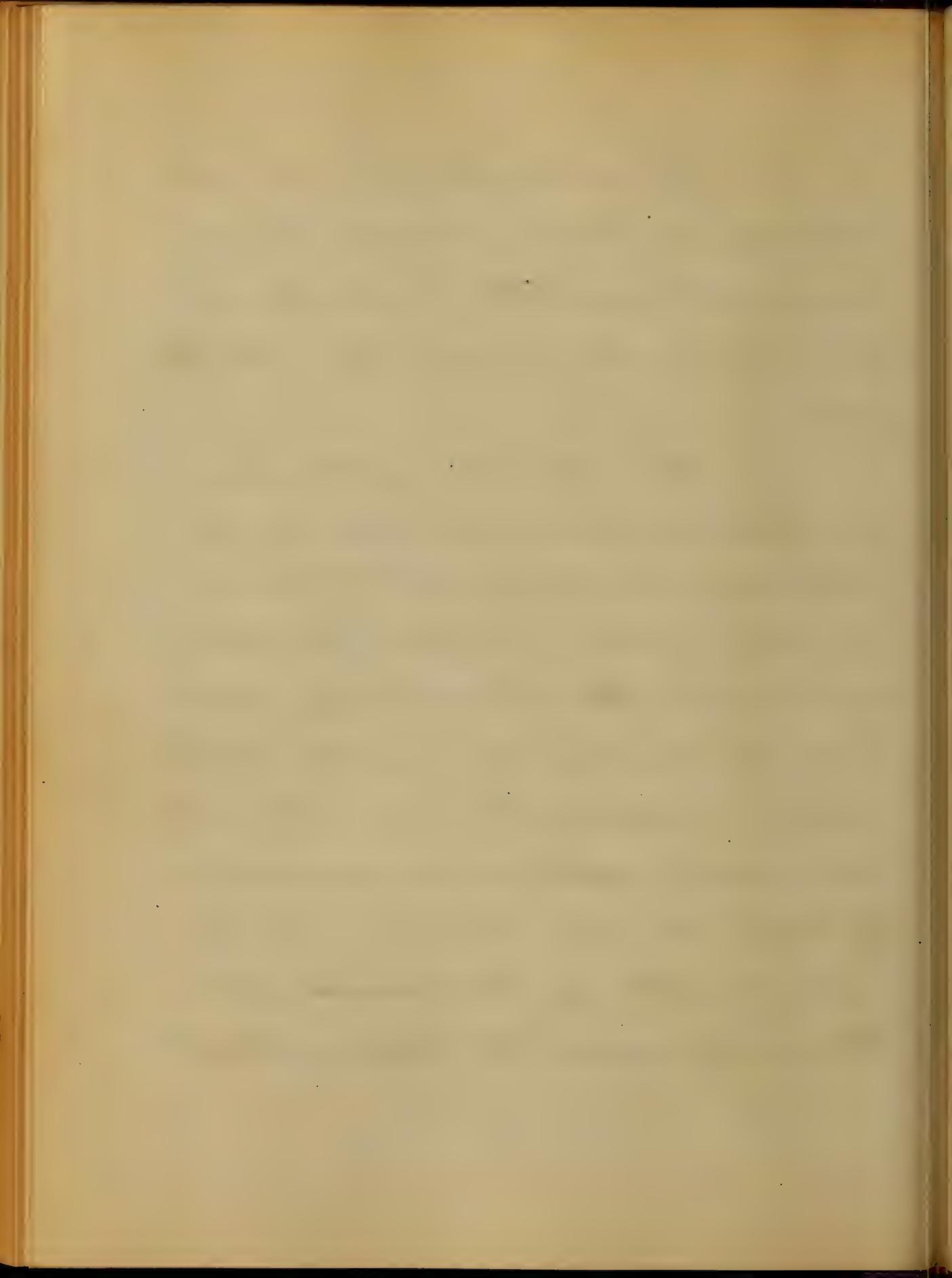
The edges of the wound at orifice of exit will be torn and evected; entrance will be continued, exit lacerated. There are frequent exceptions however to the foregoing, the ball may divide after having entered and only half, or less, of it pass out, a portion of the mans clothing may be driven into the wound with the ball, the cloth may slip aside and no ball pass out, in which case the exit will be of smaller diameter than that of entrance, a rule laid down by some authors is, that on introducing the finger into a wound, soon after it has been received, the direction of the torn fragments, splinters of bone, etc, will indicate the direction of the ball from entrance to exit.



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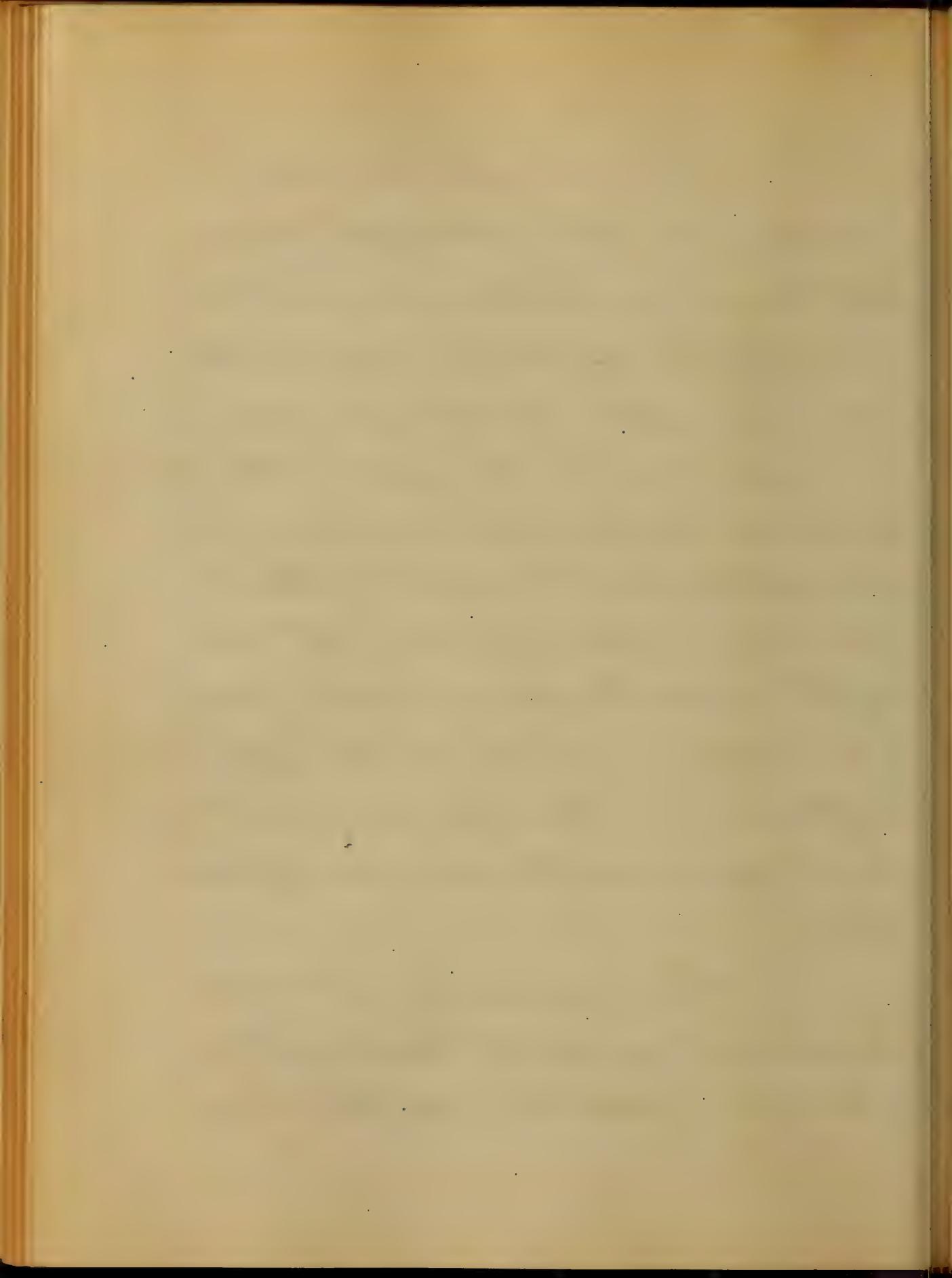
After suppuration has commenced  
the points of entrance and exit can be  
easily determined, that of entrance will  
always slough to a greater extent than that  
of exit.

From the nature of the injury  
gun shot wounds necessarily slough  
in the process of healing; if the wound is  
caused by a ball at short range, sloughing  
will be greater than when caused by a spent  
ball; the sloughing will be greatest at the  
surface of entrance, it will continue until  
all irritating substance are removed from  
the track of the ball, sloughing will begin  
about the sixth day, the sloughs will be  
thrown off about the tenth or twelfth



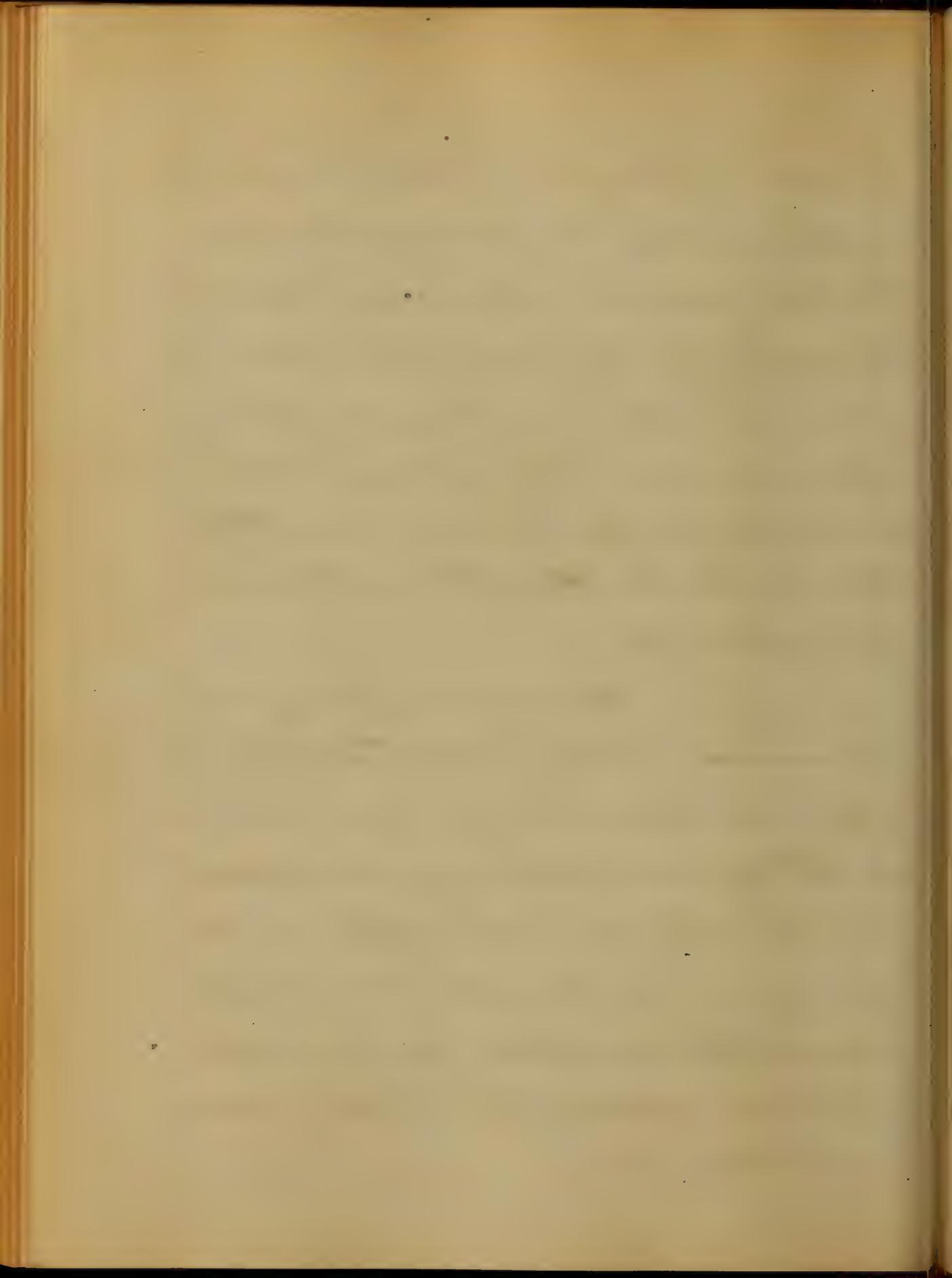
"In wounds of muscular parts - inflammation usually occurs from twelve to twenty-four hours after the injury; "a reddish serous fluid is discharged and the limb becomes stiff and nearly incapable of motion, from its causing an increase of pain; the inside of the wound as the process of separation proceeds, changes from a blackish-red color to a brownish yellow, moistened by a little fluid pus"; after sloughing the suppuration begins, which is more or less profuse according to the injury sustained, granulation form, under favorable circumstances, and the wound closes by second intention."

Where wounds are in the neighborhood of vessels, the sloughing will extend and involve them, cloths that have

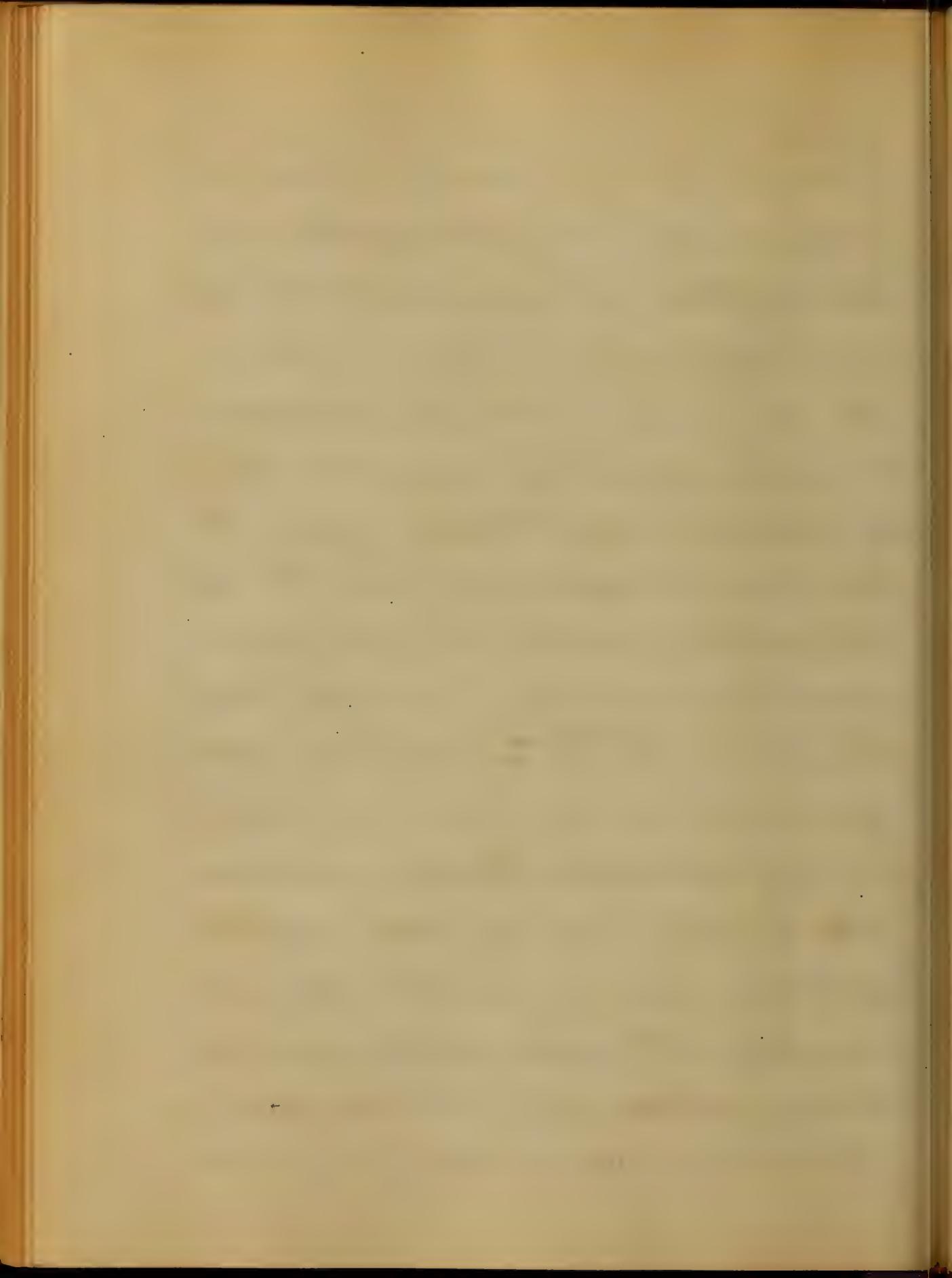


formed in the mouth of bleeding vessels may slough out, giving rise to secondary haemorrhage. This latter accident most usually happens to the distal surface or mouth of the divided vessel its nervous supply being cut off its "tonicity" is lowered and it does not possess the power to retain the clot that has formed, with that tenacity that the other portion of the vessel is endowed with.

Haemorrhage from gun-shot wounds is fatal in about twenty per cent of the cases; primary haemorrhage is comparatively rare, secondary more frequent; in action where large and important vessels are wounded, as the aorta, the root of the lungs etc, the man falls and dies before assistance reaches him, death is almost instantaneous.



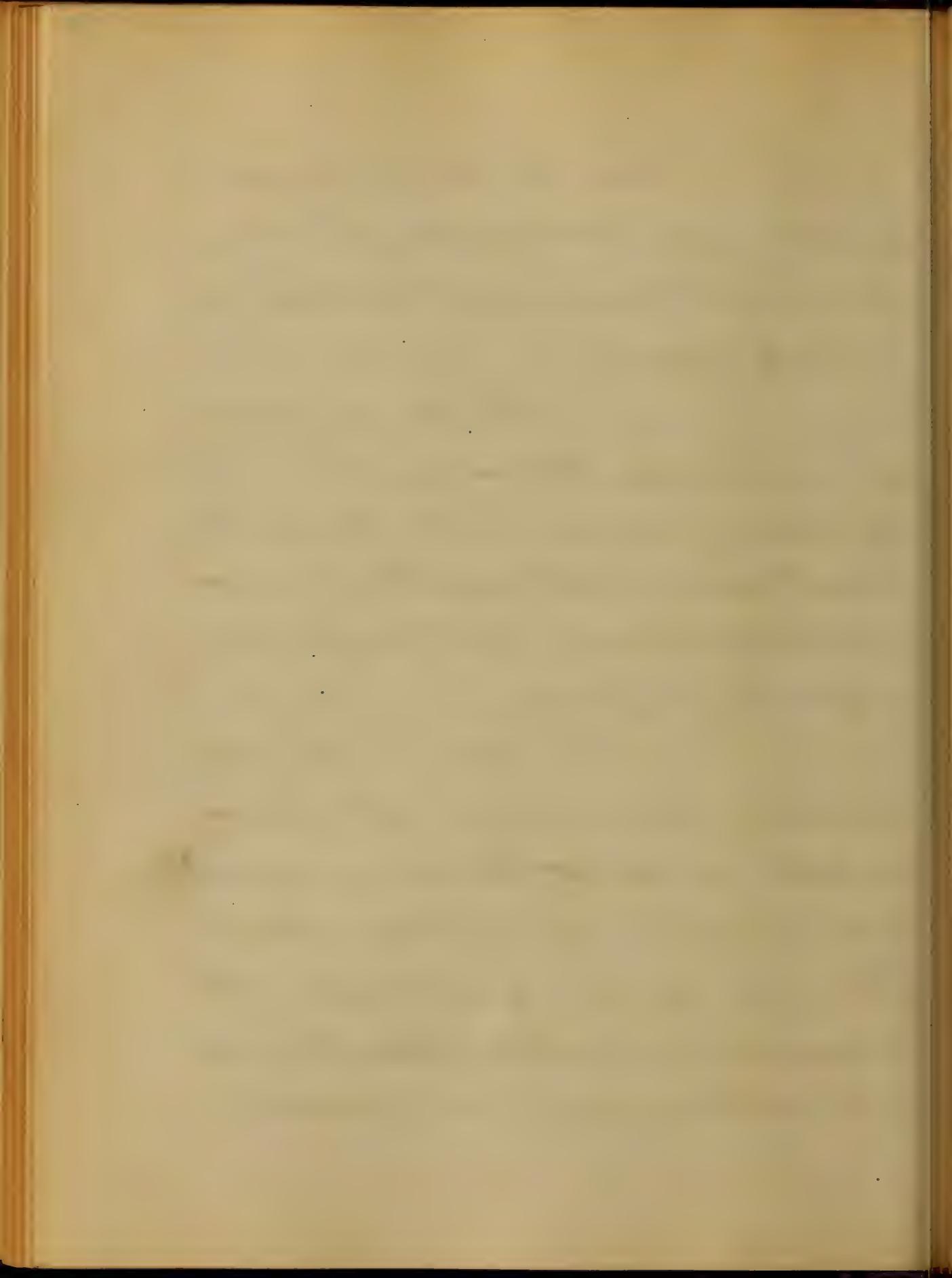
if smaller vessels or branches are wounded  
the bleeding ceases sometimes spontaneously  
after faintness has been induced, the heart-  
action becomes feeble, blood is propelled  
with less force, a clot is formed, first on  
the outside of the bleeding vessel, then within  
the contracted and retracted coats of the  
essel; in a majority of cases the clot  
will suffice to control the hemorrhage  
until the wound heals "secondary humor-  
shape, <sup>of any importance</sup> from small vessels does not  
often occur"; when limbs are shot or  
torn off, destructive bleeding will cease  
with faintness and syncope "nature's  
effort to save life", and if the surgeon can  
be reached in time, before reaction comes on  
with recurrent hemorrhage, he can probably be saved  
certainly saved from immediate death from hemorrhage.



Consecutive pain is always present in gun shot wounds, primarily, pain is not very marked and may be entirely absent.

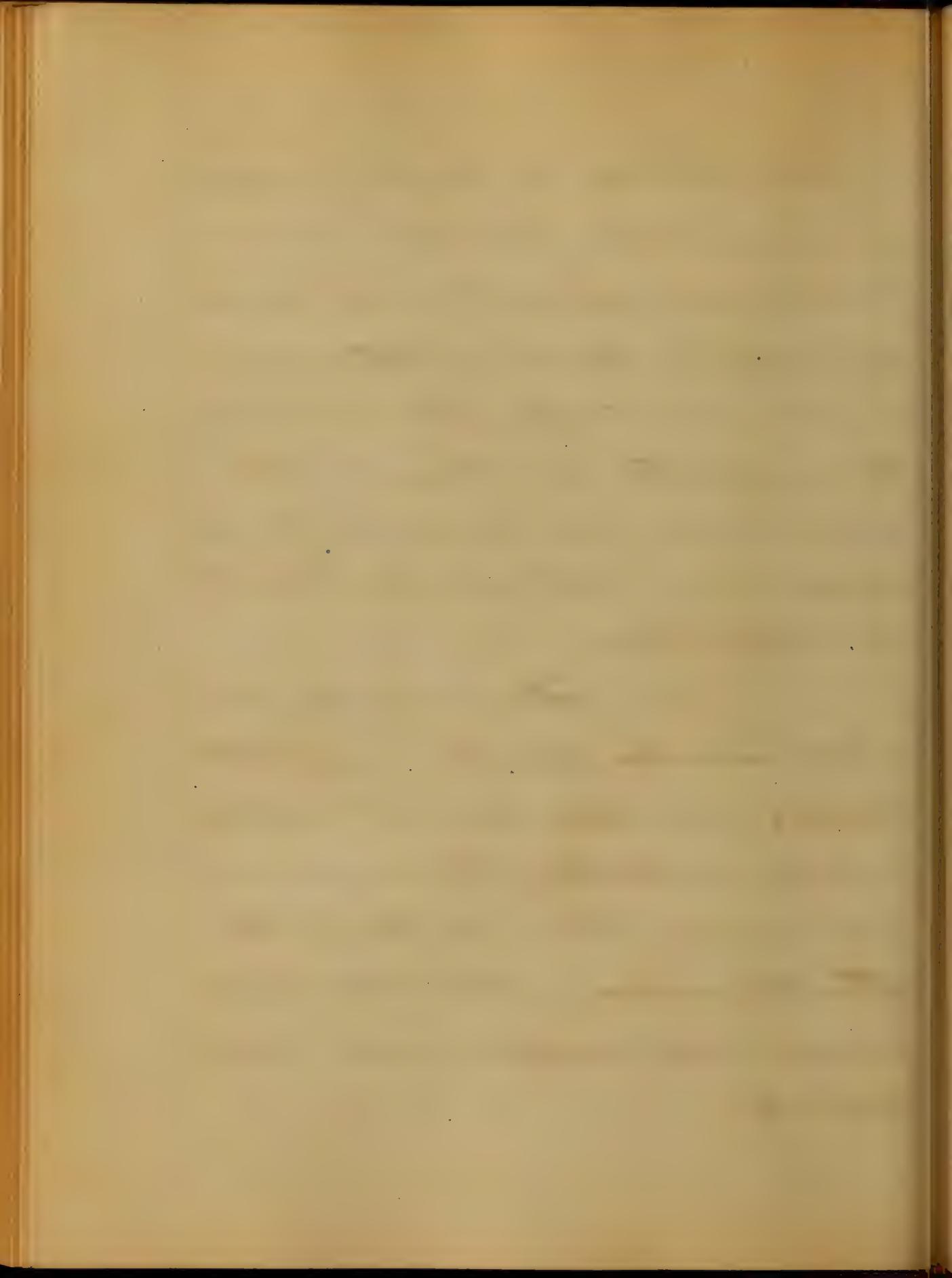
A certain constitutional alarm or shock follows every serious wound, the degree of shock is not of the greatest importance, but its persistency is, and when long continued is of the greatest import in forming prognosis.

Fever is almost always present, it is caused by the local irritation set up at the seat of injury, lasts five or six days until the suppulsive process begins, a line of acute inflammation is defined, it is here that ulceration begins in ten or twelve days the line of demarcation



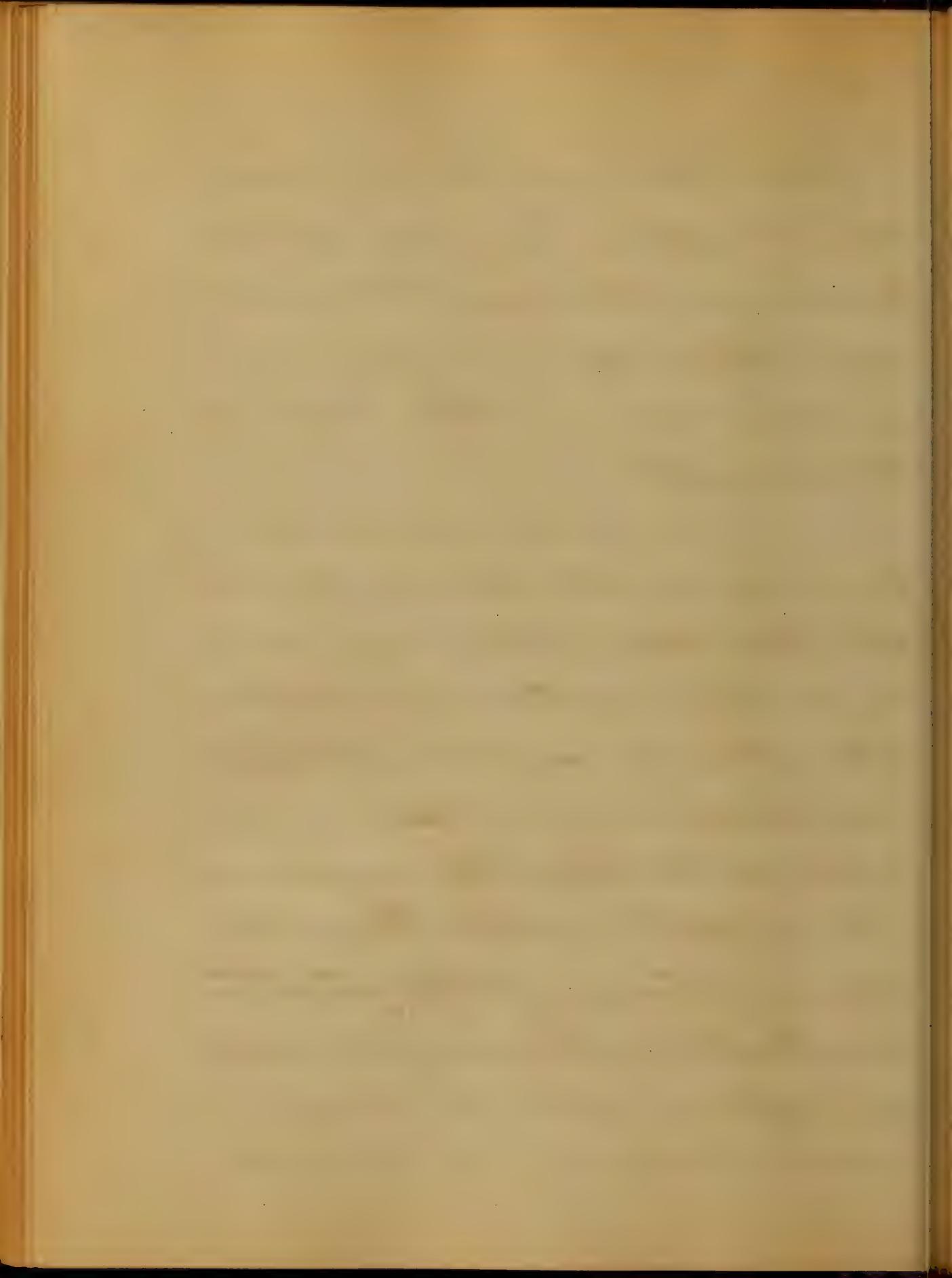
is fully established, the slough is ready to come away and suppuration commences; the discharge increases, the wound becomes less painful to the patient although more sensible when touched, the wound contracts, the middle portion of the track first closes, orifice of exit will heal first, the entrance wound will heal in from four to six or ten weeks.

The gravity of a gun shot wound depends in a great degree, as a rule, upon its locality; wounds penetrating the cavity are more serious than wounds of the extremities, unless in the latter large vessels and principal nerves are severed.



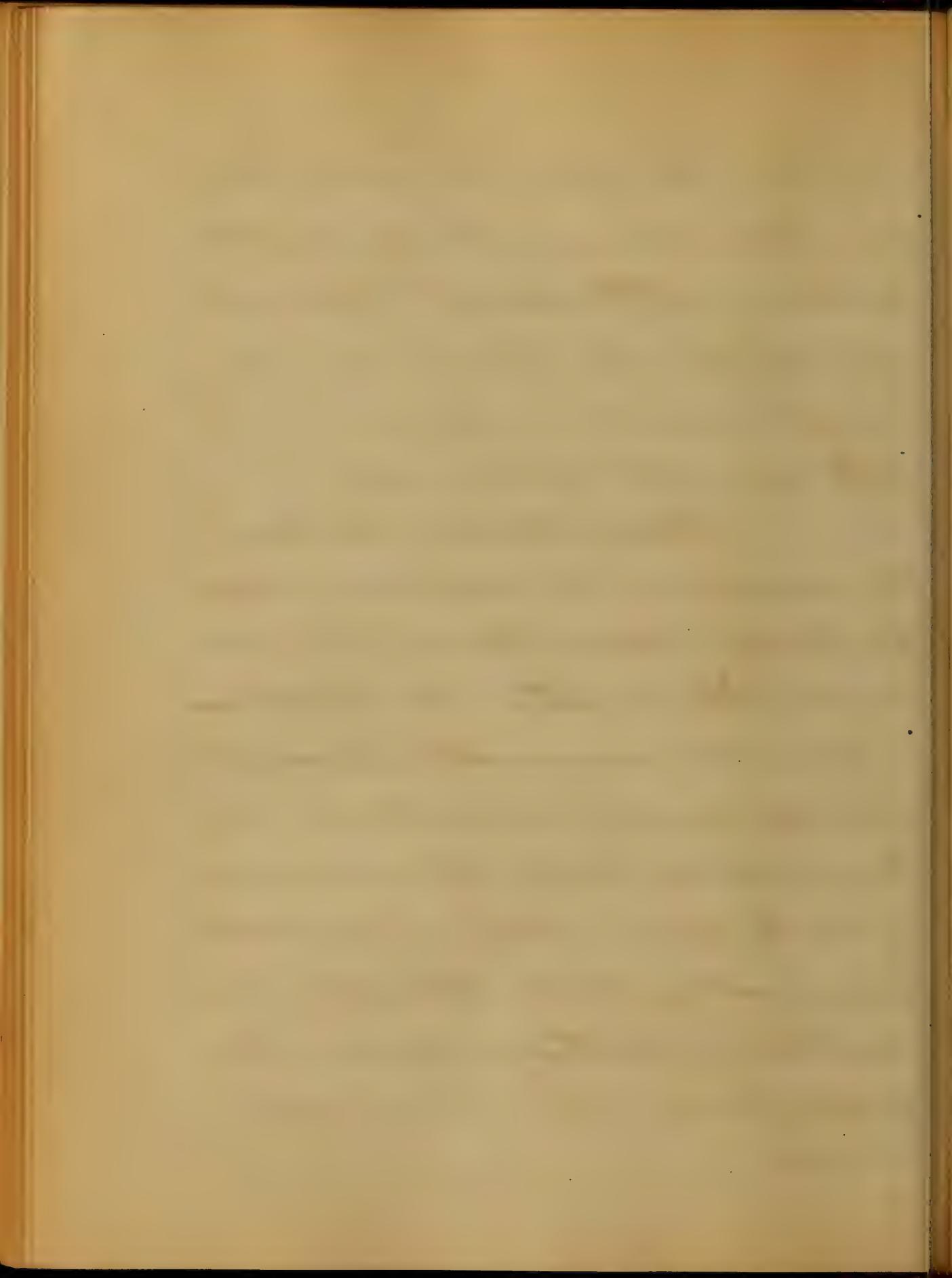
The treatment indicated is, in general terms, to suppress hemorrhage, extract foreign bodies when present, if it can be done without too much injury to surrounding parts, and attend to the general state of the system.

When called to a case of gun shot wound the first indication is to stop hemorrhage, if there be any, secure any vessel of size, that may be divided, either by traction or ligature, if it bleed; "no vessel is to be tied unless it bleed at the time the surgeon susit." The infiltration of blood through the surrounding tissues, with the contraction and retraction of the coats of the vessels will suffice to control the bleeding in most instances, if it prove otherwise.

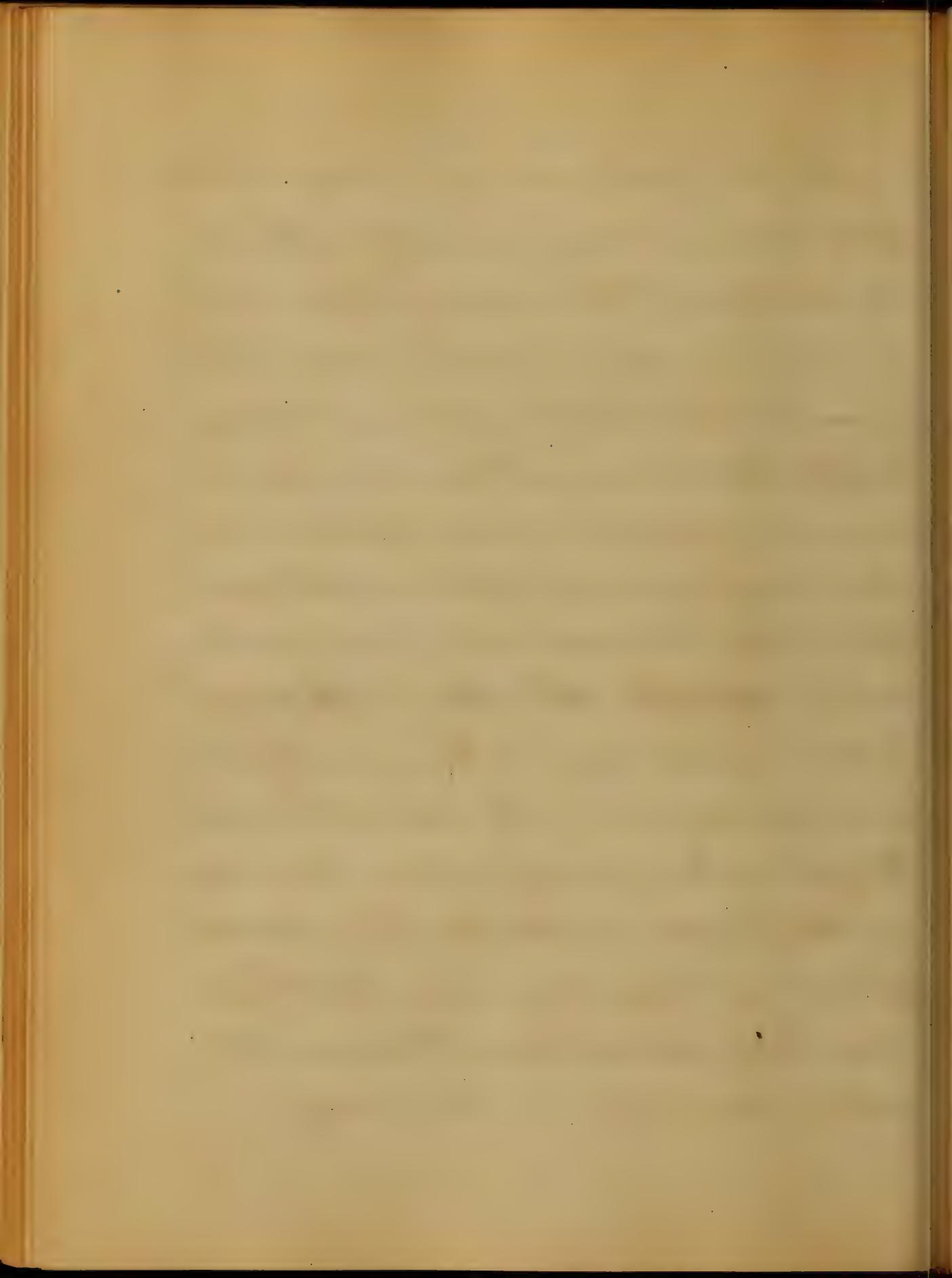


pressure in the track of the vessel, and by graduated compresses in the wound, with the addition of styptics, must be first resorted to, if this does not control it open the wound, enlarging it if necessary, and tie both ends of the bleeding vessel.

After controlling the bleeding, the wound is to be examined carefully for foreign bodies that are likely to be present, in this connection it is to be borne in mind that comminuted fragments of bone, pieces of divided tendon, bone tissue etc. are, to all intents and purposes, as much foreign bodies as are bullets, fragments of shell, splinters of wood, portions of clothing etc. etc.; all foreign bodies are to be removed if possible;

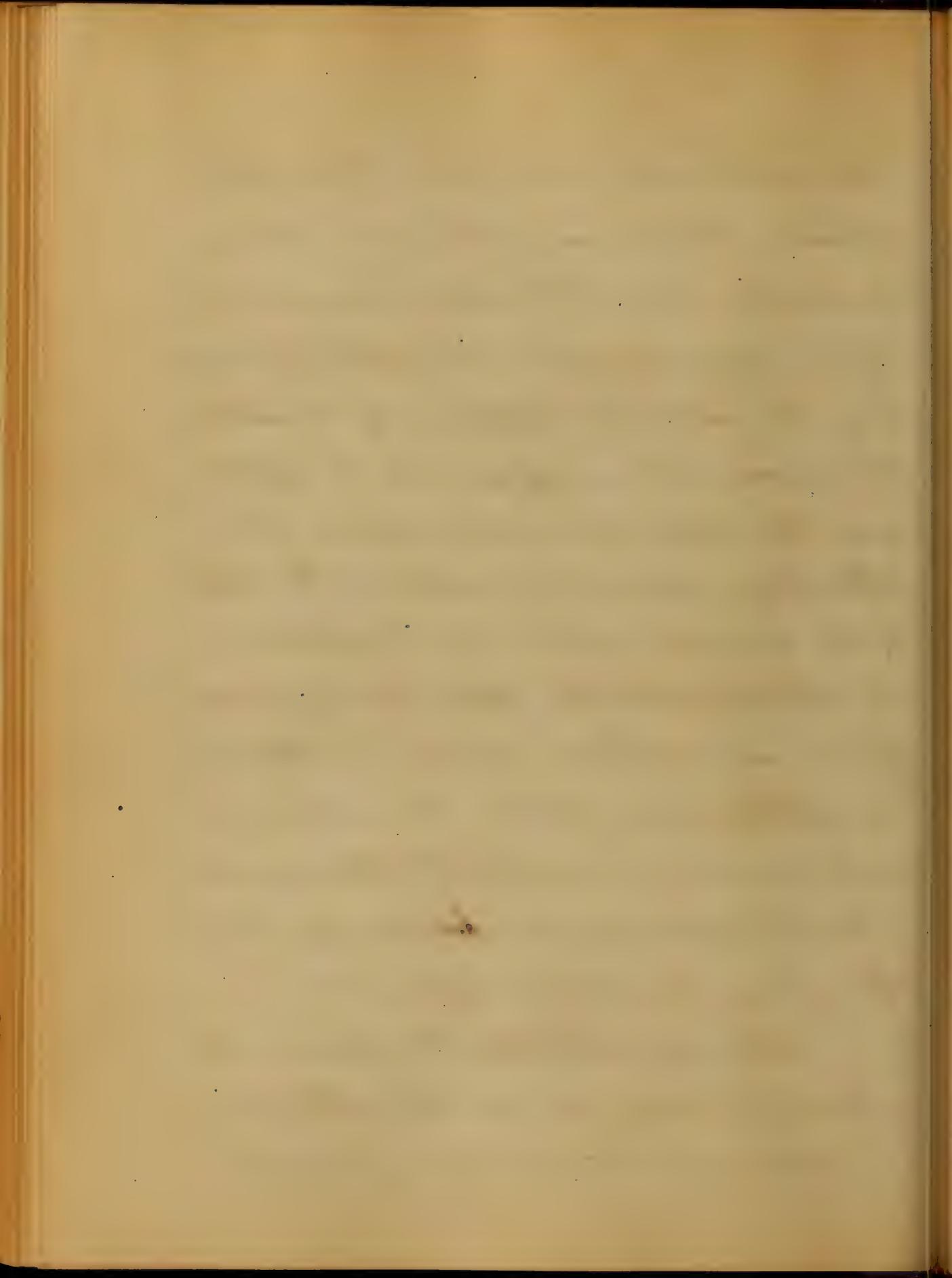


a single orifice does not always indicate that a foreign body is present, neither does the existence of two or more orifices of exit furnish us sufficient evidence that none is present; in the first instance a ball may penetrate the tissues, strike a bone and be rebounded, leaving the wound empty and clean, or, a piece of shirt, or cloth, may be carried forward into a wound without being perforated. When this is withdrawn by the wounded man or his comrade the ball may be drawn out without their noticing the fact; in the second instance, where there are two orifices, a ball may have divided against a sharp bone or a stout tendon one half driven on through the other remaining in the body.



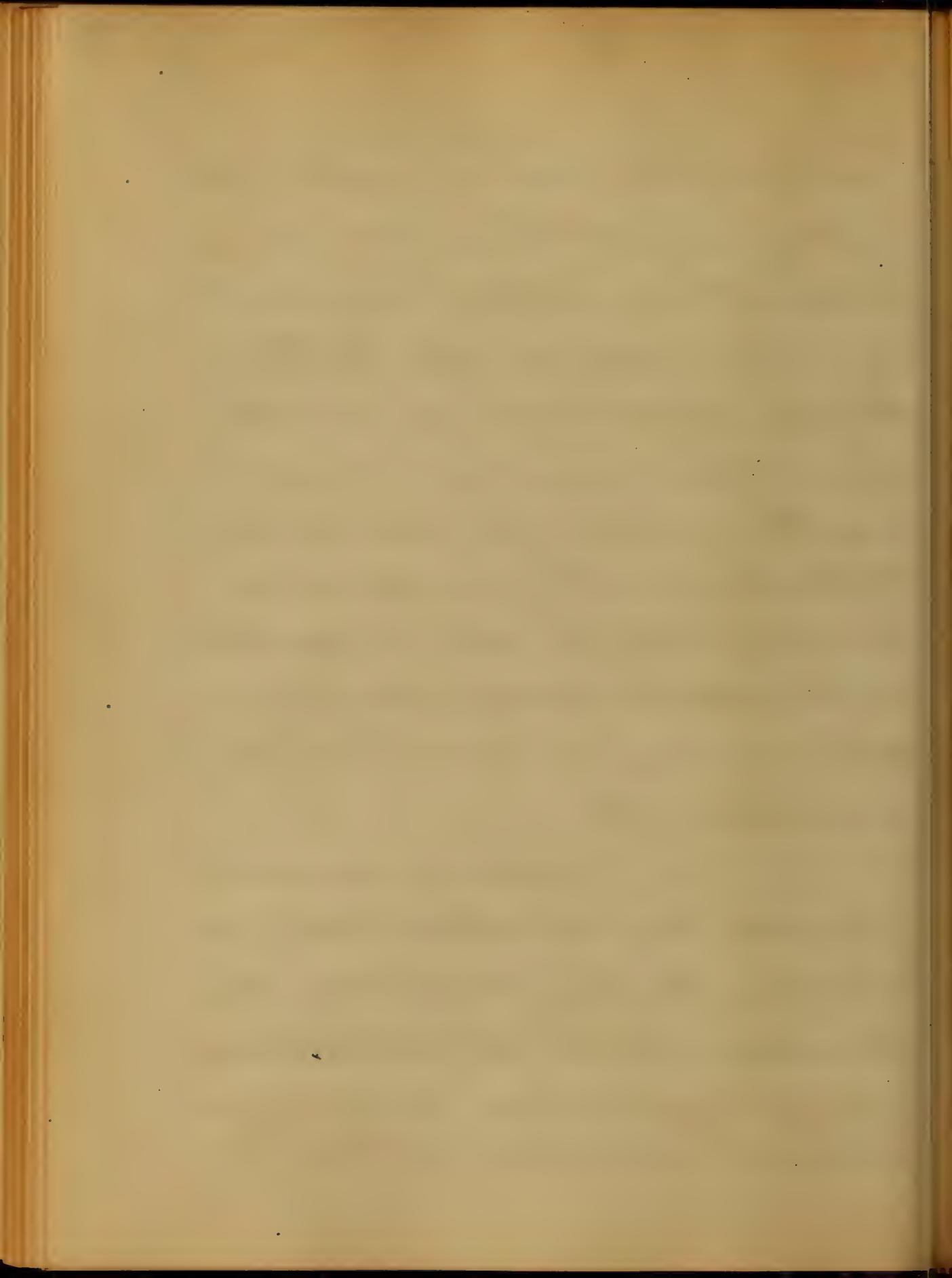
The best probe to be used in these operations is the finger, it should always be used where the orifice admits of it, in most localities the external orifice may be enlarged sufficiently to introduce the finger, where orifice admits of it use the index or middle finger, the little finger may be used if the depth of the wound admits of it exploring the whole extent; after passing one finger in its whole length another can be introduced at the other opening and passed in until the two approximate when the presence or absence of a foreign body can be determined.

Having detected the presence of a foreign body we are directed always to remove it, but we are never to

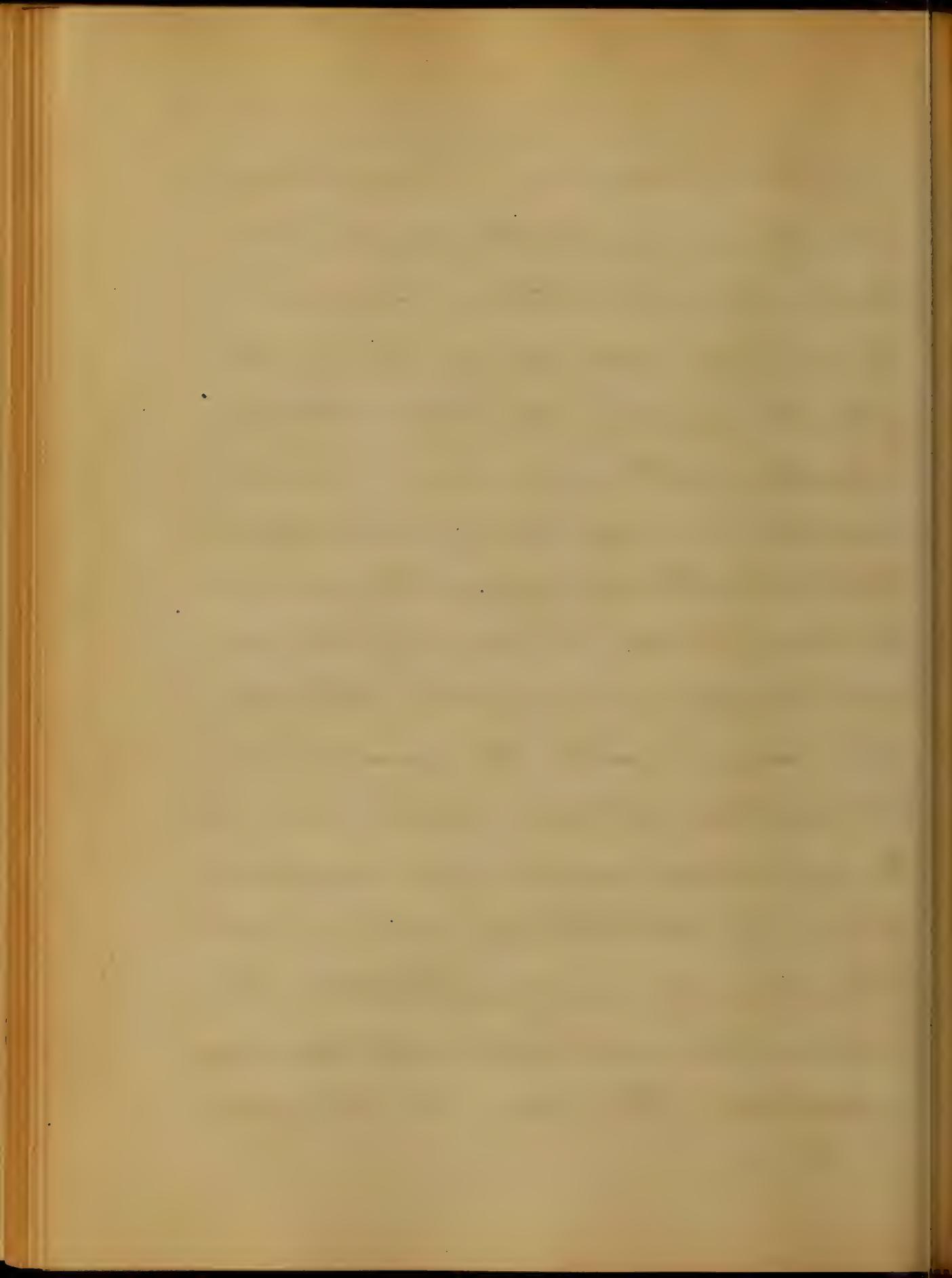


make exploratory incisions in search of ball or other foreign bodies, except in cases where continued irritation and constant drainage is kept up. No threatening the life of the patient from exhaustion, even in these cases it is seldom to be resorted to; when the spot is indicated by the threatened pointing of an abscess or marked fluctuation with pain upon pressure over the supposed locality of the ball, an incision may be made if patient is much exhausted.

Unless a large vessel is involved there need be no hesitation about introducing the finger, the displacement of the outside clot, after fifteen or twenty minutes, will not bring on hemorrhage; "not one case in a hundred where primary hemorrhage has ceased will it spontaneously again come on"

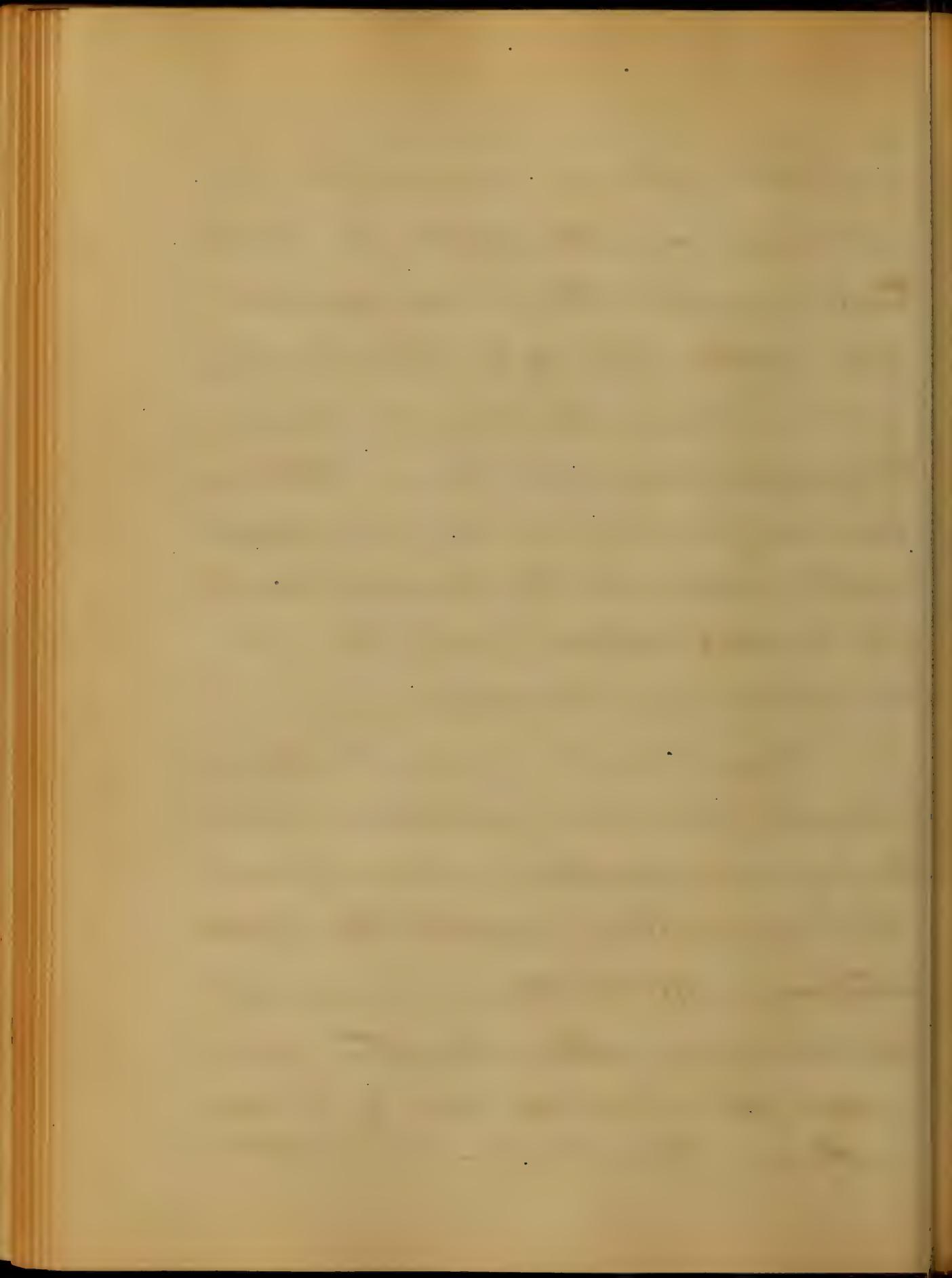


When "shock of injury" is marked, reaction must first be brought about, give the fresh air, cold water to drink, as thirst is almost always very great, often the assuring the patient that his wound is not a serious one will suffice to rally him, if the shock prove to be from extensive injury, stimulus must be given, brandy, whisky etc with or without opium or morphine internally carb ammonia internally good common to most oils etc; after reaction comes on, the wound examined and carefully cleansed. The patient is to be put to bed, placed in as comfortable position as possible and cold water dressings applied to the wound, the dressing

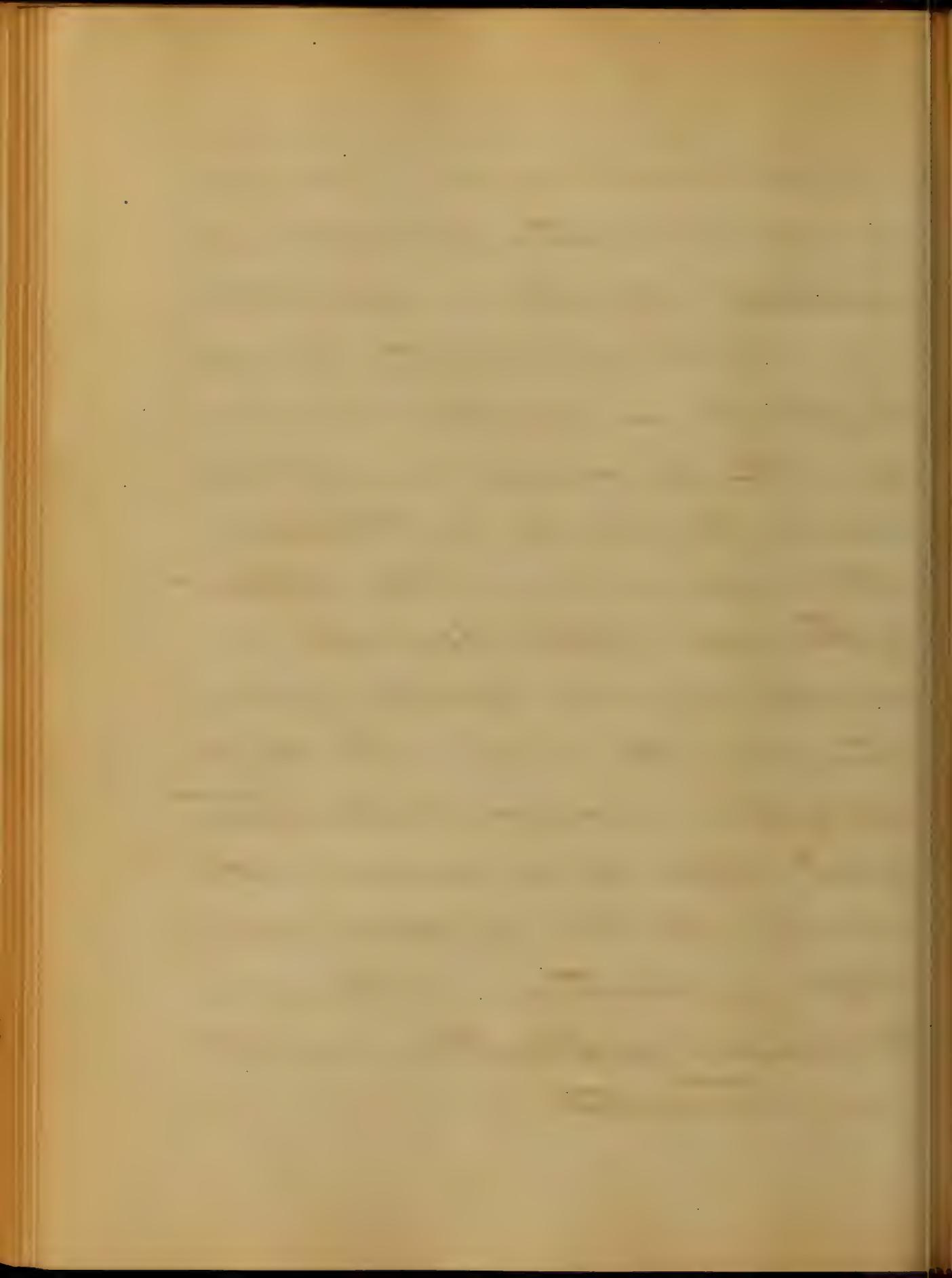


must not be heavy, a single fold of old linen or cotton cloth will be plenty-thick enough, this is to be applied and kept constantly moist, the dressing is to be frequently changed during the first forty eight hours, afterwards four or five times a day will be sufficient, to prevent the too rapid evaporation of the moisture a piece of oil silk may be applied over the dressing.

Any wound is almost always followed by general constitutional disturbance the prominent symptom of which is fever, this "surgical fever" is best treated by not interfering with it, there is no necessity for bleeding, active purgation and calomel, as laid down by some authors, the patient is to be kept in

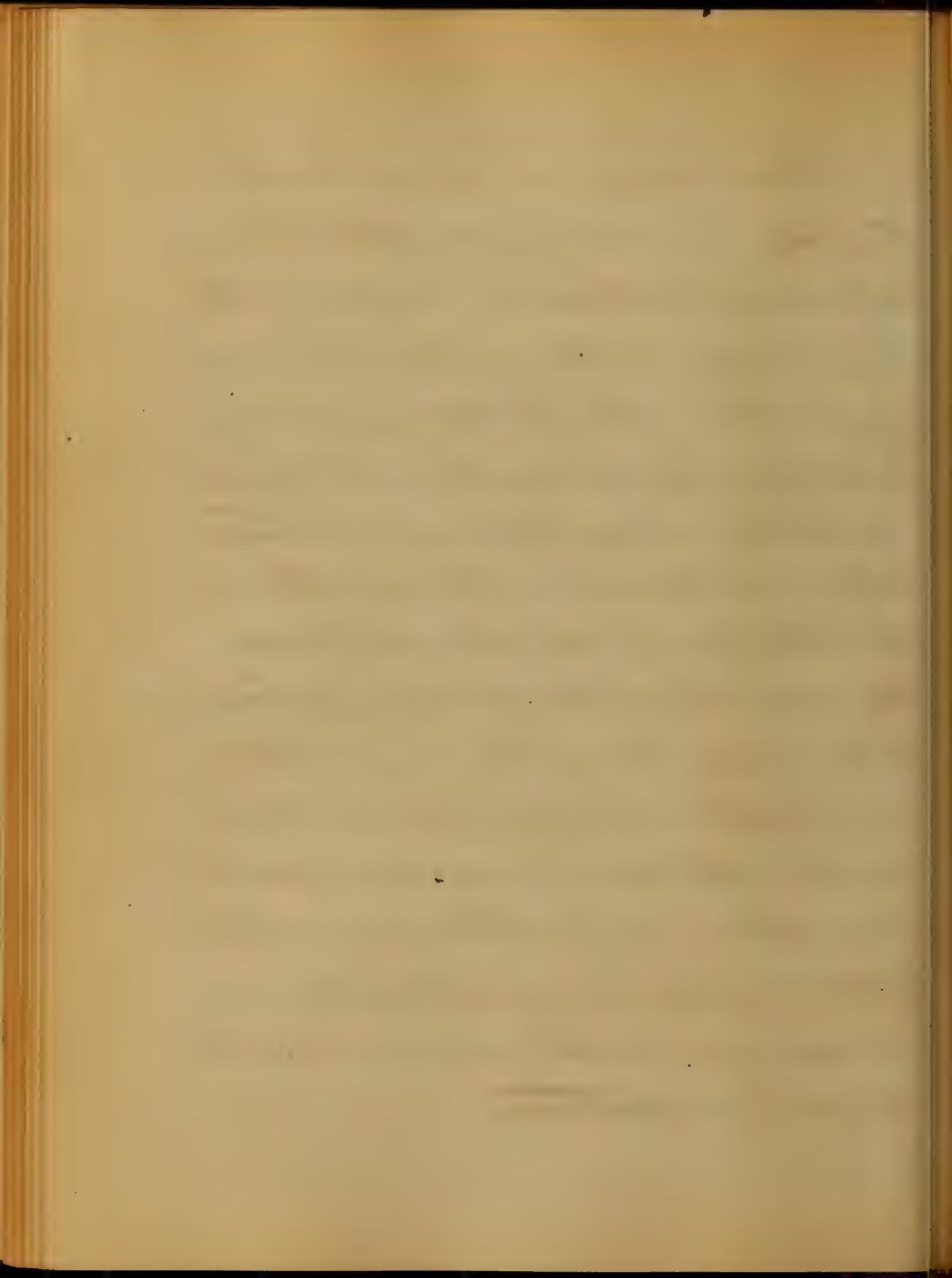


bed, perfect quiet and rest must be insisted upon, the apartments should be well ventilated, if fresh air cannot otherwise be obtained the patient had better be out doors, in a tent well warmed if weather be severe, limited diet during the febrile disturbance, afterwards, generous diet and plenty of stimulus, mild aperients if bowels are constipated, opium throughout the whole treatment, to allay pain and for its stimulating effect, tonics to be combined with the stimuli when they are deemed necessary treat complications as they arise the various complications cannot be anticipated.



When large joints are involved the prognosis is very doubtful, likewise extensive fractures of shaft of the long bones in the neighbourhood of joints, as the fracture is likely to extend longitudinally into the joint, in these cases primary amputation is the best practice. The operation should never be delayed unless the advantages for subsequent treatment and nursing are of the very best.

In extensive injury of large blood vessels, without a probability of collateral circulation being established, amputation will be necessary, as mortification will set up and death ensue unless the limb is amputated.

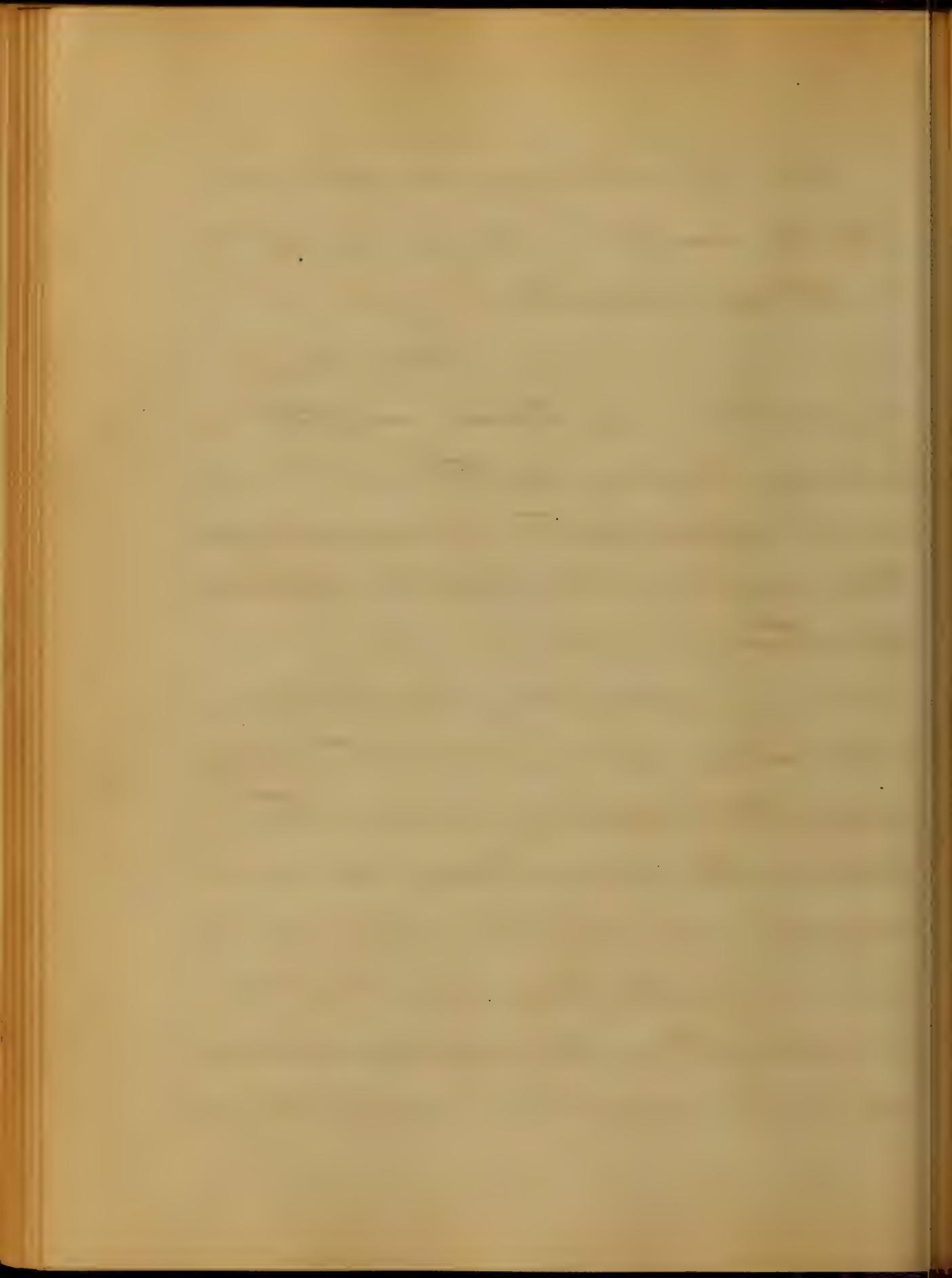


Where the great nerves are implicated with the vessels in the injury, amputation is certainly indicated.

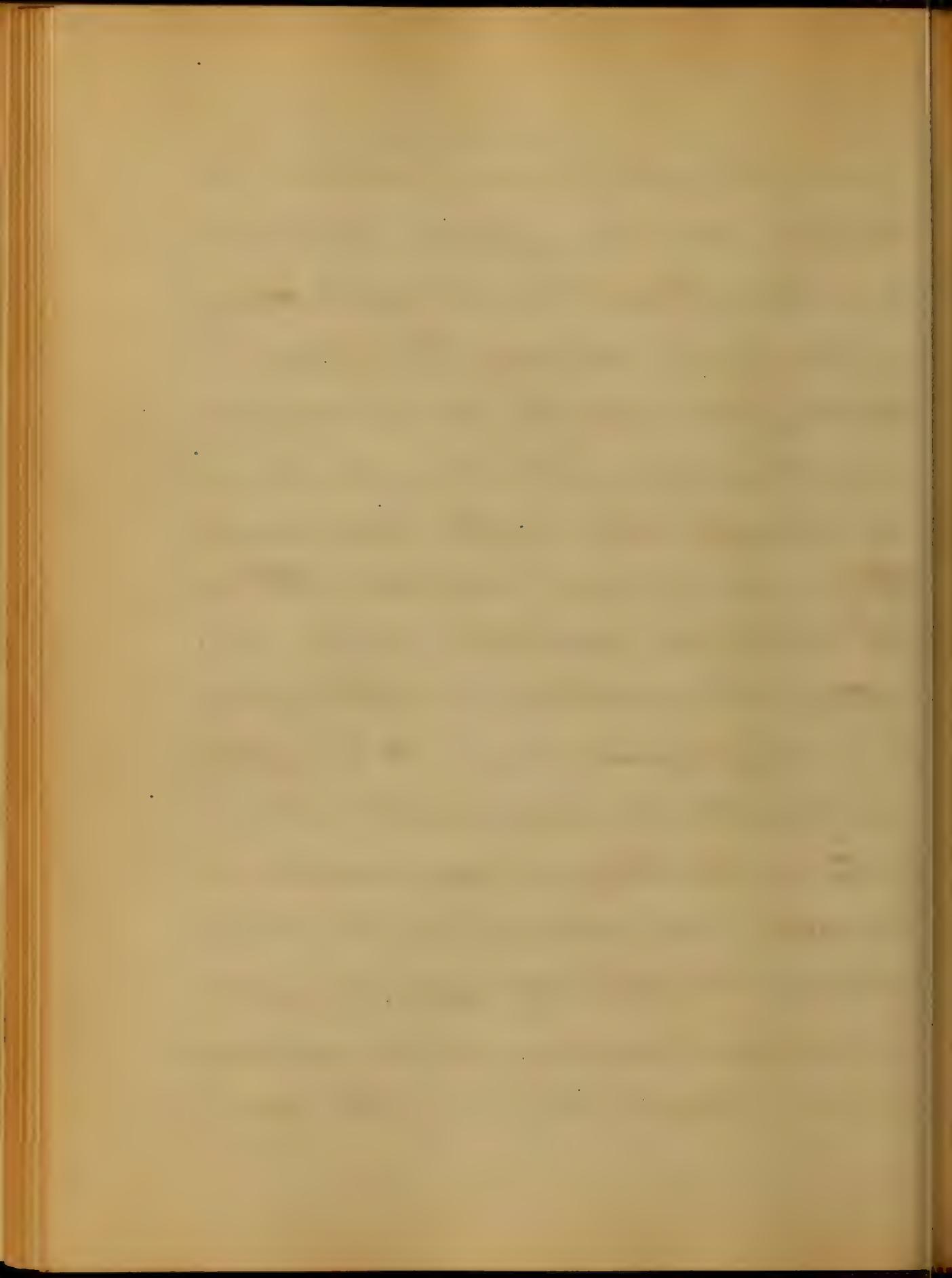
### Secondary

Amputations are twice as fatal as primary; primary amputation will obviate necessity for ligation of numerous vessels that will have to be ligated in a secondary operation.

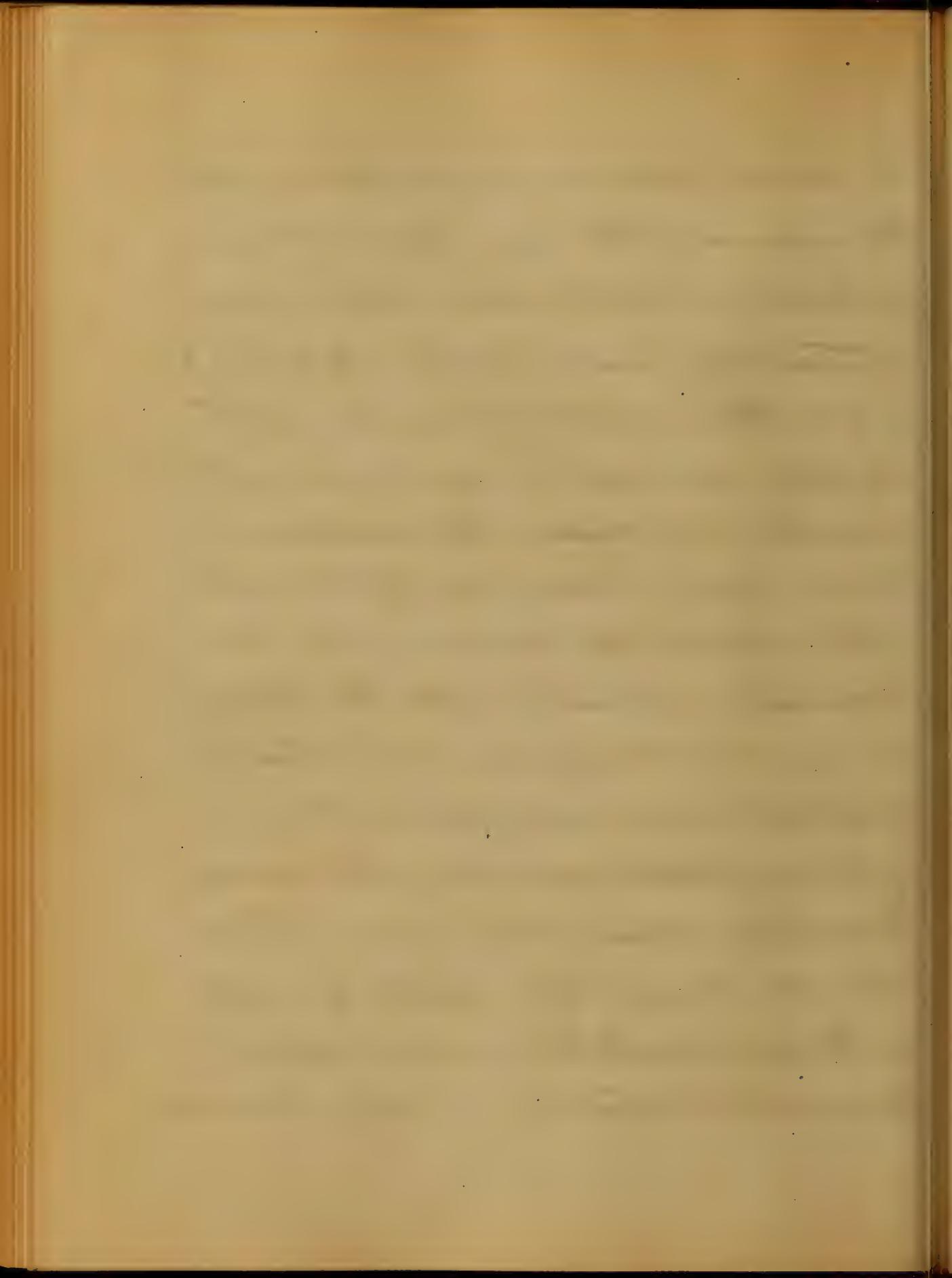
Secondary hemorrhage is that which occurs after the third day during the process of suppuration. Prior to this, hemorrhage is known as primary; secondary hemorrhage commonly occurs from the lower mouth of the divided artery, the distal portion being deprived of its nervous supply. It is not



endowed with the same vitality as its upper portion, consequently the mouth does not contract, the clot gives way sooner under suppuration and bleeding results, the blood will be dark resembling venous blood and will well up slowly not in jets as is usually the case from a divided artery, the blood is supplied by the collateral circulation; when secondary hemorrhage first occurs the indications are to control the bleeding from the lower portion of the artery, to accomplish this a bandage is to be applied from the extremity of the limb to within the neighborhood of the wound, here a compress is to be applied for an inch or two over the course of the vessel



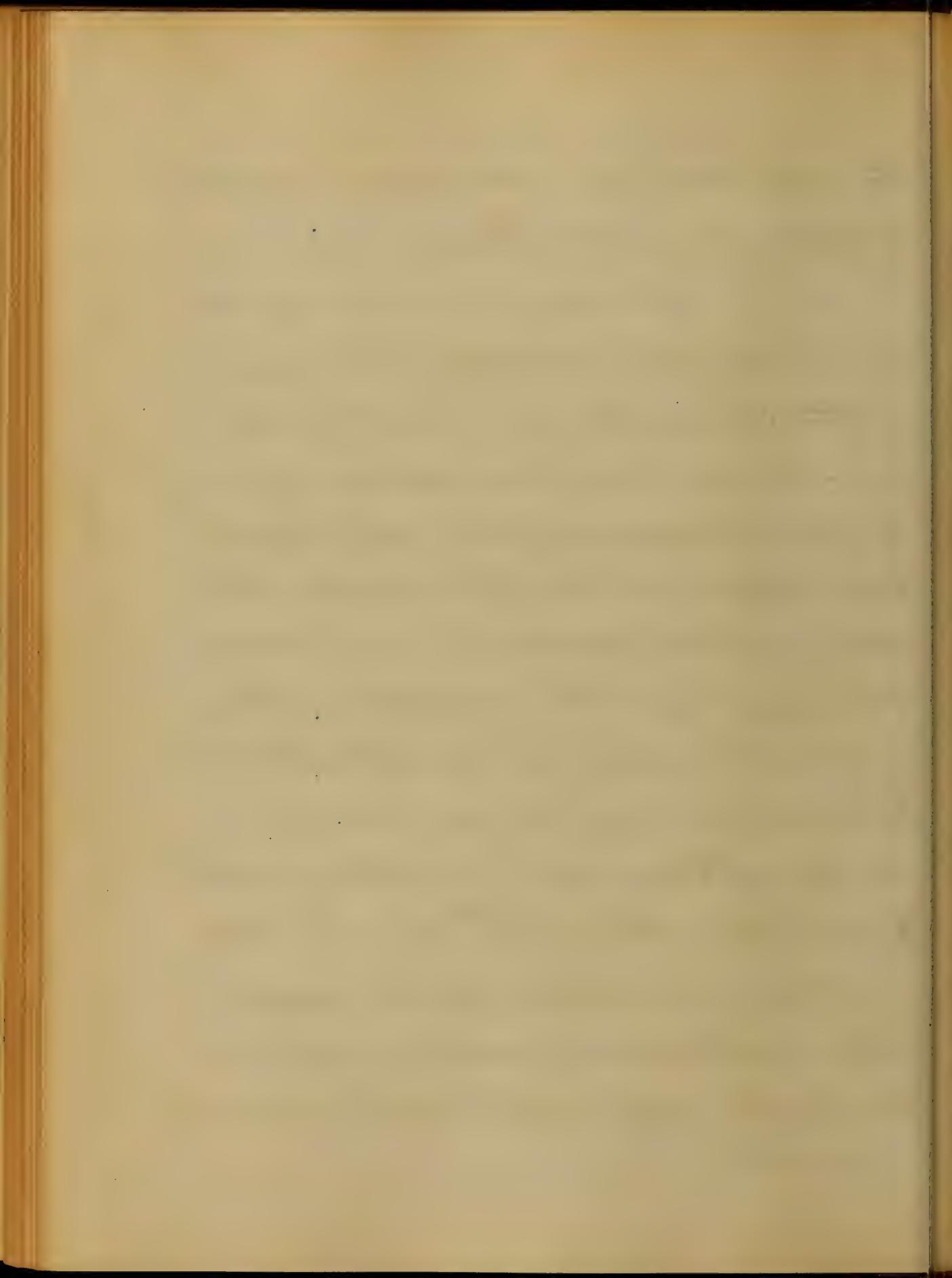
The bandage is now carried on up, covering  
the compress, to the lower edge of the wound  
a pledget of lint, previously dipped in some  
stptic (Liq. Tenui per Sulphatis, if at hand)  
is to be thrust into the wound and the  
bandage carried on up, covering the  
wound and binding the compress  
firmly, for a distance of two or three  
inches above the wound; upon the  
hemorrhage recurring after this treatment  
we are not to rely upon it further, but  
dilate the wound and ligate both ends  
of the divided vessel; where secondary  
hemorrhage comes on a second time  
it will almost to a certainty do so  
a third, a fourth time, or even often,  
provided the patient is not exhausted to such



The only safety in such cases is a ligation  
to both ends of the vessel.

If a main vessel is injured  
at a point where, at the best, but indifferent  
collateral circulation can be established  
or if a branch of any considerable size  
be injured at a point where, after diligent  
and careful search, the mouth of the  
vessel cannot be found, and it becomes  
necessary to ligate the main trunk, there  
is almost a certainty of mortification of  
the limb ensuing, the case should be  
closely watched and amputation resorted  
to before the patient's strength is exhausted.

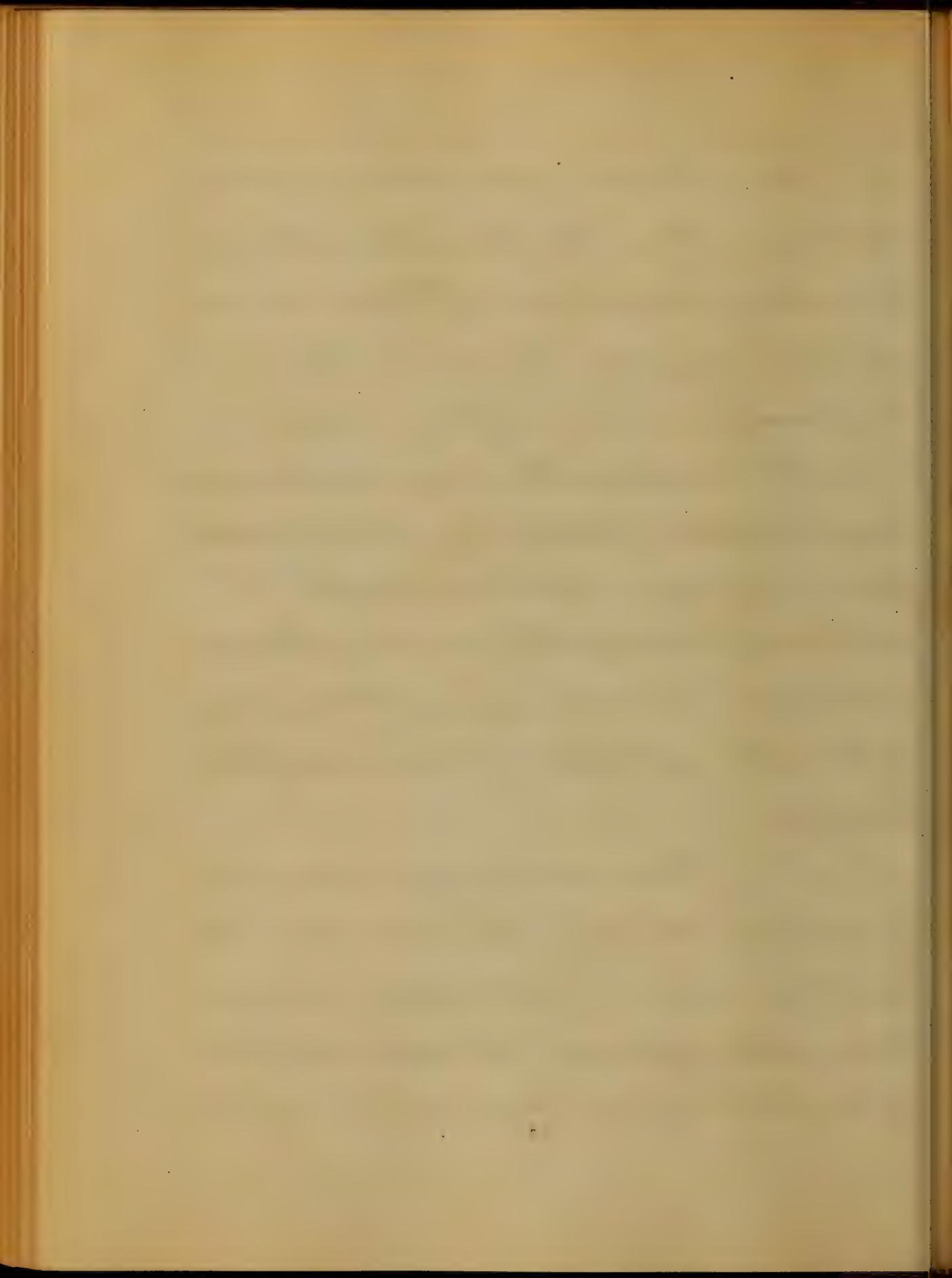
Where hemorrhage from a wounded  
artery is controlled by means of a ligation  
above the wounded point it is only an accidental  
circumstance.



Ligatures should not be applied to main trunks of arteries for hemorrhage from its branches, pressure and styptics will ordinarily suffice, if not, tie both ends of the divided vessel at the wound.

In the application of a ligature care should be taken to apply it as far as possible from any large collateral branch, the clot formed under these circumstances is not firm and will be washed away by the flow of blood in the immediate vicinity.

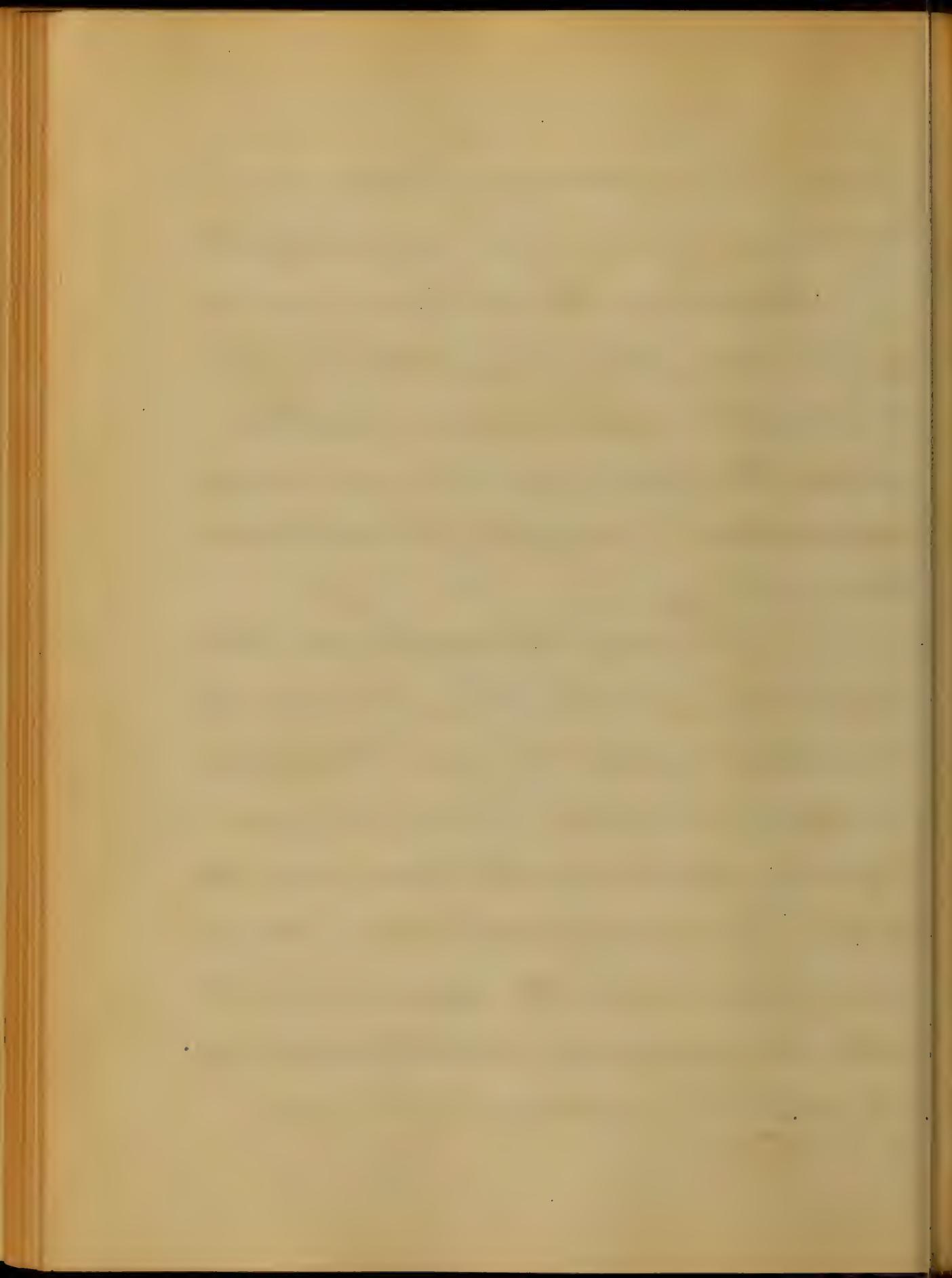
Gun shot injuries may ~~sometimes~~ be simple, comminuted, or compound fracture; where the ball impinges upon the limb with sufficient directness and force to penetrate the soft parts it causes



of course a compound fracture, and in most cases a compound comminuted fracture.

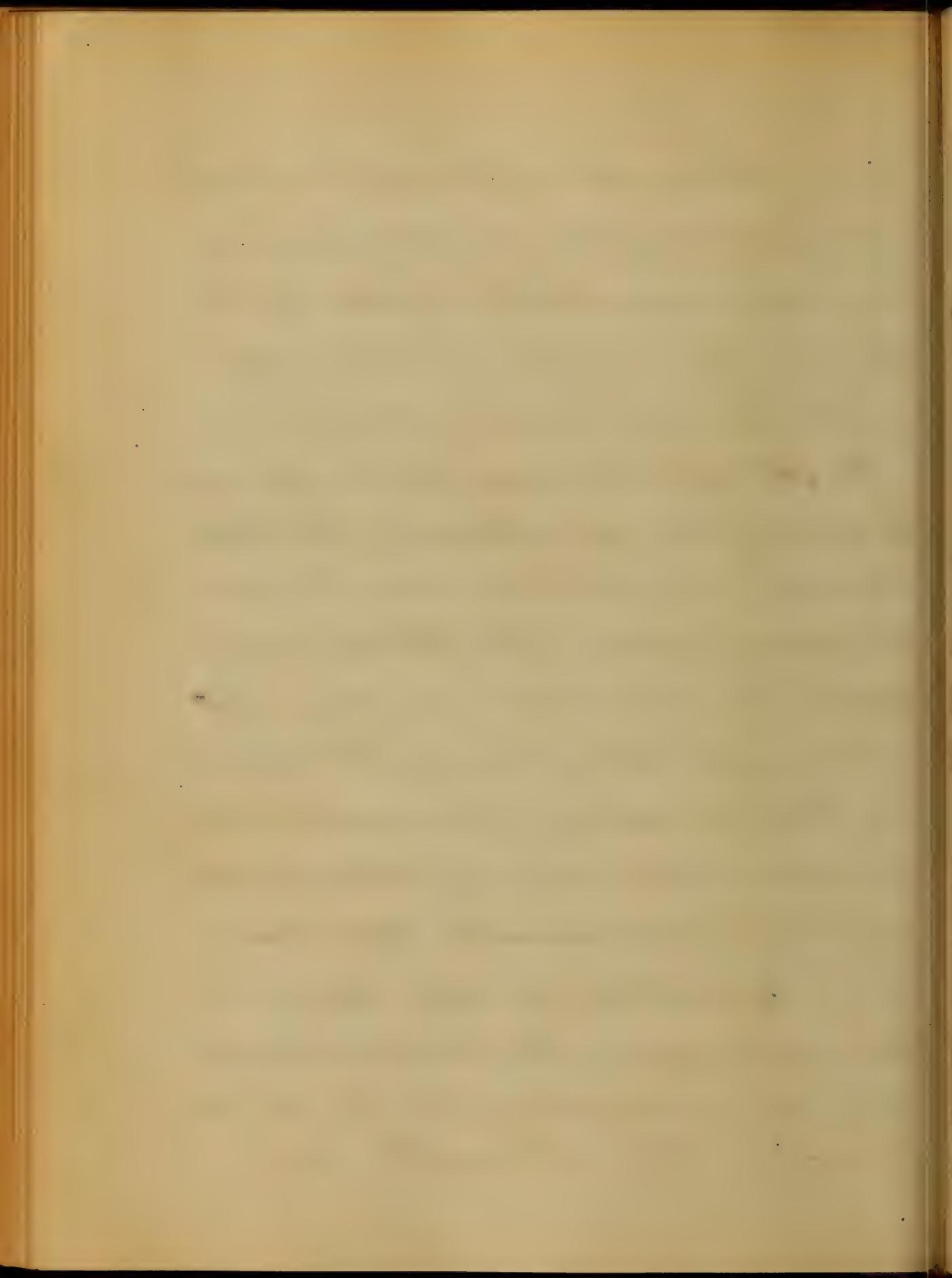
As a general rule an arm or leg should not be amputated in the first instance for compound fracture, unless the large vessels and nerves are divided, an effort should be made to save it.

The arm when fractured should in almost every instance have the advantage of an effort to save it, if an artery yield to suppuration it should be laid bare and a ligature applied to both bleeding ends; "Amputation should rarely take place in the first instance, and only in the second when mortification has commenced or the strength and health of the patient can no longer bear the drain upon them."



In gun shot fractures of the leg the splint and fragments of bone should be carefully removed, irregular portions sawed off, the periosteum being preserved as far as possible and the limb placed in a splint.

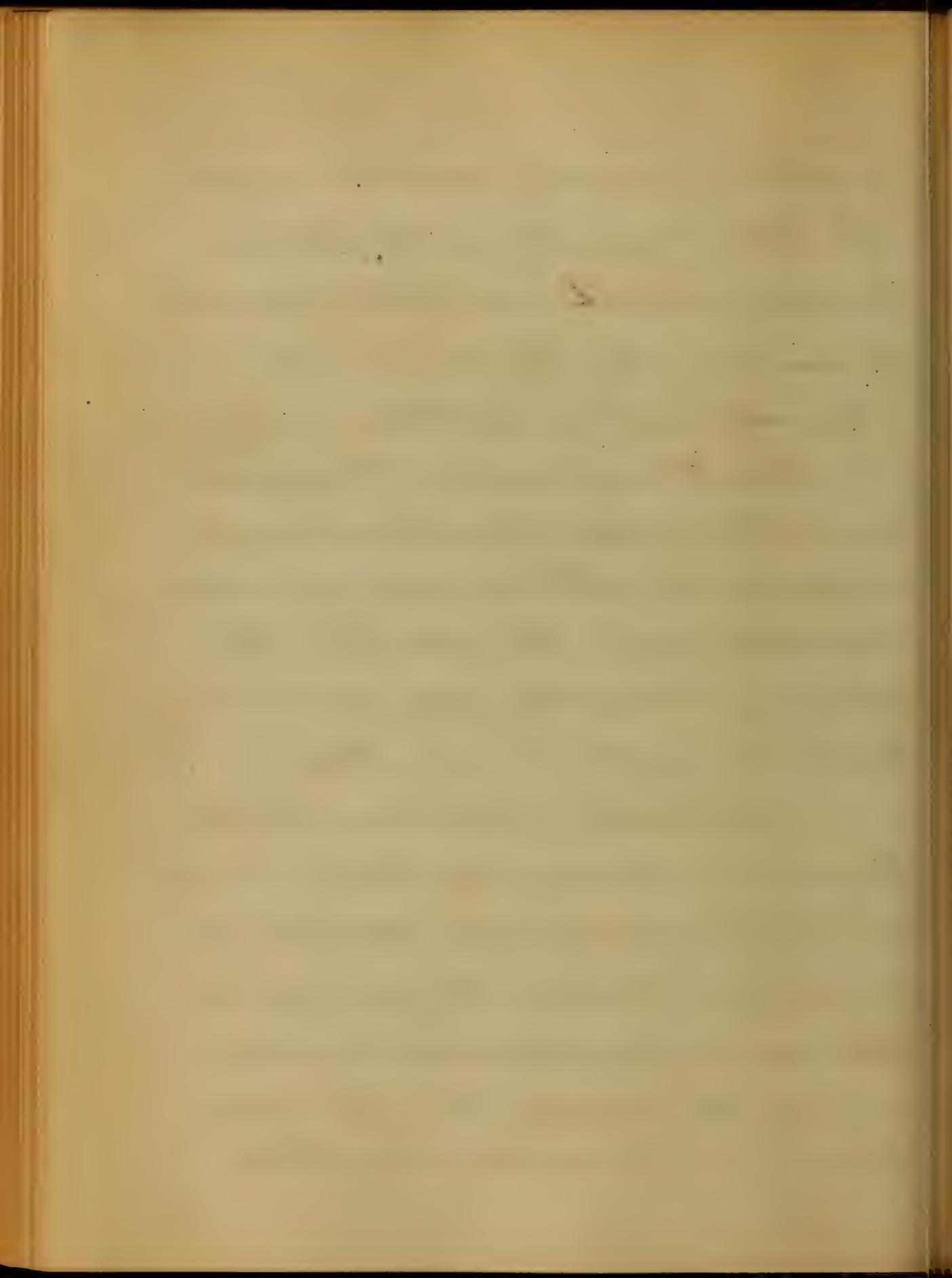
The best splint, in my opinion, for any fracture of the lower extremity is the "Master Anterior"; in compound fracture it presents the great advantage of the attendant being able to dress the wound every day, or open if necessary, without removing the apparatus; all that is necessary, in compound fracture, in addition to the ordinary method of applying this highly valuable apparatus, is an additional bandage applied over the seat of injury; the principal bandage being applied from the extremity up to the wound, is then interrupted and



reapplied immediately above the wound, when this dressed and the splint properly adjusted, all that is necessary to remove when the wound is to be dressed is the additional bandage that covers it.

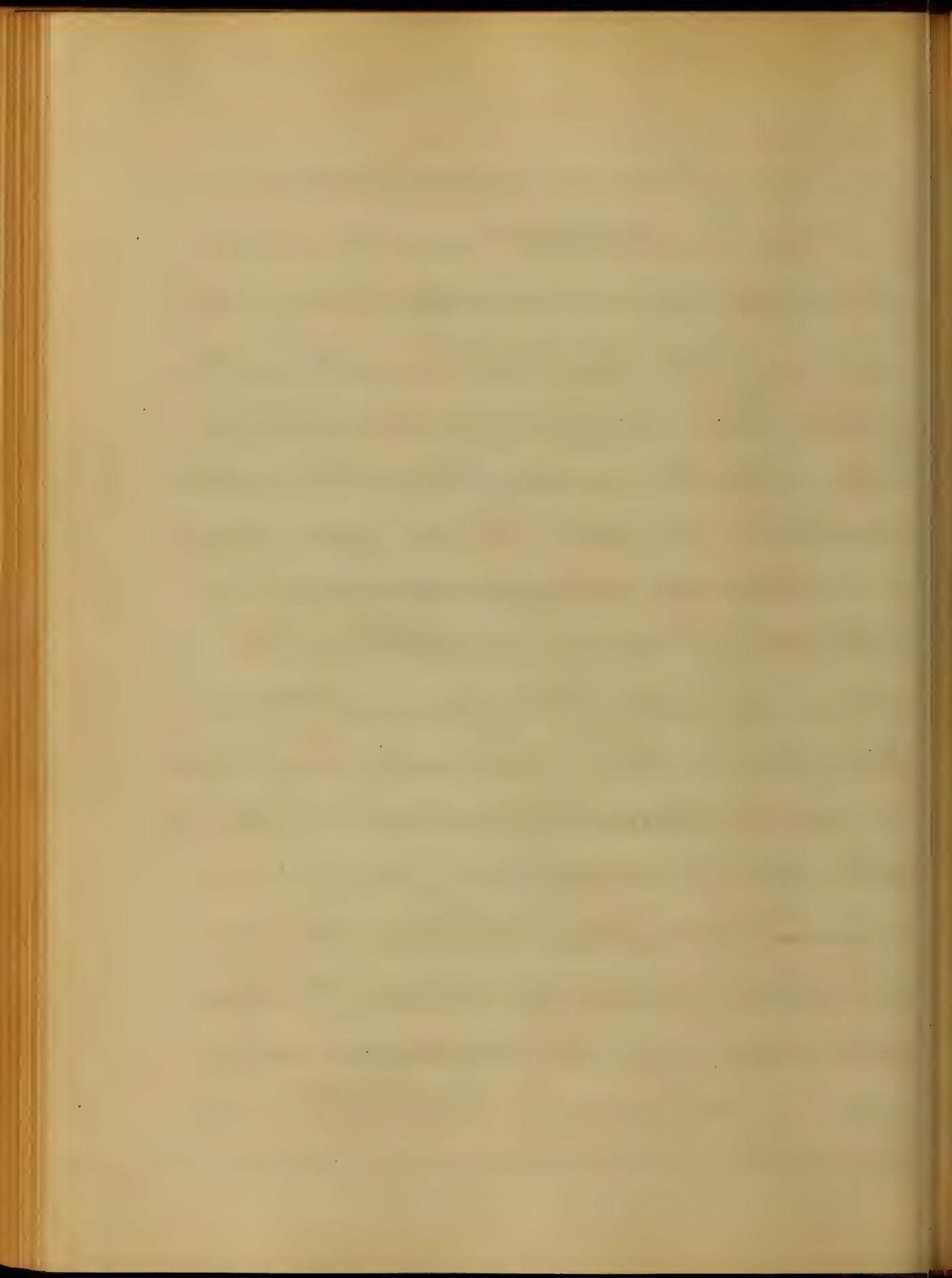
Fractures placed in this apparatus can be transported great distances over rough roads without any very marked inconvenience; in this apparatus the patient is not rigidly confined to one position, as in most other apparatus.

In fracture of the lower third, if the advantages for subsequent treatment are apt to prove highly favorable, an effort may be made to save the limb, if the injury is not too extensive, the fragments should be carefully removed, the limb placed in the anterior splint, the patient made comfortable

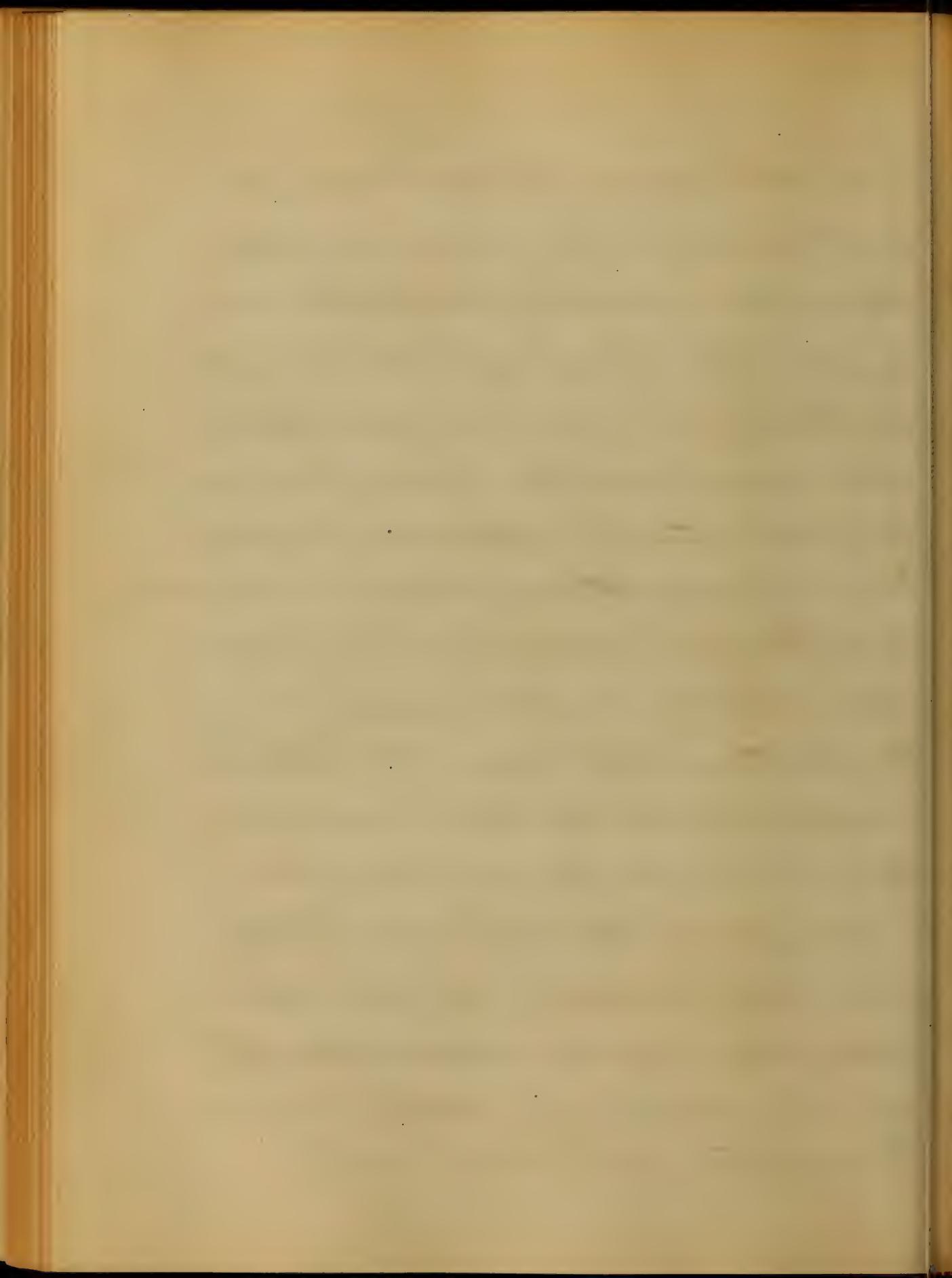


liberally nourished and his strength carefully husbanded

Fractures of the thigh above the lower  
third had better be amputated in the first  
instance, as the suppuration from such an extensive  
surface will almost beyond doubt exhaust the  
patient's strength; in addition he has the continual  
irritation arising from the broken fragments coming  
in contact with the bruised and lacerated  
soft parts, whereas in amputation he has only  
to bear up under the suppuration that takes  
place from a clean incised wound, of perhaps  
in most instances, no greater extent than that  
of the original wound; the constant dread of  
secondary hemorrhage in these extensive  
sloughing wounds, is annoying to the surgeon  
and alarming to the patient; in case  
of recovery the limb will, <sup>in all probability</sup> be shortened to such  
degree that it will prove a burden and an incumbrance

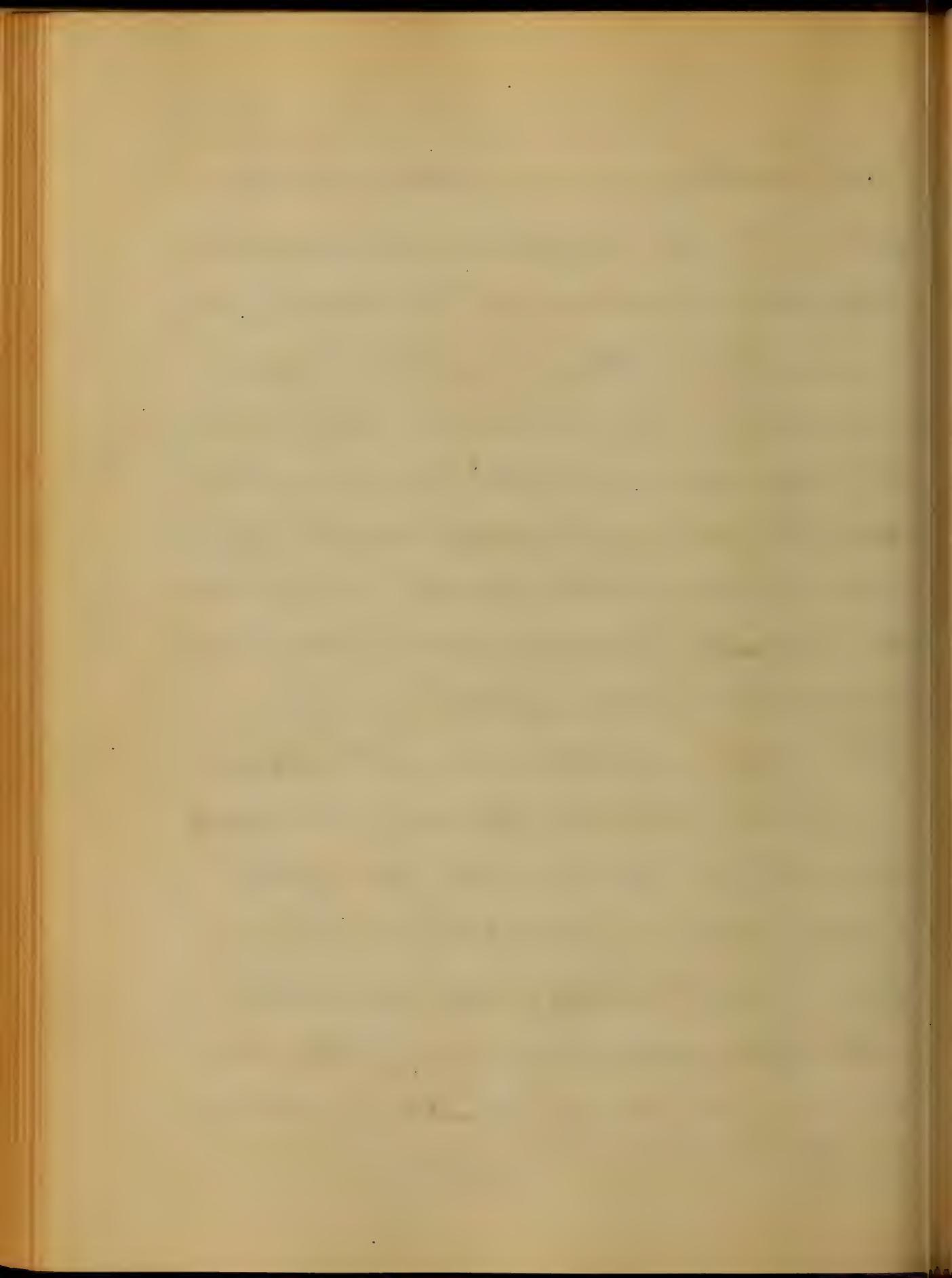


In gun shot wounds of the head there may be fracture, more or less comminuted, with depression; a ball may penetrate the brain directly, when a ball penetrates it is not often that it can be removed and the sufferer rarely survives longer than a few days, where the scalp is torn, the depression marked, the usual symptoms of <sup>Com.</sup> depression present and thought to be due from the rugged fragments of the inner table impinging upon the substance of the brain, the Trephine should be applied, the splinters carefully removed the skull elevated, the wound should then be carefully closed, the patient kept strictly quiet, cold applications to the head, opium to allay pain, towels kept moderately relaxed and general attention paid to the condition of the whole system.



In penetrating wounds of the chest the patient should be placed upon the wounded side, so as to evacuate the chest of all accumulating fluids, if ribs are broken fragments of bone should be carefully removed the ball removed when it can be found and the wound carefully closed; if fluids accumulate in the cavity - the wound should be reopened or a canula-trochar inserted at the most dependent portion.

In gunshot wounds of the abdomen, if bowels protrude they are to be carefully cleaned and returned, the lips of the wound approximated, patient to be put to bed, kept strictly quiet and treated with large doses of opium, to allay pain and keep the bowels quiet; where the bands are not torn and should ensure it will in all probability be the result of peritonitis

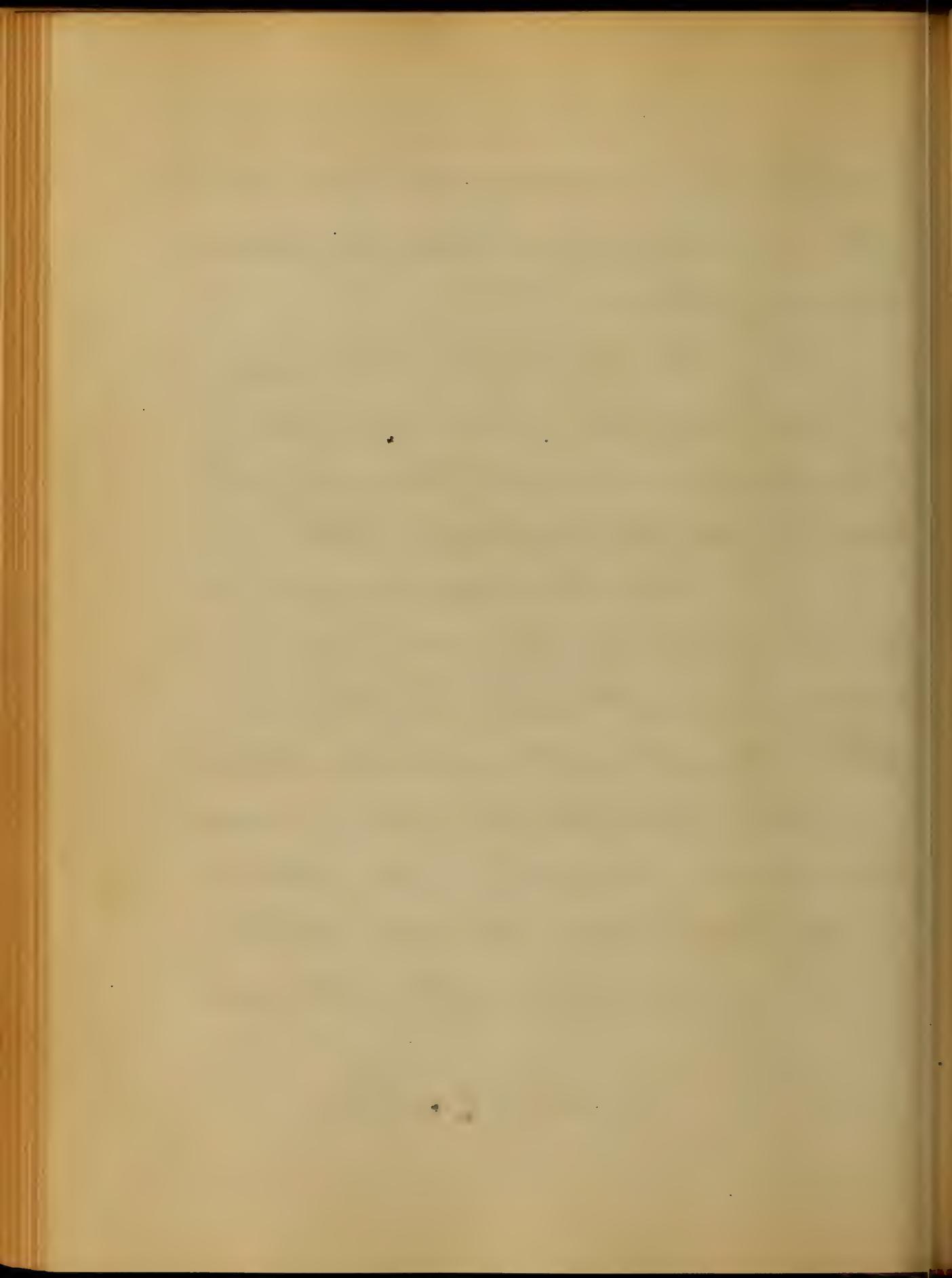


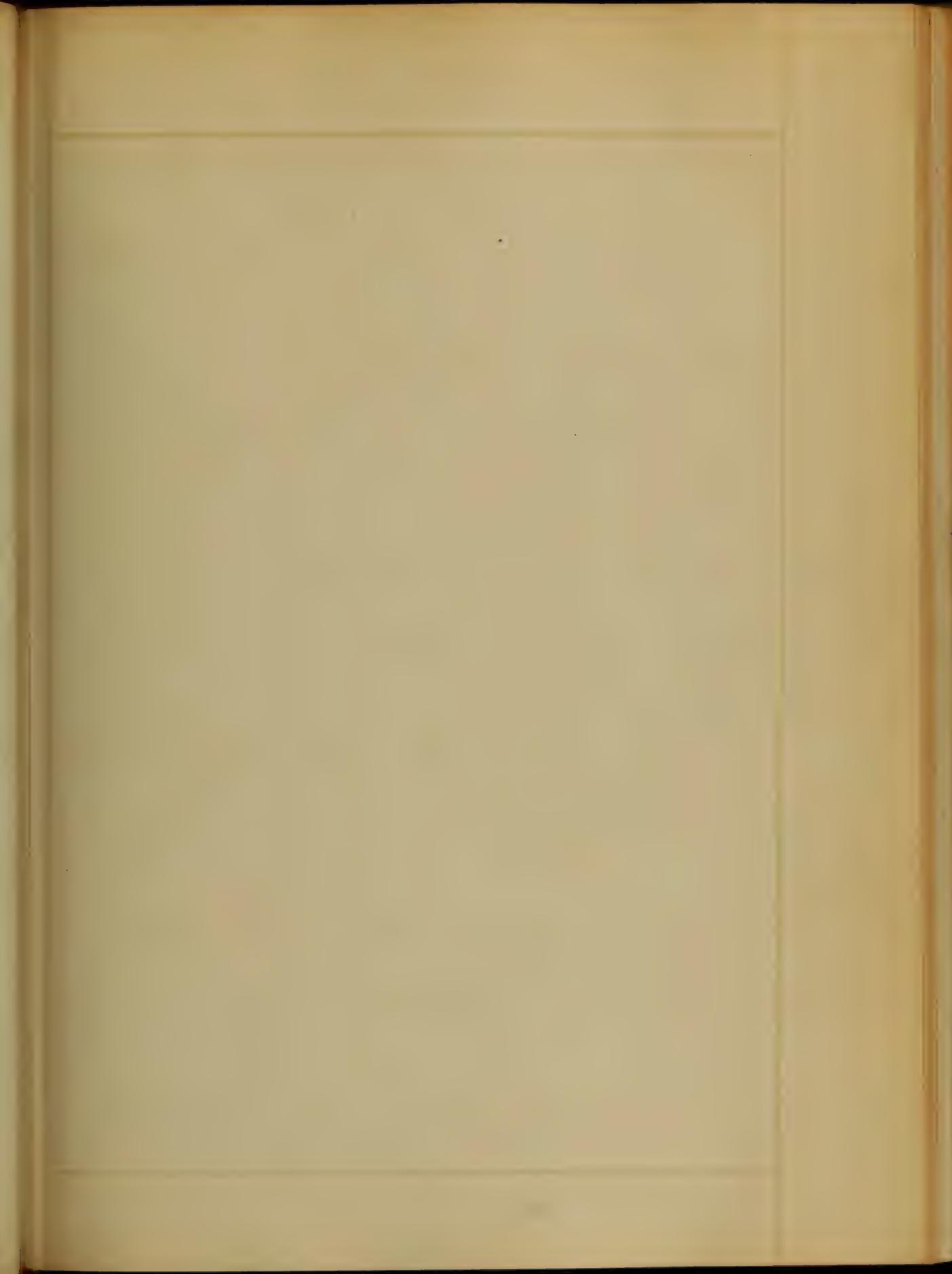
in protrusion of omentum. if it cannot be returned a ligature should be applied to base of tumor.

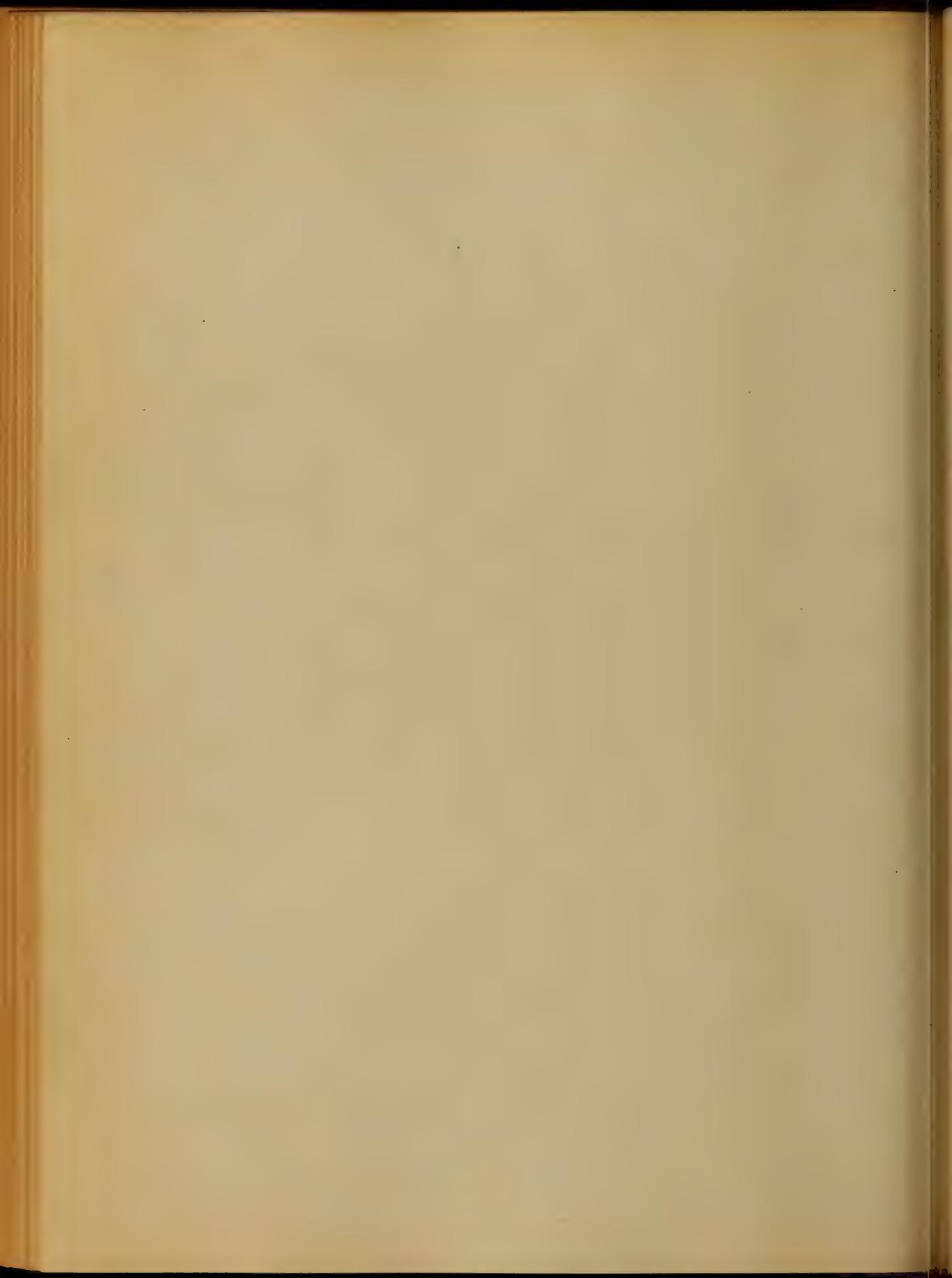
Gun shot wounds of the bladder are for the most part fatal; persons rarely recover in whom urine finds its way into the cavity of the abdomen, they die of inflammation.

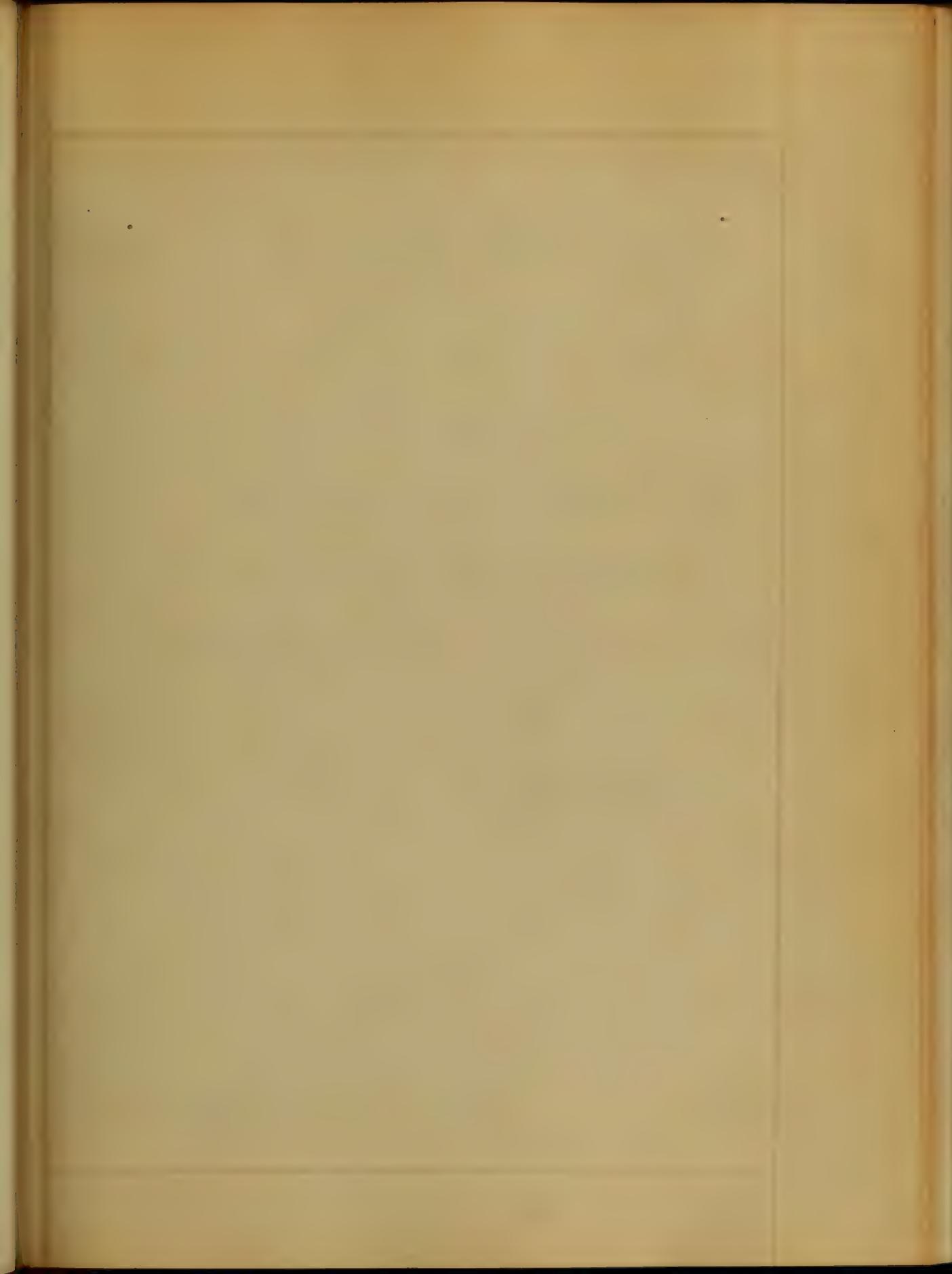
When the bladder is wounded below where it is ~~not~~ covered by peritoneum, persons do sometimes recover by the <sup>almost unaided</sup> efforts of nature; a catheter should be introduced from the first and fixed in the bladder, being removed occasionally and cleaned; opium is the important remedy, with perfect rest, strict attention to diet and the general state of the system.

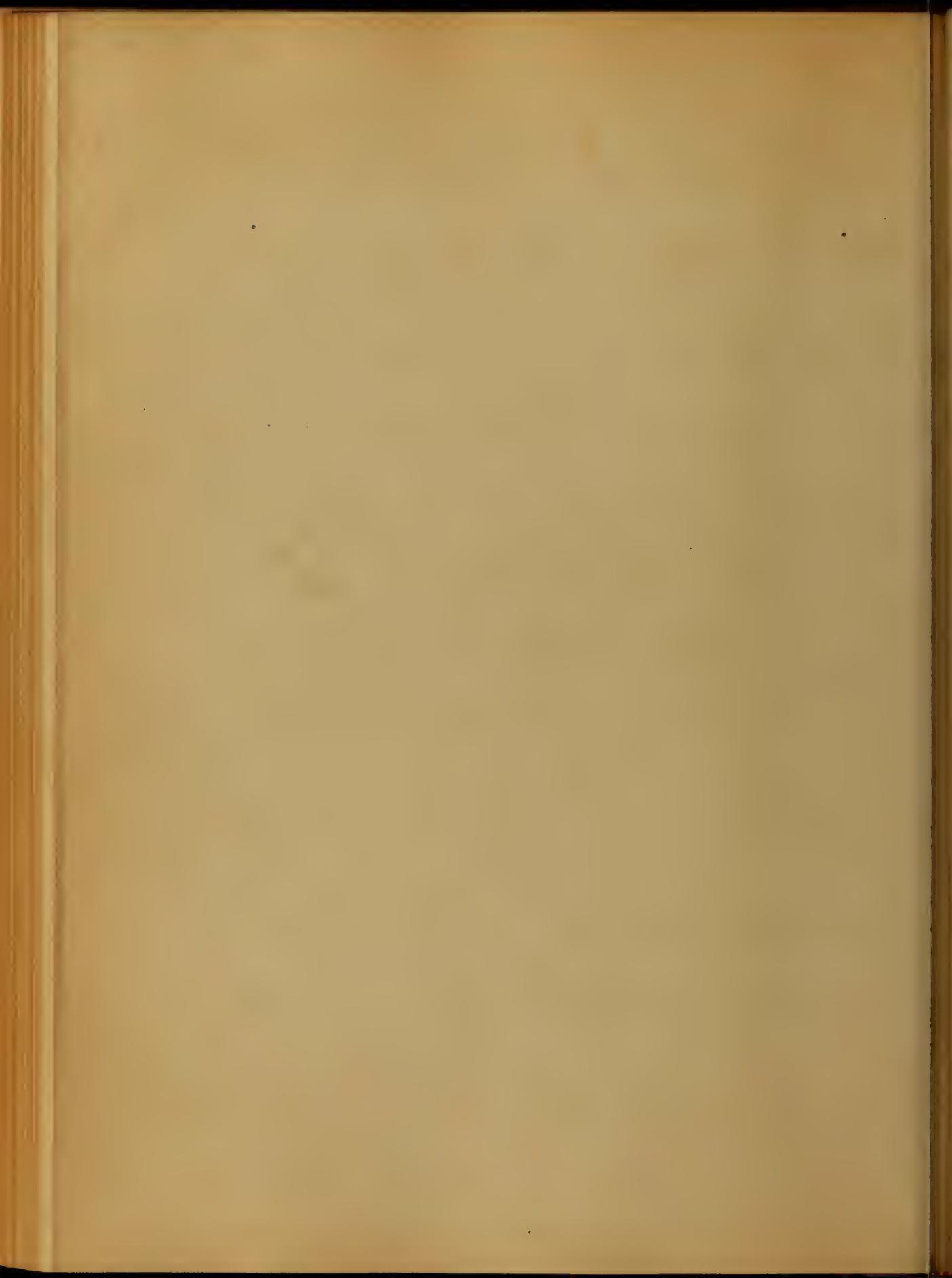
Edw J. Drury











AN  
Inaugural Dissertation

ON  
*Sain. & Natural Cancer*

Submitted to the Examination  
OF THE

Provost, Regents and Faculty  
OF

**PHYSIC,**

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

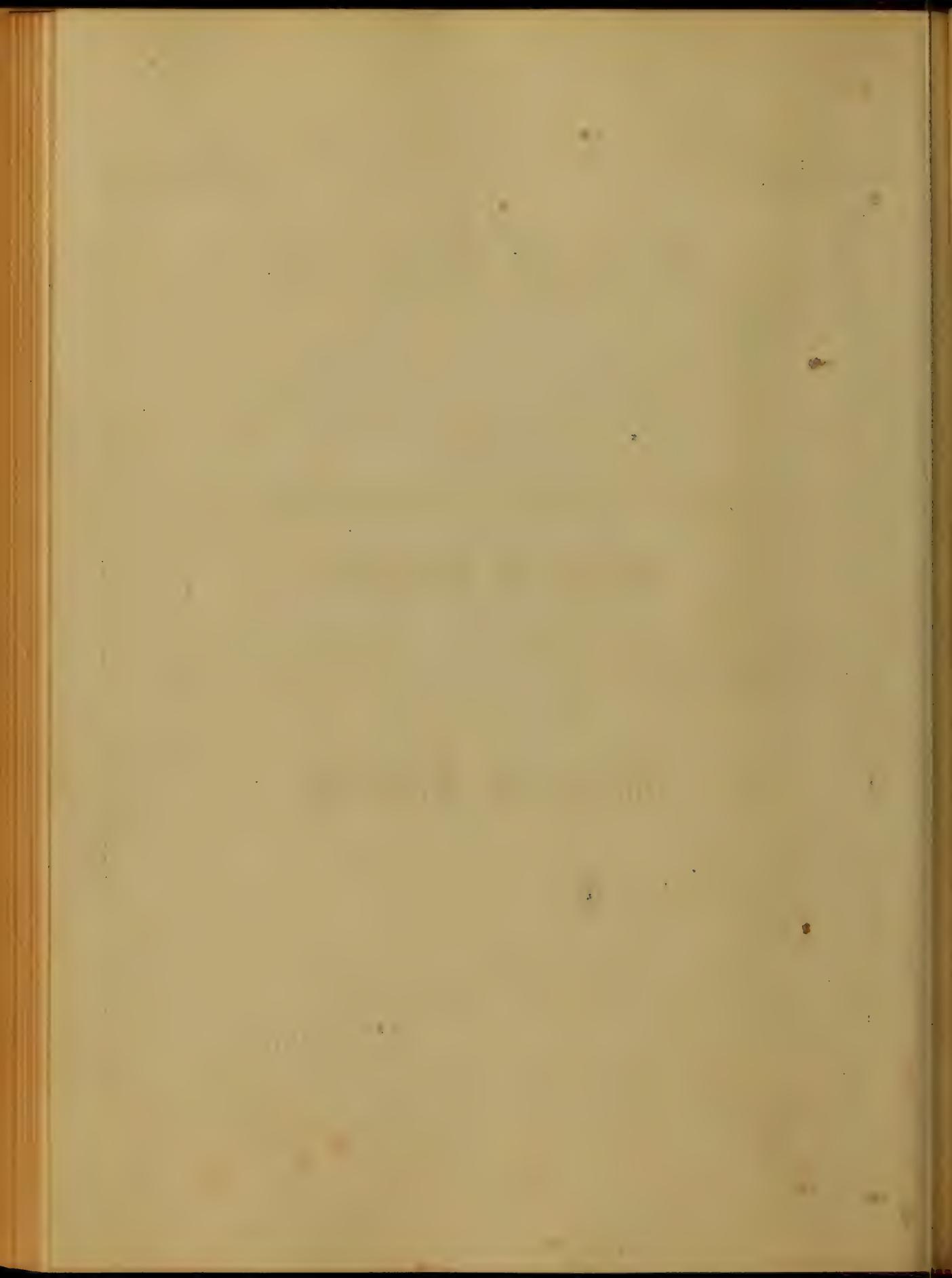
DOCTOR OF MEDICINE,

By  
James R. H. Howard

Baltimore - Maryland

Session of

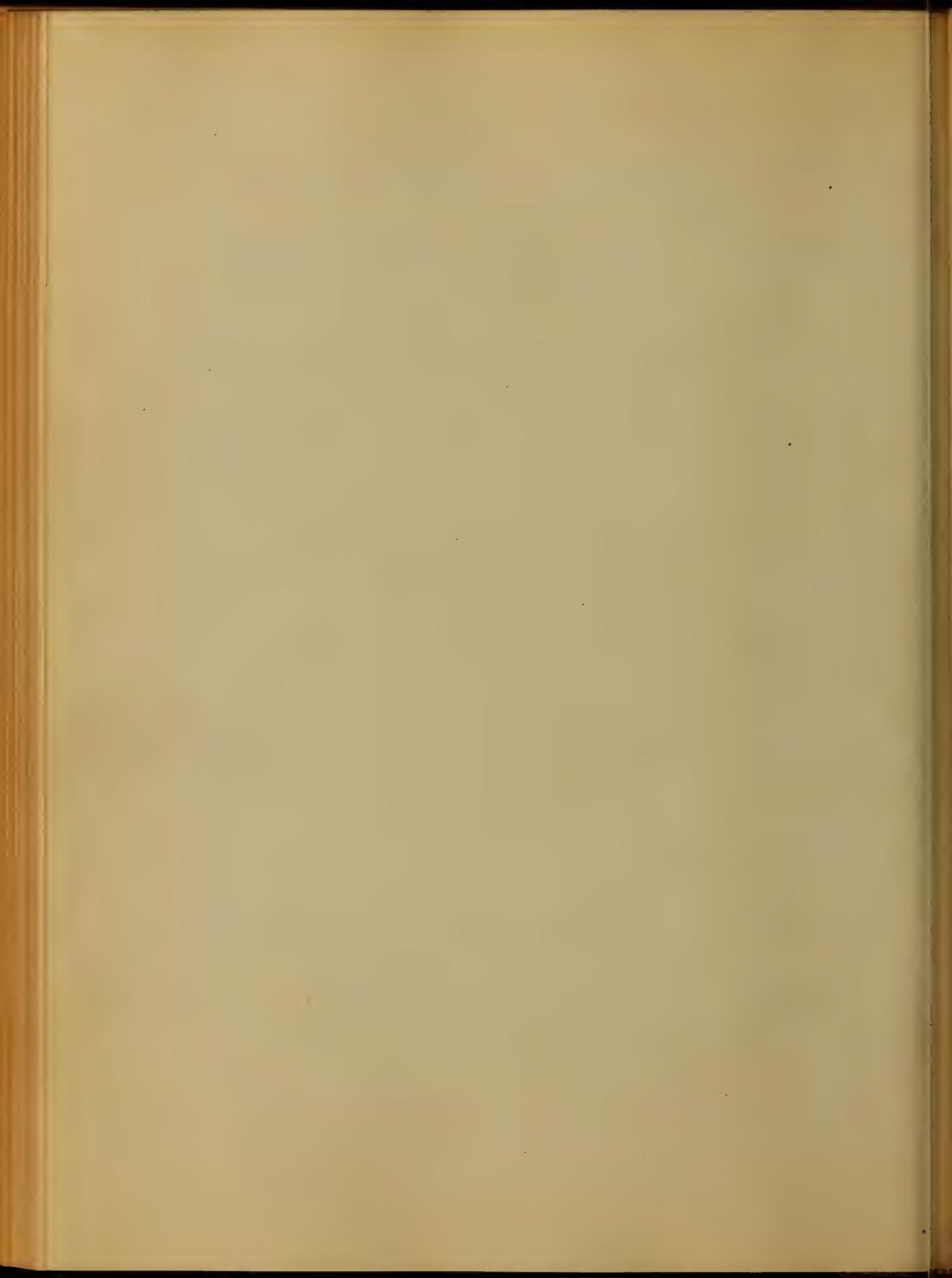
1818.



The study of medicine has a peculiar interest, or the  
thoughtful mind, such when the student has permutated the entire  
room and goes among his fellowmen with a smile the truths  
which have been taught him, he will soon find that they will  
be accepted as certainties we know no measure, and that neither of  
us having informed with knowledge and skill, can make  
mane such slight opposition to science and truth.

It is nearly always the case when the world will not believe the  
truth it is because it does not see any profit in it, or it is  
from some corruption which will not let it be known  
that opposition comes from a desire to do harm.

The reason of this is that the world is composed of men  
and is apt to accept the appearance of the reality and to be con-  
vinced of it's - all manner having particular pleasure  
of health or life - and it is good to know  
exists or is dangerous, while absolute truth is so seldom  
that we must regard truth such from an angle



comparative point of view.

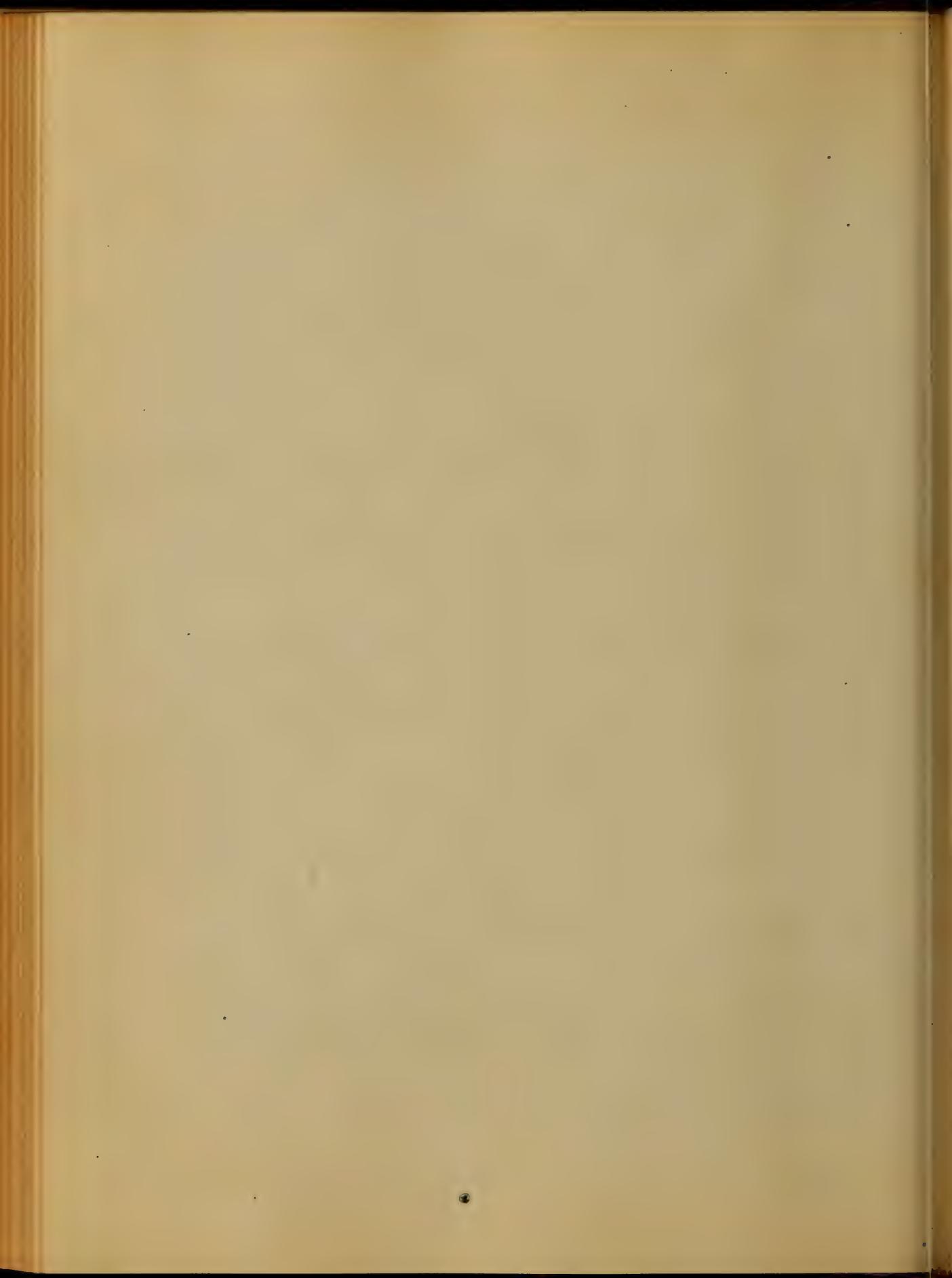
The physician in his search after truth feels that he often fails. He finds the world a mass of error, and the physician's task is to correct it. He finds the world full of disease, and

of affliction. He, however, sees a few bright rays of light, and even misleads his soul - and the physician of true wisdom must find his way through them with care.

In his practice, though, he must still see the world, and feel that he has been able to relieve suffering and pain. He must have had this marking well in mind when he wrote

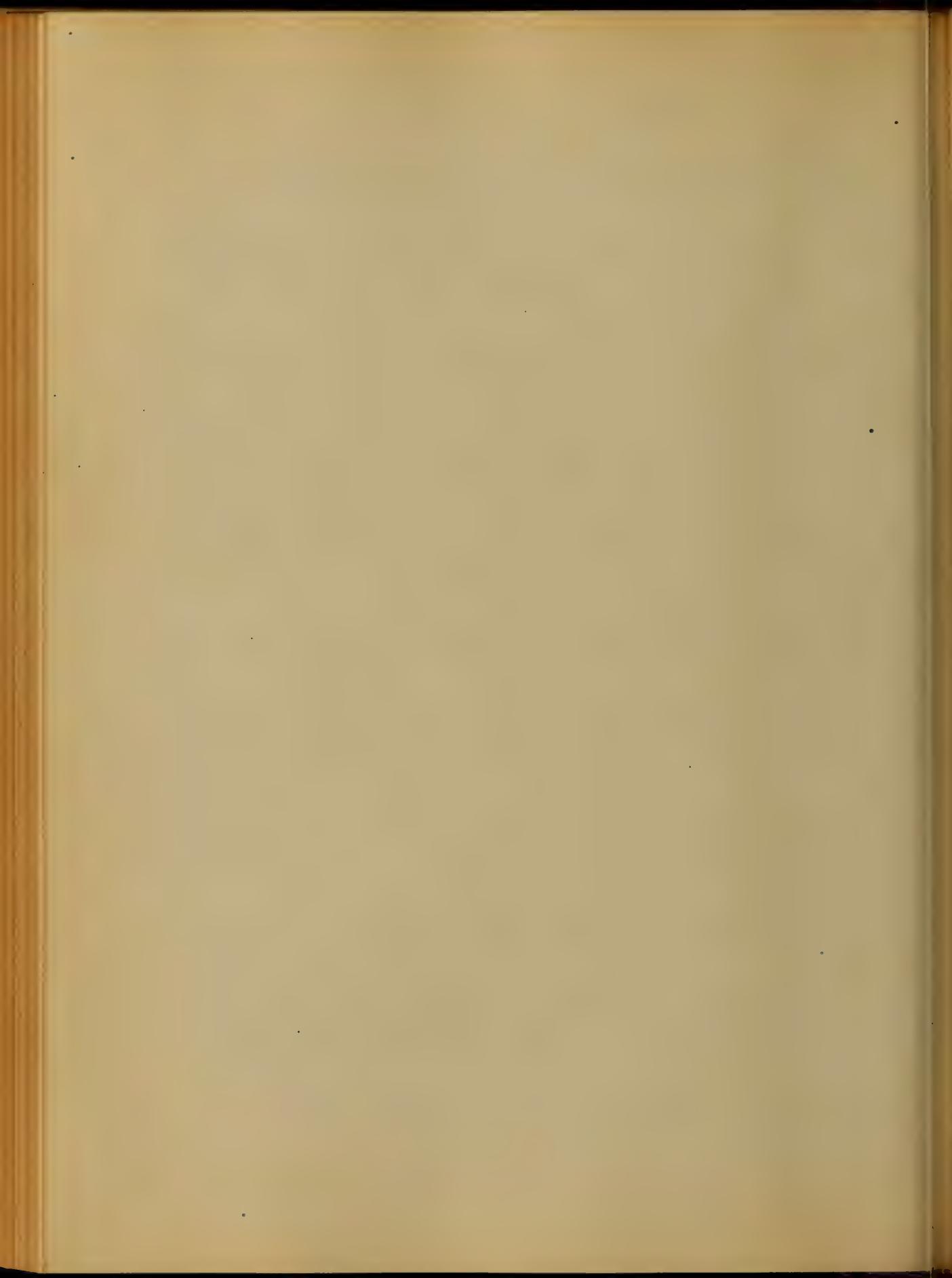
the following:

"The physician, like the teacher, is the true  
village of humanity; it must be constantly met and ministered  
to - the dawn of his couches must bring  
and dispel the gloom of ignorance and sin, and  
at the setting of the day to bid all men  
concede man from Evil to righteousness."



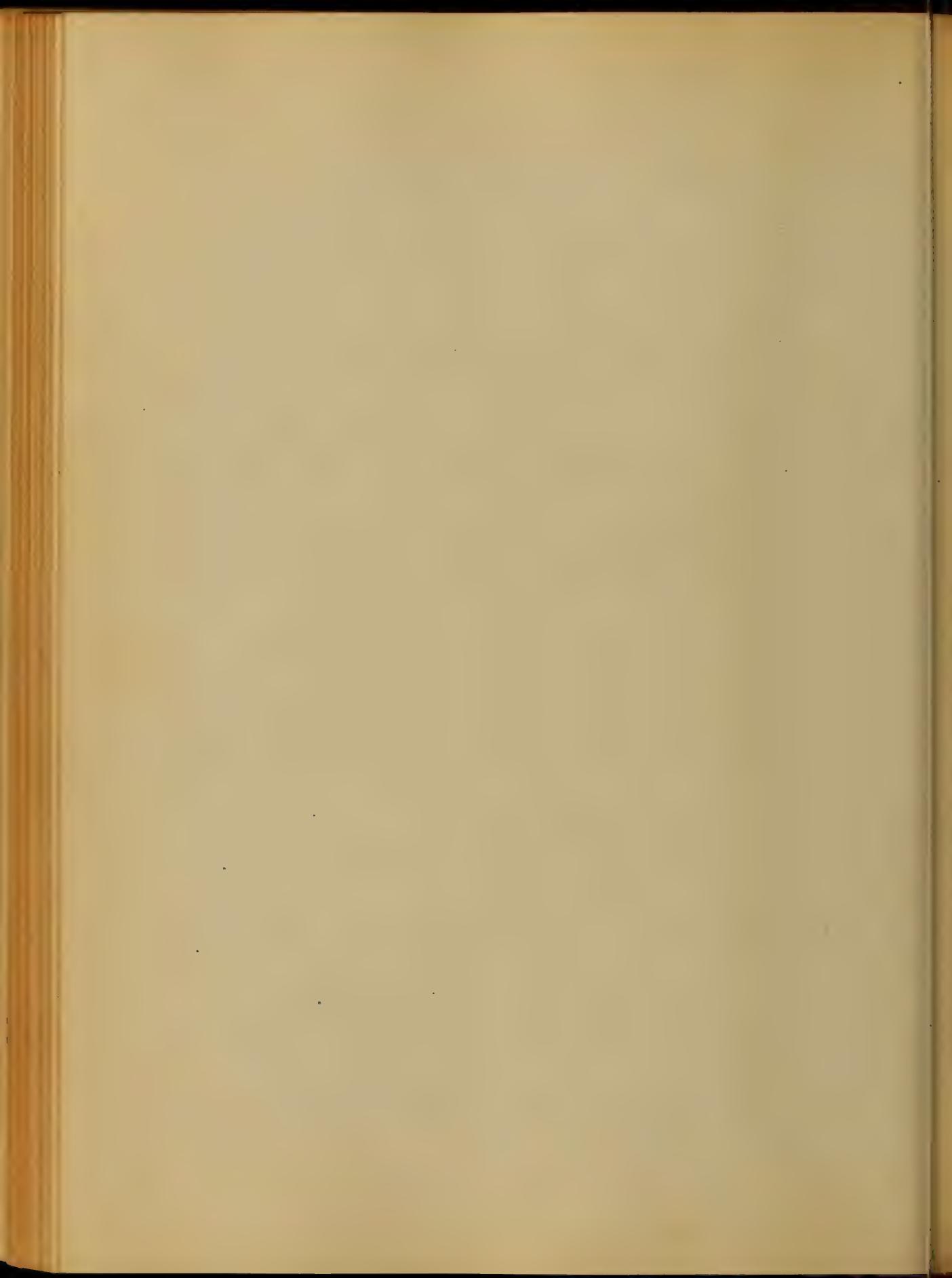
Man uses it as a means of finding the objective world around him,  
while Nature uses it as a means of finding the subjective world  
around us - and yet we may regard it in another aspect - while on  
the one hand it reveals the objective world, the other hand it  
reveals itself and, in effect, it is the mirror of the subjective  
world, because the man looks at the world through his own  
eyes, therefore he sees the world through his own eyes.

Now it is a definition of pain that it is an abnormal sensation  
of sensuous Commune and recognized by the intellect; crushing  
it thus, as follows. "Pain is an abnormal sensation received by  
living organism from internal or external stimulus, which  
stimulus either affects the body or its parts, or acts upon  
the mind's sensations and causes pain. Such pain is called  
actual pain, ie, voluntary, or true pain, which  
is received by the mind through the body."



"The median state of the brain bearing the name of the cerebral  
is produced when the different fibres of the brain act in unison.  
The quiescent of the nerves, one hemisphere is in a state of  
absolute rest, the other in activity. This is the case when the  
brain is due to an increased mental excitement, or when  
the cerebral vessels of parts which may, more or less, affect  
either the functions of thought or those of motion, or when  
faculties of understanding and invention, or the faculties  
concerned in the recovery of lost knowledge, are excited."

I will now add a few words on the subject of pain, and then  
the whole subject will be over. I have already mentioned  
it in my account of the mind. You will observe  
no slight variation, so I shall proceed with my subject,  
dividing it into two classes - i.e. True pain, and trouble;  
true pain is that which is due to an actual  
to structural change or pressure - True pain (as Paroxysmia) may



and often a violent one.

*Chills*

The first symptom of the disease, the first sign of the

danger is usually accidental and generally a social accident

or an accident in sports, or in the course of a walk, or

out walking. It is in the social accidents that the first

parts of the organism, and is received, we may say the two

most fragile organs, the heart and the lungs, are affected.

*Pain*

Pain may be caused by certain conditions of the circulation,

certain malfunctions of the nervous system, certain constrictions,

, and certain conditions of other parts of the system,

and we can even make out what is the cause of the

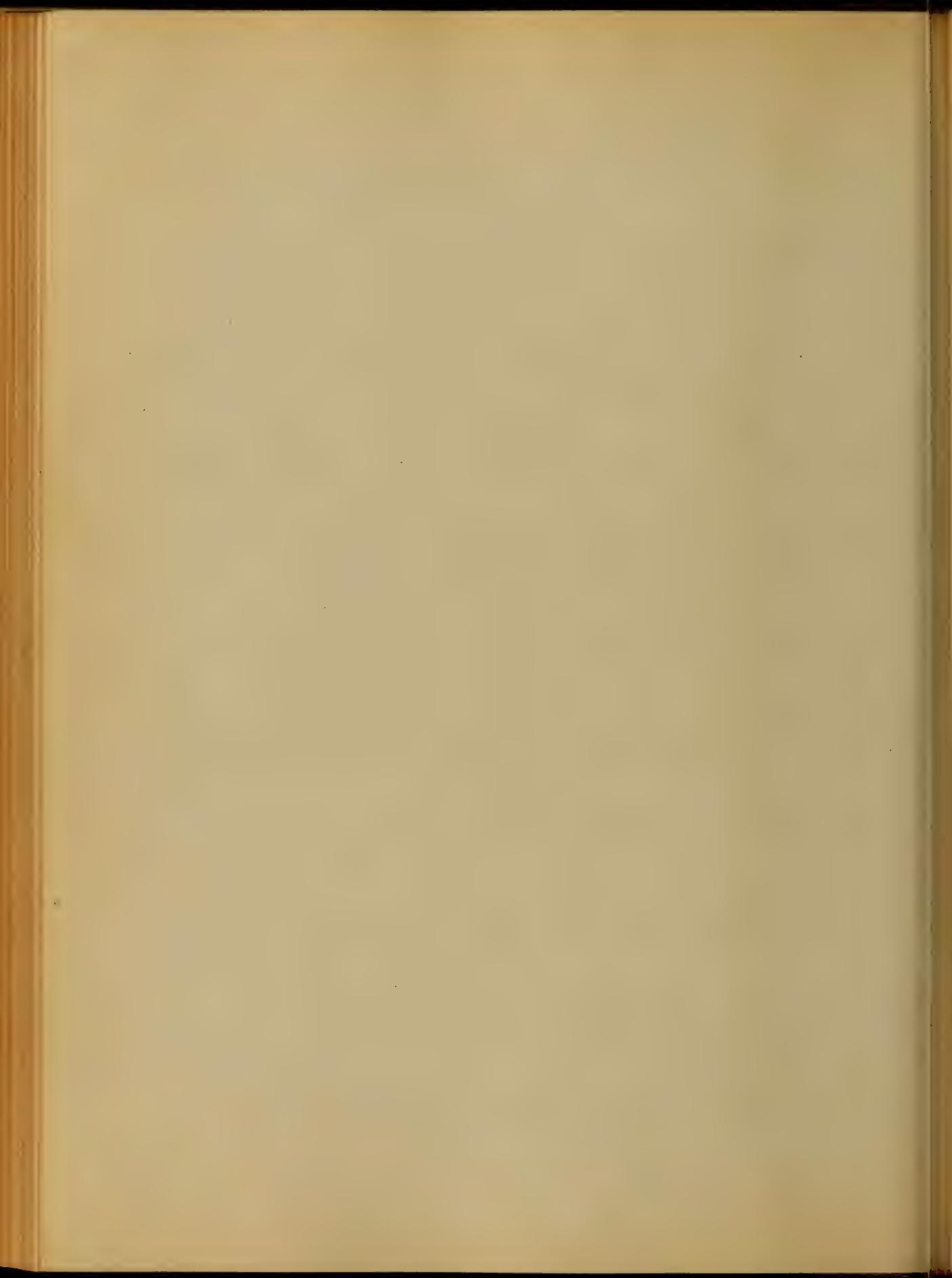
attention upon a particular part can produce real pain

and even structural change as in the case of a patient of clini-

cal importance - and we have the power of detecting

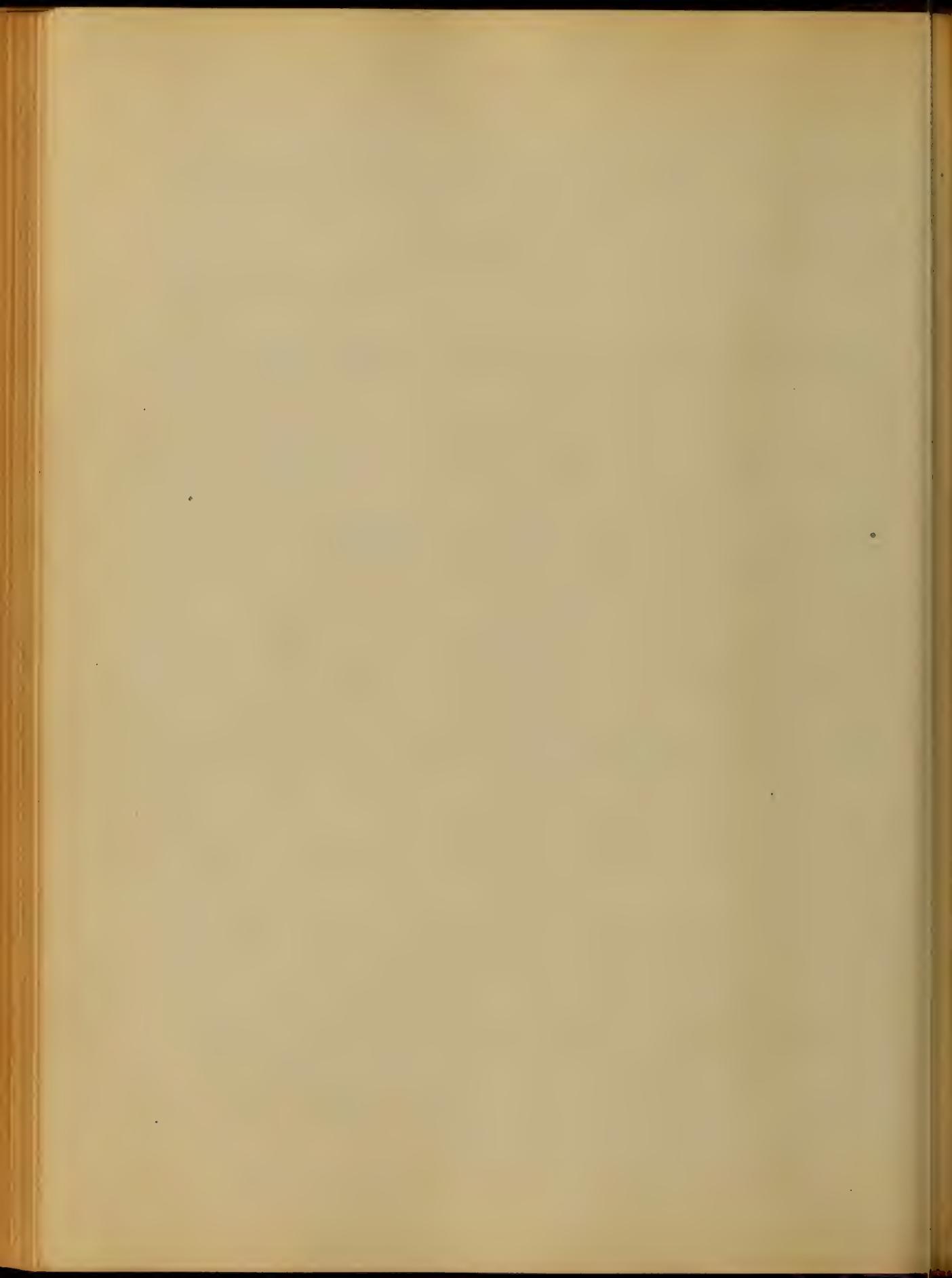
various disorders very accurately, we

feel the suffering exists as really as in the



injured should not receive a <sup>rest</sup> for their cases deserve  
the best medical attention and sympathy.

That the Circulation is a factor in pain upon the existence  
and character of pain we cannot doubt. The well  
nourished and the well nourished may have pain in certain  
conditions differing very much in degree and nature and  
widely remote from each other. The well  
nourished may have pain so that the state of the blood accounts for several  
of his symptoms. This is not to say that the  
Mr. Radcliffe thinks that Neuralgia must be associated  
with a disturbance of the circulation, though it has  
such character and seems to be nothing else. It is known  
by an accurate writer that the first  
of these chronic states that the majority of those affected  
with Neuralgia are of a feeble and excitable constitution  
with a circulation in feeble with such a little power  
that it is hard to find one that is excited like normal subjects.



of its manifestation, with that of the cold & dry air.  
The second one of his disease is a gouty rheumatism  
which visits him at intervals of about 6 months.  
Rheumatic fever, painings have suddenly struck with sudden  
recission and total remission, through taking  
ay, Salicornia and Sennaria. He has also a moderate  
Catarrh.

Without doubt he has a constitutional tendency  
to gout, - but it is now, or rather it is at present, too faint to  
recognize the first symptoms of the disease. The gouty  
stomach, I believe, is a result of the accumulation of acid  
uric, & the inflammatory action of the body, - but  
such a disease is not to be easily detected. In  
his son temporarily dead the sensibility of the skin & bone of  
these would be sufficient to tell the disease, but in  
the present case there is no such

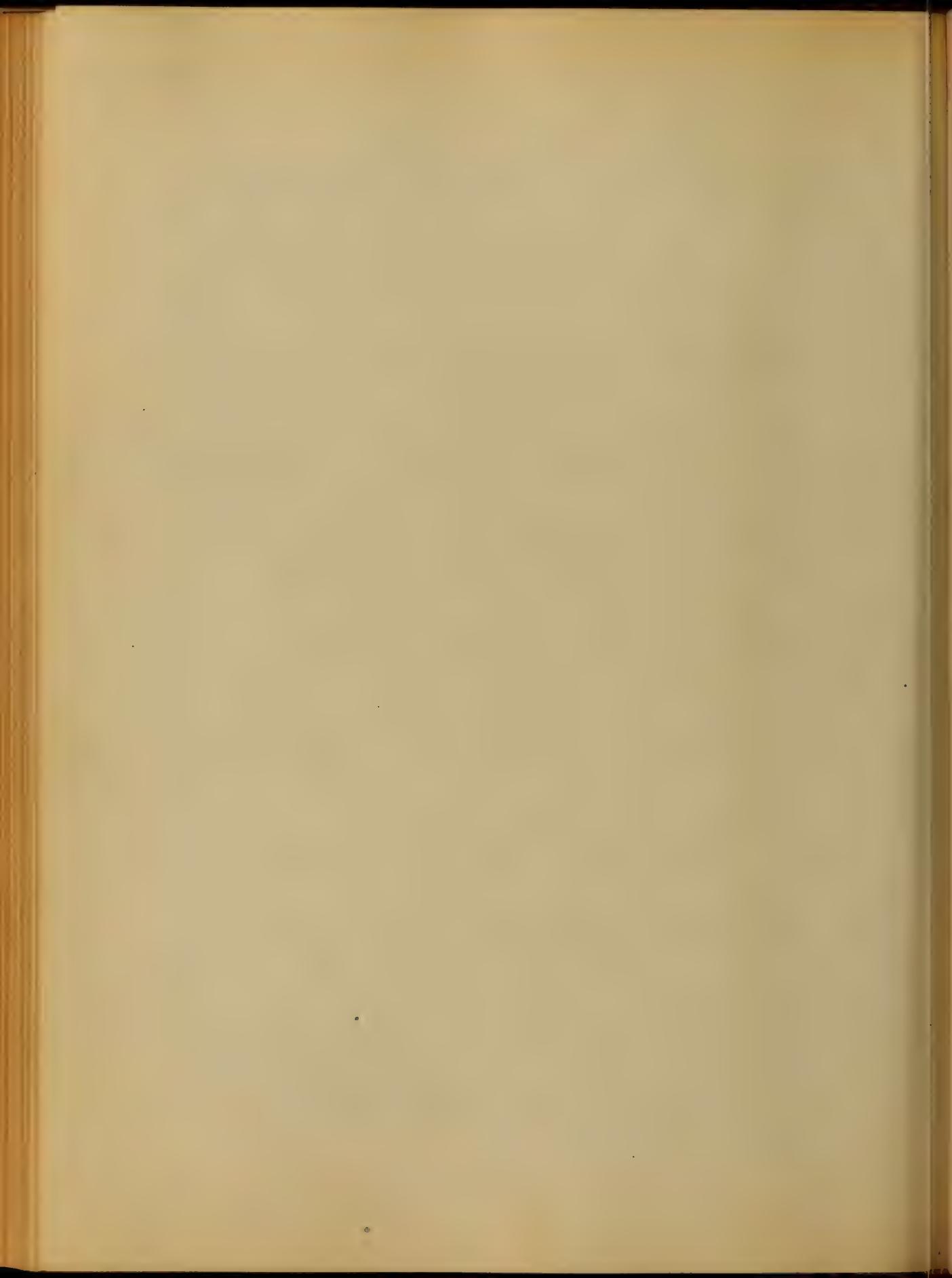
The following is a copy of a medical report of Dr. J. C. L. Smith, dated Decr. 1, 1838.



and antagonistic conditions of the body. In other words  
that in the early stages of disease there is no  
active Congestion or inflammation; in this we fully concur as  
we have already acknowledged. But when the disease  
is succeeded by pain it will be in the following case  
more common. His idea that though pain may occur  
sooner than increased inflammation without its being  
causing it we are in error in when such condition is  
established it is succeeded by redness, pain, swelling & heat  
malomatist after such condition of the body will demonstrate  
absence of pain, lesion, & all other symptoms. The  
true pain has existed he may not find any such.

In course of time we will find the cause of the disease  
and if that be local it will affect the part and not spread  
inflammation over a wide surface.

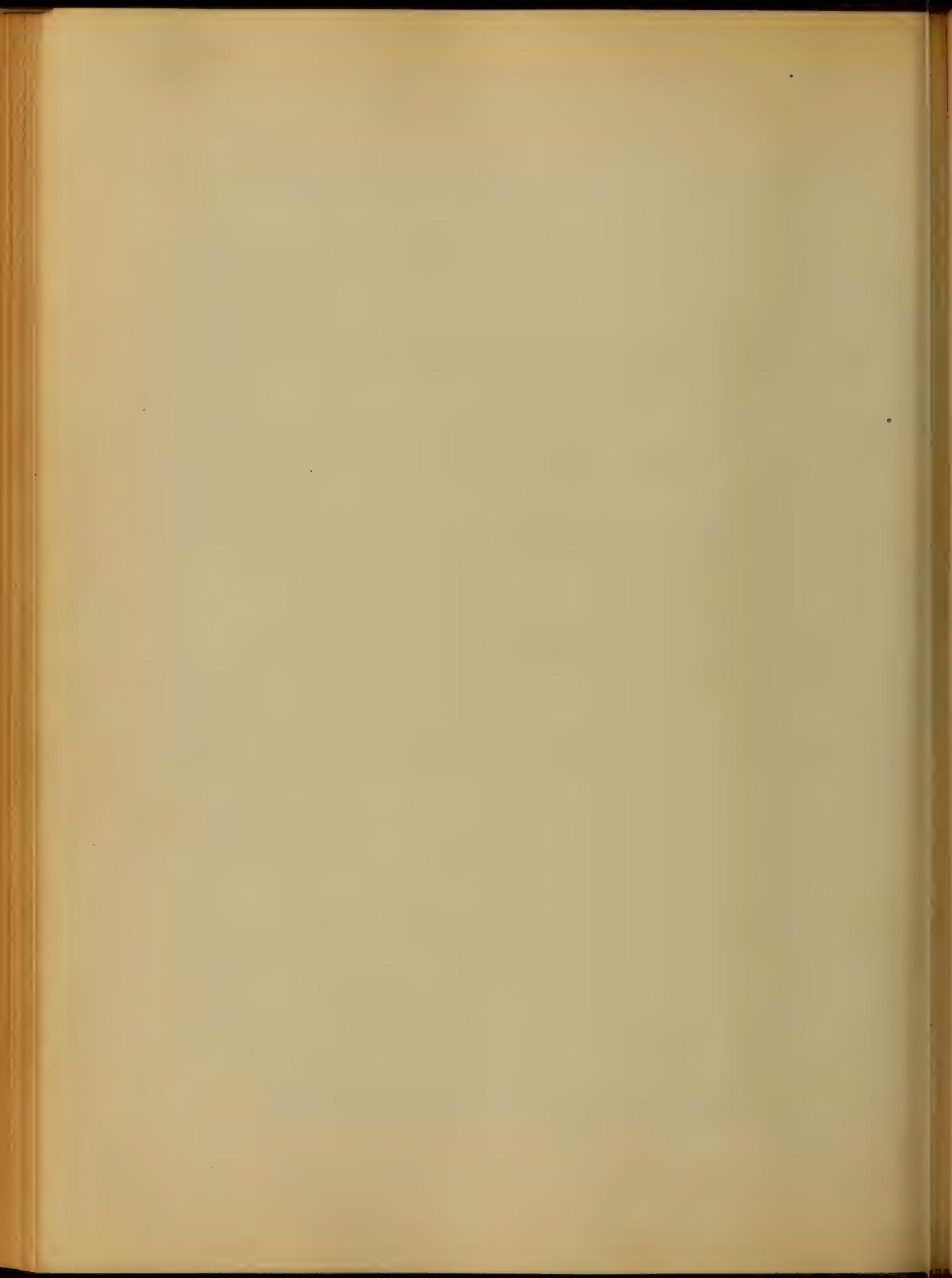
If there may be one of nervous irritation merely one  
in which the body is not affected by the disease



Prolongation or exacerbation of inflammation of the joints  
in the case here before us, is a common symptom, however  
what the cause of such condition may be, whether from  
insufficient nutrition or conversion of the joint, or  
of its various or possible causes.

Now whether the inflammatory excitement of the  
nervous system is a consequence or cause of the pain,  
which pain is the exponent I am not prepared to say,  
however I am rather inclined to think that it is a consequence,  
as we may have the pain without it, and when it (the  
inflammation) subserves, the pain disappears, to be succeeded by  
Tenderness.

I cannot however come to the sweeping conclusion  
of Mr Radcliffe that true pain should be seen  
always as an evidence of insufficiency or  
general and of defective action, and as  
of a contrary state of things.



and not all cases receive the same treatment. —  
indicates the increase or supply of such defective, vice, or  
deformity and conversely that of health, & it may be  
equally well to say that the state of the body is  
known by the presence or absence of disease, & that the  
body is healthy, & that it will make all the difference in the  
universal of our health.

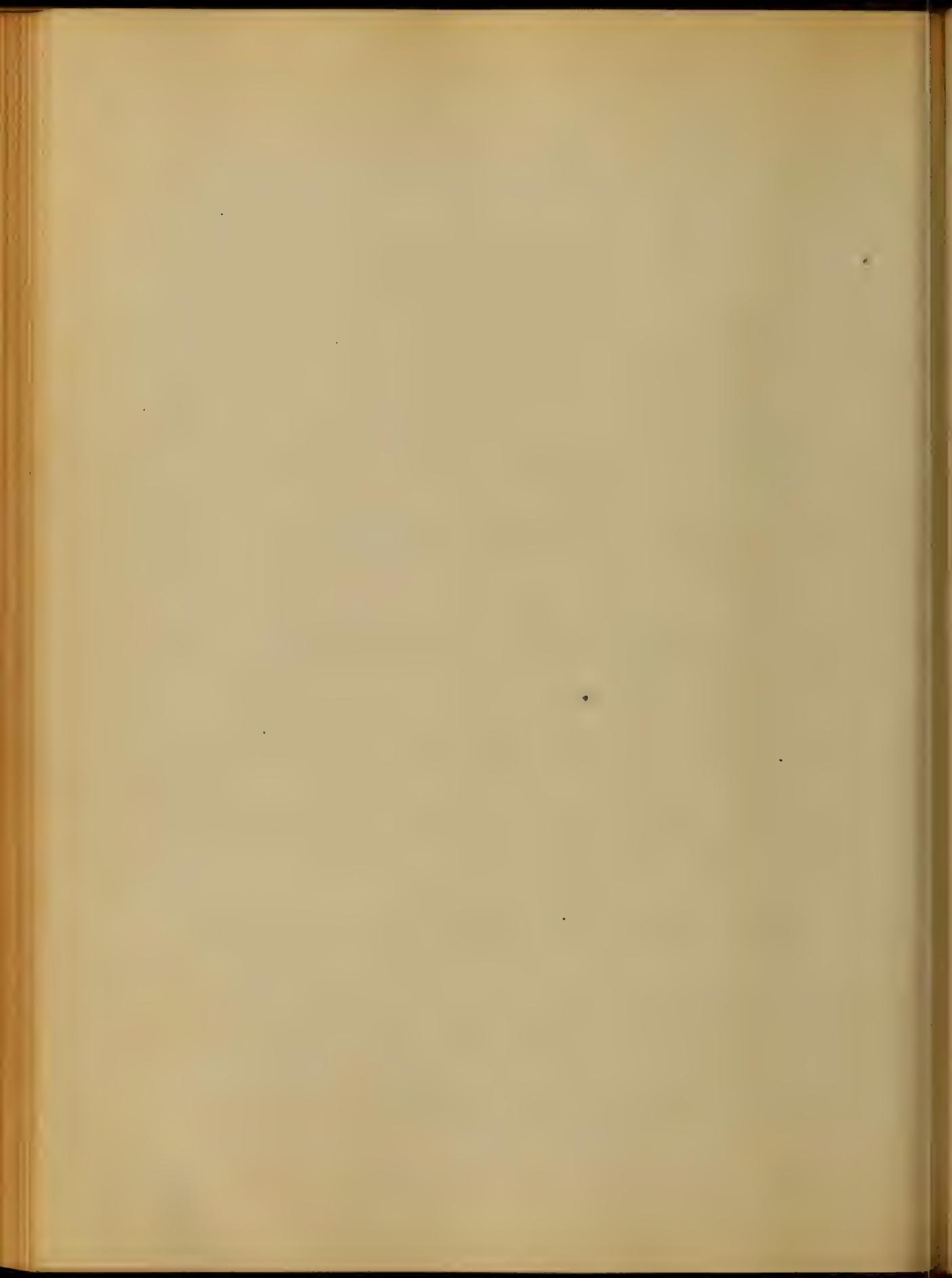
Pain in its localities and modes of action may give  
warning of disease, as above, but the local and general  
evidence of disease, at another, the beginning of or  
irritation may have long subsisted while the irritated or  
inflamed condition was unknown, & at its commencement  
and end at which time of course the local & general  
connections - or again it may exist in one locality  
perfectly sound and uninjured as the result of an injury  
in some remote part.

Exposure to cold and damp almost always produces



rush of excitement, cerebral or spinal, sleep or  
relex, action; emotion, passion, various conditions of  
the circulation with the eyes, and also if  
inverted sensation may result in pain.

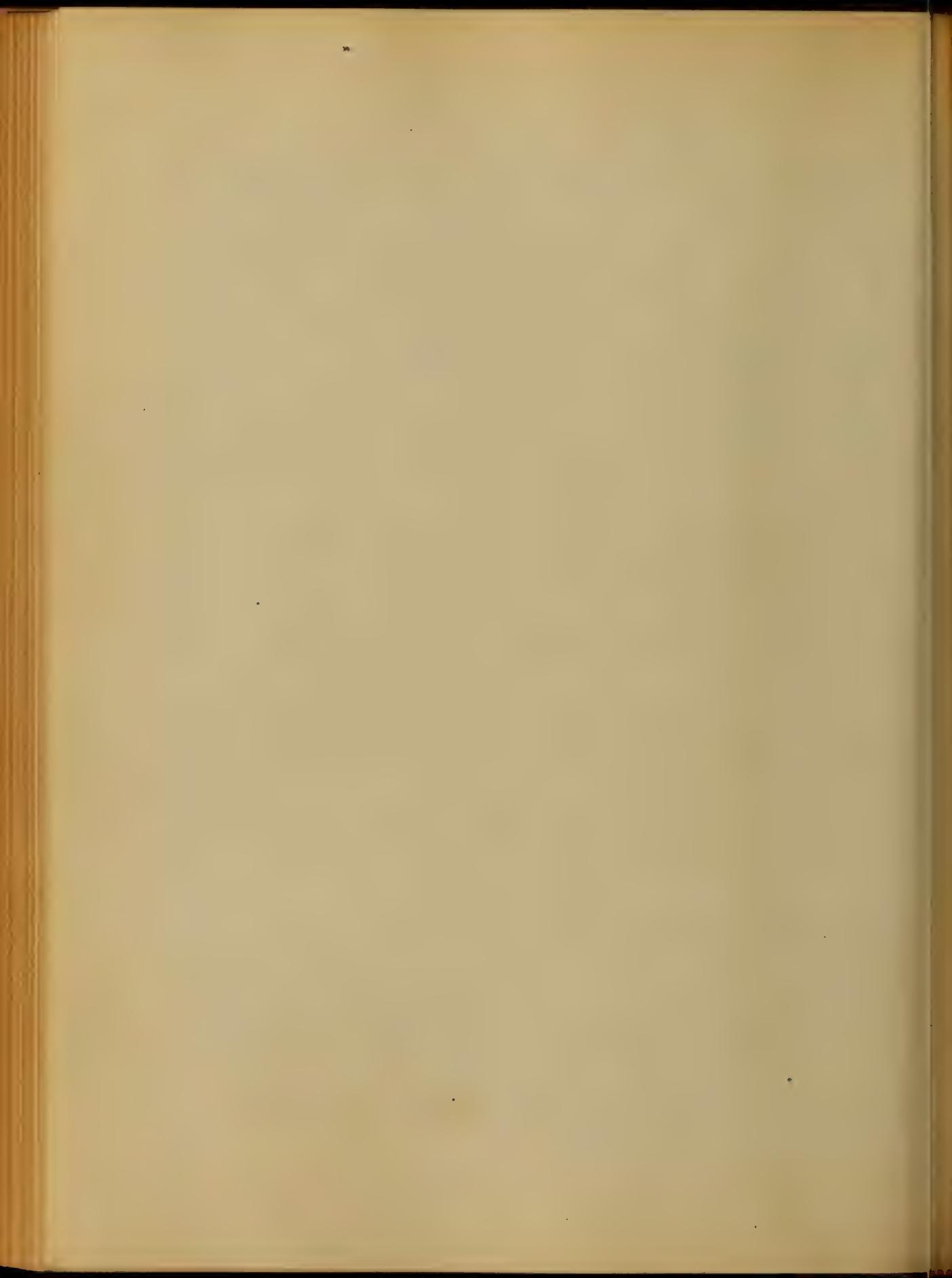
We find that the pressure of the blood in the  
face and all this force is sufficient to stop all the  
circulation and that - Now is there not here a conflict?  
One force is irresistible and may not easily control it  
for one minute. But then the question is -  
Do we know it is infinite force - force uncontrolled,  
that force is ~~overpowering~~ <sup>overpowerful</sup> force? I think  
it is not enough equality in force - a condition we desire.  
I think that force is irresistible in the face of the body  
with the head off the body, and the body off the head,  
knows always when this force then emanation is followed by  
pain. I know also that when the blood is poor, and the  
circulation is weak, probably slight, then the



his voice not being supplied there plain cases which still  
exist among the slaves, especially among the Negroes  
where we see arrest & secretions and the accumulation of  
mucus and mucus matter in the system.

In Syphilis, Rheumatism, Gout, &c. &c. we may find  
other causes which affect without peculiarity, but then  
depends upon some noxious principle in the blood or  
upon those - and those are not to be trifled with -  
deranging the nutrition of nerve tissue, deranging the  
various functions of the system and thus may allow either  
an accumulation of waste material, or waste of it.

The sensation of pain caused by a trifling lesion  
made upon the nervous system and conveyed to the Nervous  
commissum, which by the way is not confined to any  
particular part of the body, is recognized on  
the intellectual faculties, and the facilities of the  
mind, in an intellectual sense, which is called



and recognize as pain would scarcely exist, though if we  
should judge ~~sight~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~ ~~that~~  
seem to be what we might call unconscious sensation or  
pain.

It is a general rule the less the intellect the smaller the capacity  
for appreciation of pain - It is not the soft intellect  
in the infant which causes the indifference to pain,  
of suffering, and persons whose faculties have been blunted  
Ether or Chloroform undergo the most serious operations  
without any or at least much pain as far as we can judge.  
We need not be afraid of life of creation and the sufferings  
we see in our examination the less the intellect the less  
pain do we find. Even under the severest operations

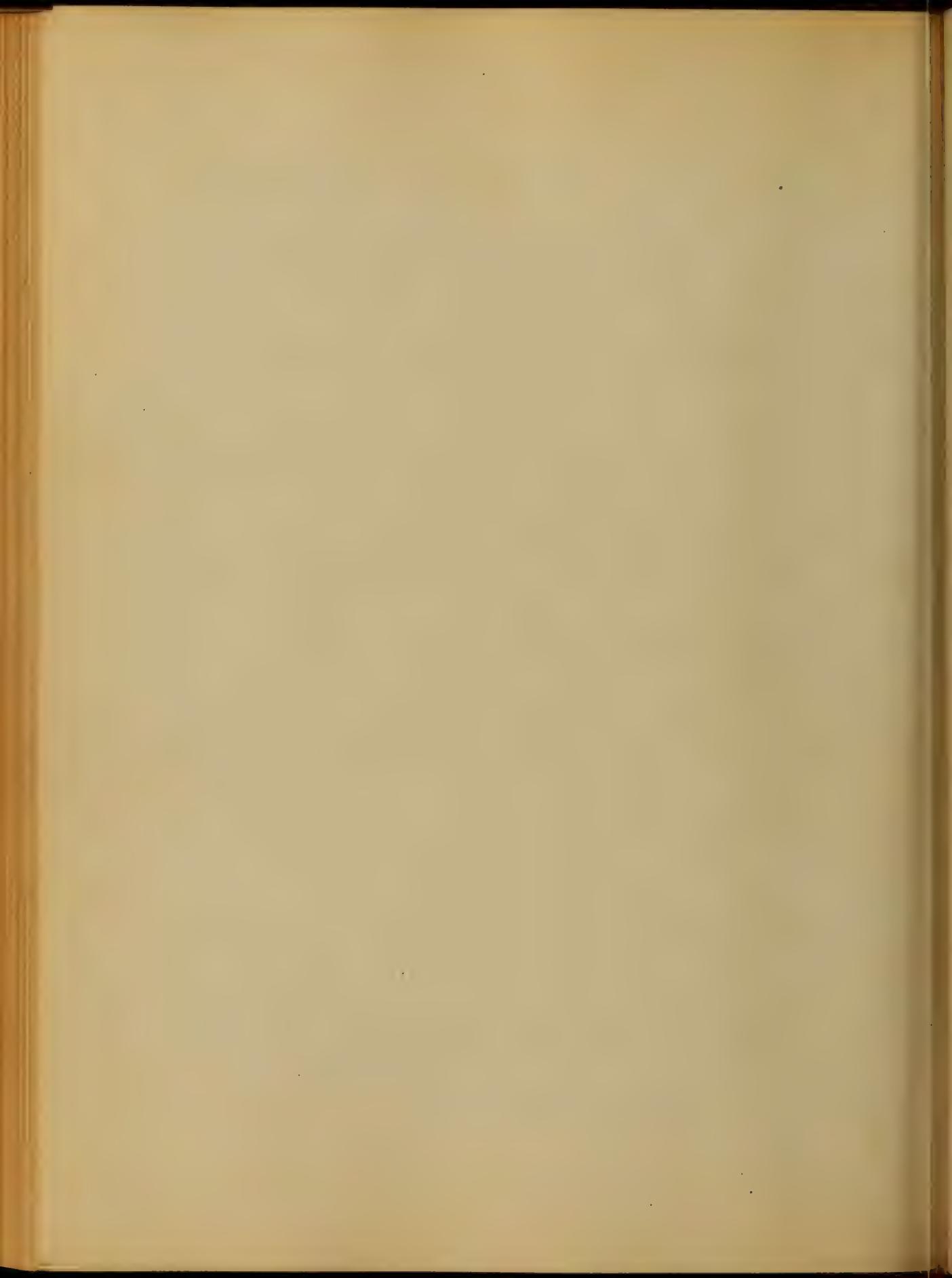
The mind has the power of increasing  
or decreasing its power of endurance and different perceptibility and sooth  
it, for I myself have often seen one man who was willing  
to bear pain from an operation till he could not stand



you will have followed along with me, &  
I will say no more about it. Please go on to  
the other side of the page & write something  
as to susceptibility, and this difference helps to make our  
individuality.

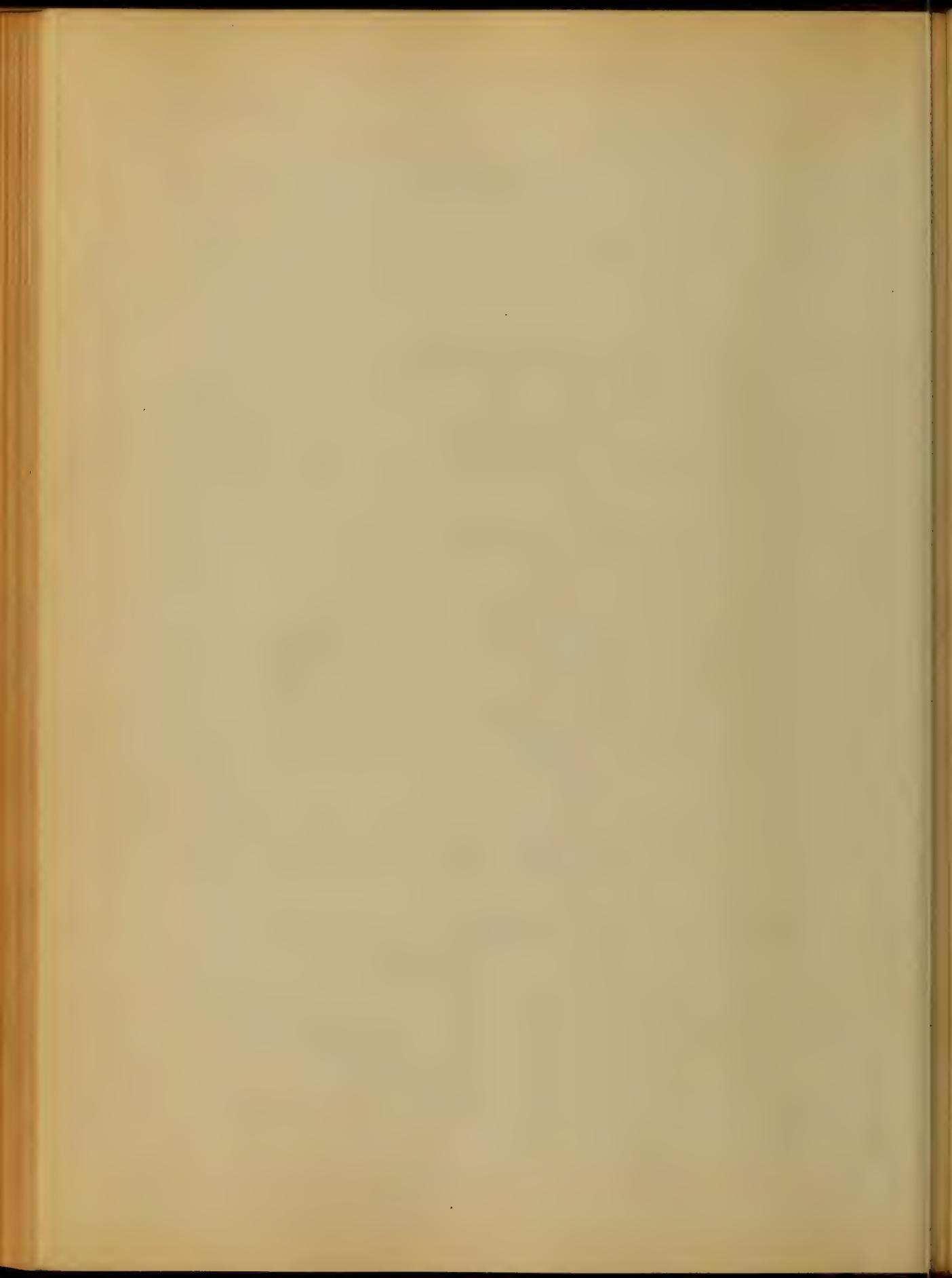
A man may suffer more at one time than at another, or  
more easily than to a certain degree, but  
which when first encountered seems fatal, & after  
overcome, although it may be long before we are aware of it,  
our being, that such is the case, and that we are so  
constituted as to be able to bear what would  
otherwise be intolerable -

The most violent man  
is the most sensitive  
and mental being who is high health.  
Injuries of the body & mind are  
slight injury.



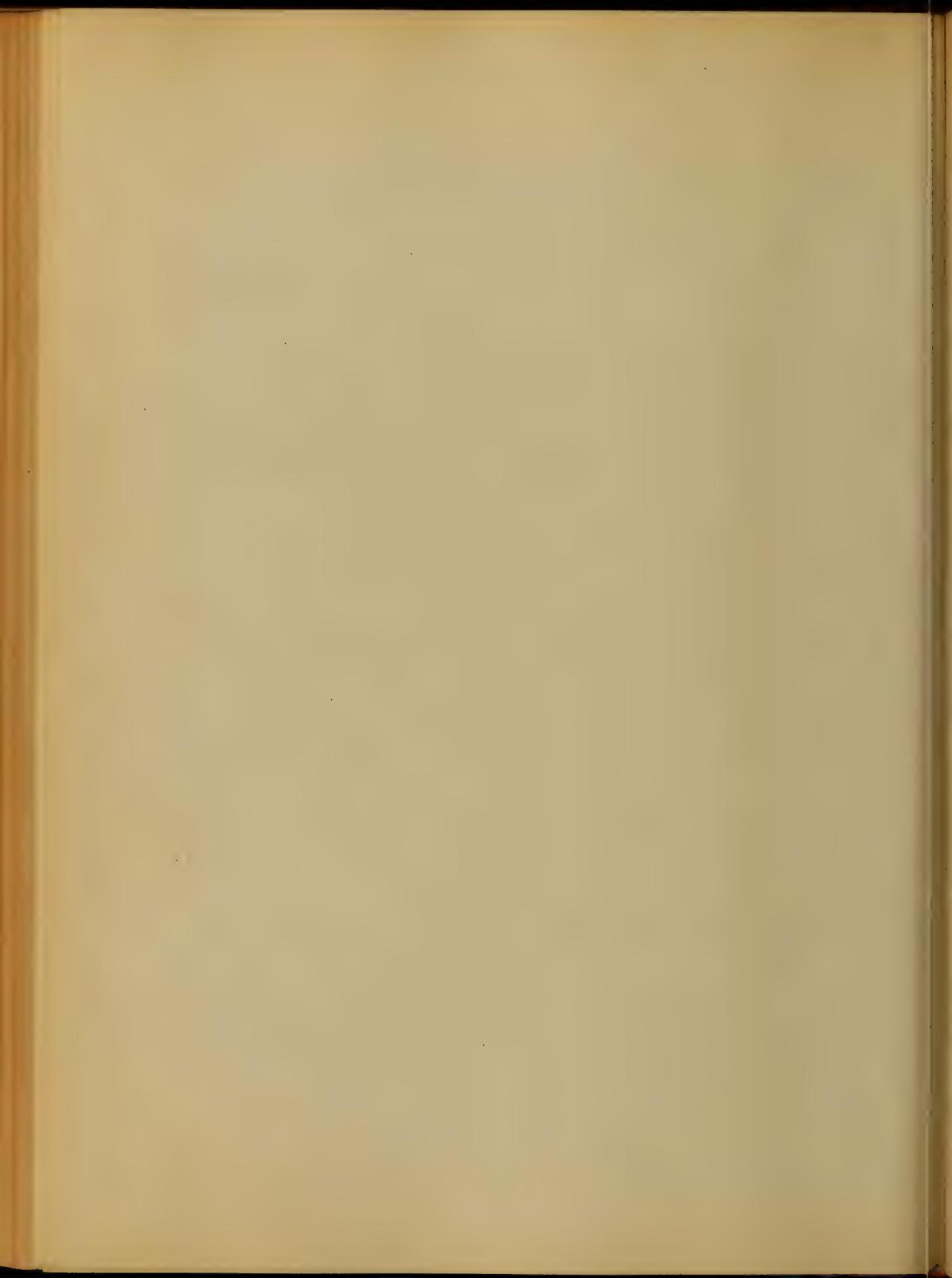
Possibly, in the locality of pain may modify  
and affect its character, as we know how the pain of  
one affection of the body, affects the pain of  
a like or similar affection in another organ - in  
curving, bending, stretching &c. &c. &c. There  
is a shade of difference according to the nature of the lesion  
involved - Is this difference of kind or degree? - in what  
degree I fancy.

The character and degree of pain cannot always be  
taken as an evidence of the severity of a disorder -  
frequently we have severe pain without any other  
symptom except a slight tenderness, or perhaps a slight  
swelling, or perhaps nothing at all - It  
is not the very spine of trouble and uneasiness, given  
from its own seat, as far as could be seen, a good  
indication of disease not in the knee joint of the left  
ankle.



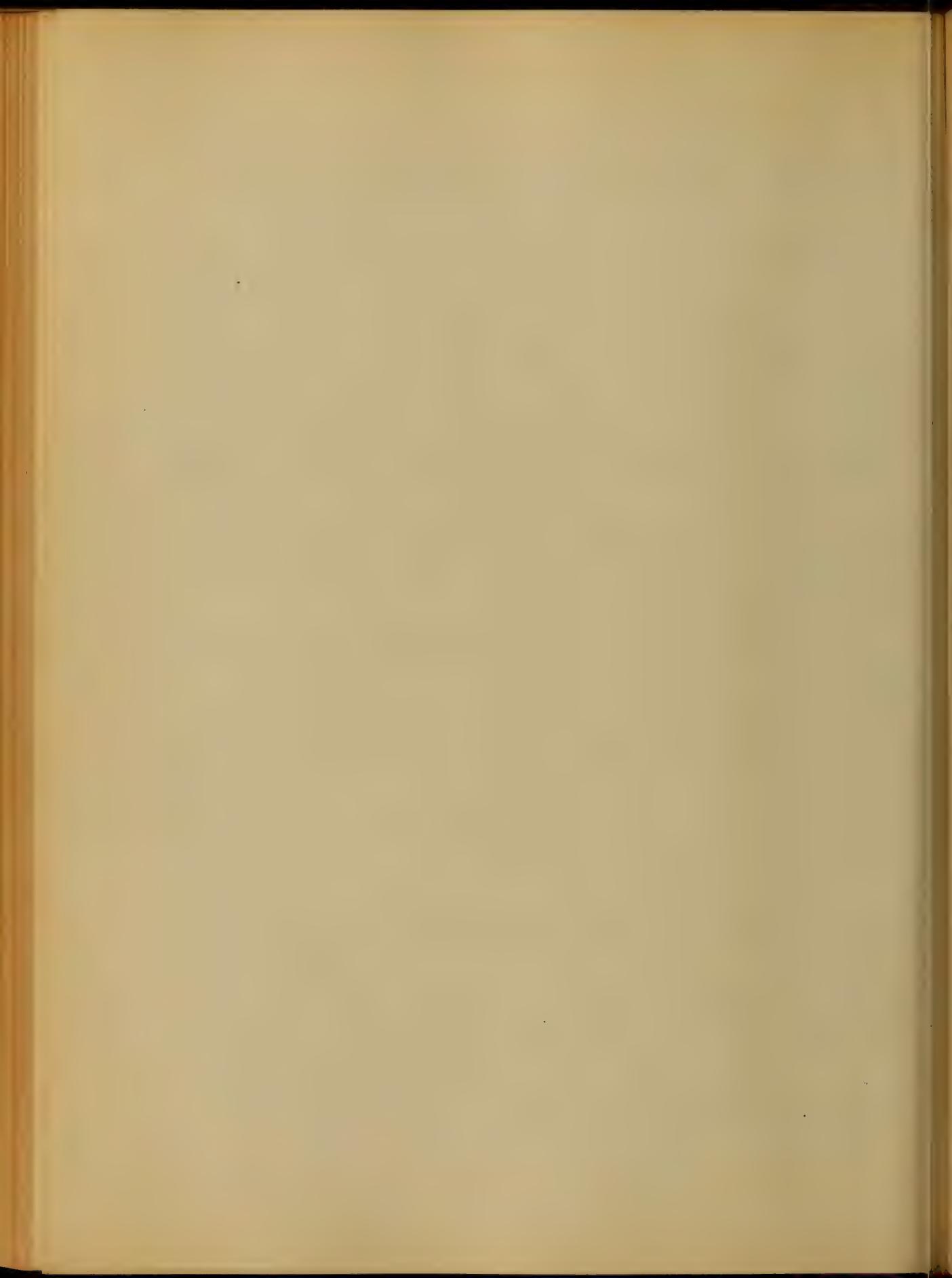
In severe accidents one great source of danger to the infirm stock will be a combination of nervous force and a state of collapse - at times a temporary condition and violent convulsions. These do not last for a long time and if they do, it is due to the injury of the spinal cord or the brain - the latter being a rare cause of collapse in stock - the former is, however, more common. In cases of collapse the condition continue and if there has been extensive injury of the brain or spinal cord there will be loss of the power of voluntary motion in the injured part.

The treatment of such cases is difficult and generally hopeless. Here we must be grateful that we have at our command the approach of disease or injury which might otherwise result in a painful death, will often be successful in the sensitive stomach and of the other organs of the individual.



When we lose this natural sensitiveness, disease may make great advances without being perceived. And in some instances the natural sensitiveness has ensued - not so much from the traumatic injury which caused the original disorder, as from the large bedore formed unperceived by the sufferer and his physician, which caused the disease.

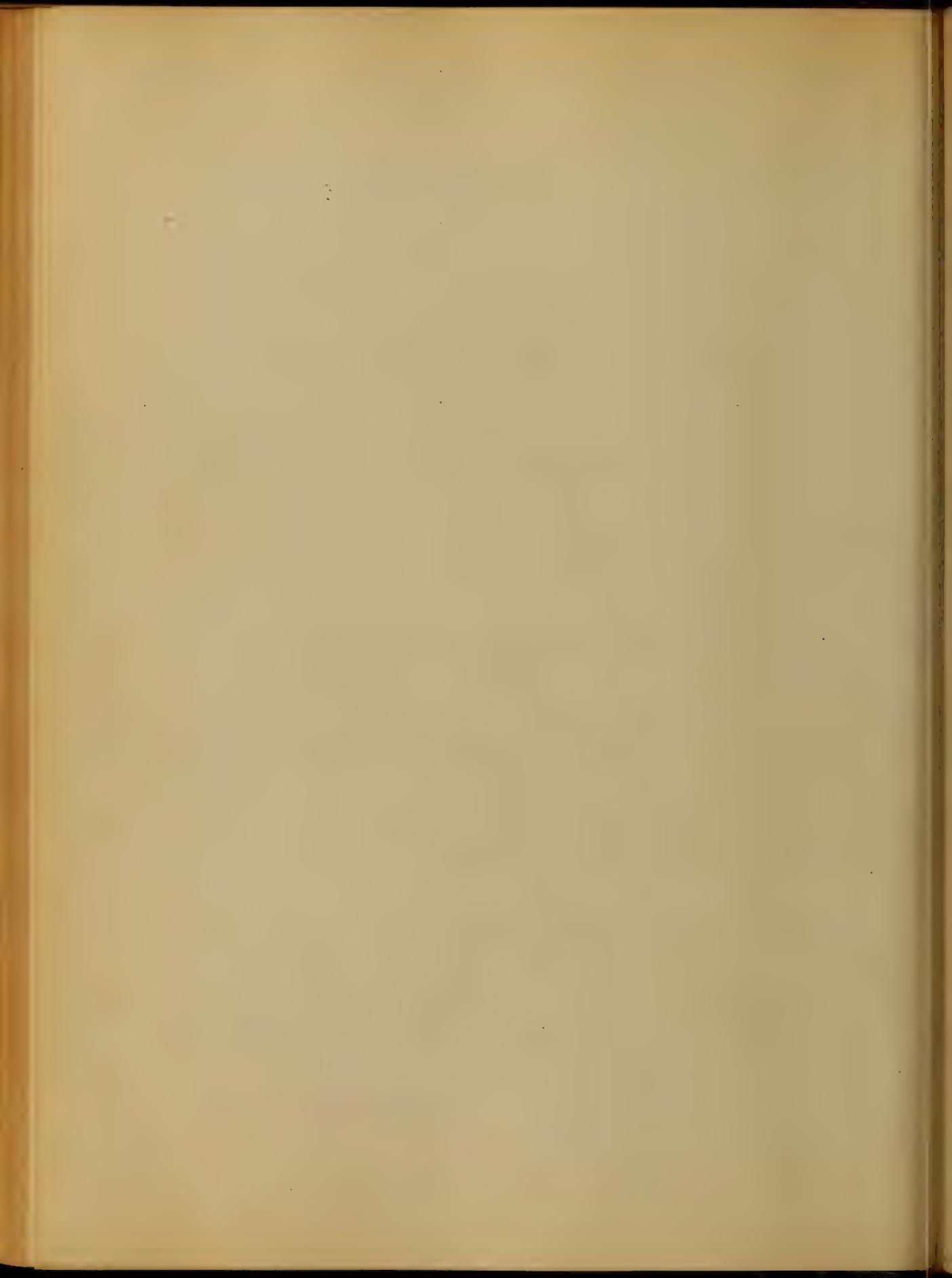
I shall not in this paper attempt to vindicate the natural sensitiveness of the human frame, the pain of which I have written - The good old "Principle of Pain" is an excellent one, but there is a condition existing which cannot always be fulfilled in "Find the cause", now both medical and moral science are unable to do this to be done, but unfortunately there are many cases where the cause of the disease is unknown.



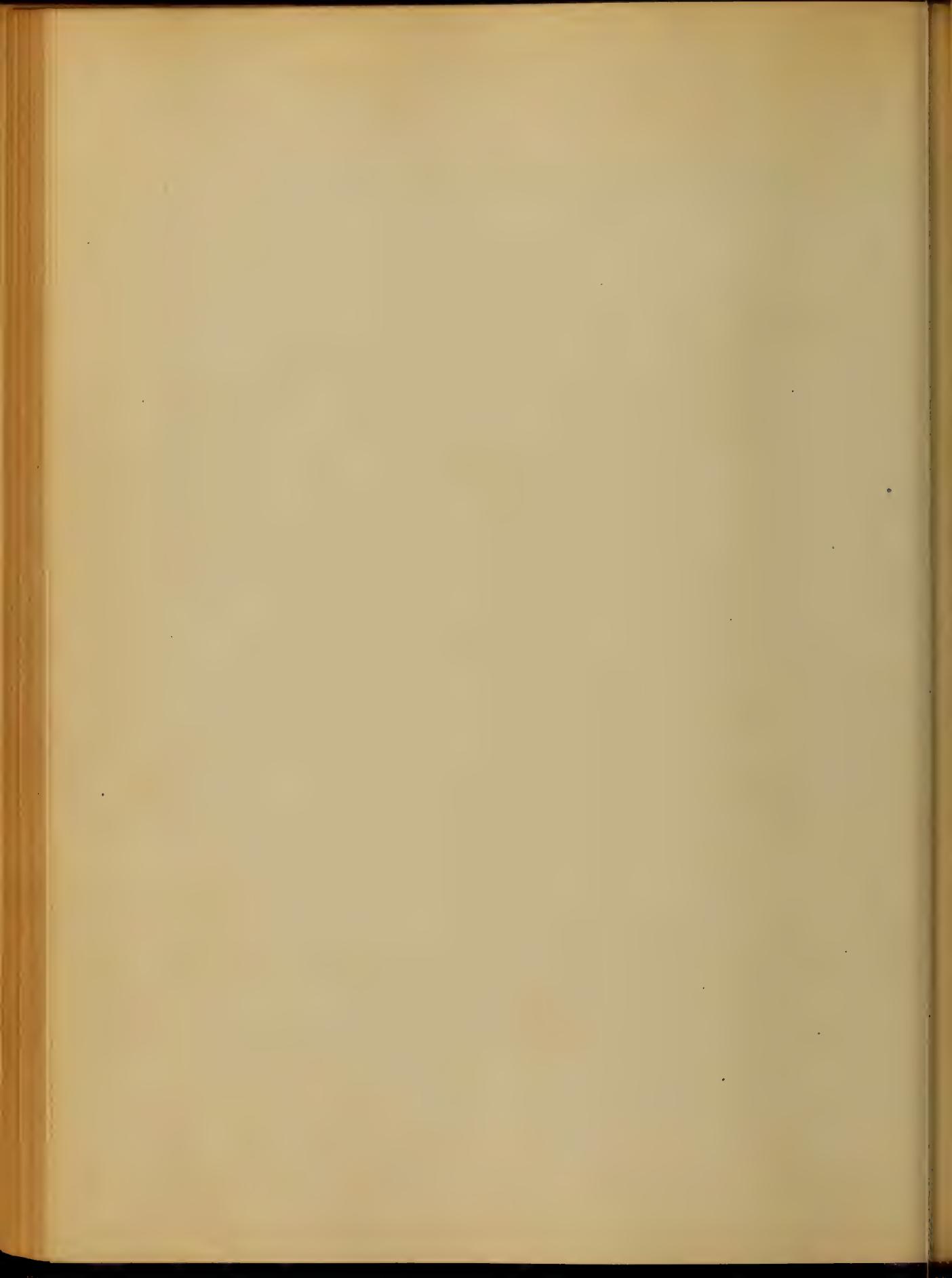
except in the same Else Medicine would  
become a certain art.

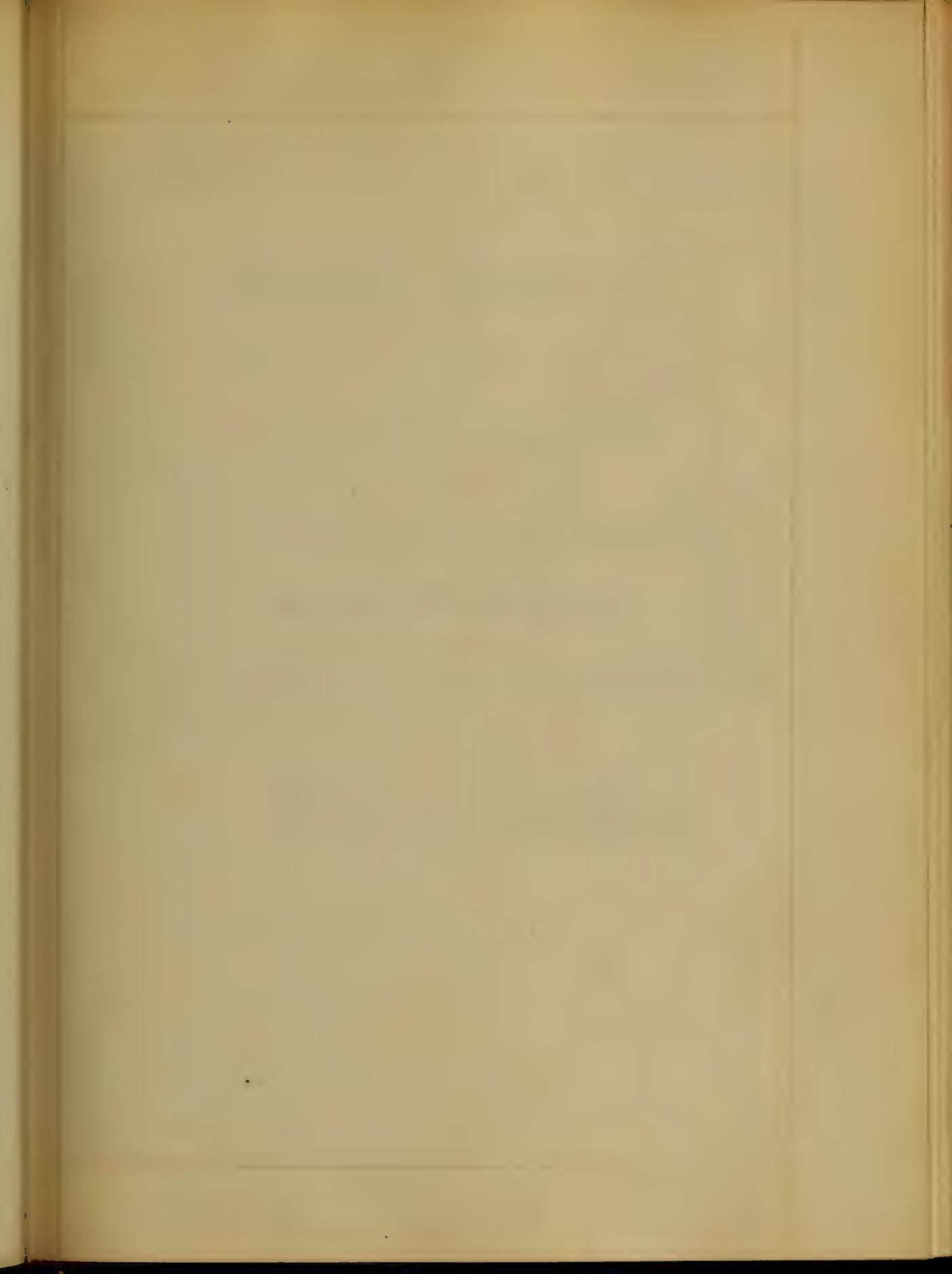
If we ascertain the cause, of course we can then  
act more intelligently and effectually than we can  
otherwise ie which to do, but we often very frequently  
mistake cause for consequence, and consequence for  
Cause.

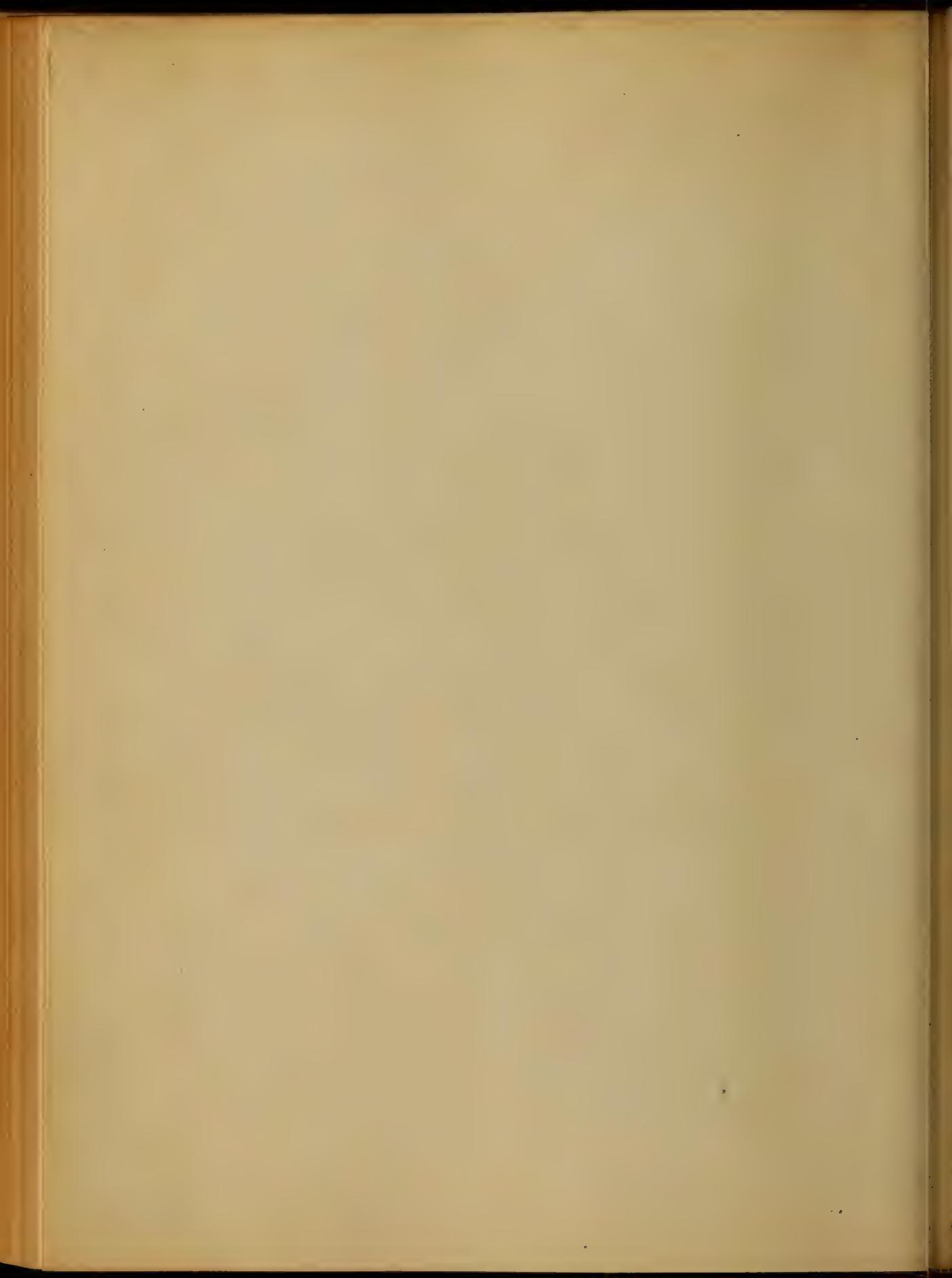
As a general rule of conduct would be to go  
to the ~~physician~~ <sup>surgeon</sup> ~~physician~~ & if he does not know  
how we would use Heat, Liniment, Ointment,  
& poultice, Water & Hemlock, Saltpetre, Gun-  
powder, Irritants, Electricity or Blood letting - or in short I  
would resort to every measure the nature of the case  
would demand or if we were ~~physician~~ <sup>surgeon</sup> ~~physician~~ <sup>surgeon</sup> would  
not be sufficient in my opinion to cure a man of either  
either of the Sanguineous or Broupous scirr or of the other  
extreme of Neop. Vodol and Boen.



Universal Foundation for All Knowledge







AN  
**Inaugural Dissertation**

ON

Submitted to the Examination

OF THE

Provost, Regents and Faculty

OF

**PHYSIC,**

OF THE

**UNIVERSITY OF MARYLAND,**

FOR THE DEGREE OF

**DOCTOR OF MEDICINE,**

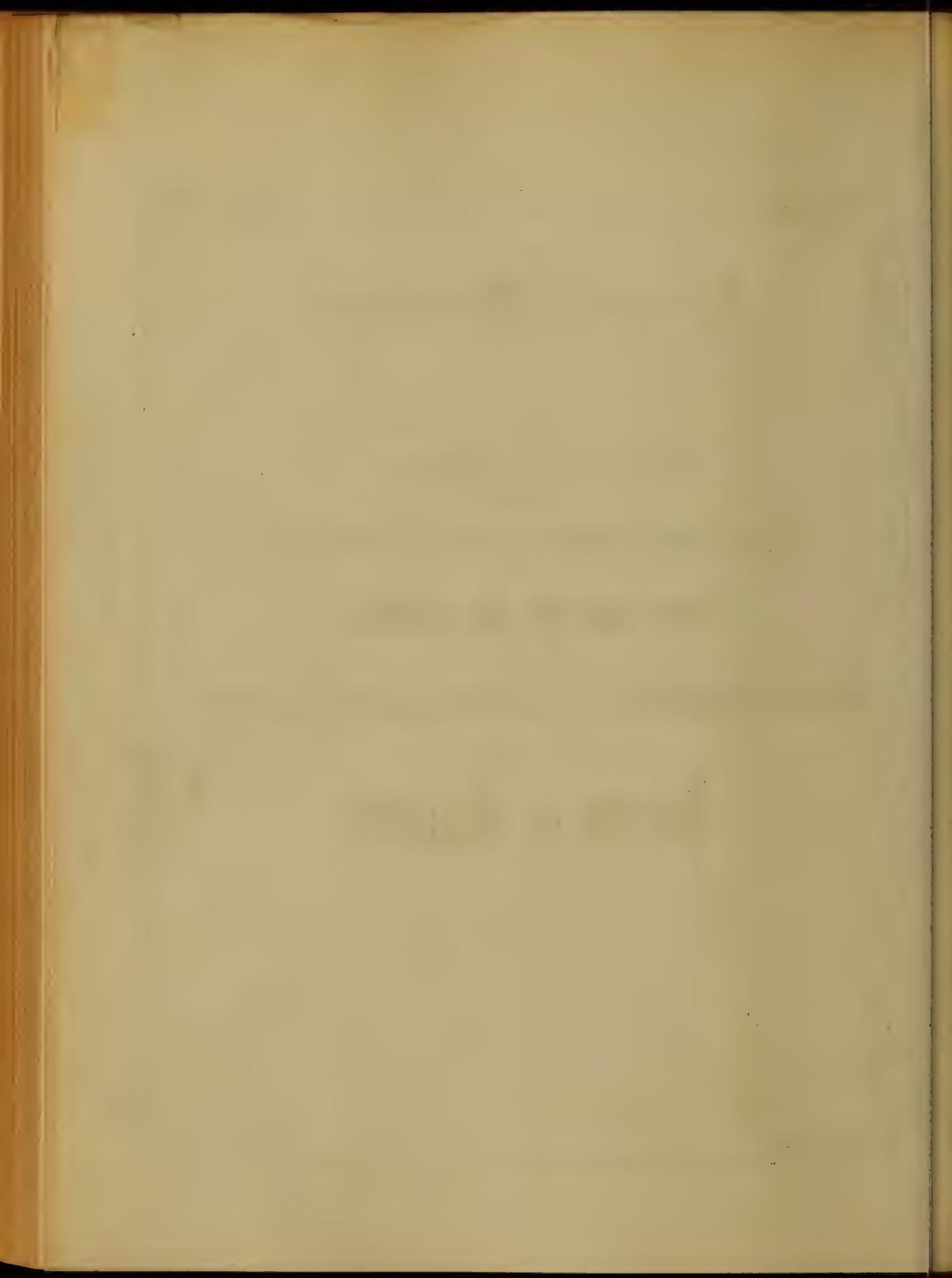
By

of

Session of

18

18



## Population of

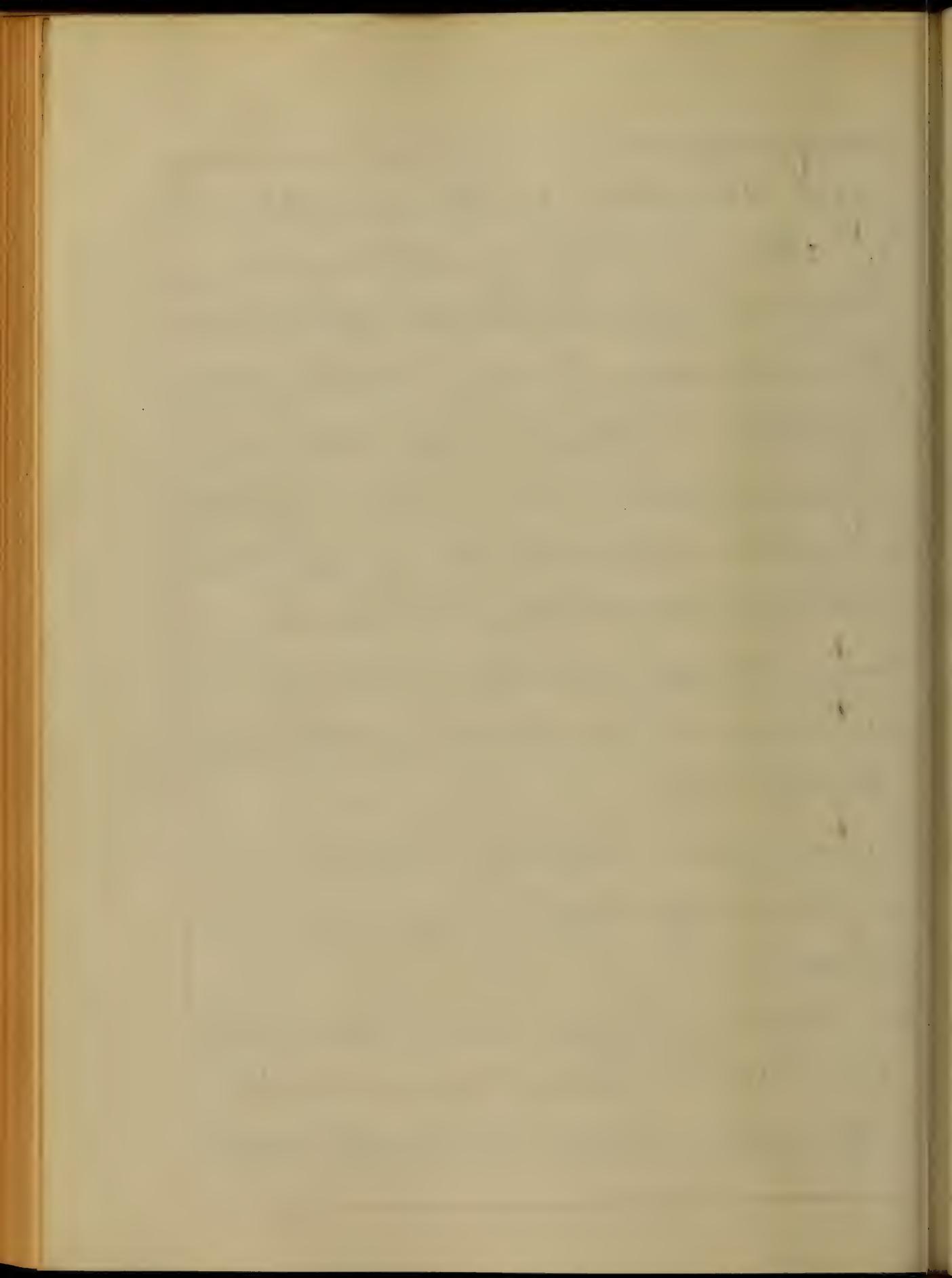
The time of the inundation of the  
land did not allow to make a more  
accurate calculation. I did continue to  
gather and to take notes until  
the inundation which did not last  
more than two months. The land  
continued inundated.

## Population of the village.

Population of the village of Gouyane  
inhabitants.

What they were caused to do all go to  
Ville Fort, instead of living in their  
own houses.

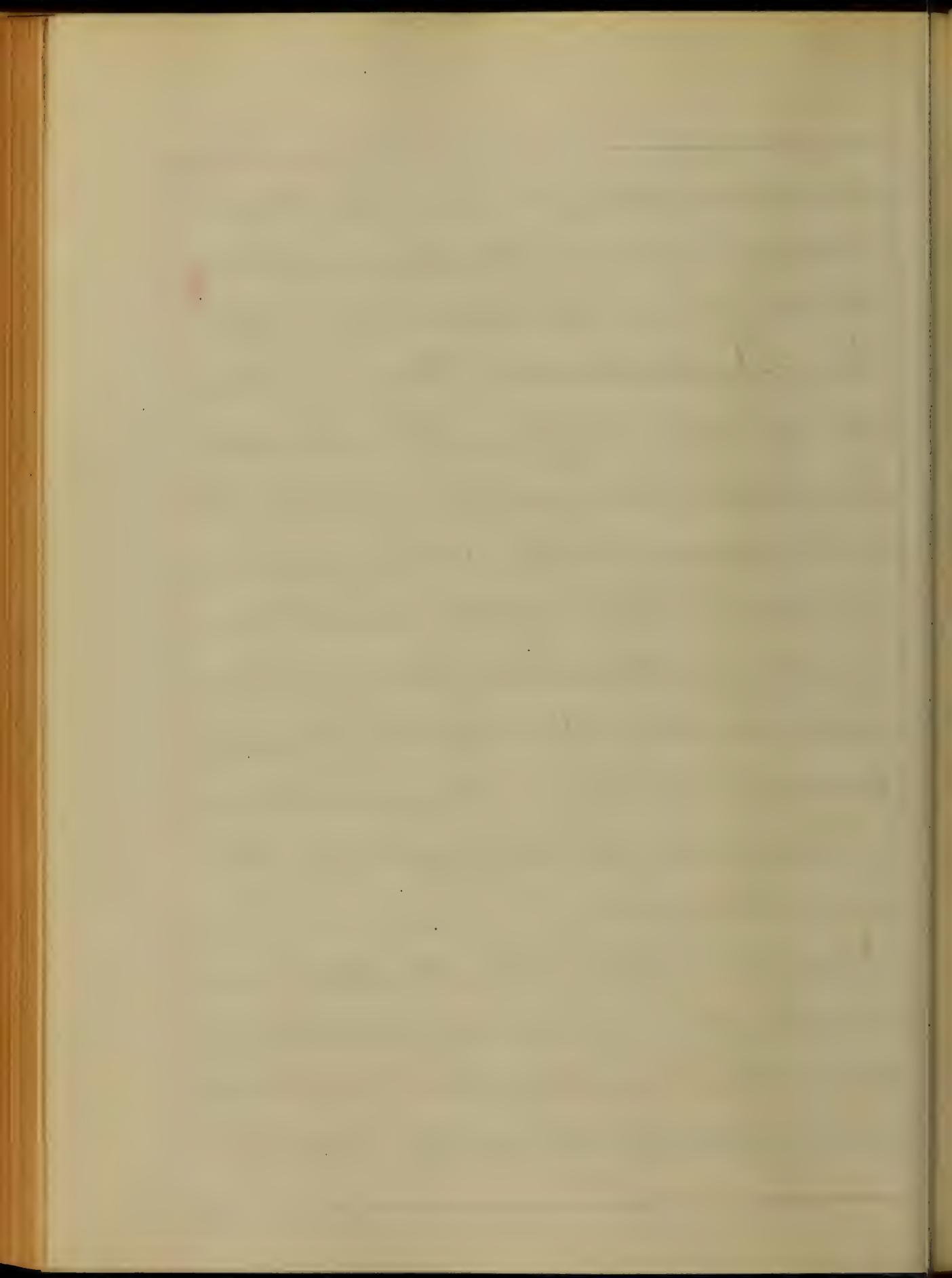
at the time of the inundation,  
which kept them away from  
their village for a long time.



We included Park and son, that went  
with Fair issued. We therefore stated  
that the arteries contained blood only.

In the Boston Hospital there was an  
abused, when Andrews Dr. was after  
it, satisfied himself of the correctness  
of his assumed arteriovenous intercon-  
nection, that the siphon was not con-  
nected, and the second year he was  
overlooked at the Boston Hospital, and  
dismissed alone (he asserted it).  
Andrews Dr. however, in 1851,  
wrote me again.

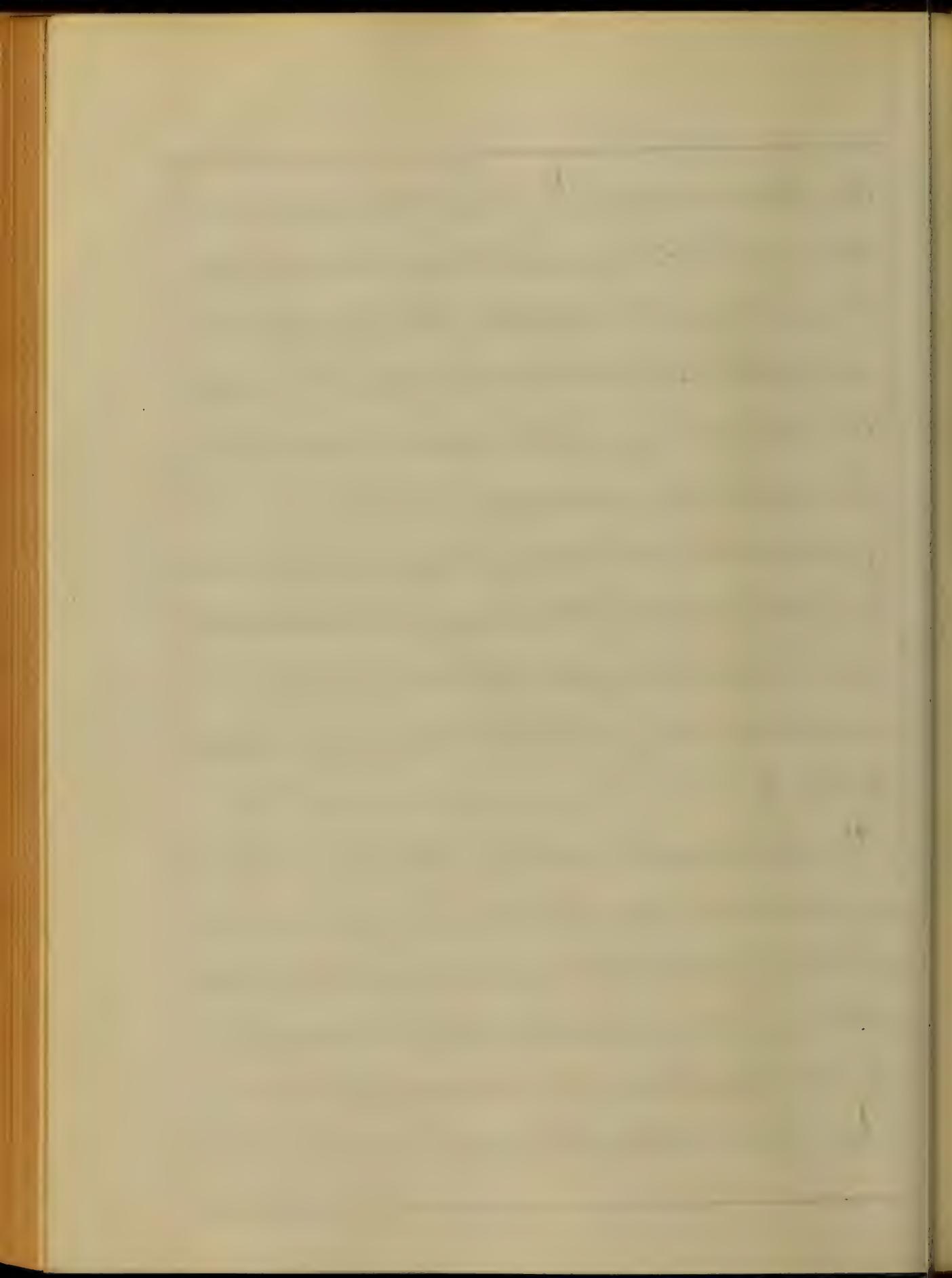
The following year, 1852, he died. He  
was not examined, but they remained  
separate and invisible. I thought  
and I could not understand



the Committee would be glad to receive your  
opinion for printing or not, it seems to us  
that such a book like this would be useful to a  
few, though it will not be of interest to all.  
But the Committee & the circulation of the  
book must be regarded favorably.

Please advise us of any information you  
have respecting the character of the circulation  
and I shall forward you a copy of  
a letter from a friend who has written  
and tested.

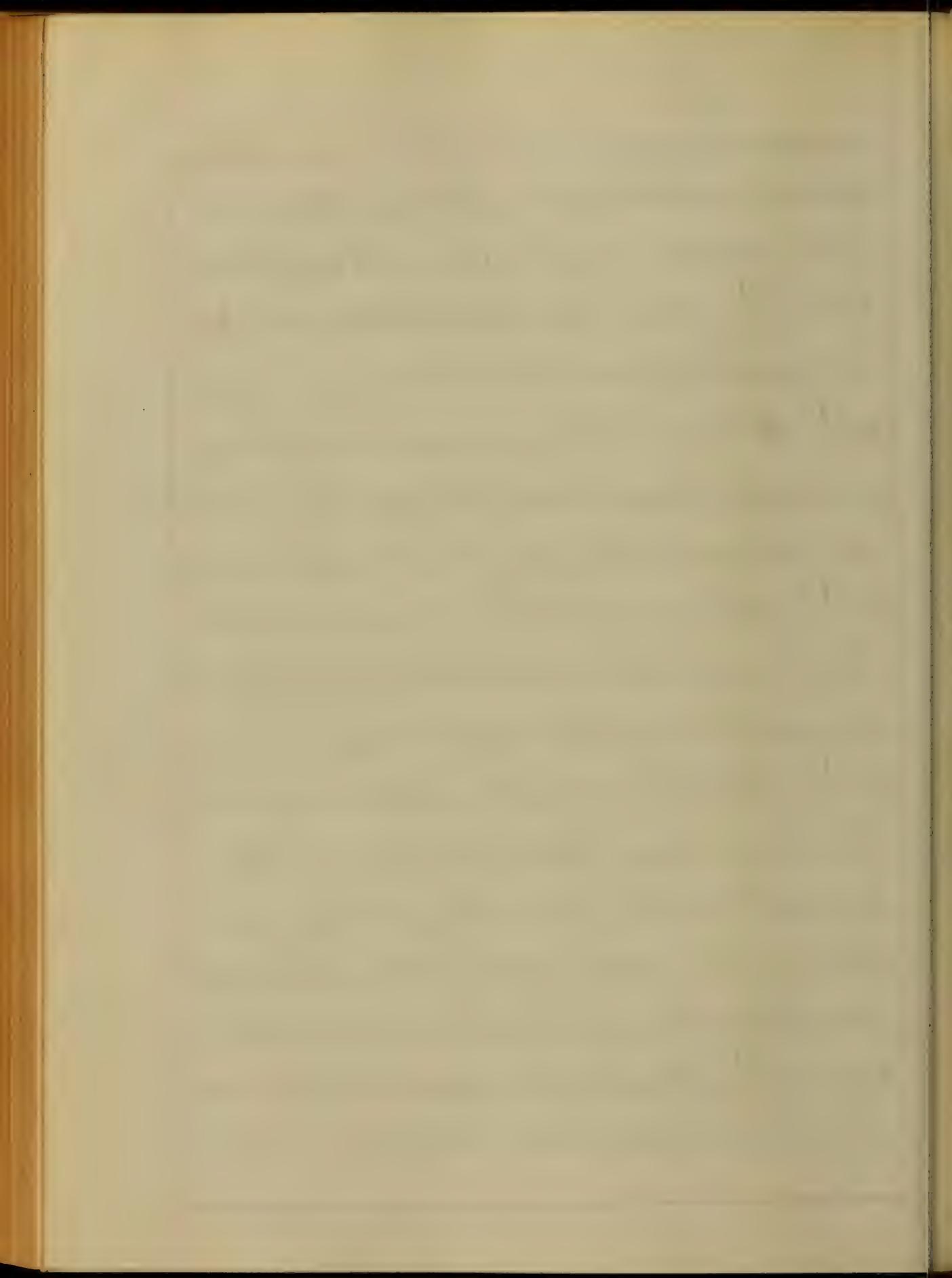
The book will consist in the following:  
After introduction and preface,  
all the ingredients necessary for the formula  
of the wine and how to mix them into  
the composition of the wine and  
the method of making it.



Reverend Mr. Stetson said to me  
with a smile & evident contempt for his  
position, "I consider this to be a higher  
sphere of difficulty, Mr. —.

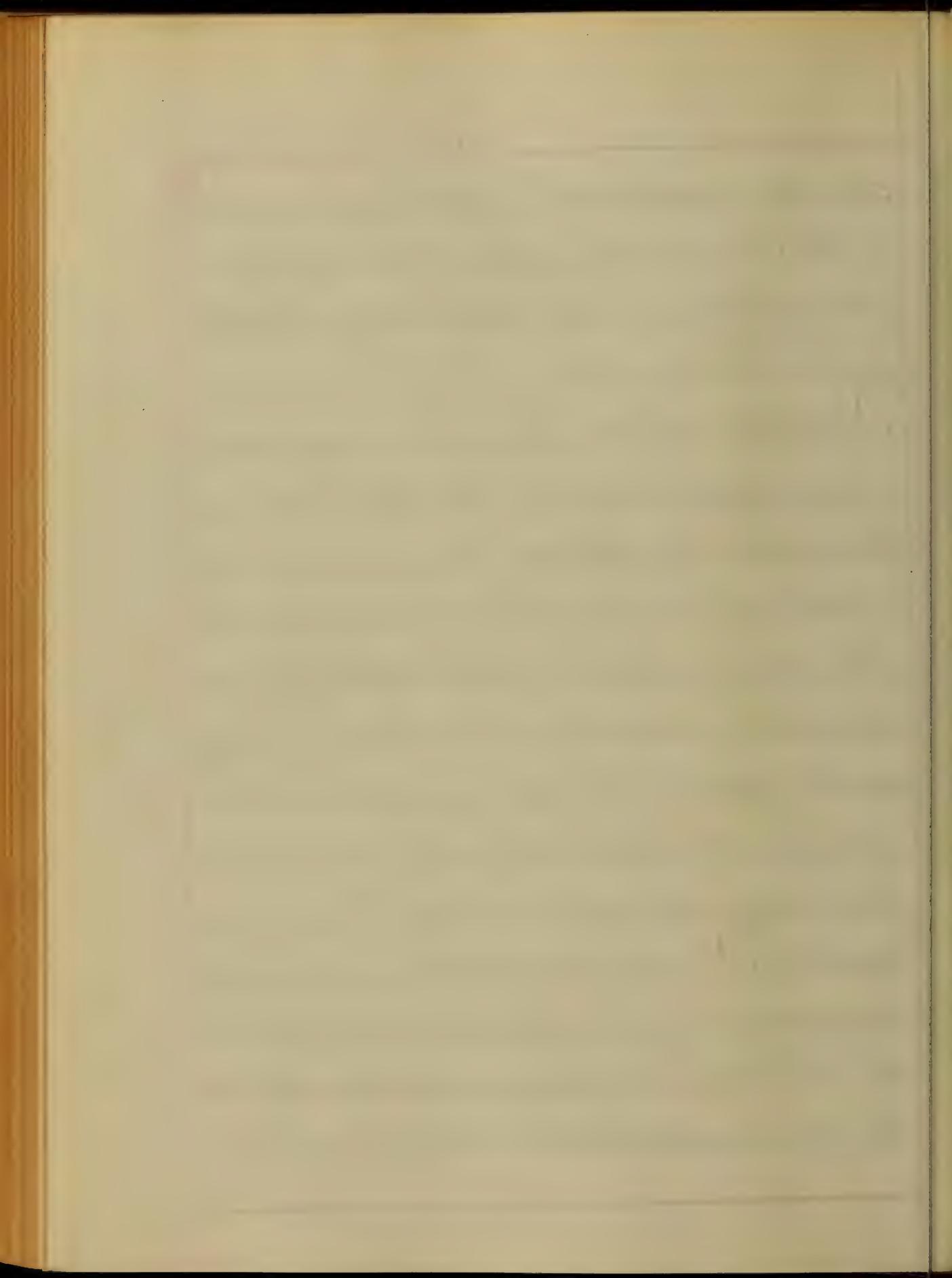
The Plaintiff's contention is  
as follows: That when the  
defendant, in the month of November,  
at the age of 21 years, and had been  
enrolled in the service, he was  
the most courageous soldier in the Army.

The defendant, notwithstanding a  
knee and leg injury, was able to ride  
perfectly well, and his superior  
valour and courage enabled him to  
surmount a thousand difficulties.  
When the Plaintiff was sent to the  
front, he was the only one of the

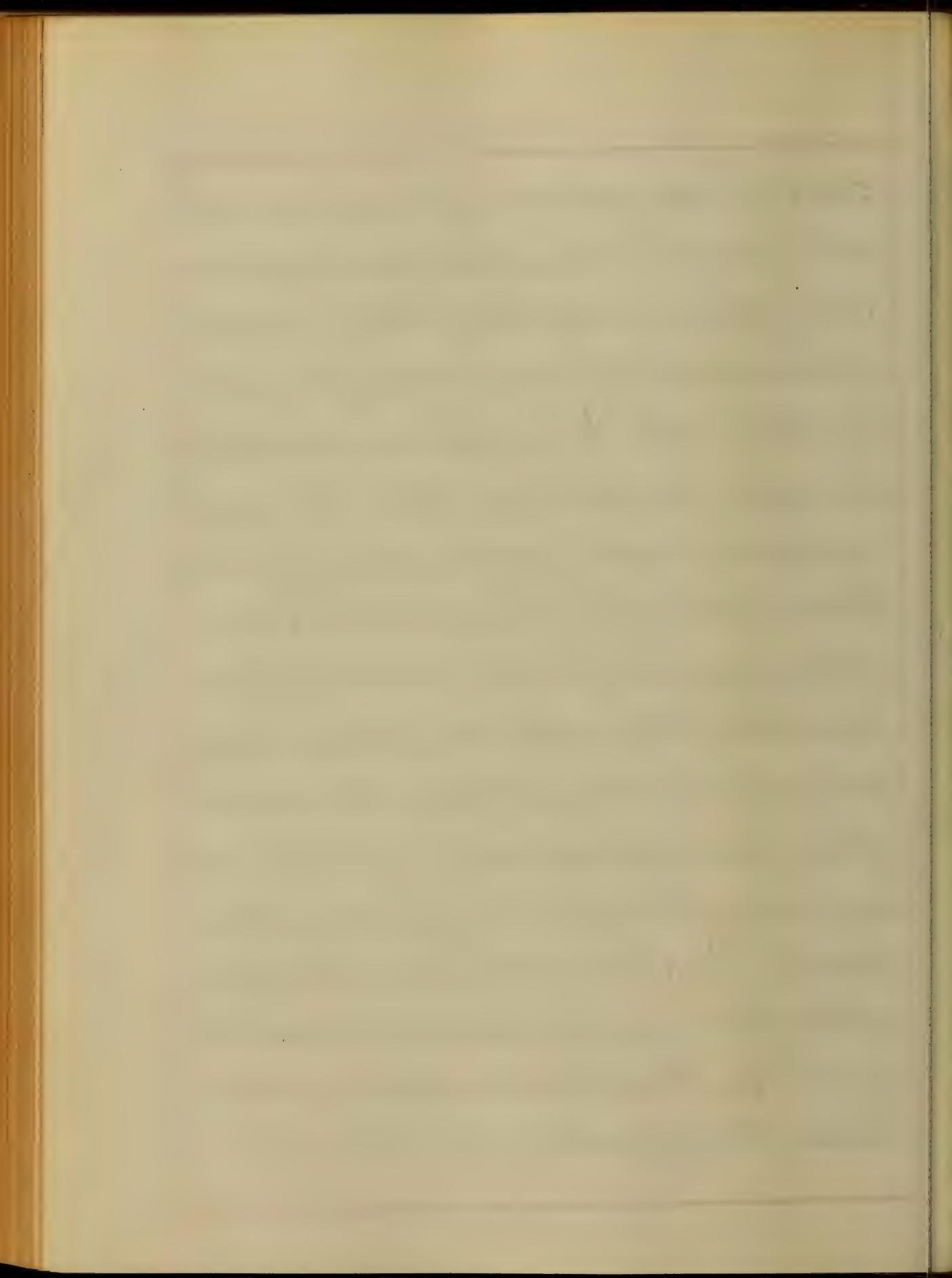


Clouds to compare, and the sun is to  
the right of the hill to the west,  
so the wind is from the south.

The first a bell-shaped cloud  
comes, and overshadows the sun being on  
the left; it is directed towards and back-  
wards, and is also directed downwards  
towards the hill. The second  
cloud is pyramidal, and is to the right  
of the first; it is very small, and  
is divided into two lobes,  
one from each side of the hill. This  
second cloud is directed towards  
the hill, and is also directed downwards  
towards the hill.

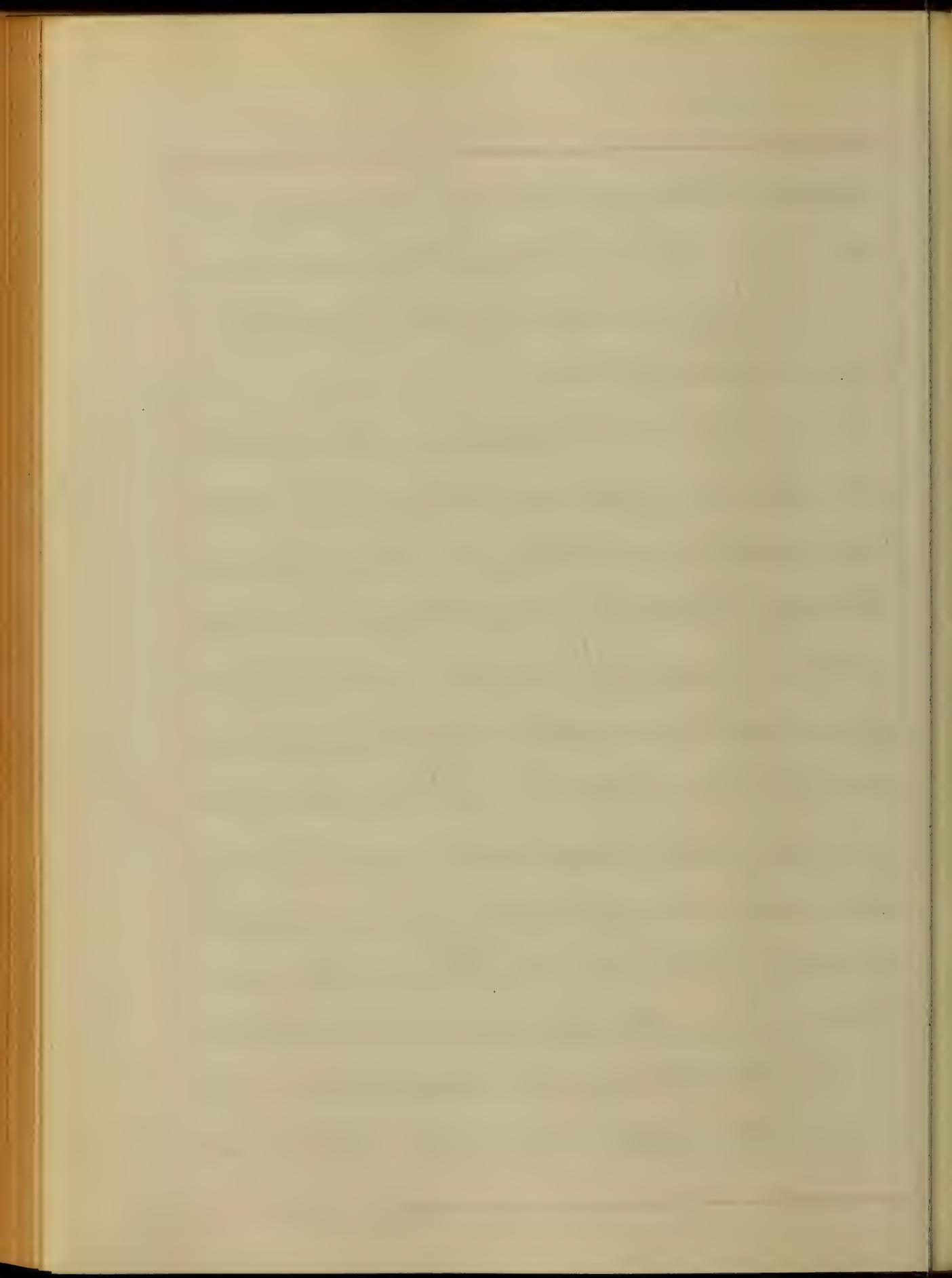


Cilia transverse-annular and inter-ventricular  
are also visible in some of the larger ones.  
The relative positions of the two rows  
and the position of the cilia are  
readily distinguished by the  
difference in the width of the spaces  
between the annulations, and the  
position of the cilia. The cilia  
are placed on the right side of the row,  
and extend from the right side of the row  
towards the left, so that they are  
more numerous on the right side than on the left.  
The cilia are right and a ciliate  
is under them the ciliature being  
seen on the right side of the row. The

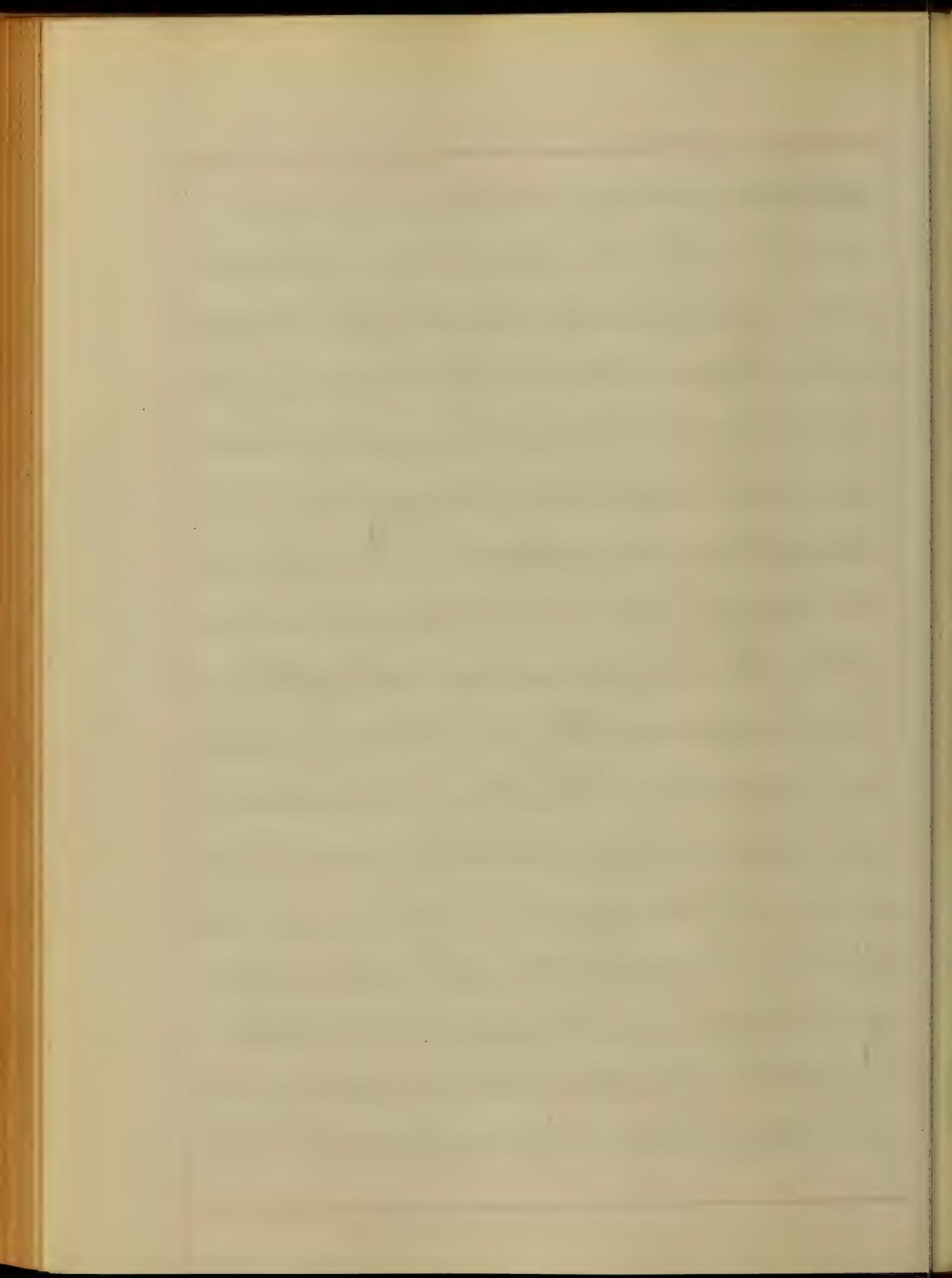


dark and the remaining segment  
are the lightest of the whole  
part. The right side of the body  
being as one to two.

The auricles and ventricles of the heart in  
the young of the Common Sloth (*Bradypus*)  
are all joined together. They are  
however partially separated by constrictions  
of the muscle. They are recognized by the main  
vessel, an artery from the heart  
and a venae cavae. A vein in  
the middle of the heart, which  
connects the right auricle with the  
right ventricle, and the left auricle  
with the left ventricle. There is  
a very small opening between  
between the ventricles and the aorta and

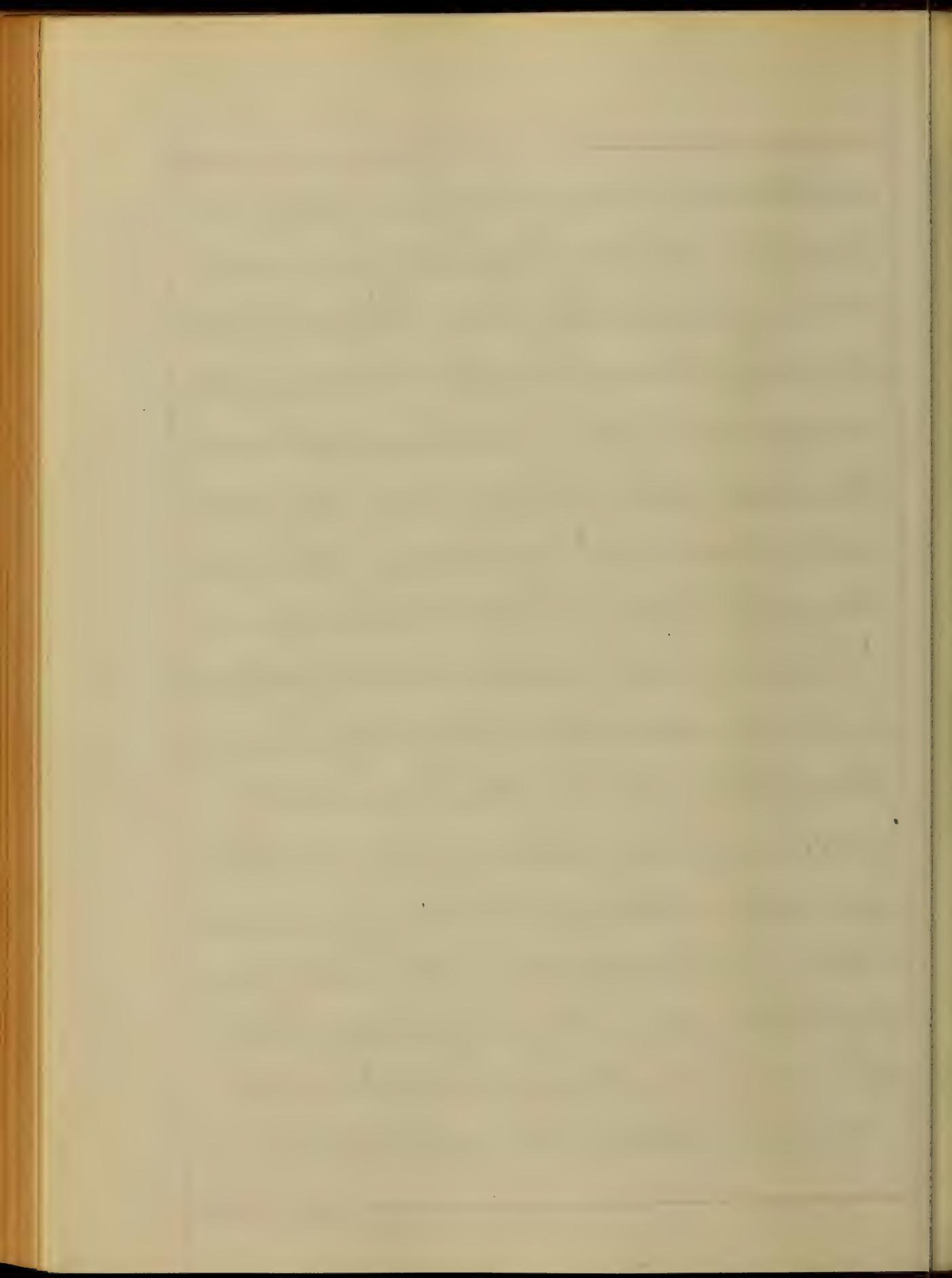


primarily when saliently. It is so  
common within the heart of a tumor  
that sympathetic nerve fibers get lost  
towards other areas. But if the  
pneumothorax will be done and  
then the sympathetic to the heart, will  
probably be resected. At a first  
junction and no resection, it may  
allow the sympathetic fibers to go to  
the pleura. But if resection is done  
posteriorly in the area of the pectoral  
sympathetic, it will be cut off and  
during the process of resection  
it can easily become torn. The  
right auricle & ventricle is favored by  
Perry in his state the right side  
is affected. Perry says that the right



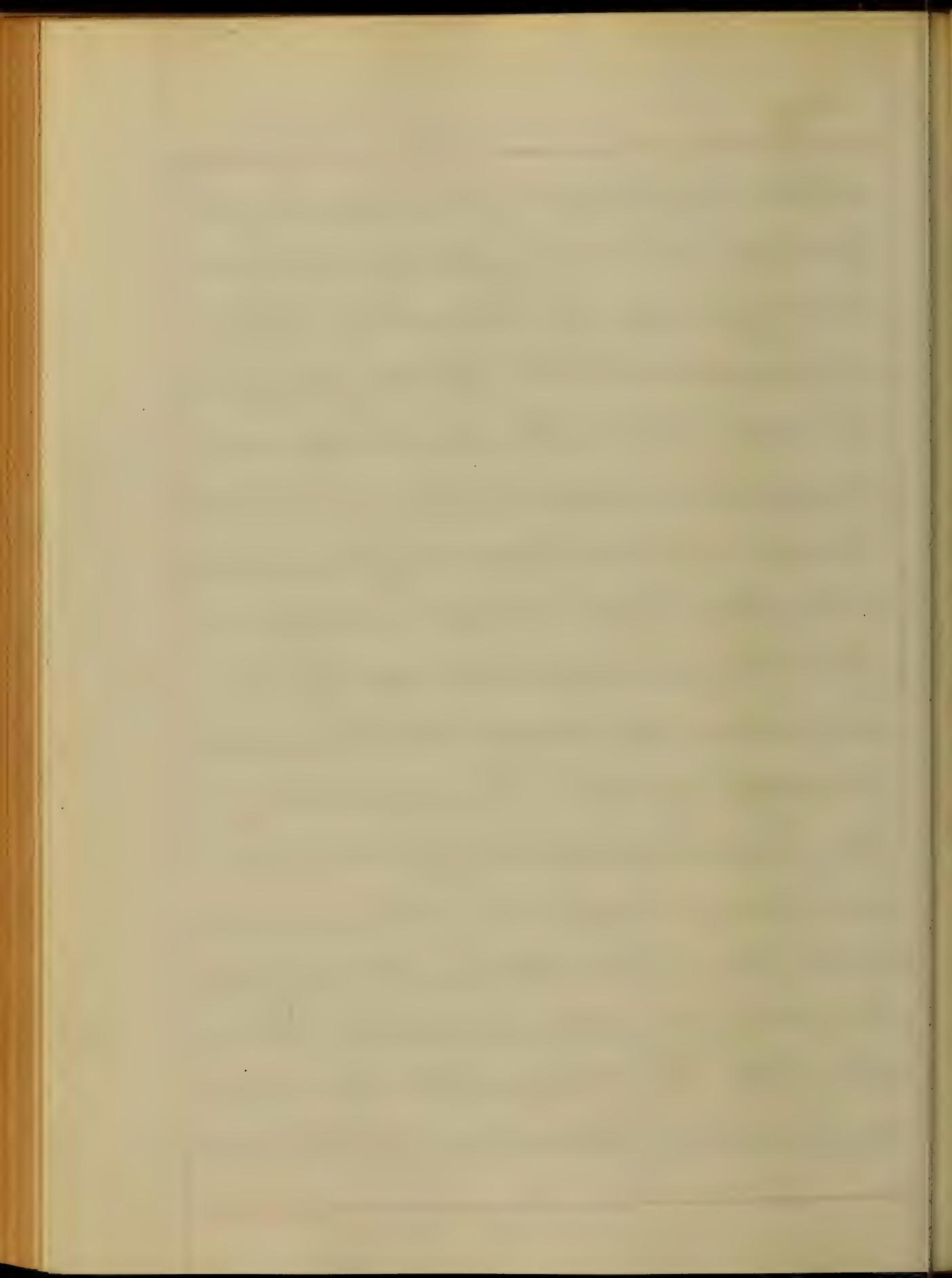
circulation of the blood throughout the body  
and throughout all the organs of the body  
continuing unbroken. Hence it is thought  
that these veins give birth to the  
venous blood in the body, and also  
that these veins do not receive the venous  
blood from the circulation of the blood  
throughout the body.

Venae parvae ascendens and descendens  
empty the venous blood which they  
conduct into the vena cava, and  
mixing with it, at places in the  
vessel, the white corpuscles, or  
cells, of the body, are separated from the  
blood. This is done by the valves,  
the blood being received into the vessel  
at the valve, of the place where the <sup>the</sup> corpus-  
cles, are separated through the



10

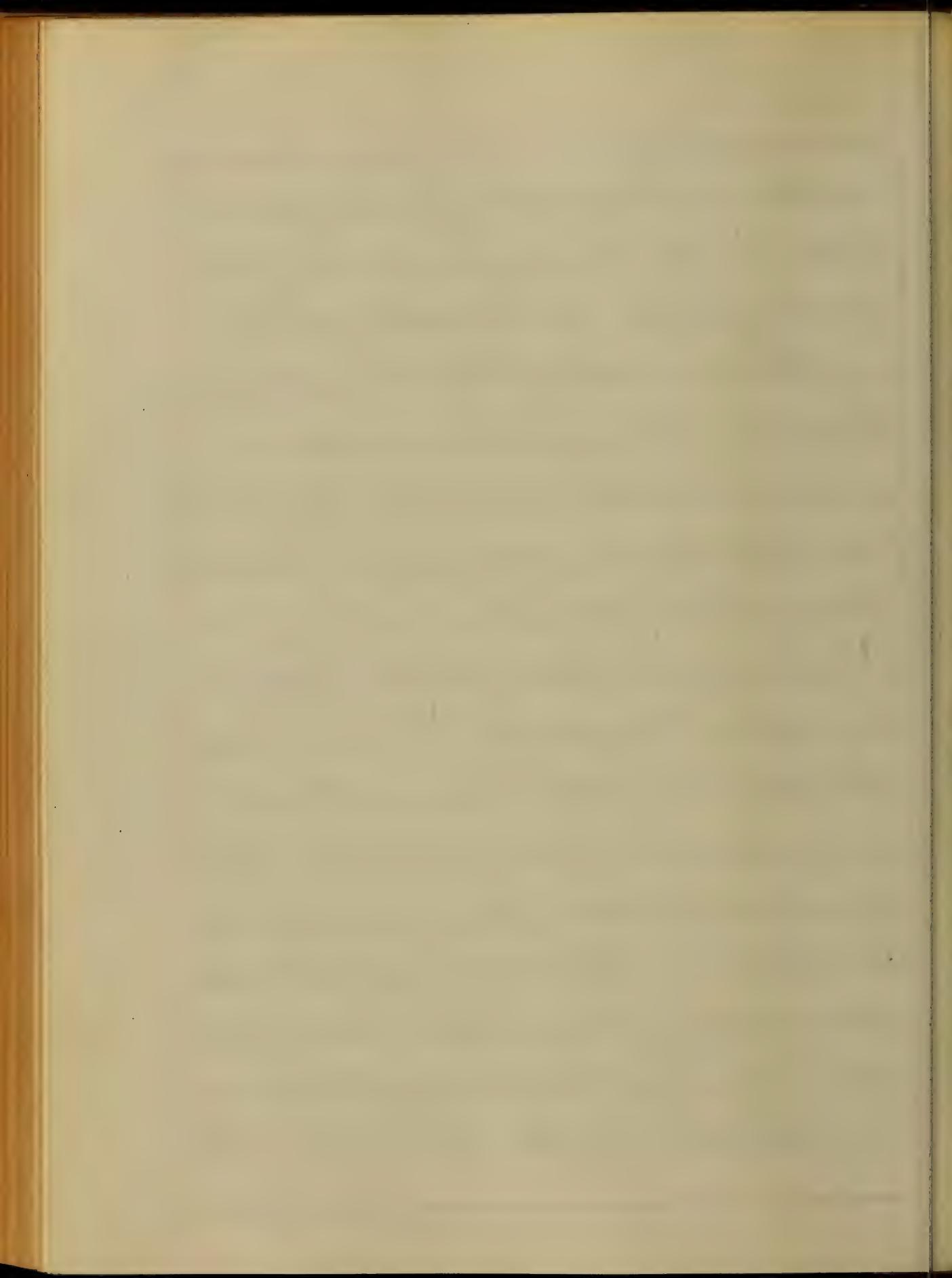
attempts to the kidney or the upper bladder  
are subject to the influence of the res-  
piratory organs, it is evident that the  
secretion similar to the salt will  
come off from through the mucous  
membrane together with the other glands.  
Owing to the contraction, expansion  
and closure of the vessels which is  
permitted into the recto and sigmoid  
colon and its boundary is adhered to  
the rectal wall. The retention of  
the stool through the rectum by  
respiration lungs is termed the pulmonary  
or anæsthetic method of rectal enema.  
The system the exterior or exterior. The me-  
thod of the latter through the rectum is ac-  
complished by means of rectal enema.

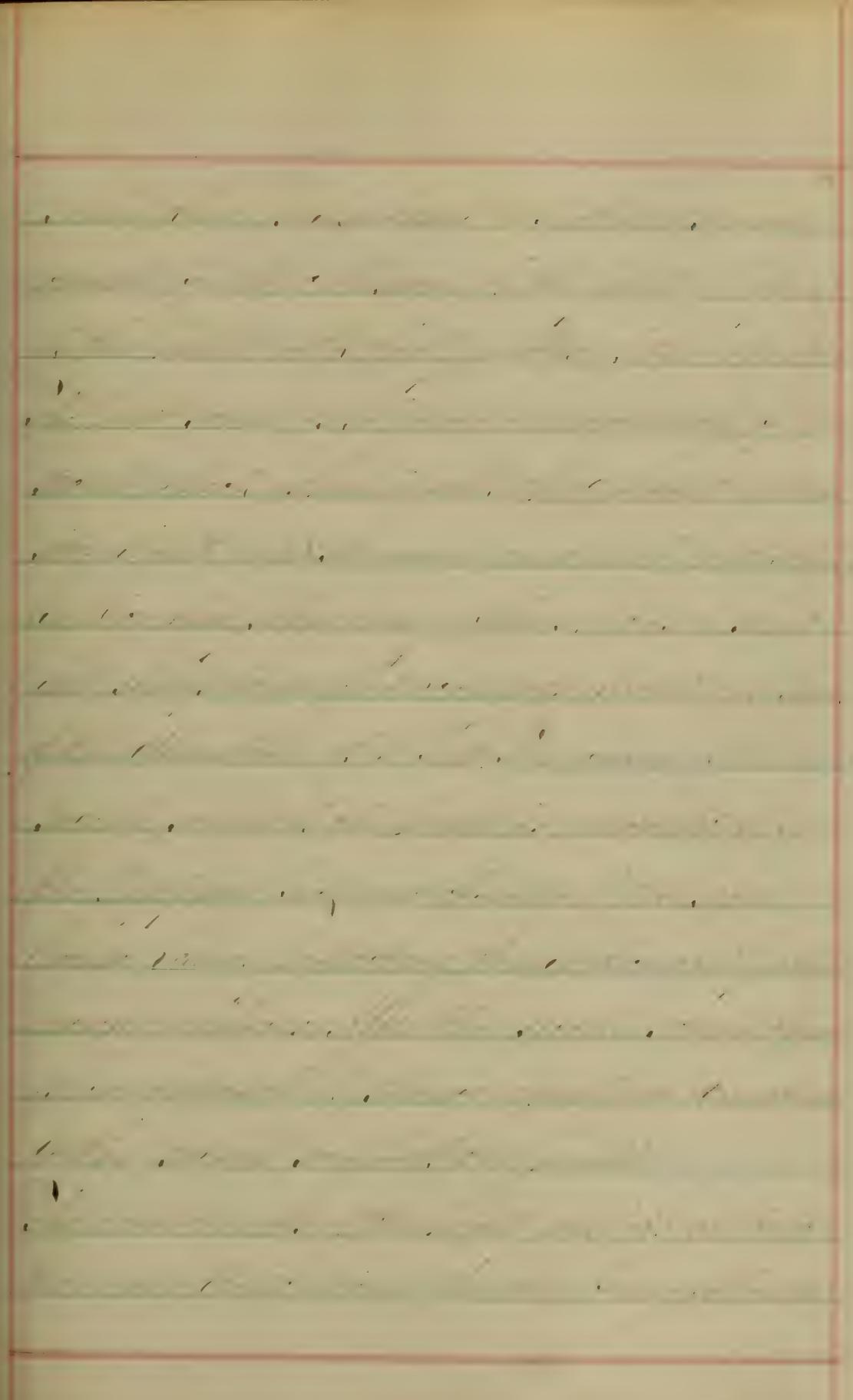


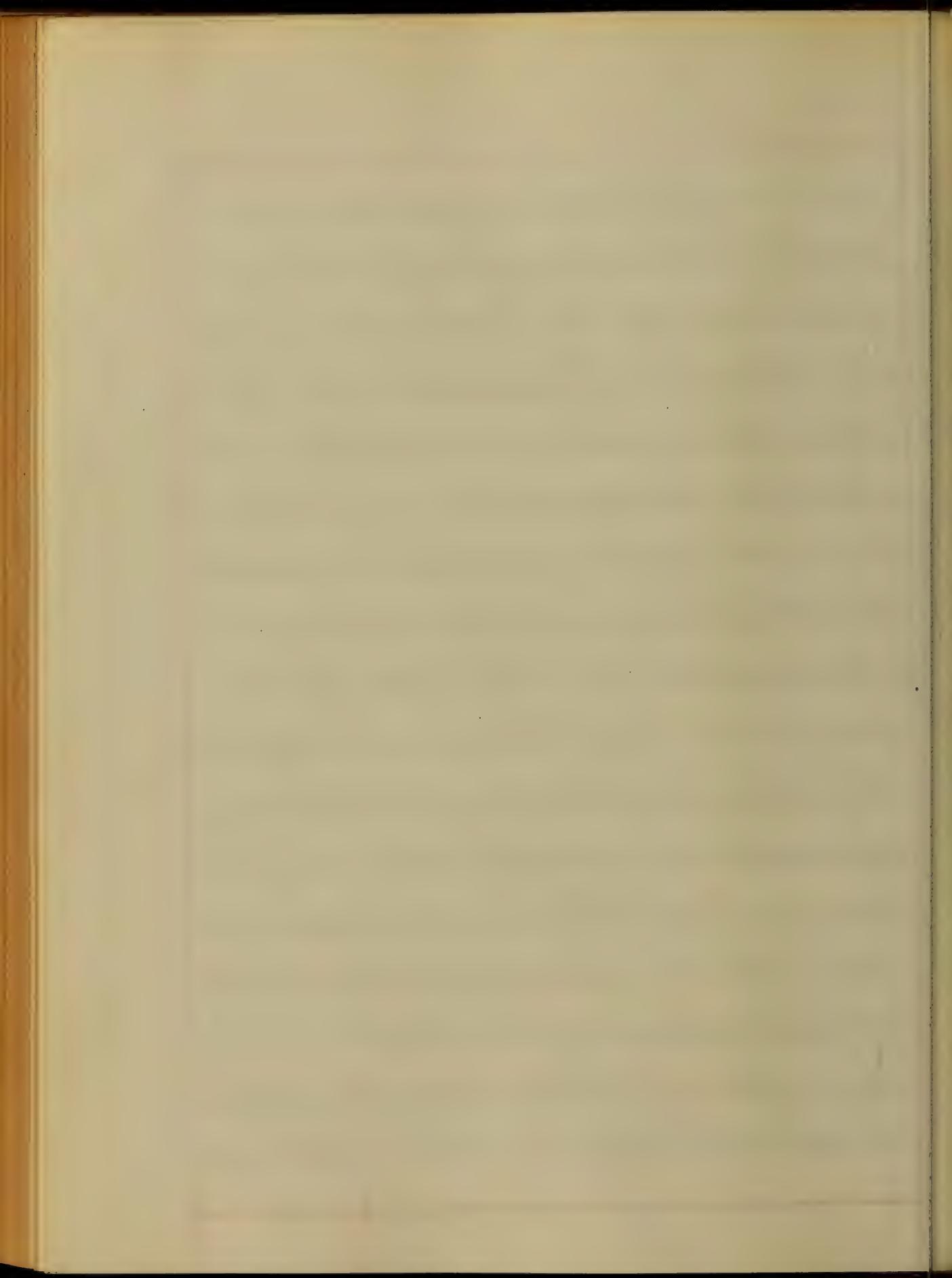
relaxation of the muscle it is hard to tell  
exactly. You will see me do it now, just  
pick it up into the mouth like a thin  
inflated sac and then let it go.

Each one of these successive actions is  
called a contraction and the time between  
successive contractions is called the period of  
movement and is called

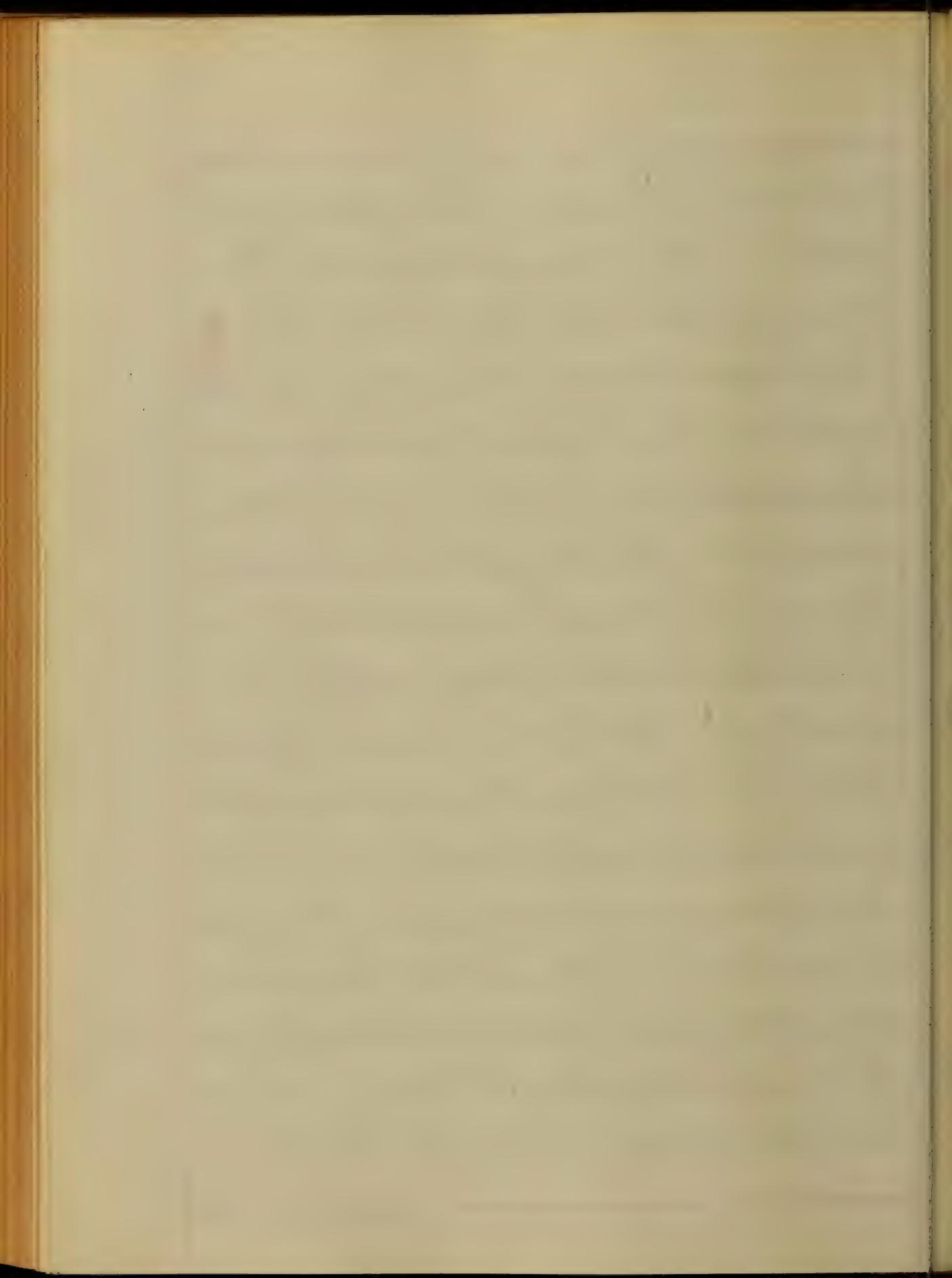
The smooth muscle has been observed in  
the cat's heart and appears to consist of fine  
wavy bands of muscle fibers. It is not found  
in the heart muscle so much the heart has  
of a single pulsation. The second most char-  
acteristic over the left atrium and left ventricle  
is found in the right atrium and right ventricle.  
It is caused by the closure of the atrio-  
ventricular valves. With the





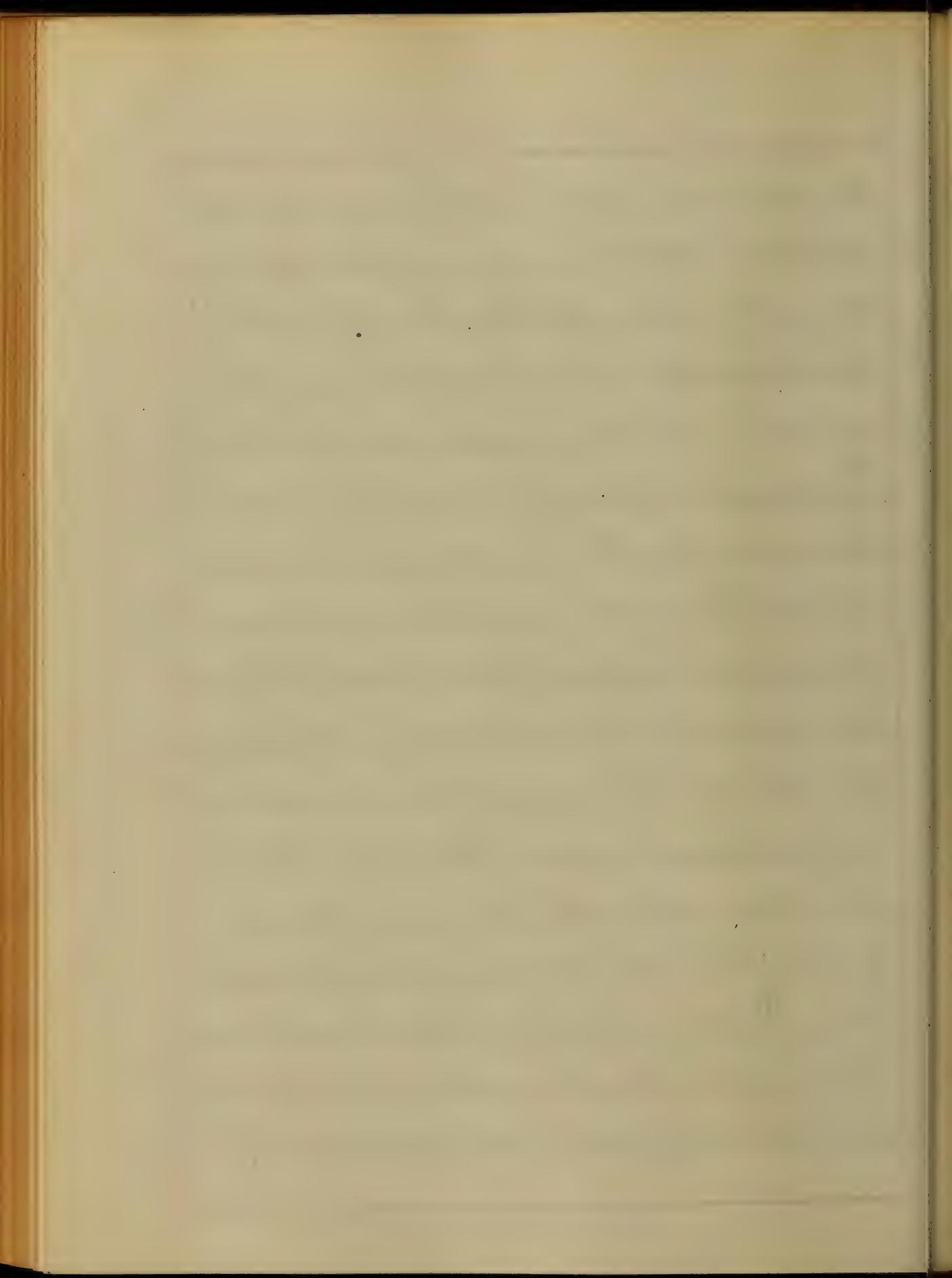




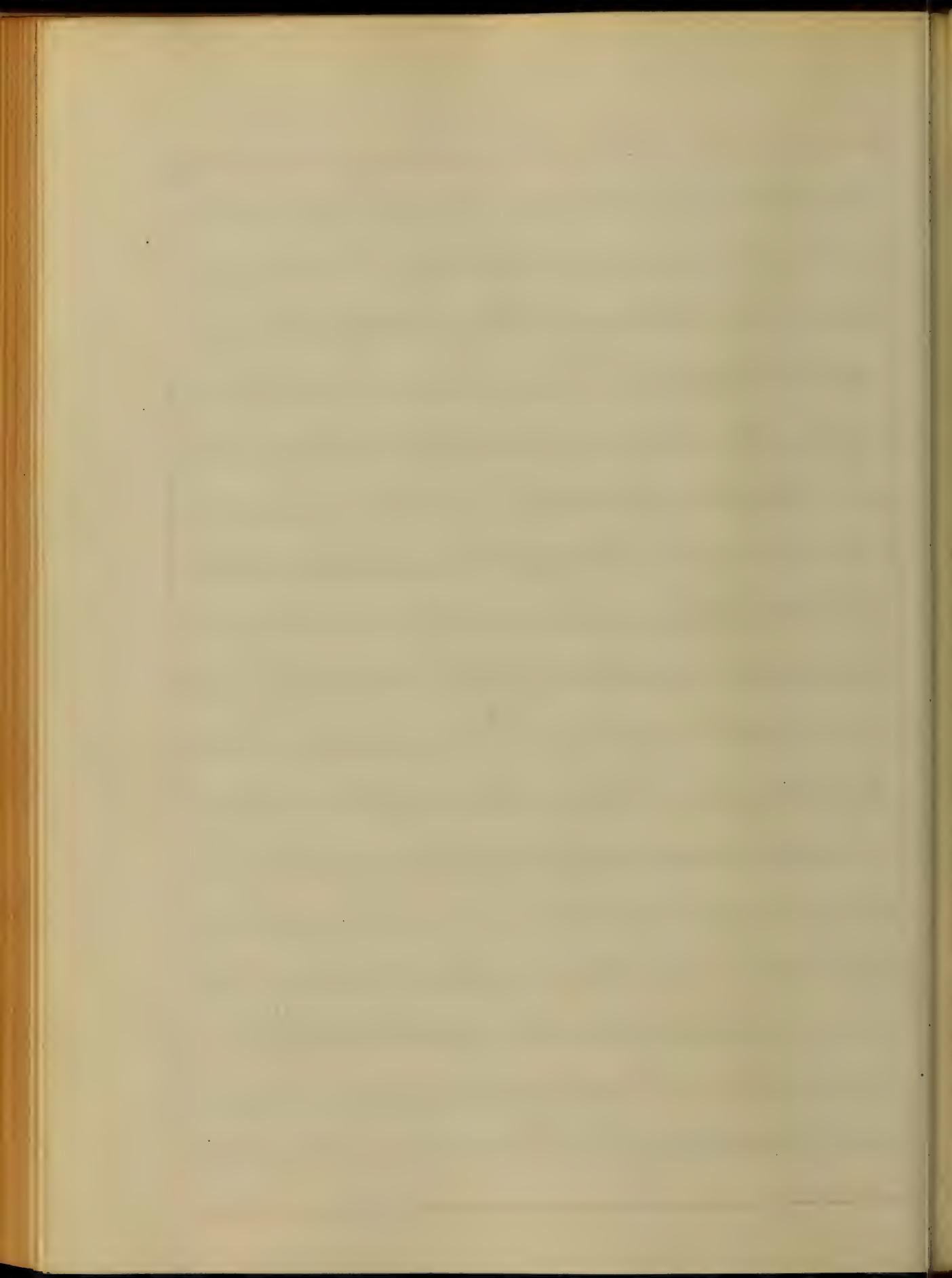


the base of the column  
is about one yard from the  
base, is probably perpendicular.  
The top of the column  
Amicula ventriculus was found at the

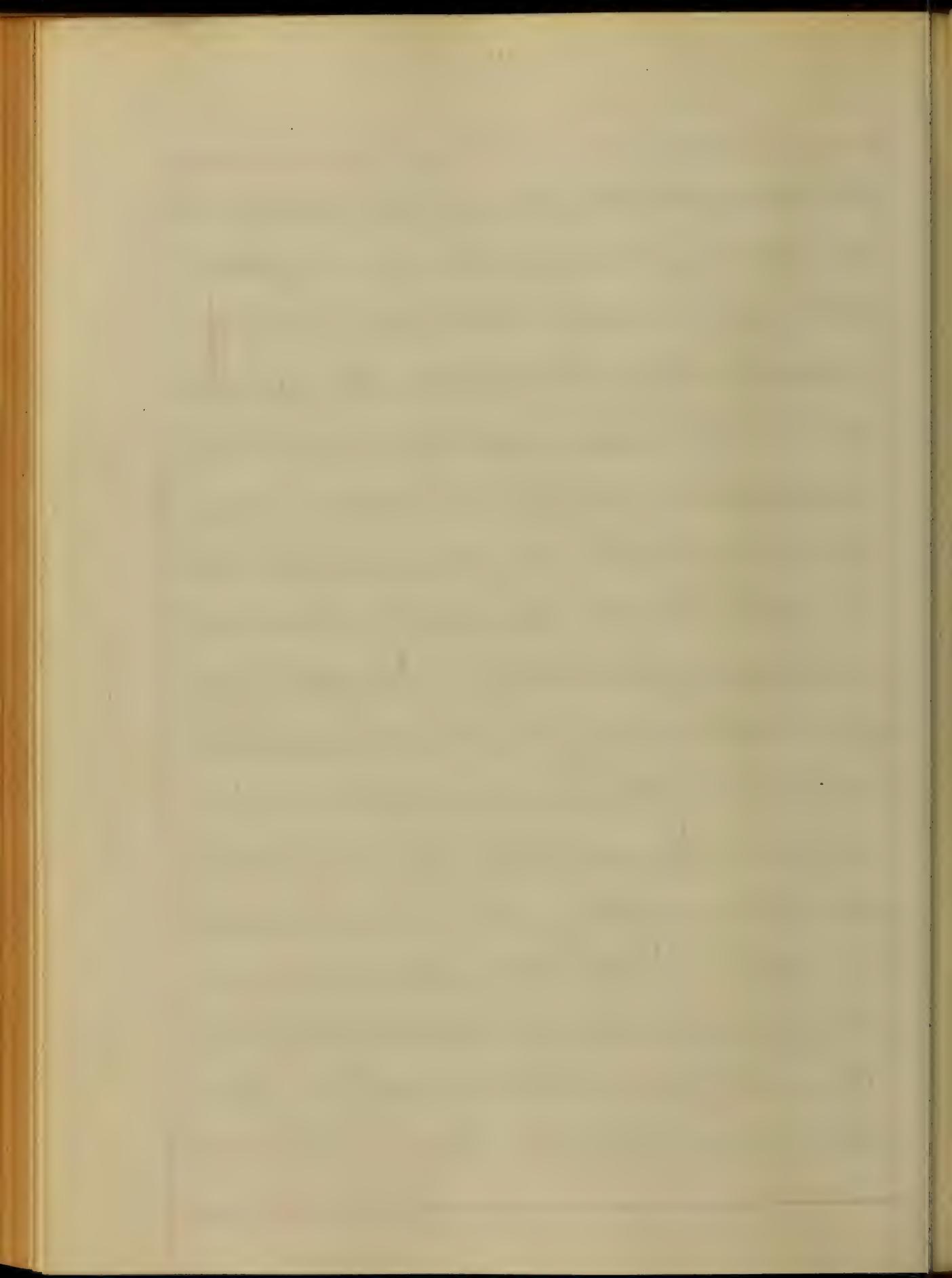
Deposited in the soil upon the base  
of the column. At the bottom  
of the column, the water,  
the sand, and the stones were  
curling around the centre of which the  
1<sup>o</sup> direction, becoming decorated faces  
along the inner surface of the sand  
was disseminated in the column and  
the 2<sup>o</sup> direction, the sand  
in the column, the sand  
was curled direction around the  
also disseminated in the column.



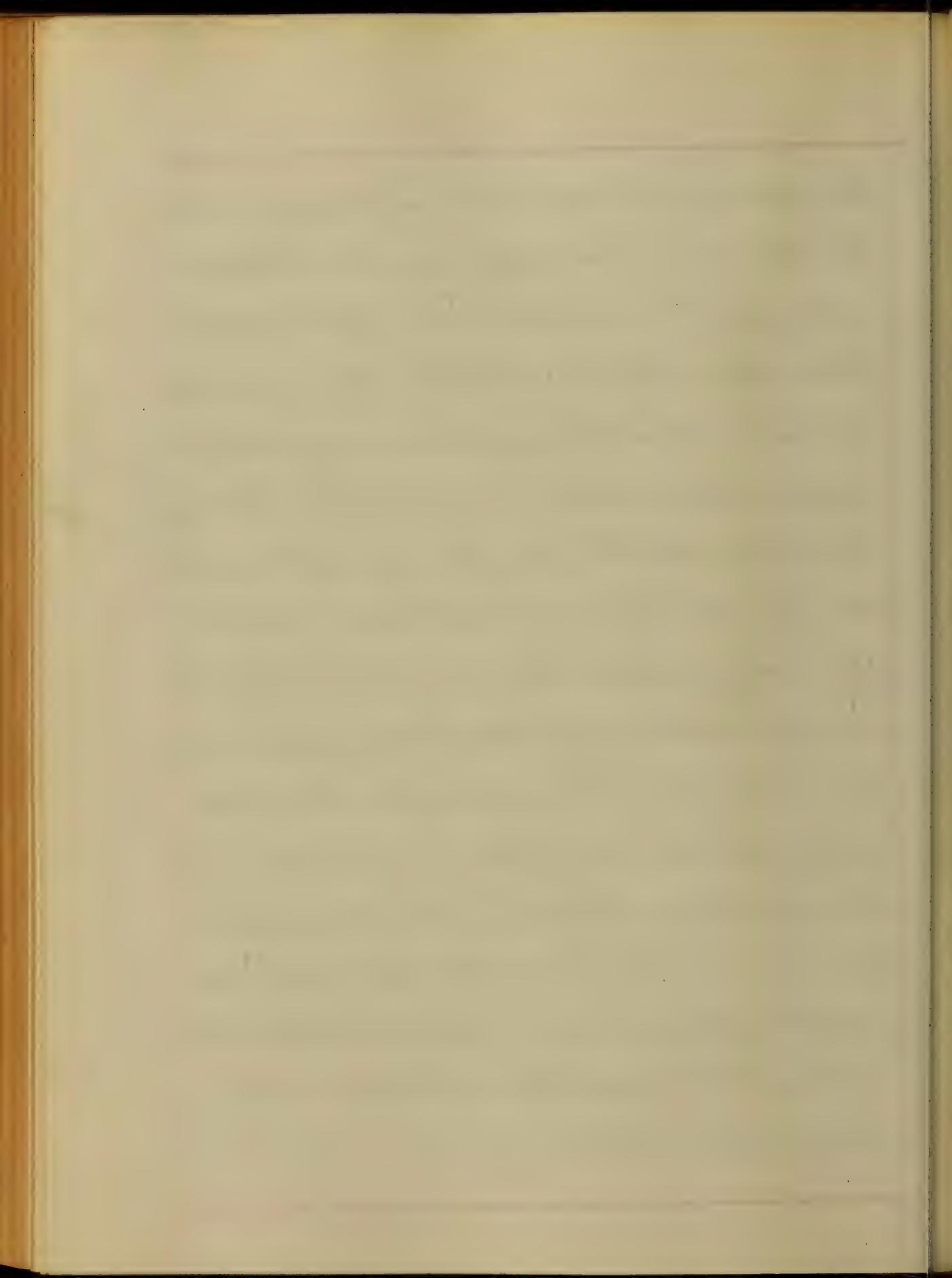


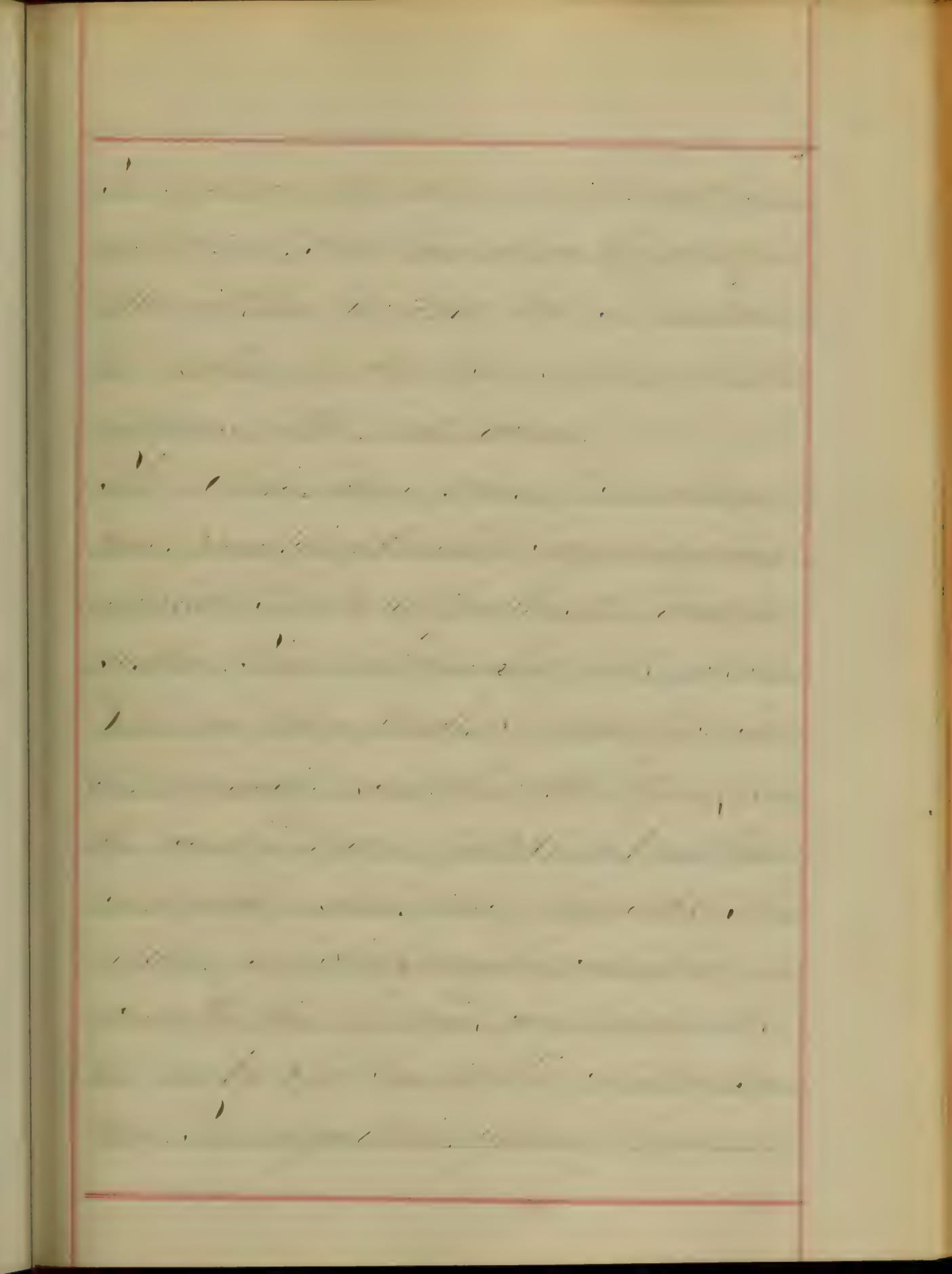


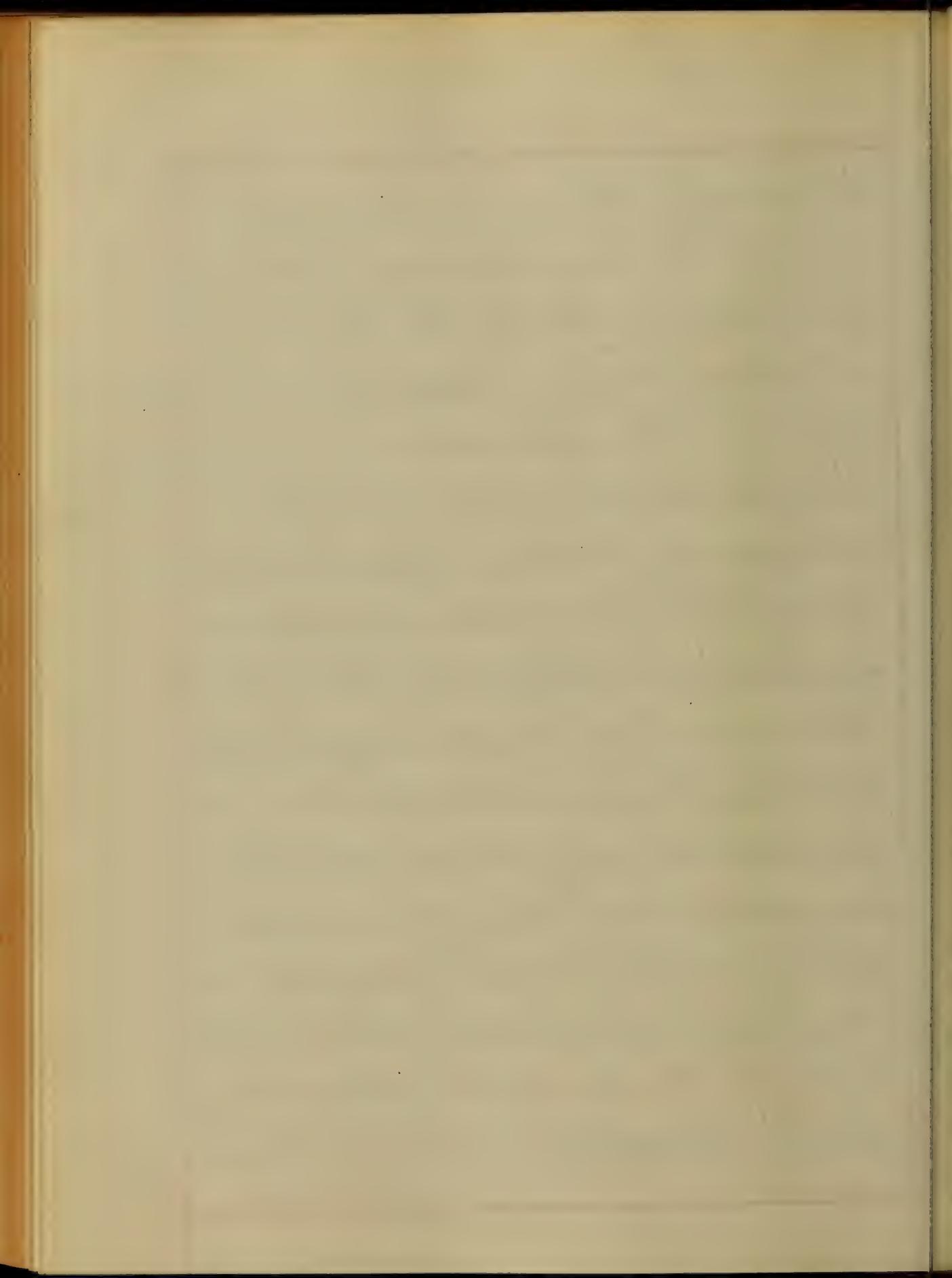
Chambers at the heart, by  
the power of the heart, to contract  
itself and to render these violent  
impulses of the heart more strong.  
The next stage of the process  
which follows the contraction of the  
heart is the relaxation of the heart,  
which is due to the action of the heart  
and owing to the action of the heart  
with the action of the nervous system  
of the heart during a pulse  
following the contraction.  
During the contraction of the heart  
the heart muscles contract  
firmly, its walls stand  
firm against the blood.  
In a few moments after the



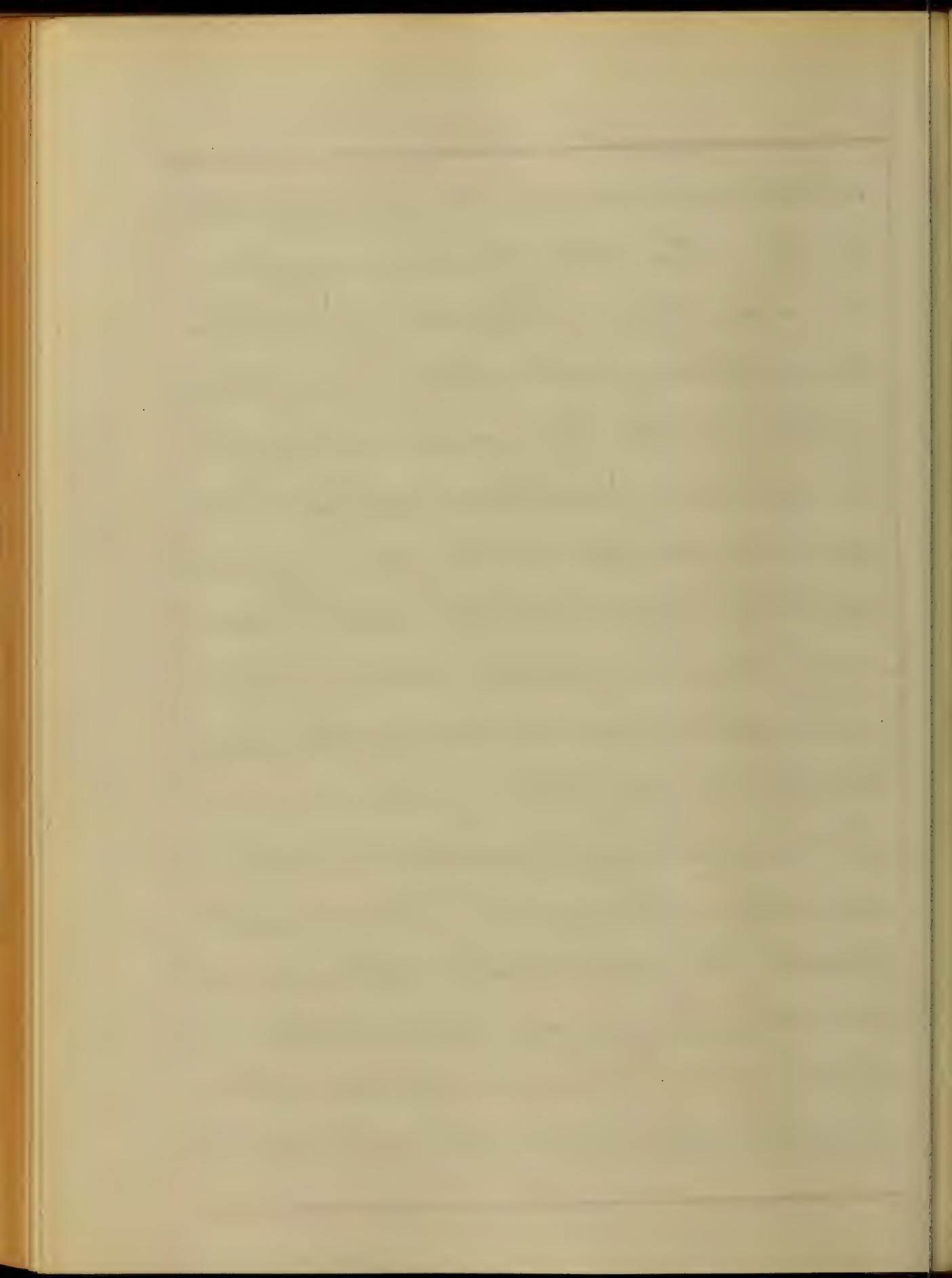
The strong systole causes no increase in pulse value.  
The first part of the pulse is very full & strong.  
Pulse value is reduced. The pulse value  
takes up one half of the duration of the  
heart. After this the ventricle is immediately  
relaxed and a venous pulse follows. During  
this relaxation the blood is flowing into the auricle  
and the auricle is becoming full.  
During this time the heart is still  
and the auricle contracts drawing the  
diaphragm up. At this time the heart is  
empty. The ventricle is now empty and  
the auricle has contracted so that it contracts  
and forces the blood into the ventricle. This  
process will continue to be exercised alternately  
with each other and since the  
earlier pulsation.





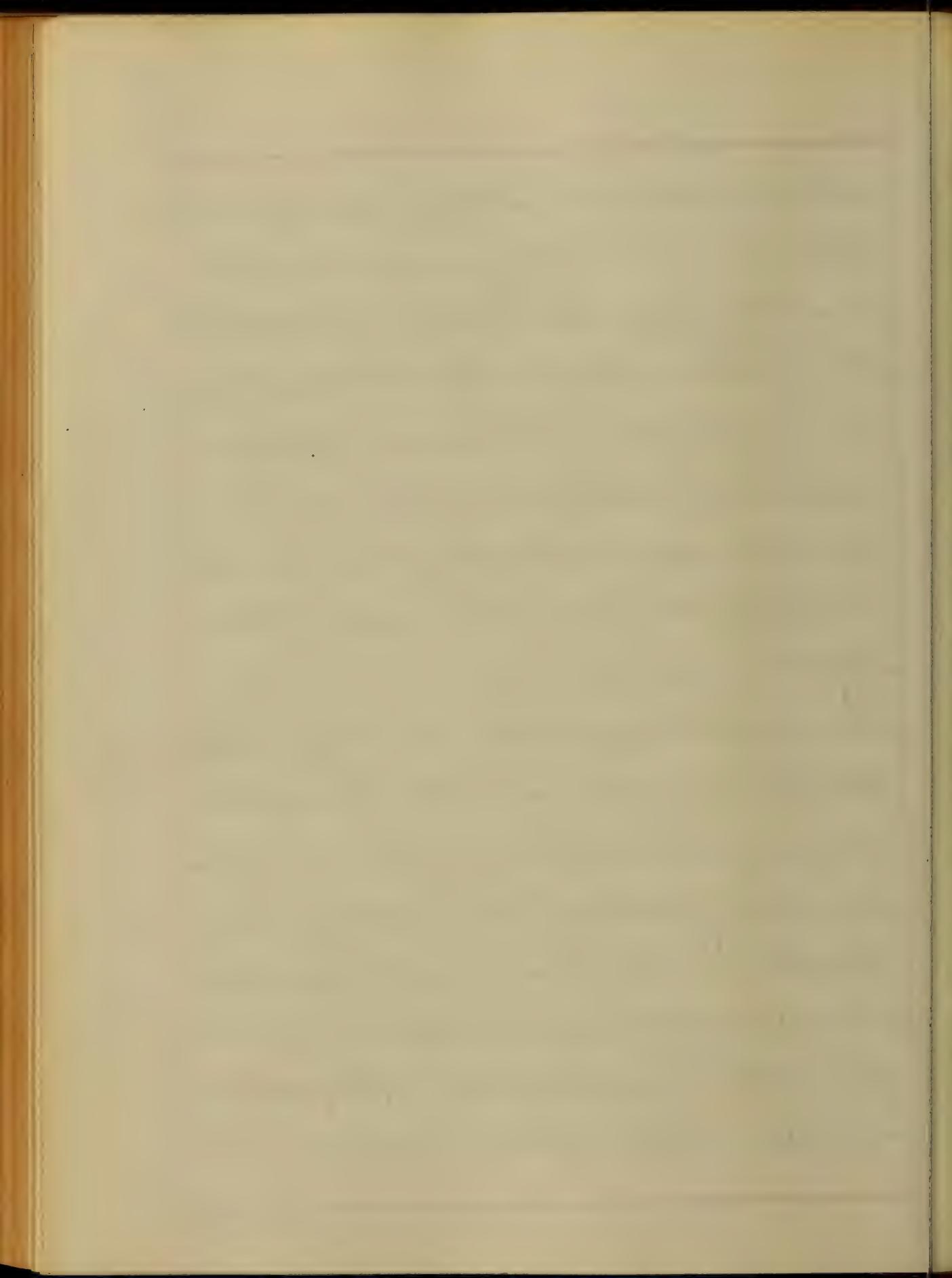


steeped course and are mostly  
in the upper part  
the limbs along the flanks side  
are very slender and the  
crown of the crest is  
and external. The internal crest  
is the highest point of the head  
situated on outer edge. The  
crest is composed of several  
rows and the external crest, the  
highest, consists of fine  
hair passing the lower and  
lowest in the middle crests  
the crest is composed of several  
rows and the external crest  
is the highest point of the head  
situated on outer edge.

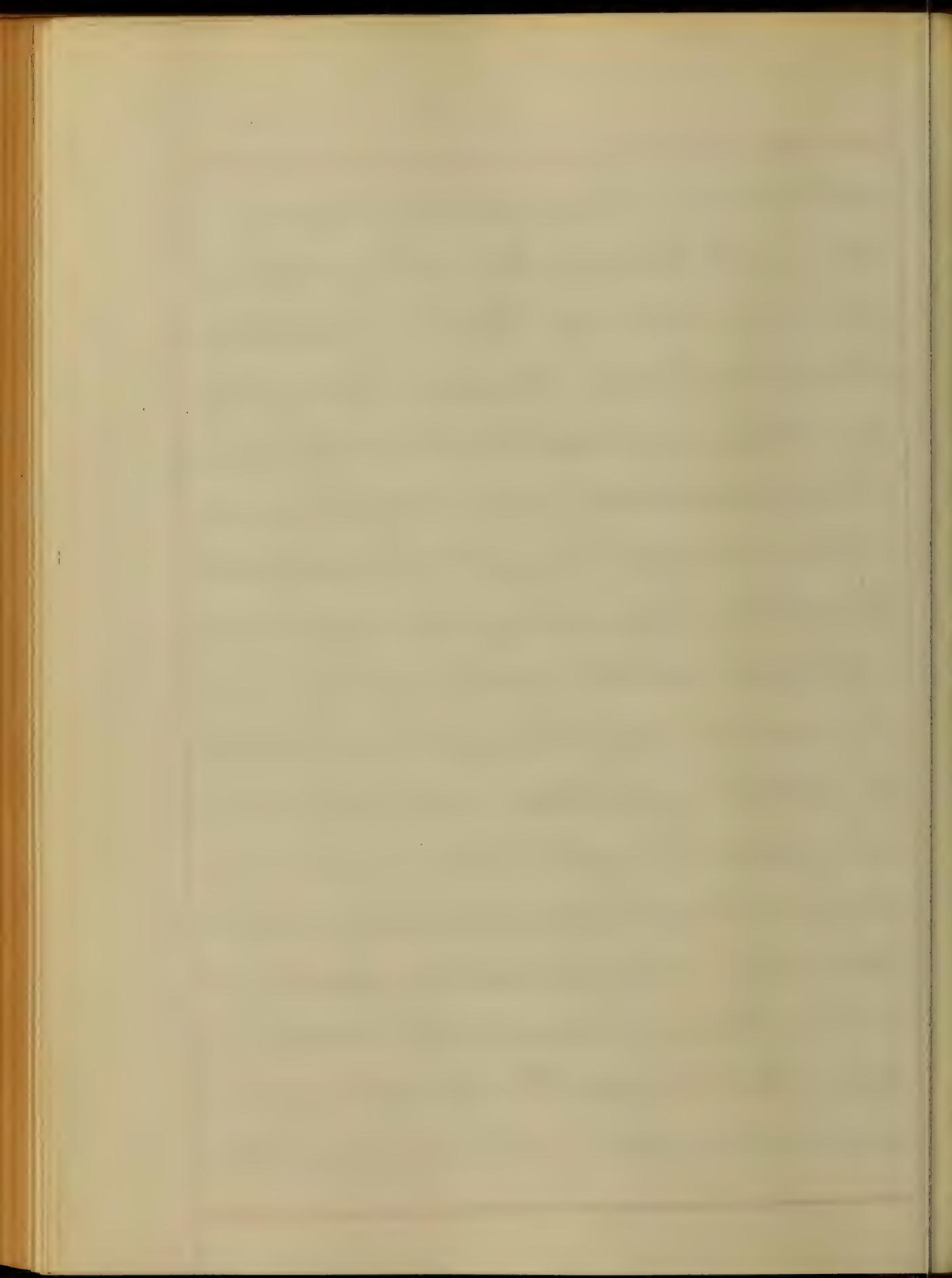


The larger arteries are thick, and  
the larger arteries are composed of elastic fibers.  
The smaller arteries are thin, and  
are filled with fat, and by this reason  
on the other hand the smaller the arteries  
have the more pliability they have. The  
arteries are thick, and by this reason  
elasticity increases.

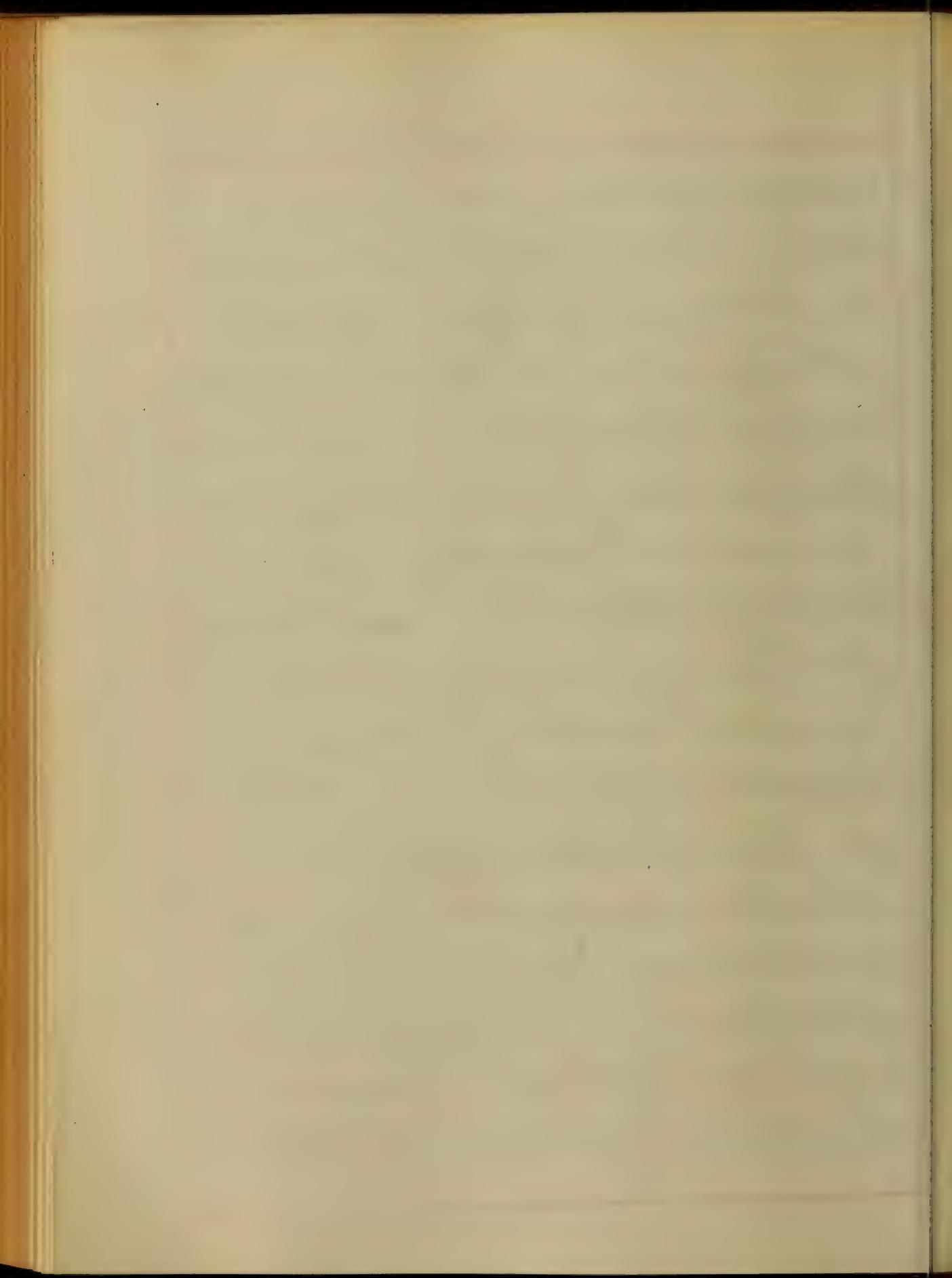
The contraction of the heart is the  
cause of the movement of the blood  
in the arteries, but the elasticity of the  
arteries causes the blood to go back twice  
as far as the heart can move.  
When filled with circulation it is  
evidently, the muscular walls of the  
arteries are a powerful force.



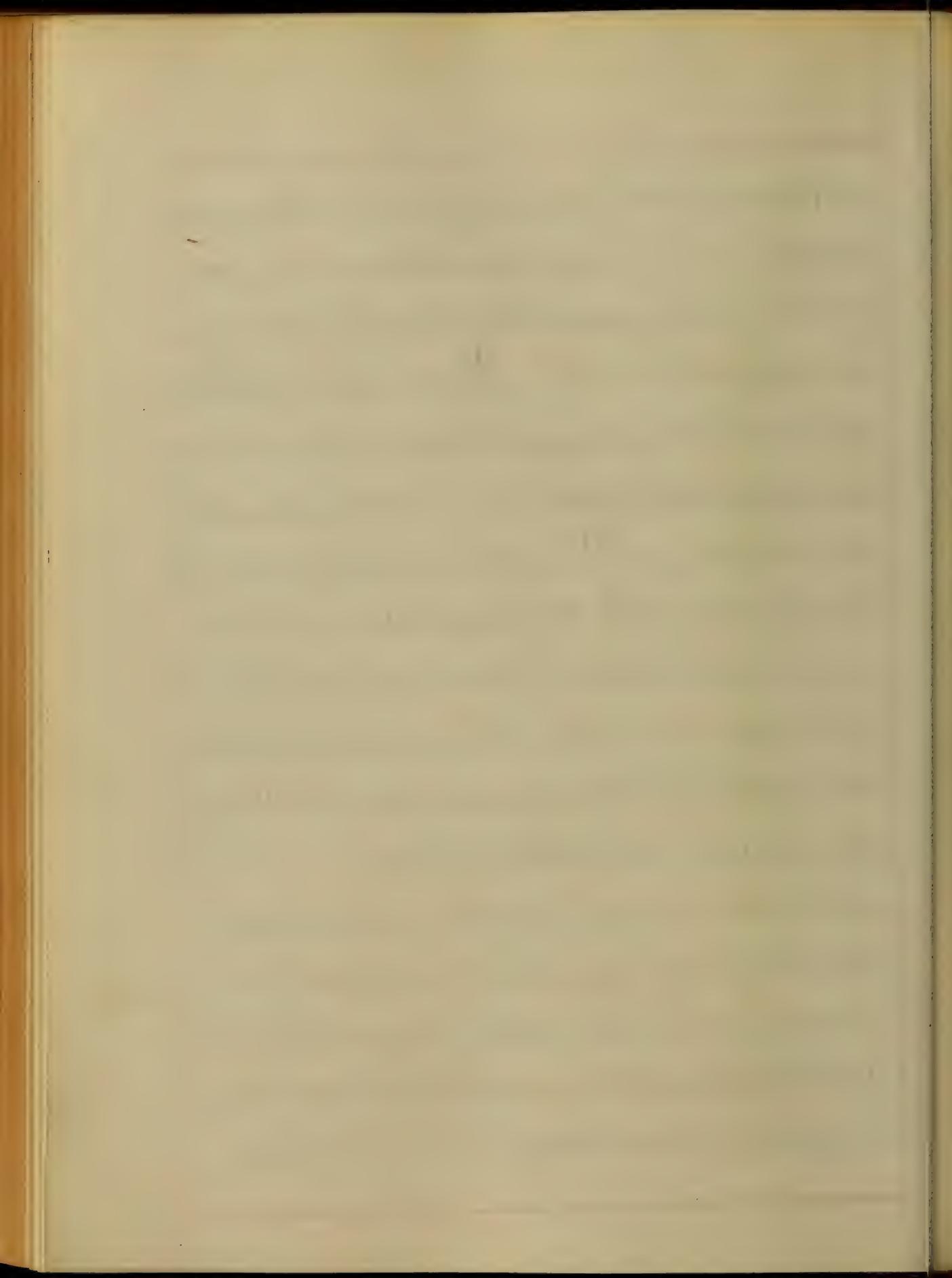
Land and life



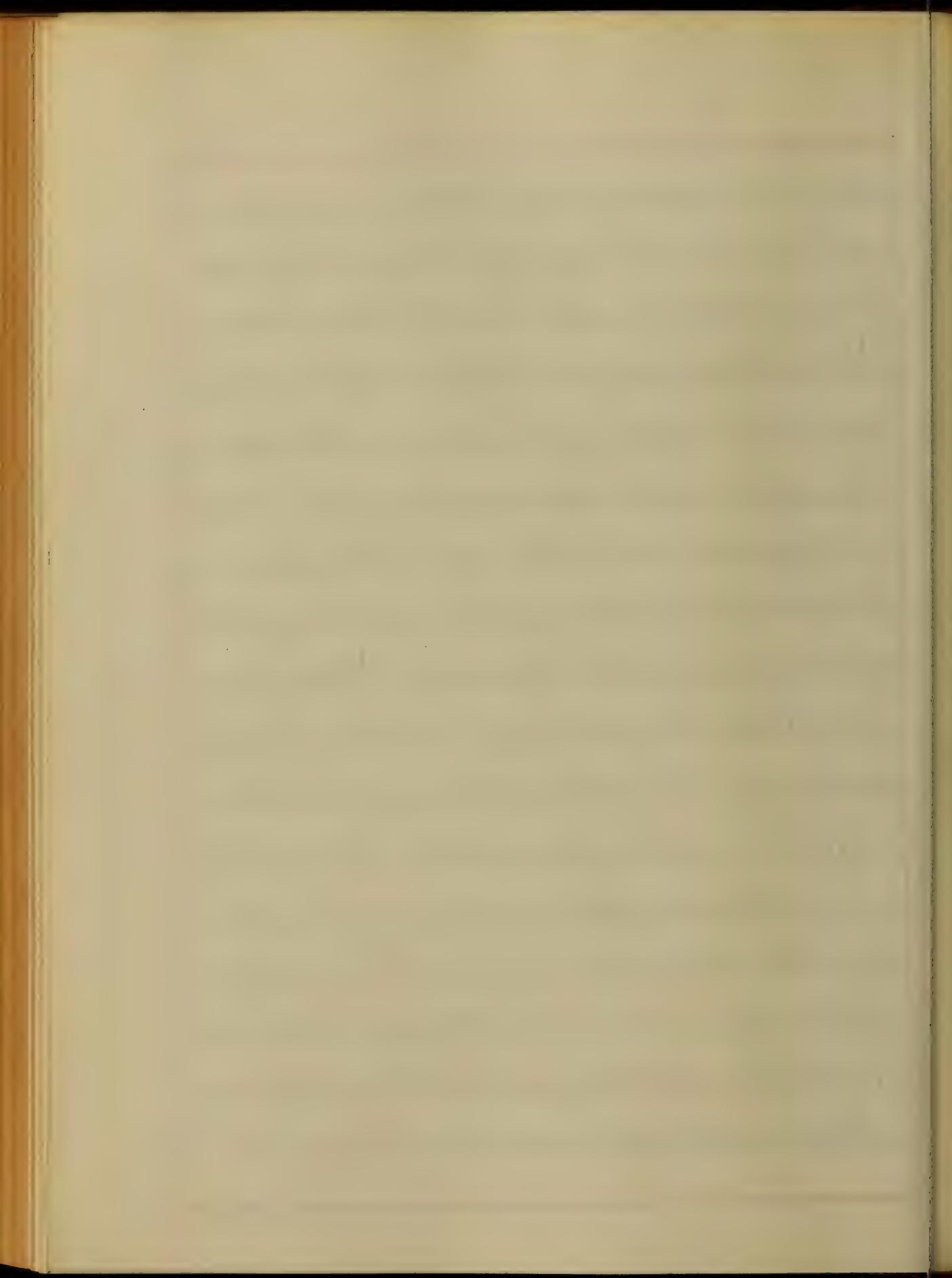
Capital & the body of the horse is  
more or less relaxed.  $\text{D}$  is not  
ever not the same throughout the whole  
of the S. & T. In the middle of the  
gait the  $\text{P}$  is more or less relaxed.  
The other is always the same as the first  
is perceived. The carpus all seem to be  
distended at the same time. But the  
A. H. & T. are not so much so  
and rapidly than those at a distance an  
approaching. When the horse is  
not gaited the  $\text{P}$  is still the  
relaxation of the carpus to the more  
distant arteries. Before the difference  
of the  $\text{P}$  is perceived the  $\text{P}$  and  
carpus are very small.  $\text{D}$  is now seen to  
be the same as the  $\text{P}$  and the carpus



is found with certain species of  
spiders in the upper strata of sand  
which has been deposited by waves  
at low water mark. It was collected  
near the coast of the Atlantic ocean  
near the mouth of the river Ganges.  
The distance from the sea to the  
bottom of the cliff is about 100 feet  
and the height of the cliff is  
about 1000 feet. The  
land slope is 12 miles from the  
sea. The activities of man have  
very diminished in the last few years.  
The coastal belt where the sea meets  
the land is now almost entirely  
deserted leaving a narrow strip



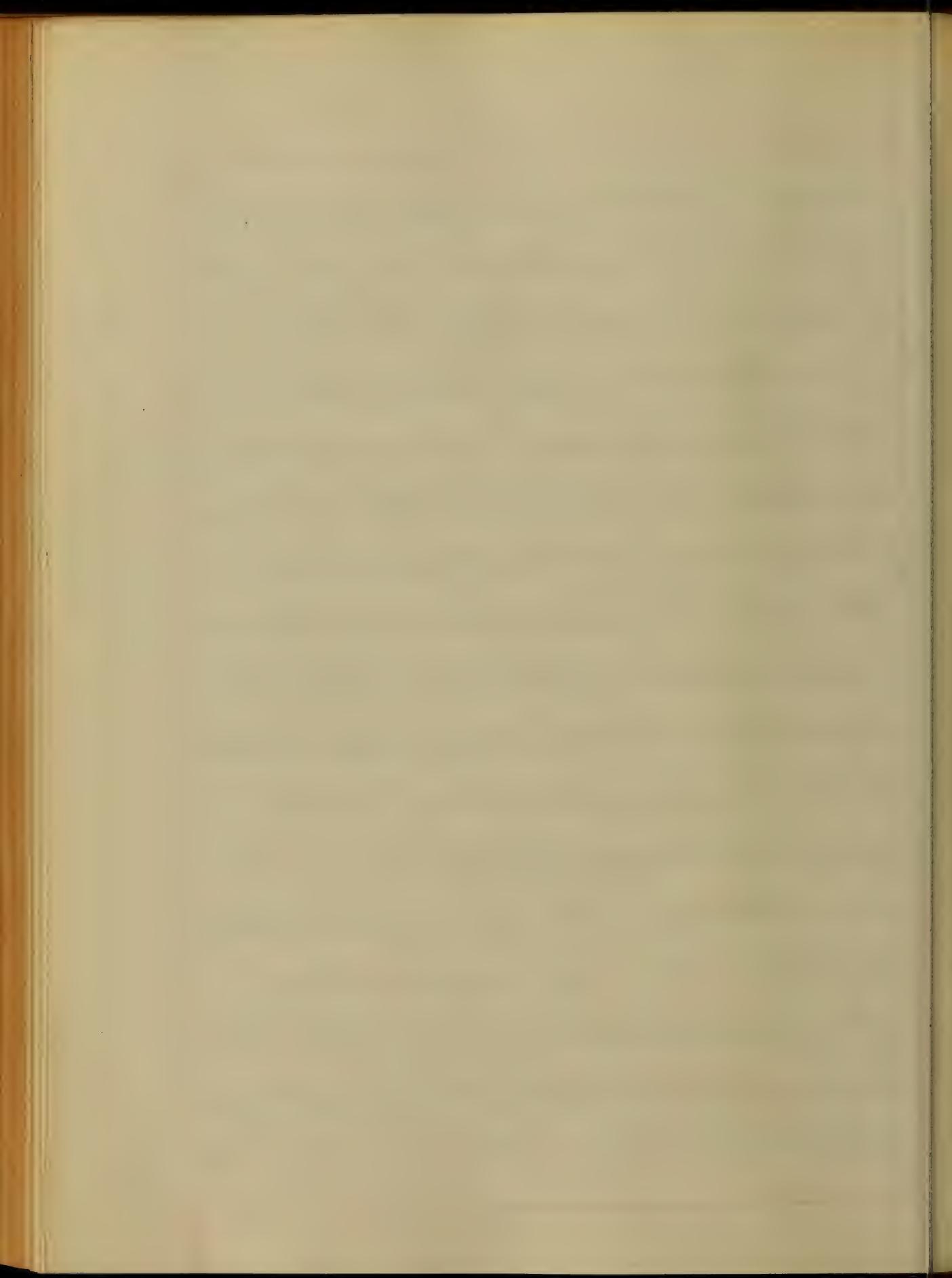
The Amur Falcon (Ptychosurus amurensis)<sup>2</sup> is a  
small bird, probably about 10 cm.  
measured with the power coat of the wings.  
It is mainly white, with a black  
tail and black speculum, the latter  
having a white patch above, the wing-bar  
being brownish grey. The white  
breast has a dark grey patch  
on each side of the middle,  
and the throat is black. The  
rest of the body is white,  
with a few dark spots on the  
flanks. The bill is black,  
the legs and feet yellowish  
brown, and the claws black.



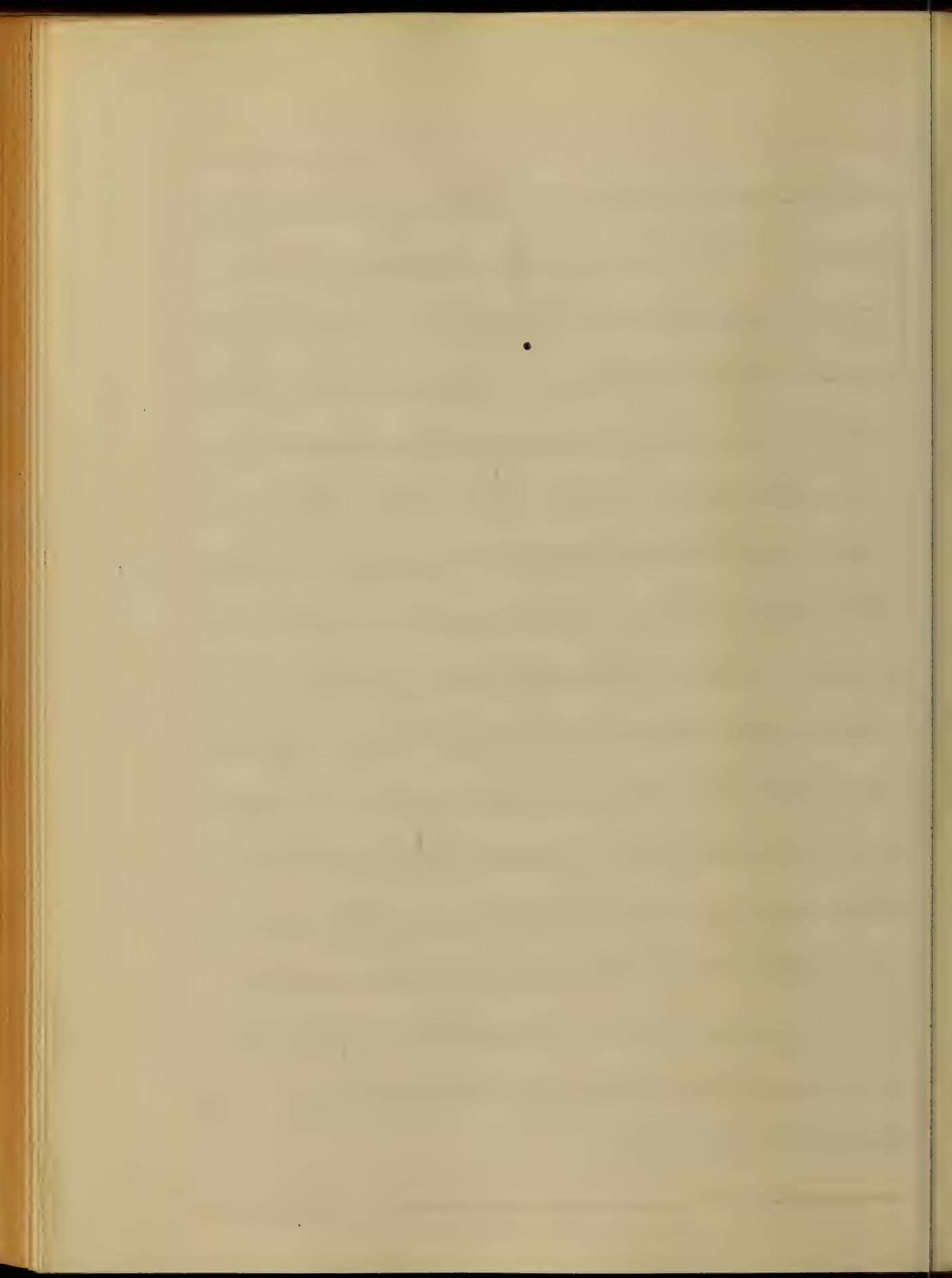
200 pages of

Champlain

of Malone

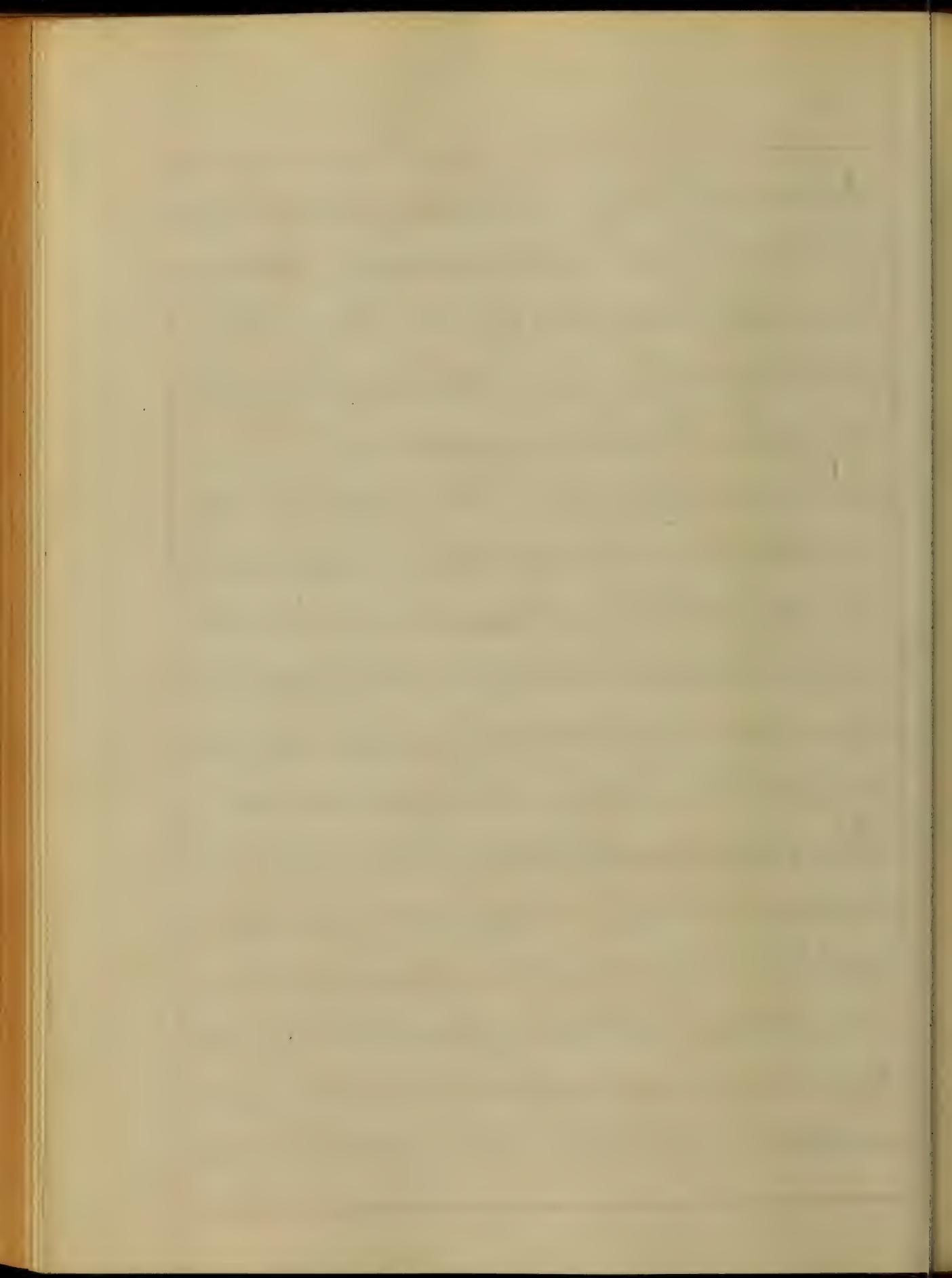


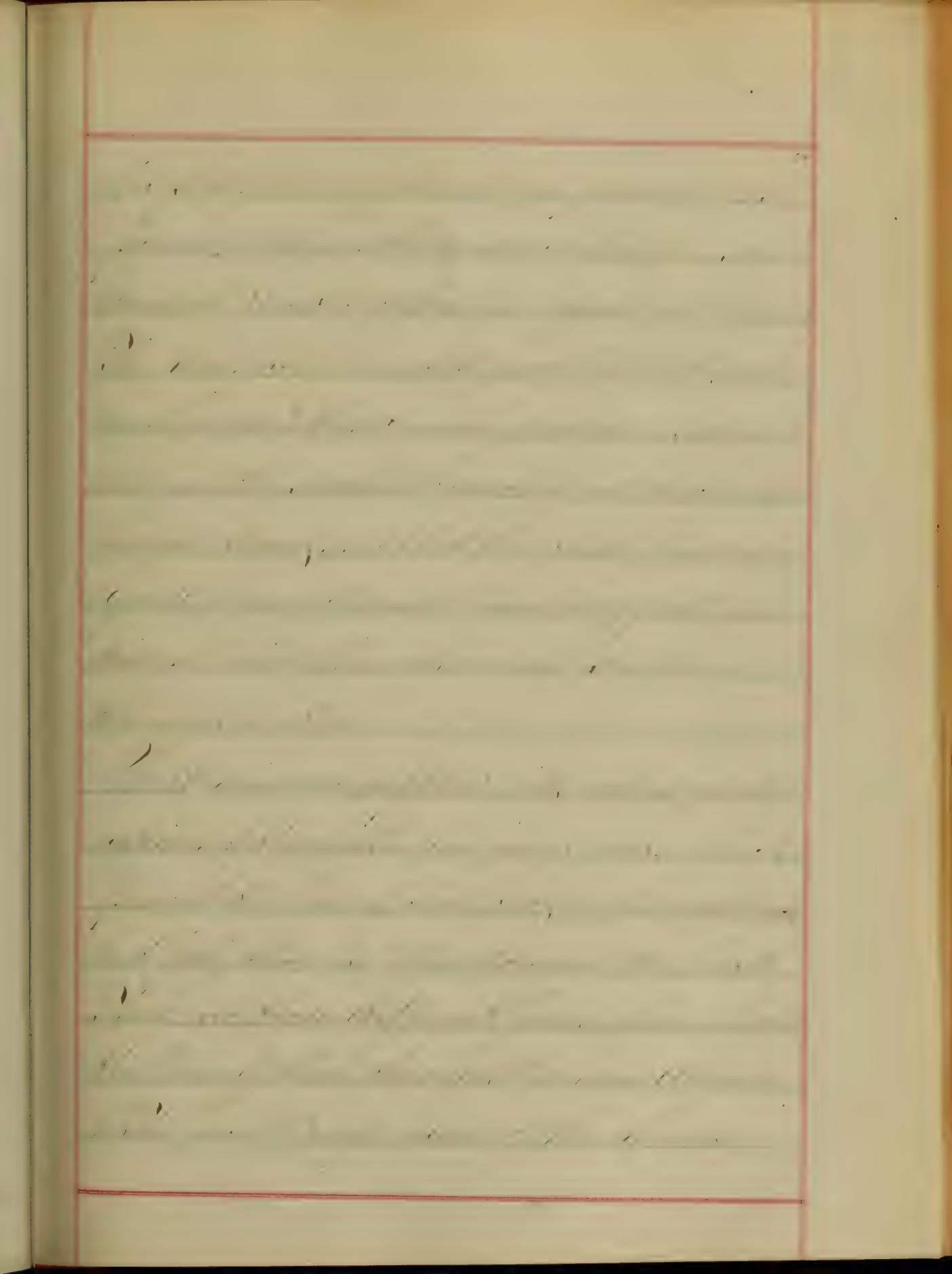
at the time of our meeting  
at 10 AM we were still in  
contact with the Chinese who had  
been at Chongming. We had  
arrived at the mouth of the Yangtze  
River at 8 AM. In the afternoon  
we followed the coast of China  
very closely, and after a long  
and fatiguing day, we had  
arrived at the open sea, far  
from our destination. Considering the  
circumstances, the crew of the  
vessel did very well, however,  
and I have no doubt that  
they will get us home again.  
whether or not we may have to  
travel overland, under  
difficult circumstances.

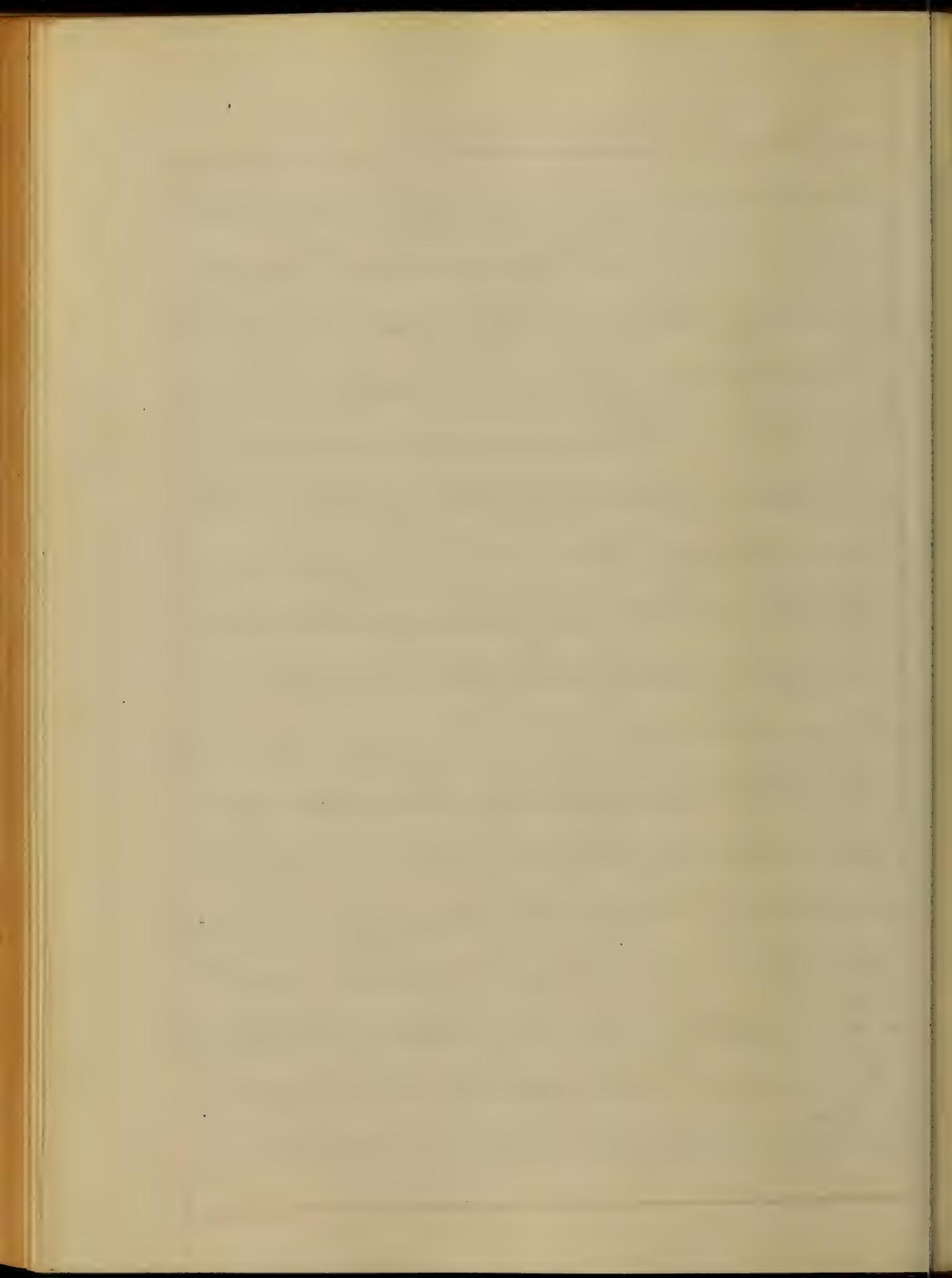


The circulating fluid having now passed into  
the arteries, it is distributed by them  
to the veins in order to have  
it removed from the body.

The Arteries & Veins are like the Joint in  
like the arteries composed of 3 coats, a  
Kernal, middle and external. The inter-  
nal coat is called the tunica intima  
it contains the elastic and muscular fibres.  
The middle coat is the tunica media  
the external coat is thicker than the others  
and similar to the external coat of the arter-  
ies. The walls of the veins are very much thin-  
ner than those of the arteries.  
They are however more pliable, & are con-  
sidered easier to be divided than the

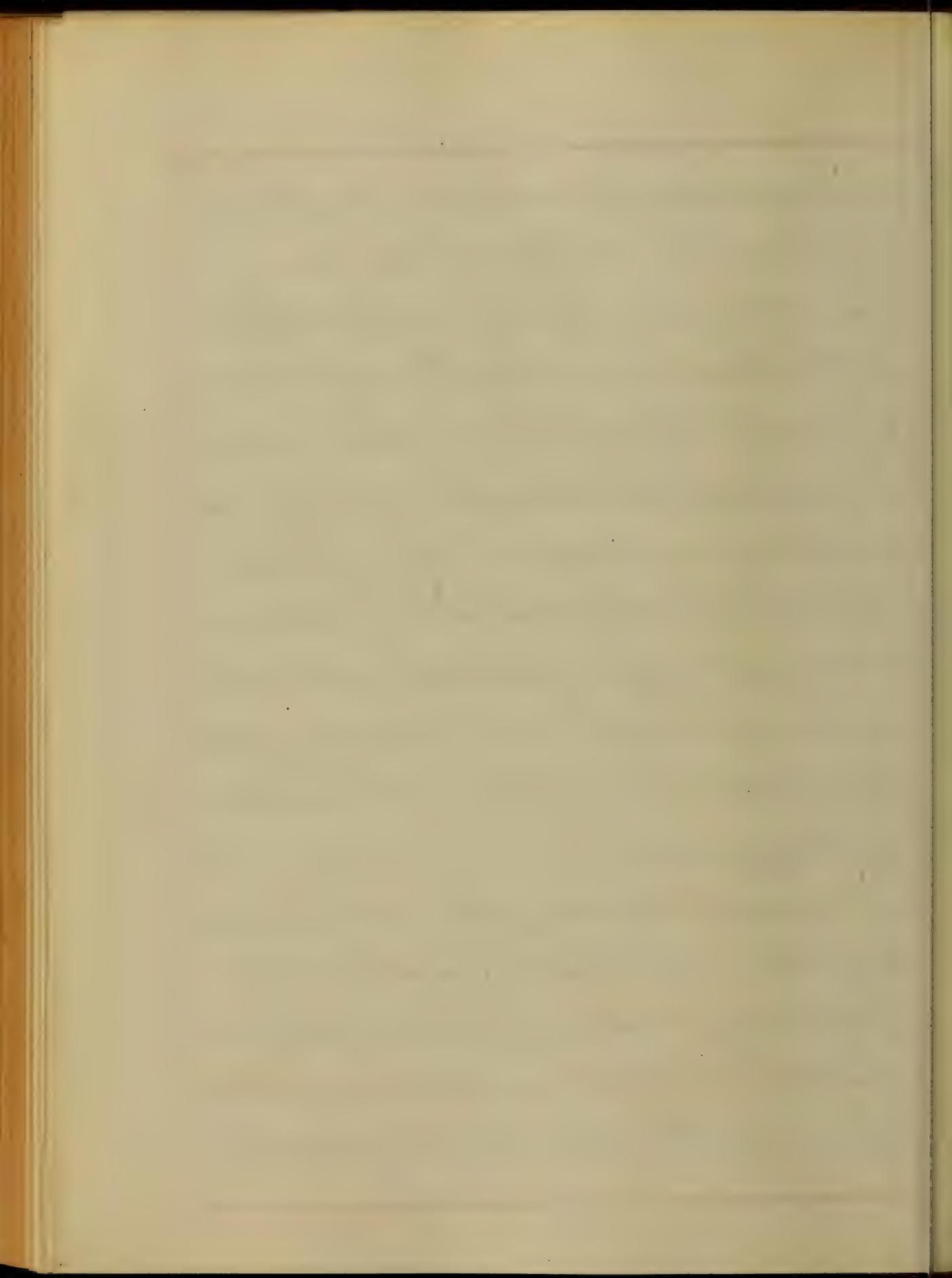






5. The following observations were made.  
The body was found lying on its side  
the chest being ex tended by the respiration  
which was rapid and feeble. The heart  
was still pulsating but very weakly.  
There was no pulse in the carotid arteries  
and the pulse in the femoral arteries was  
feeble and irregular. The respiration  
was also feeble and irregular.  
The following symptoms were observed  
in the body.

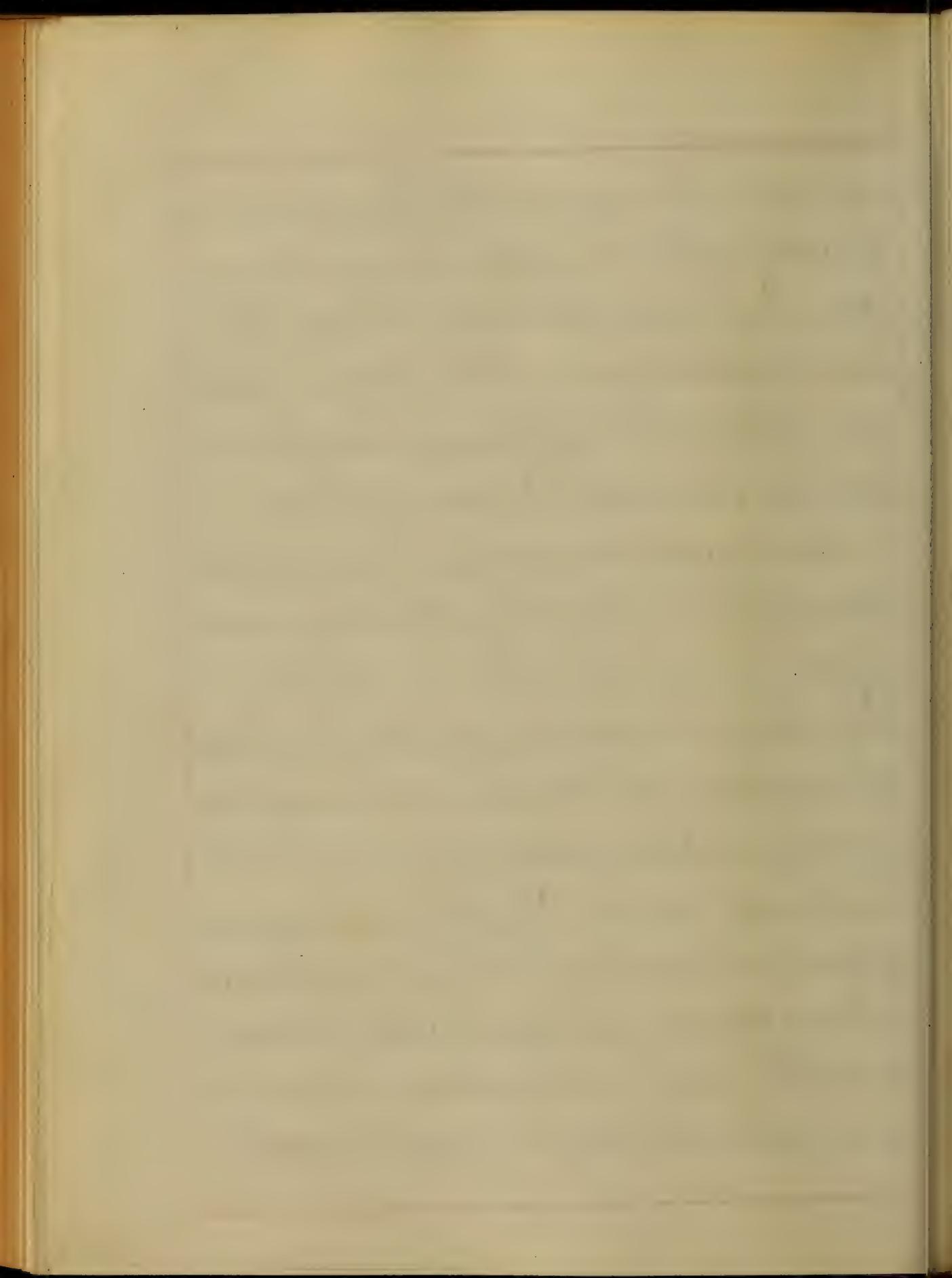
6. The veins which run along the blood vessels  
were dilated and filled with a  
yellowish serum, which must be a  
consequence of contraction and  
distortion of the vessels.



connected pieces written laterally as

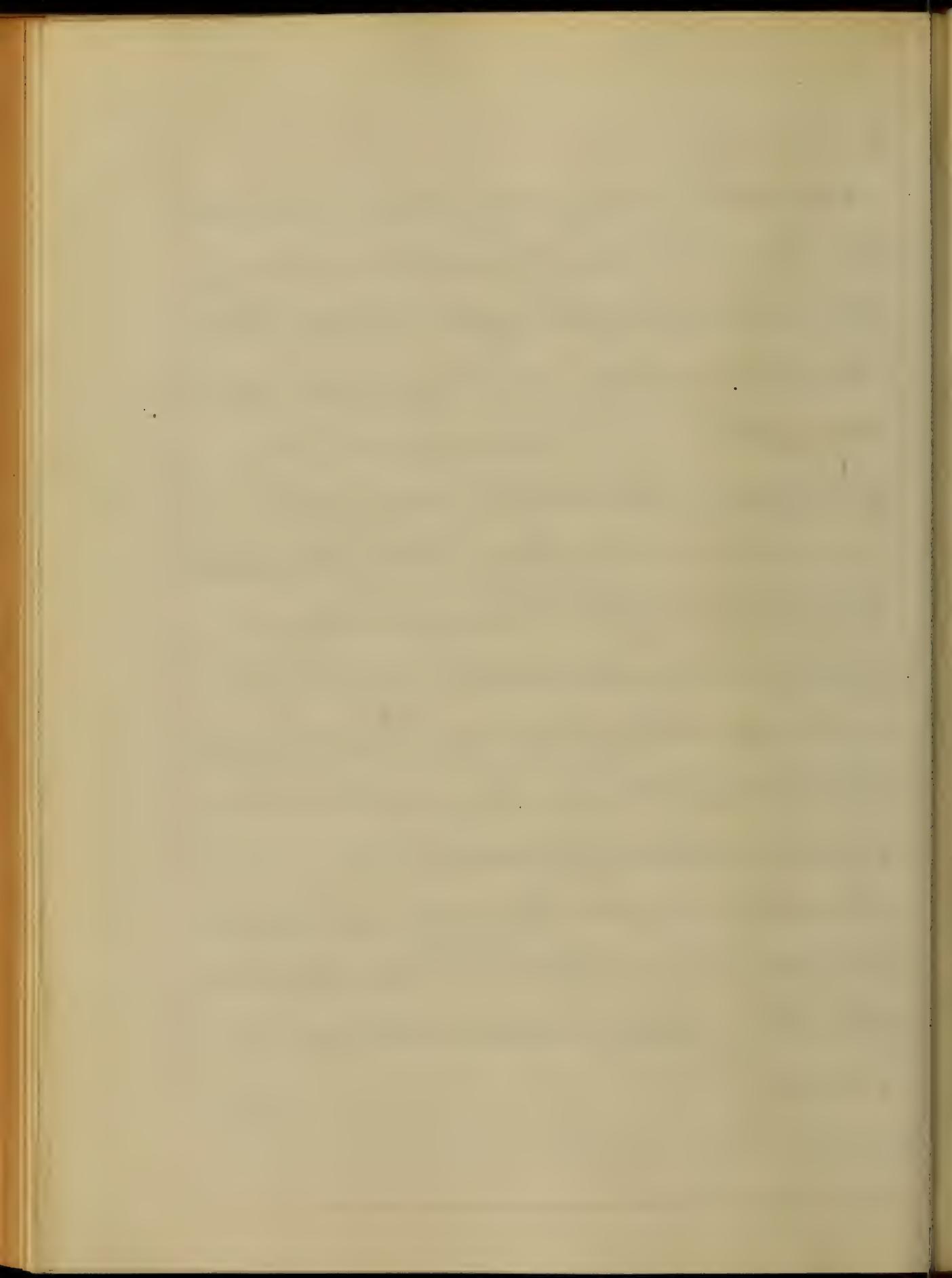
Guillotining, -  
line. The closure of the veins of the  
body is often a cause of death, and  
you will find the body of the animal  
dead at the spot where it was cut.  
This, however, is not always the case,  
as you will find the animal still alive  
when you have cut through the  
veins.

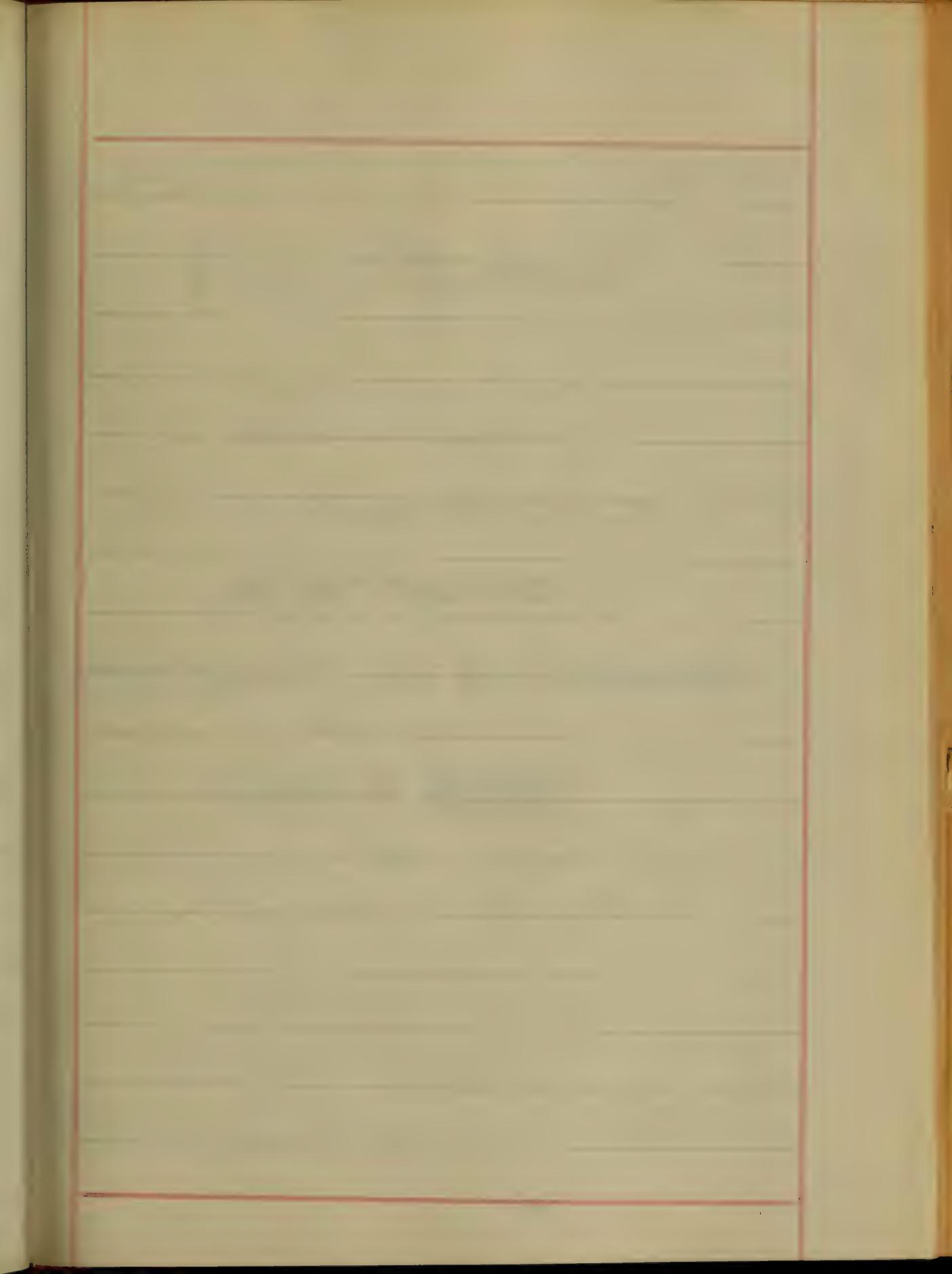
The first thing which  
is noticed is that the animal becomes  
pale. This is because the blood is  
continually active. The steady and con-  
tinued accumulation of blood in  
varies gradually forces the blood  
into the veins so that the animal  
will die without any movement.

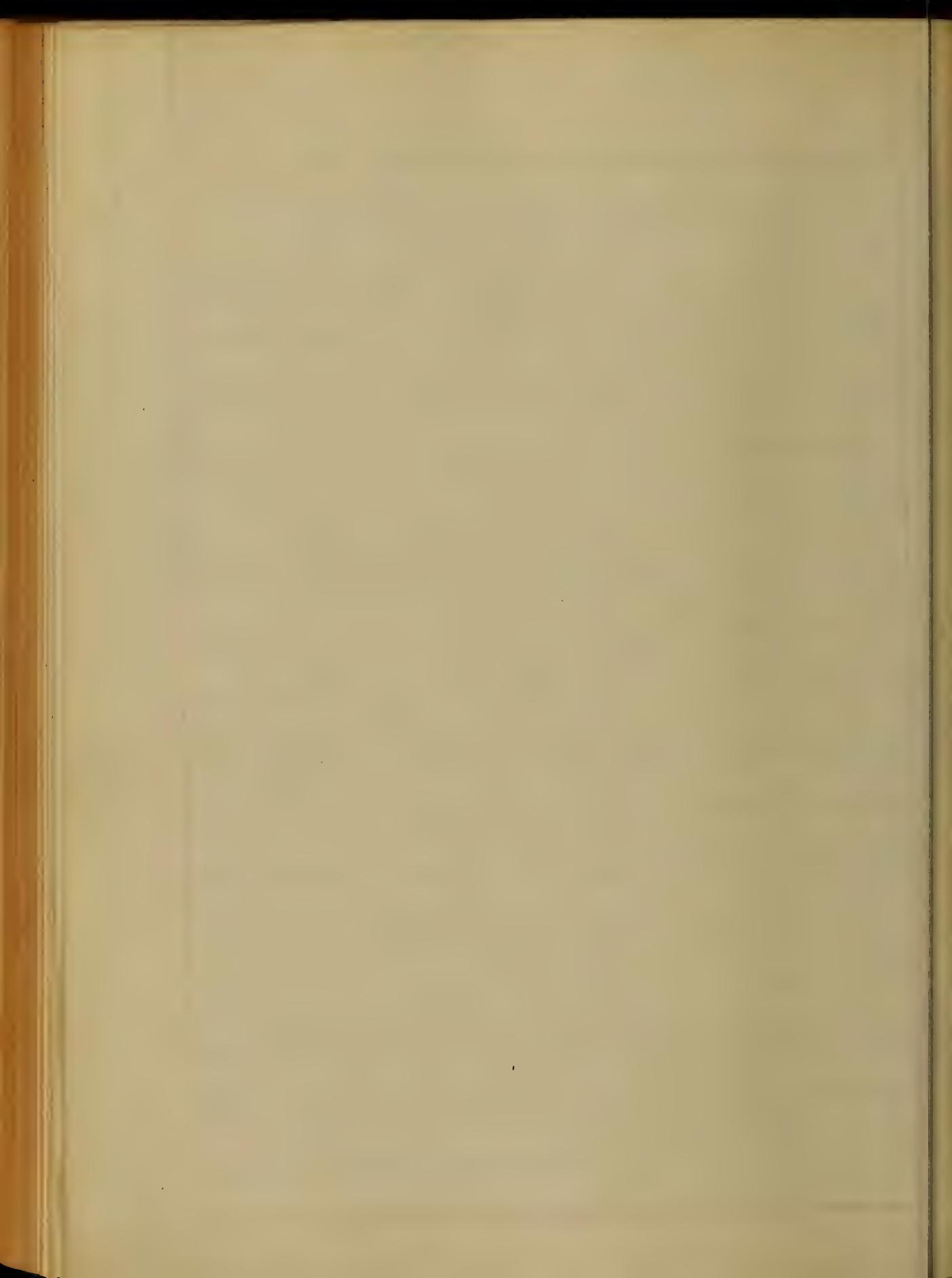


and in the air where it is  
the case whether any one of  
the wind or of the sun's power  
has by far the greater  
power.

The merit of the one or the other  
which affected about twice that of the other  
is in God's power. The one  
which was so disturbed with flood as  
to cover all the land, & the other  
which was not so disturbed, has been  
considered to be the more powerful.  
According to the former opinion then  
you calculated that the flood covered  
the earth, from which you may  
conclude





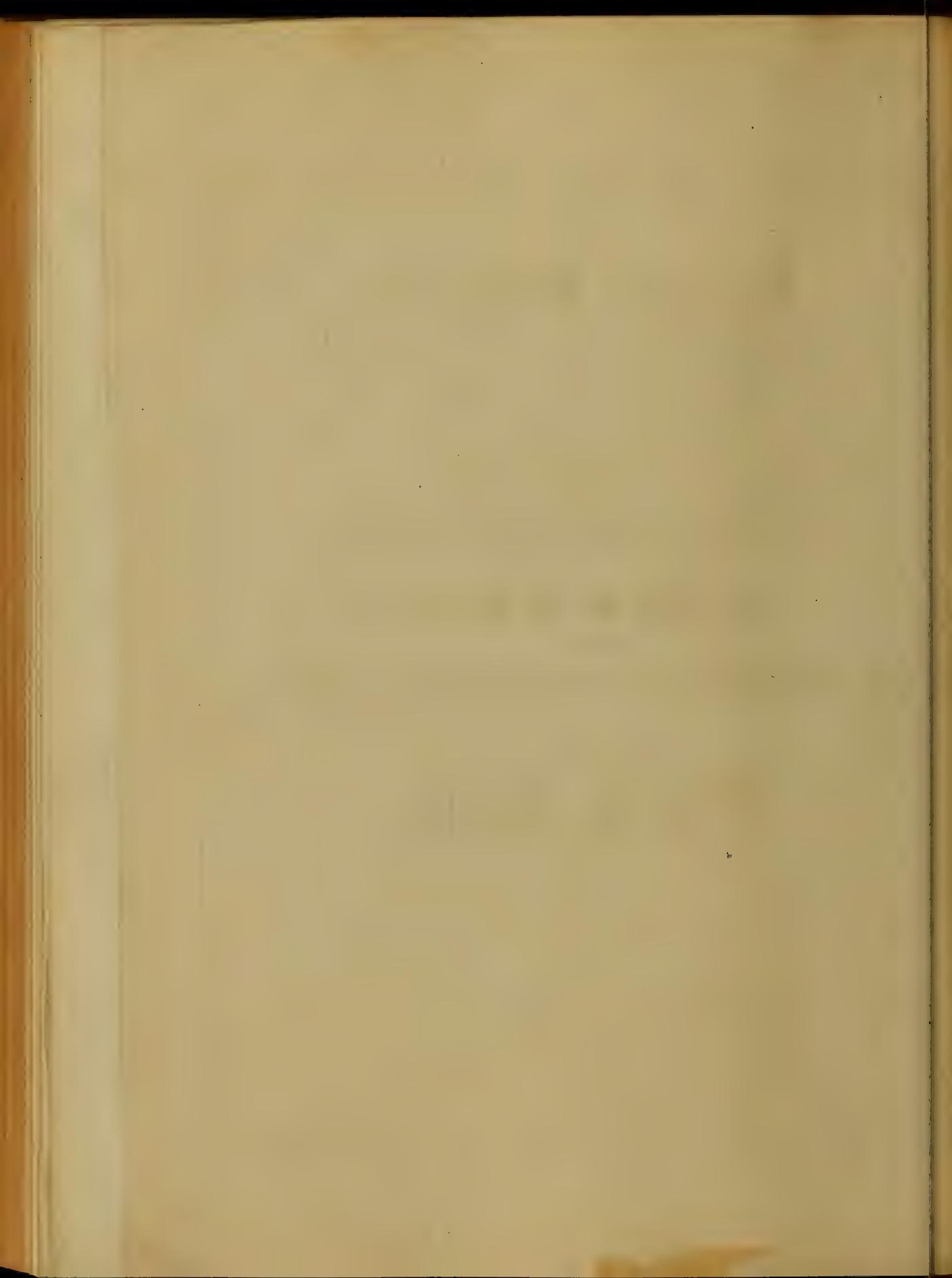


AN  
Inaugural Dissertation  
ON  
*Tuberculosis.*  
Submitted to the Examination  
OF THE  
Provost, Regents and Faculty  
OF  
**PHYSIC,**  
OF THE  
UNIVERSITY OF MARYLAND,  
FOR THE DEGREE OF

DOCTOR OF MEDICINE,

Wm. L. Russell.  
of Maryland.

Session of Anno Domini 1868 A.G.



# Tuberculosis.

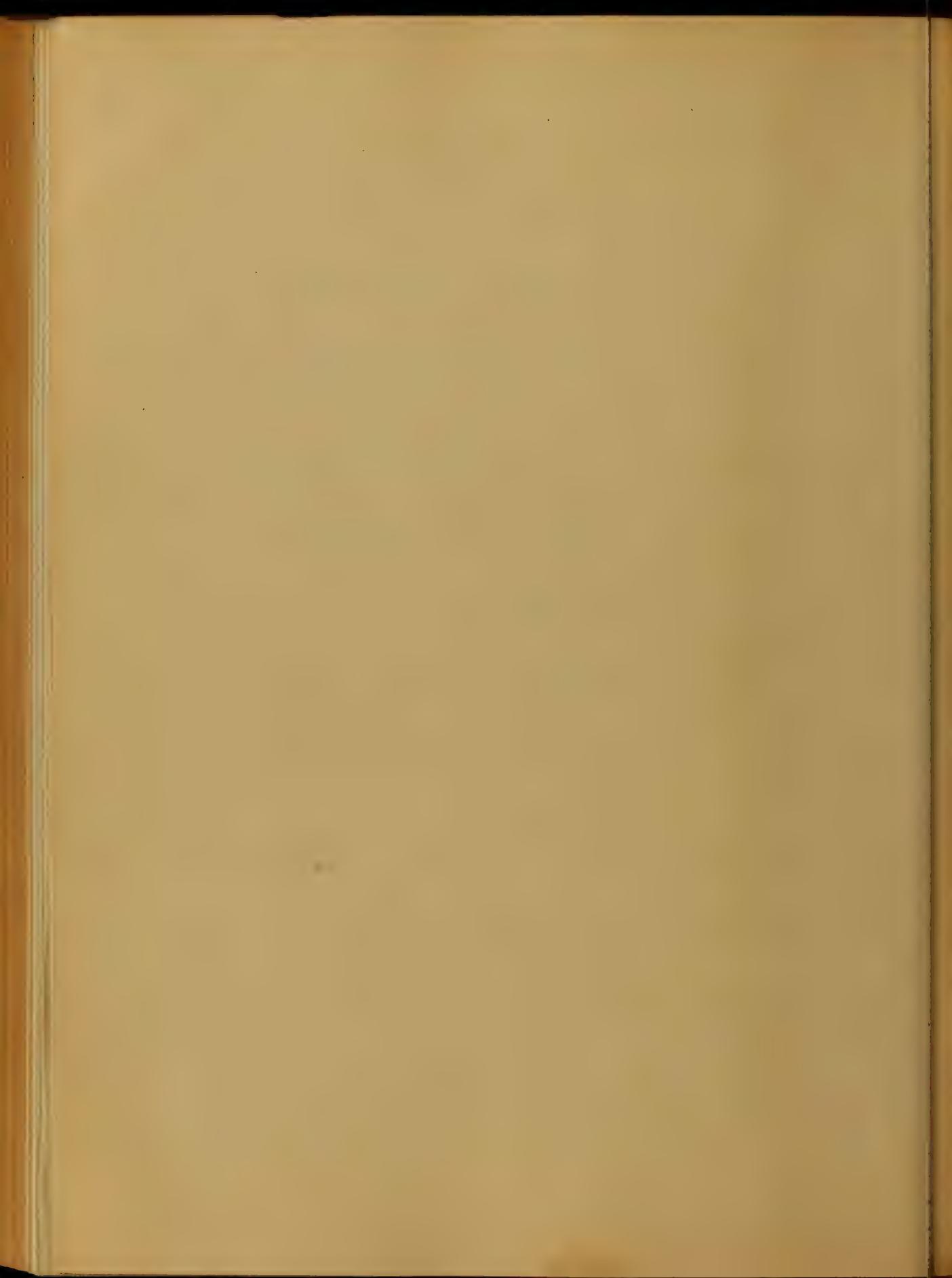
Tuberculosis is the commonest and most fatal disease to which the human race is liable. Occurring at every age, and in every rank of life, it selects the most beautiful and gifted as its victims, and induces months or years of weary suffering. What need then for further



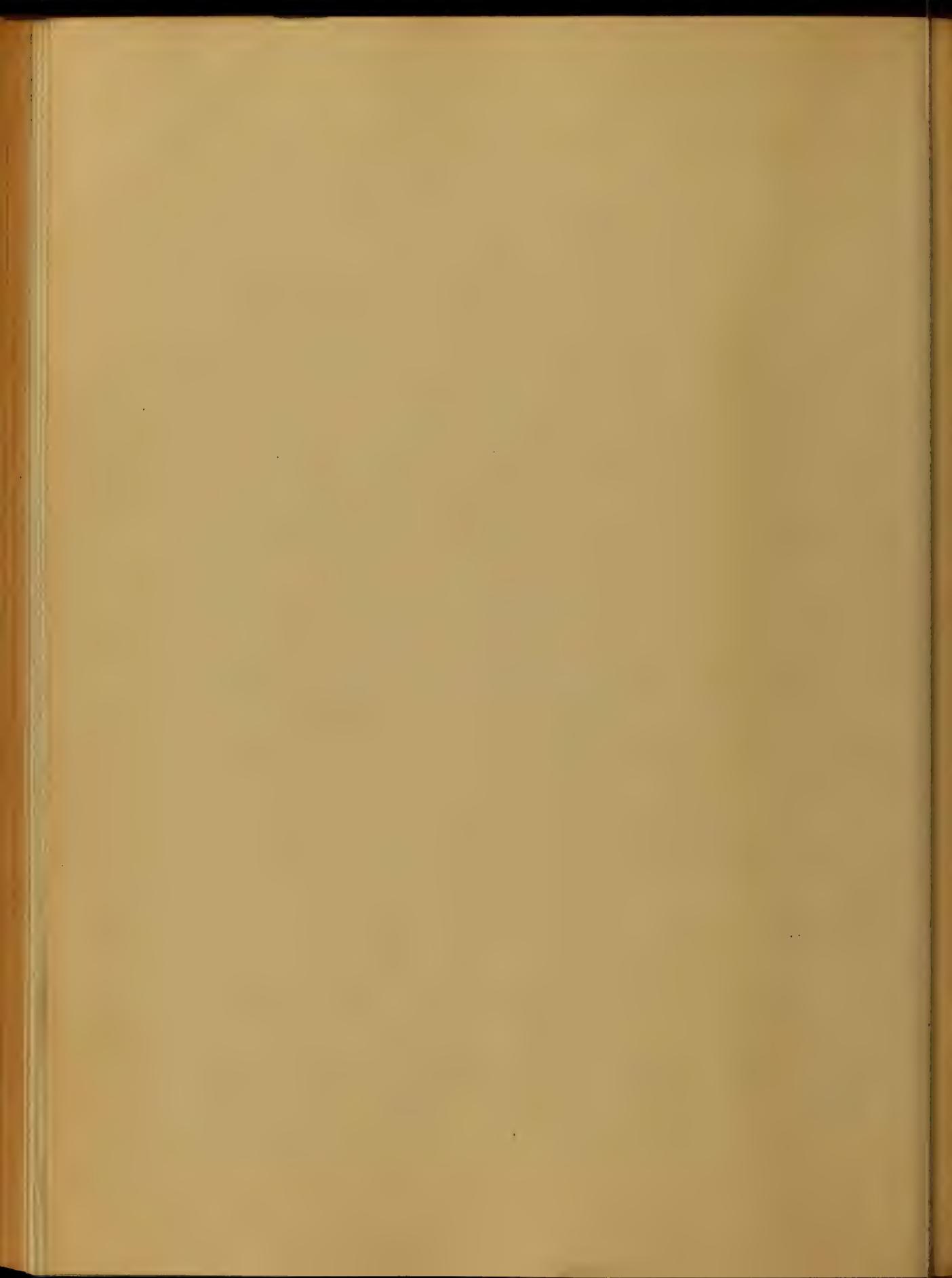
inducement to a careful study  
of its character -- , to a diligent  
inquiry as to whether something  
may not be done to prevent its  
occurrence , , to retard its de-  
velopment , or arrest its progress ?

With a view to ac-  
quiring accuracy it will be des-  
irable to commence by an inquiry  
into the nature of Chilosis,  
and with this point we find it is  
played by phenomena, the easier  
in causing the fatal result  
of the disorder .

It may be plain  
that Chilosis is a tendency



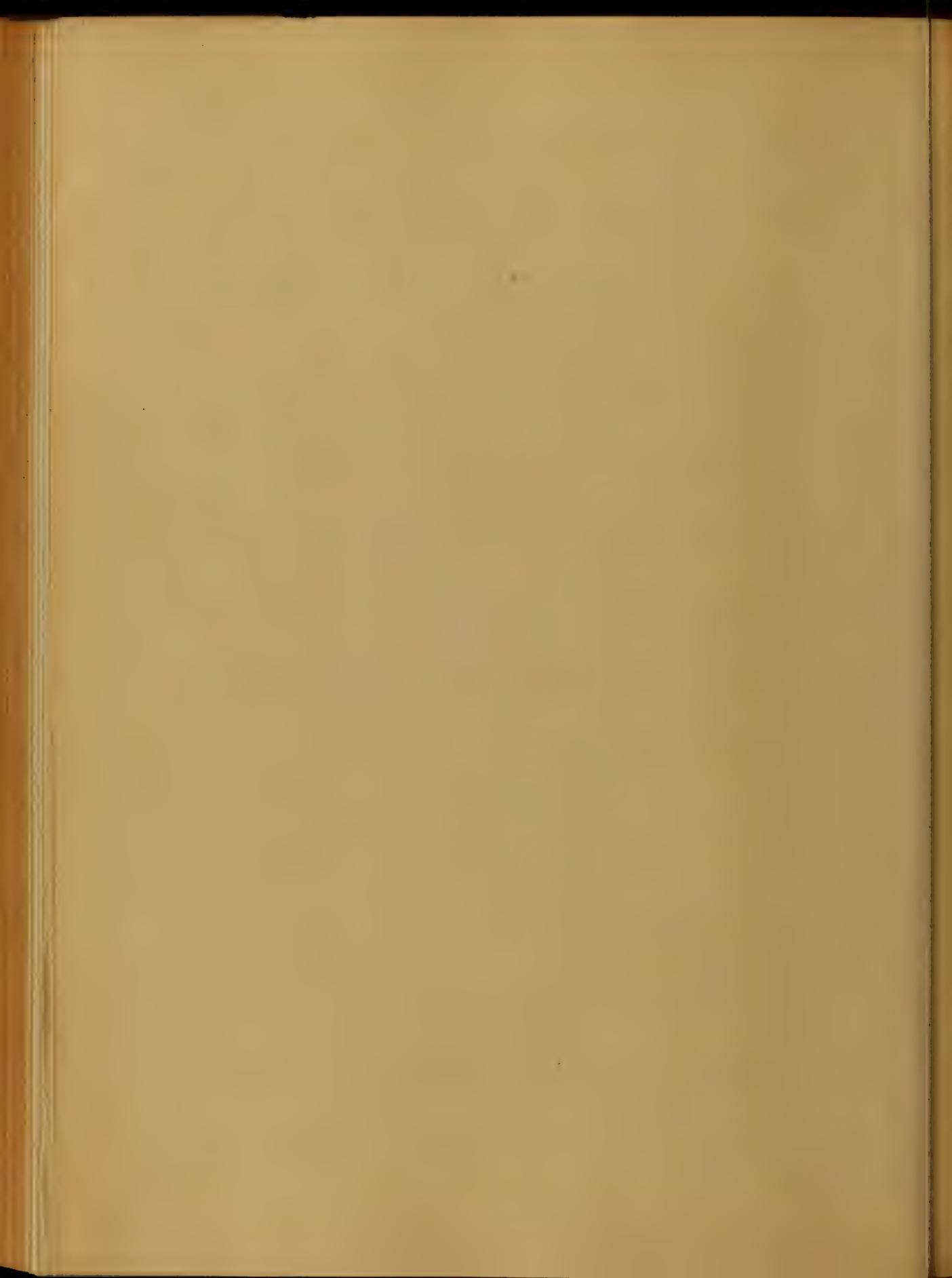
a constitutional disease, and is closely connected with perverted nutrition and imperfect Sanguification. Here, the blood, having become vitiated to a certain point, an unorganized substance, which has been termed "Tubercle," is deposited in various parts of the body. As this product or material is not deposited indifferently in all parts of the body. It affects certain organs or parts in preference to others, and more frequently, as the lungs. Hence the disease is often designated by the name Phthisis Pulmonalis (Pulmonary).



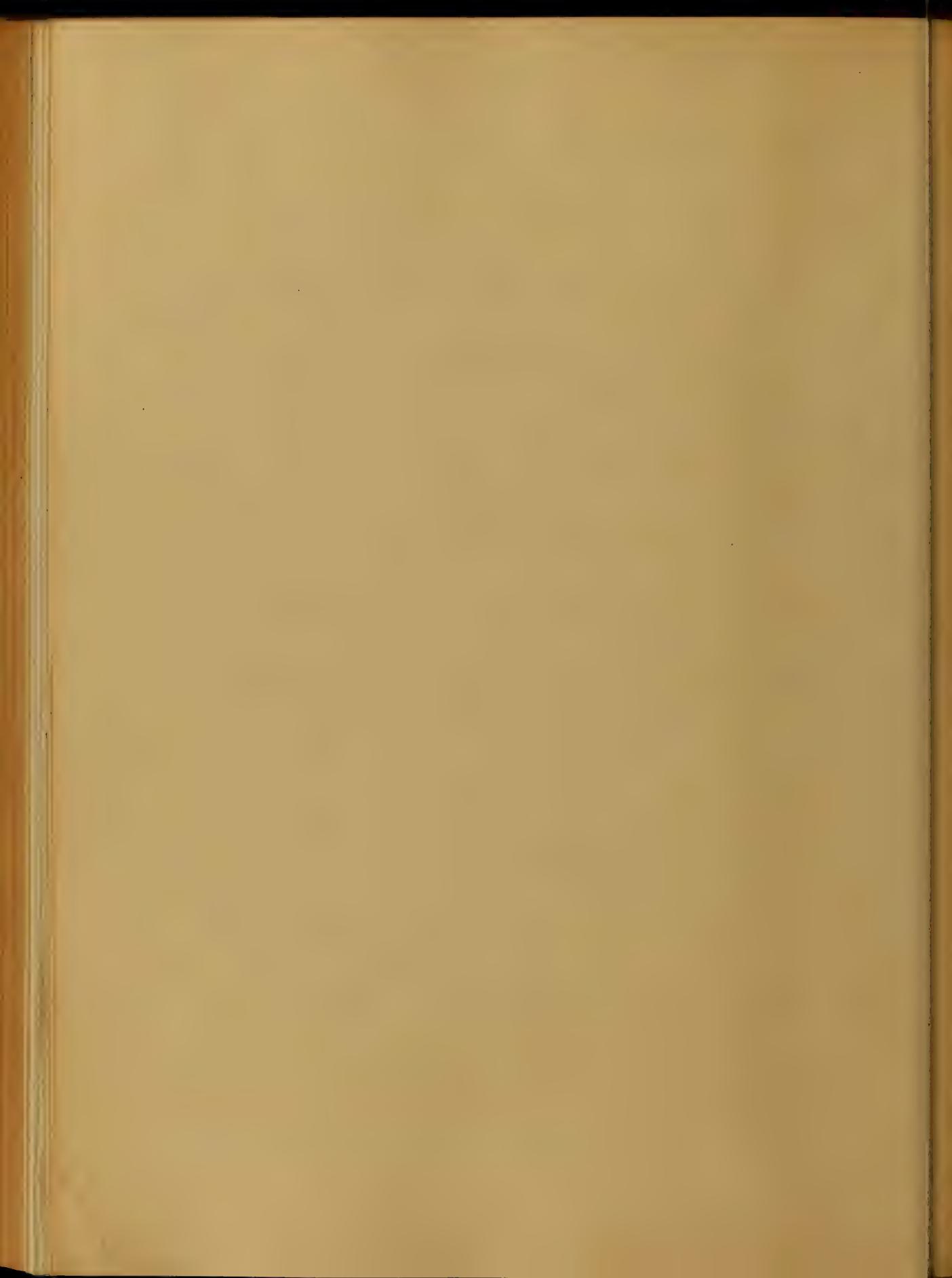
Consumption &c. — Terms, which, though expressive of one of its commonest and most characteristic features, ignore its constitutional origin, and for that reason it follows that more appropriate titles are Consumption, This is a Consumption, which do not convey the incorrect idea that the disease is of pulmonary origin.

The inquiry to be made is — "In what does this Constitutional derangement consist?"

It is not so easy to give a definite answer to this question, but a few hints may be indicated.



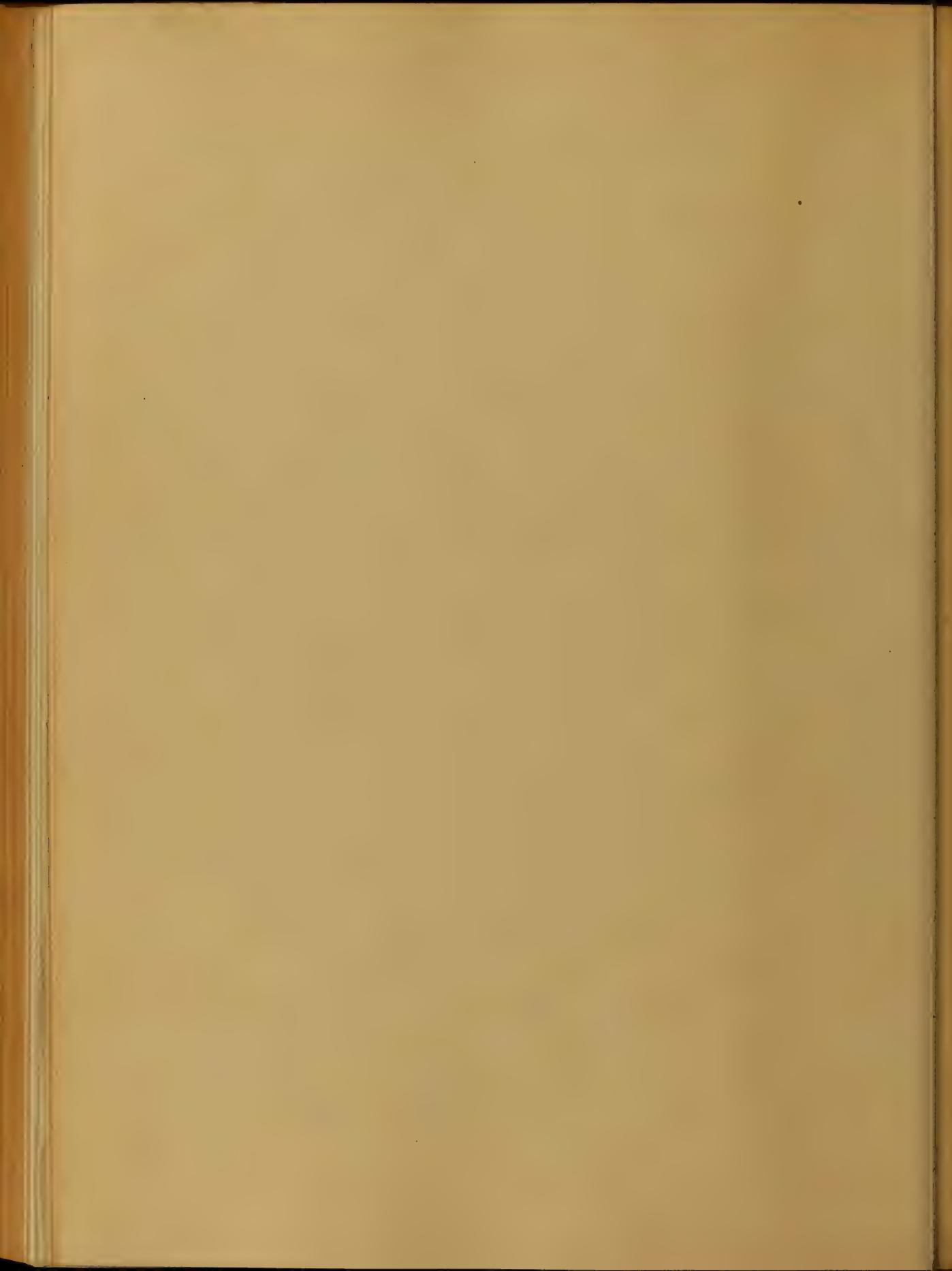
which may throw some light on  
the subject. Chemistry has  
shown that the blood in Tubercu-  
losis contains an excess of water, in  
proportion to its solid ingredients,  
that it exhibits a relatively increased  
amount of Albumen, and is defi-  
cient in Fat and Red Corpuscles,  
is less Alkaline than in health,  
and is otherwise altered in charac-  
ter, while the general tendency  
of combined Chemical Changes.  
Microscopical research and Clinic-  
al observation has been to prove  
not only that the nutrient  
fluid is vitiated and impureish



ed, but that its vitality is below  
the natural standard.

The same inherent defect  
or infirmity is traceable throughout  
the organization of the body.

The structural peculiarities  
which characterize the disease are  
indicative of imperfect cell forma-  
tion, and extreme delicacy of  
the tissues, whilst the function-  
al derangements, in their ever chang-  
ing variety, are but evidence of  
the weakness of the different  
organs, and of their liability to  
become disordered by the various  
exciting cause. No other disease

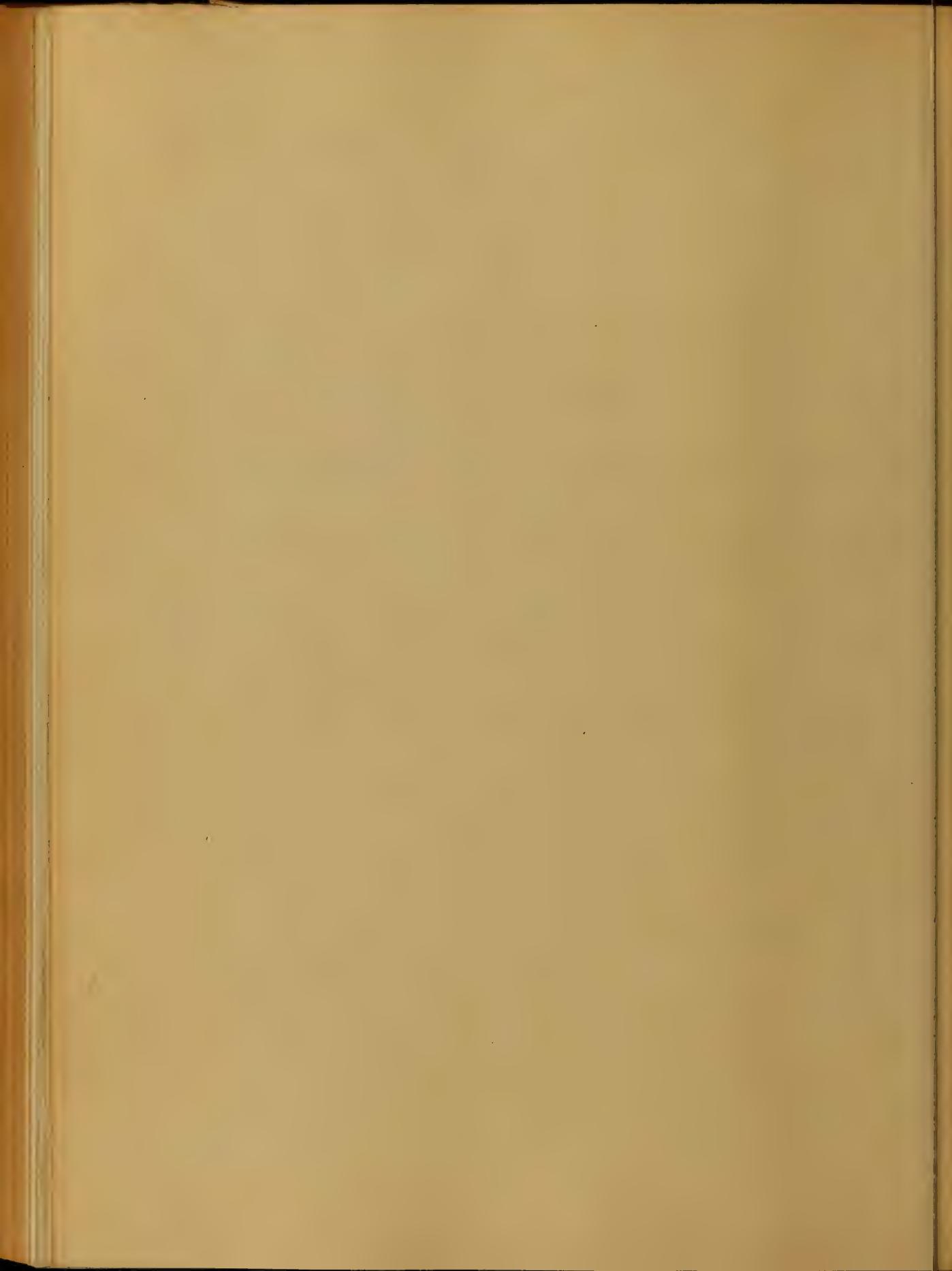


Consumption is attended by local symptoms produced by corresponding local irritation; there is not in the whole catalogue of human ailments a malady which more strictly deserves to be classed among Constitutional disorders.

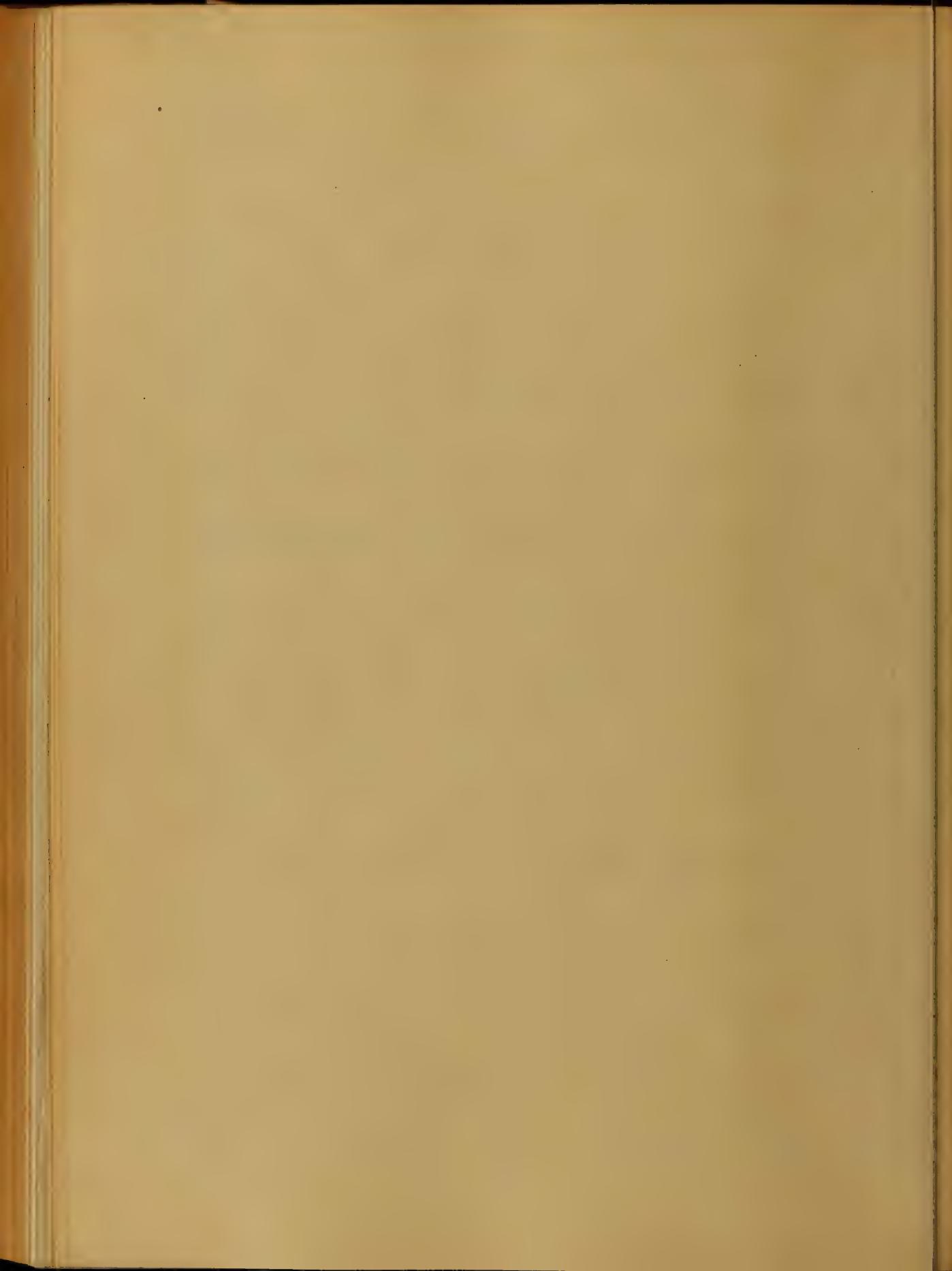
But what is the starting-point of this arrangement?

A variety of theories have been advanced on the subject.

Some have referred the disease to imperfection of the primary processes of digestion, some to secondary mal-absorption and mal-nutrition of the blood,



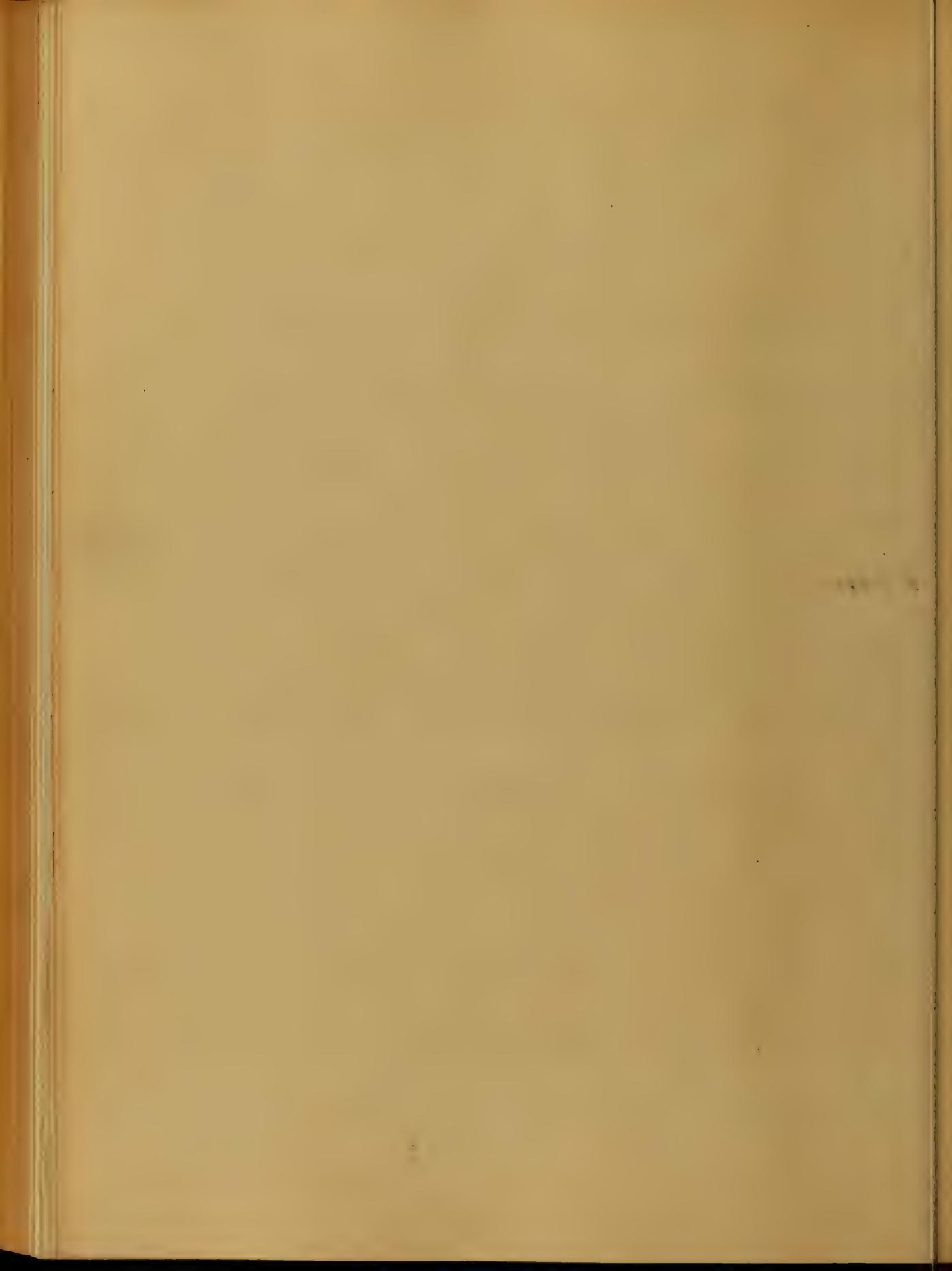
, some to a morbid condition  
of the lymph - , some to a spe-  
cific poison in the blood - ,  
some to want of power in the  
organic nervous force - , some  
to imperfect respiratory action  
- , some to deficient oxygena-  
tion of the blood, and others  
to a variety of causes needless  
to enumerate. Whatever the  
disturbing cause may be, the  
conditions which are inevit-  
ably antecedent to the forma-  
tion of tubercle are - defective  
vital formative power in low-  
erished blood, imperfect assimila-



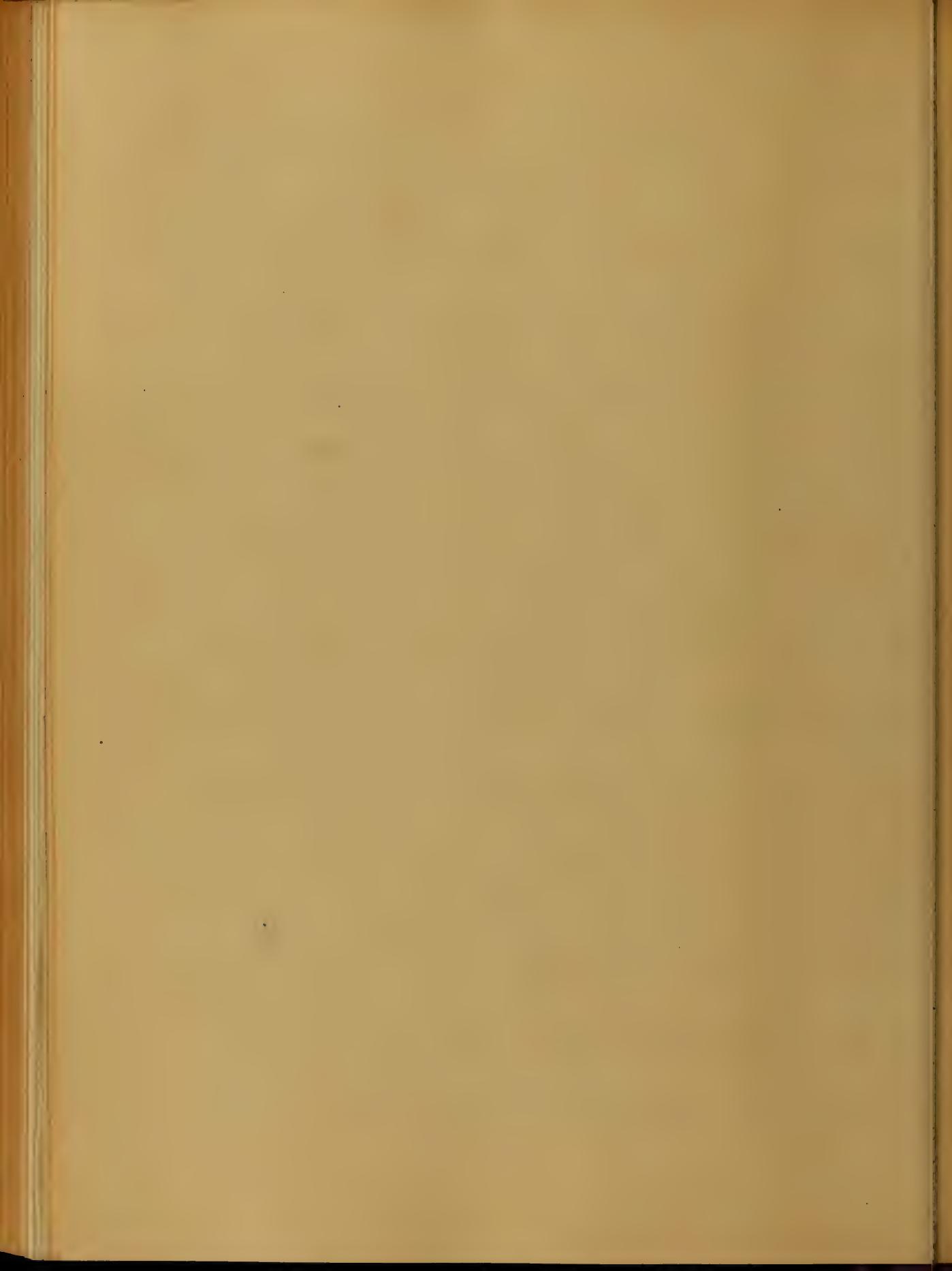
tion, and general mal-nutrition.

These constitute the signs of Phthisis, and this leads to a consideration of the predisposing and exciting causes of the disease.

It will be manifest from what has been stated that among these must be classed a great variety of agencies: first, the inheritance of a tuberculous tendency; second, long-continued exposure to cold and wet, improper or insufficient diet, irregularity of living, insufficient exercise, unhealthily and sedentary occupations, i.e. con-



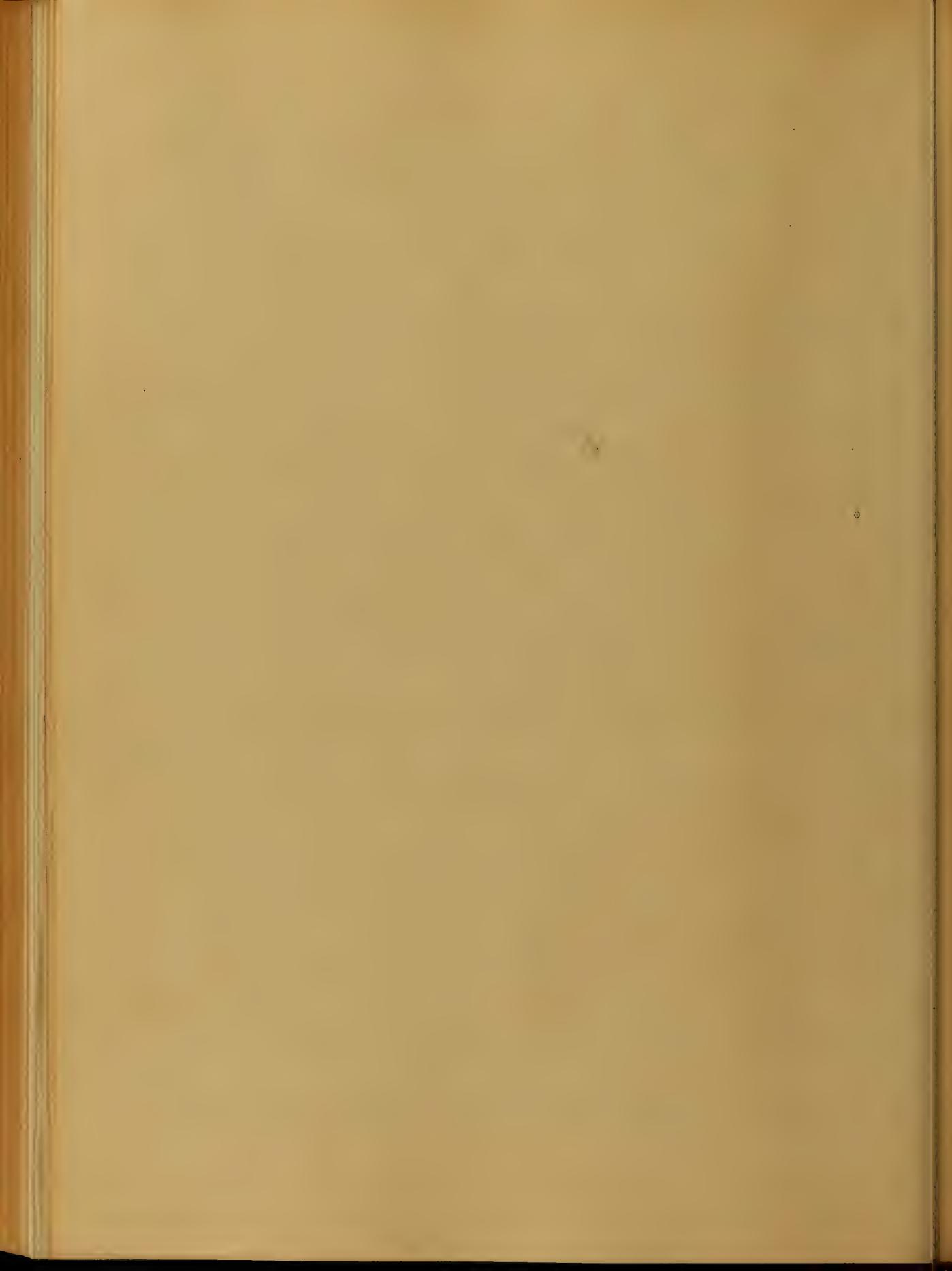
stant inhalation of an impure atmosphere, the depressing influence of an unsuitable climate or locality, the indulgence of excessive sexual intercourse, vicious habits, overprotracted lactation, and long continued grief and mental anxiety, are among the causes which most powerfully predispose to the invasions of Consumption, whilst irritation and congestion of the lungs, whether produced mechanically or through the agency of diseases which in the absence of a fresh infection



To tubercle, would pass away without producing the development of Consumption, may be regarded as its most common exciting causes.

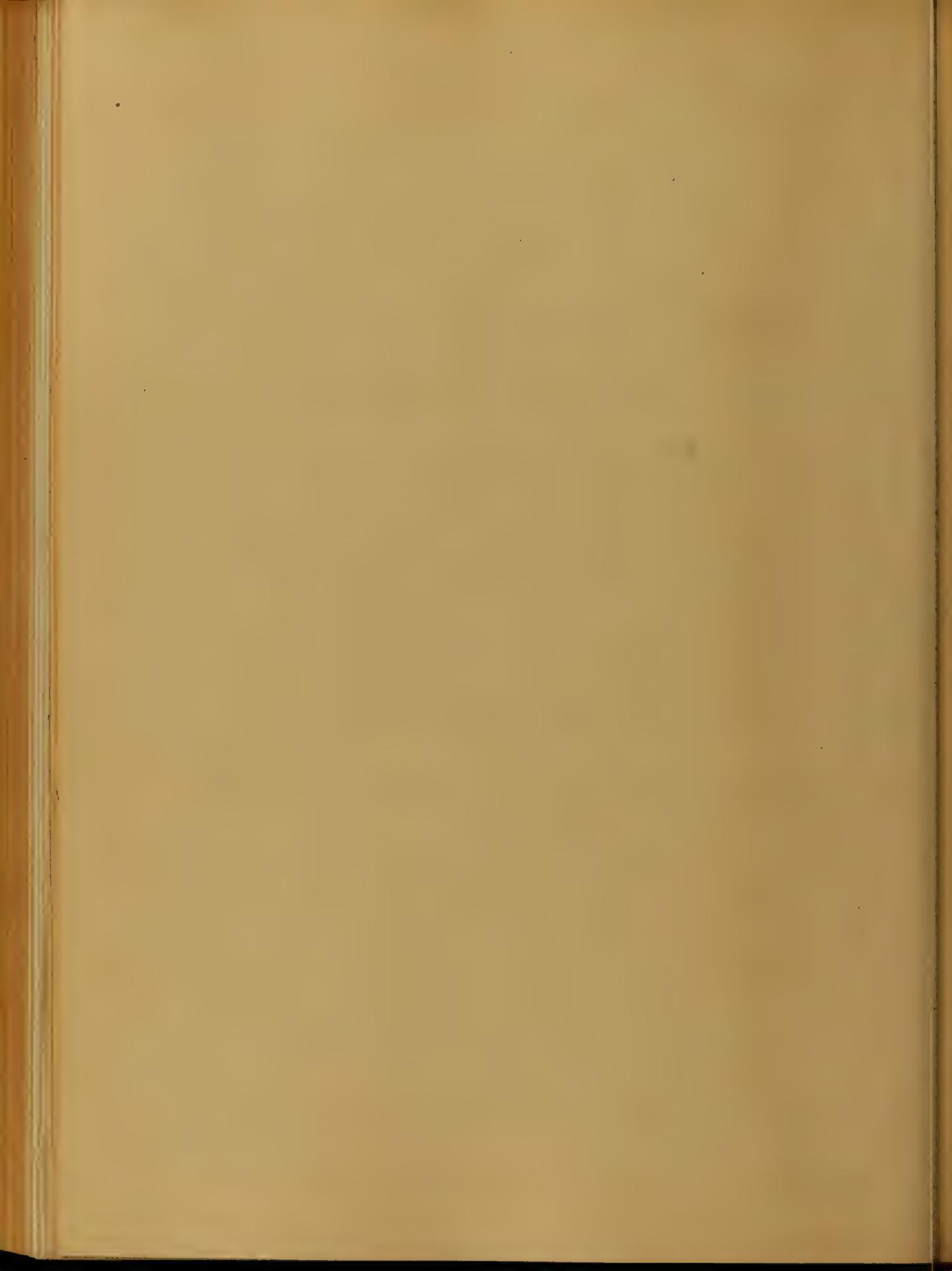
#### Common observation

has stamped consumption as an hereditary disorder, and among the laity the opinion is entertained that in a vast majority of cases the disease is traceable to hereditary taint. "We have no Consumption in our family" is considered a conclusive reply to the inquiry whether certain symptoms may not be attributable to that disease.



Facts show the tuberculous diathesis, in a certain majority of cases, to be congenital and inherited. Why a peculiarity of constitution, rendering a person specially liable to the development of this disease, should be transmitted from parent to child cannot be explained, any more than the fact that peculiar traits of physiognomy or mental character are inherited.

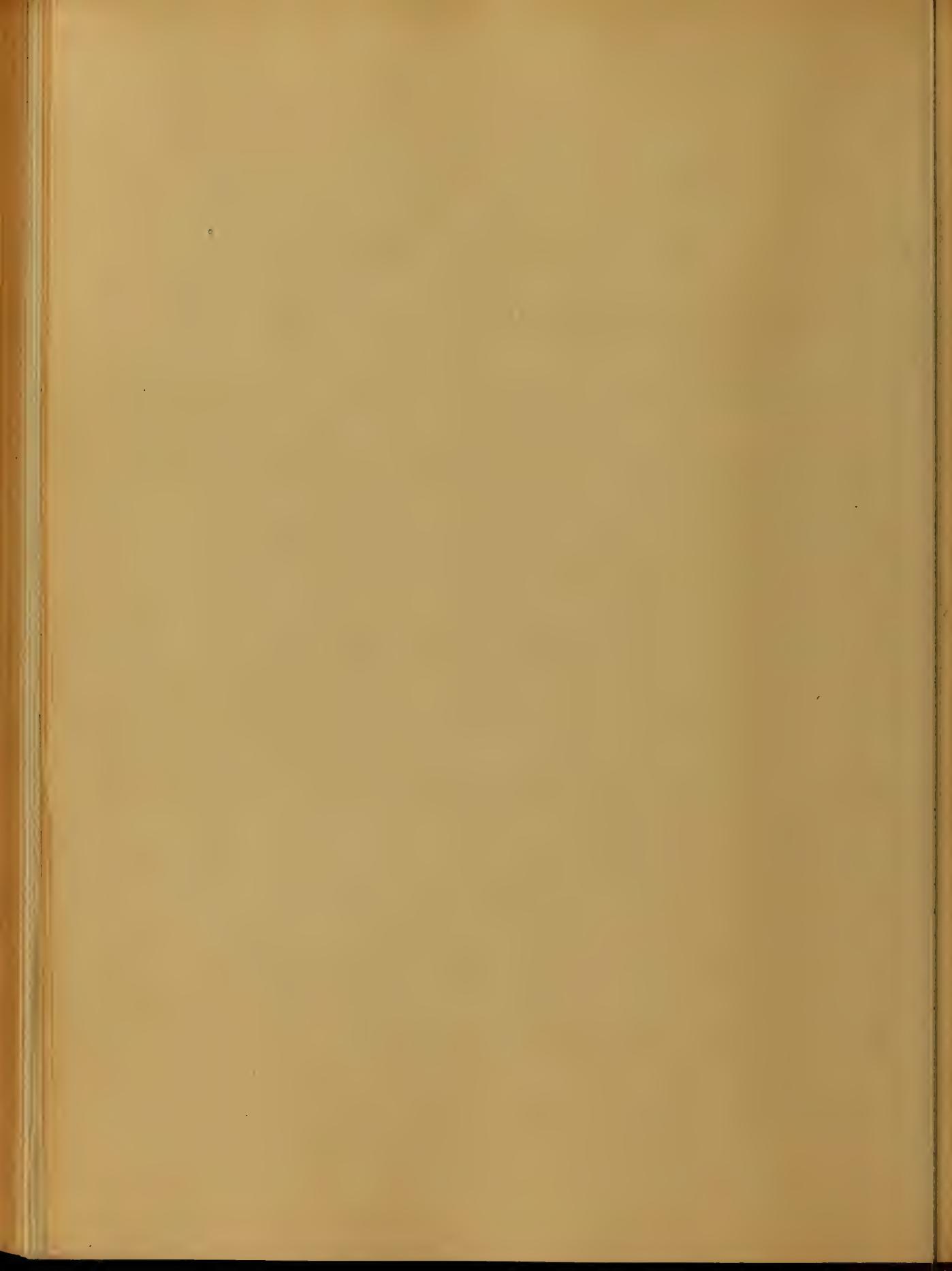
But it is also to be borne in mind that, owing to the frequency of the disease, a large proportion of tuberculous parents now have Consumption by mere co-



incidence, and it may be true  
that, sufficient consideration not  
having been given to this fact,  
hereditary influence may have  
been over-rated.

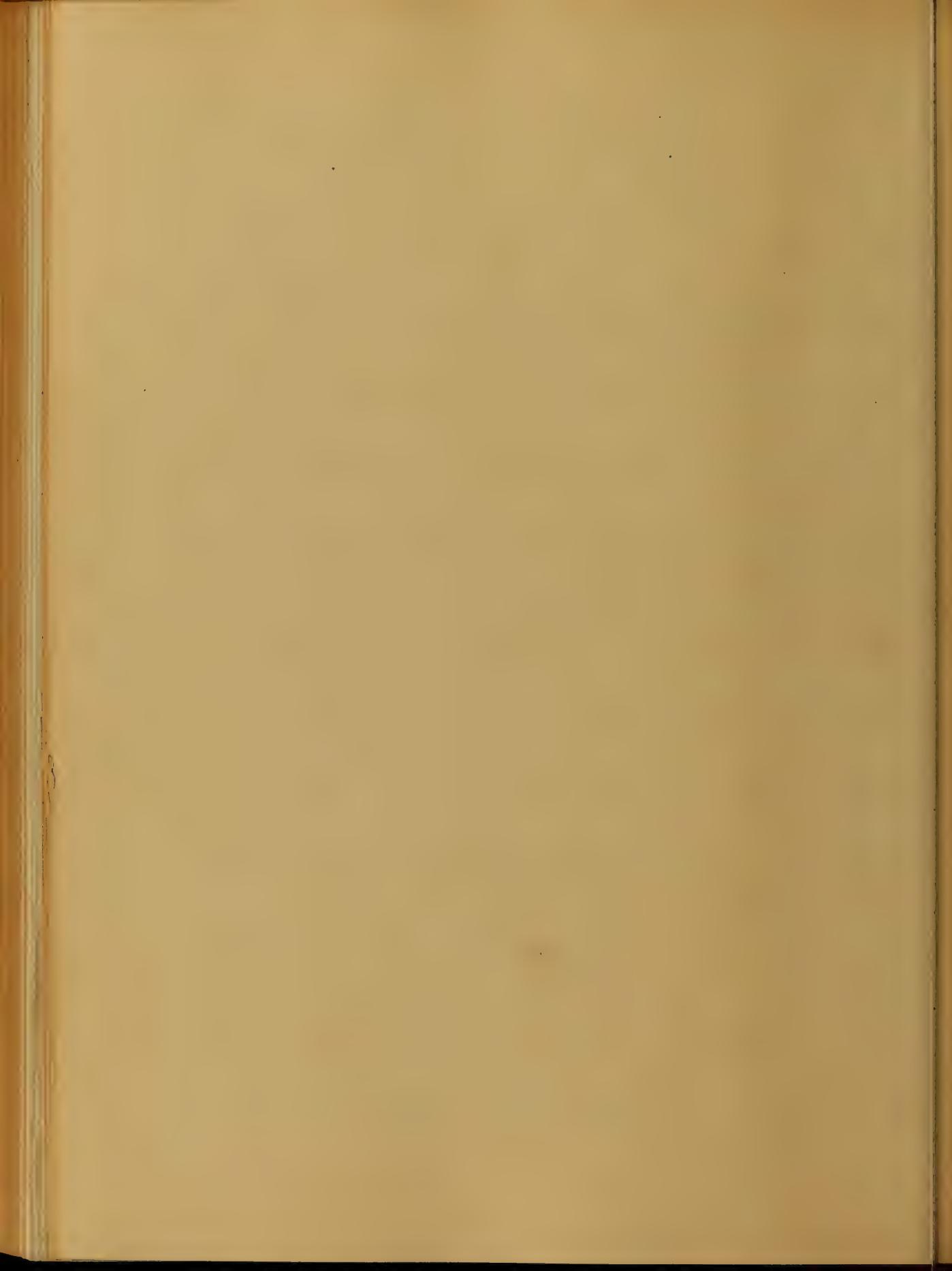
Without further  
discussing the, now-known, causes  
of tuberculosis, let us pass on  
to the consideration of tubercle,  
the material which forms the  
characteristic element of the dis-  
ease.

Tubercle is a  
substance formed from the blood,  
to replace material lost by the  
ordinary, natural, metemorphosis.



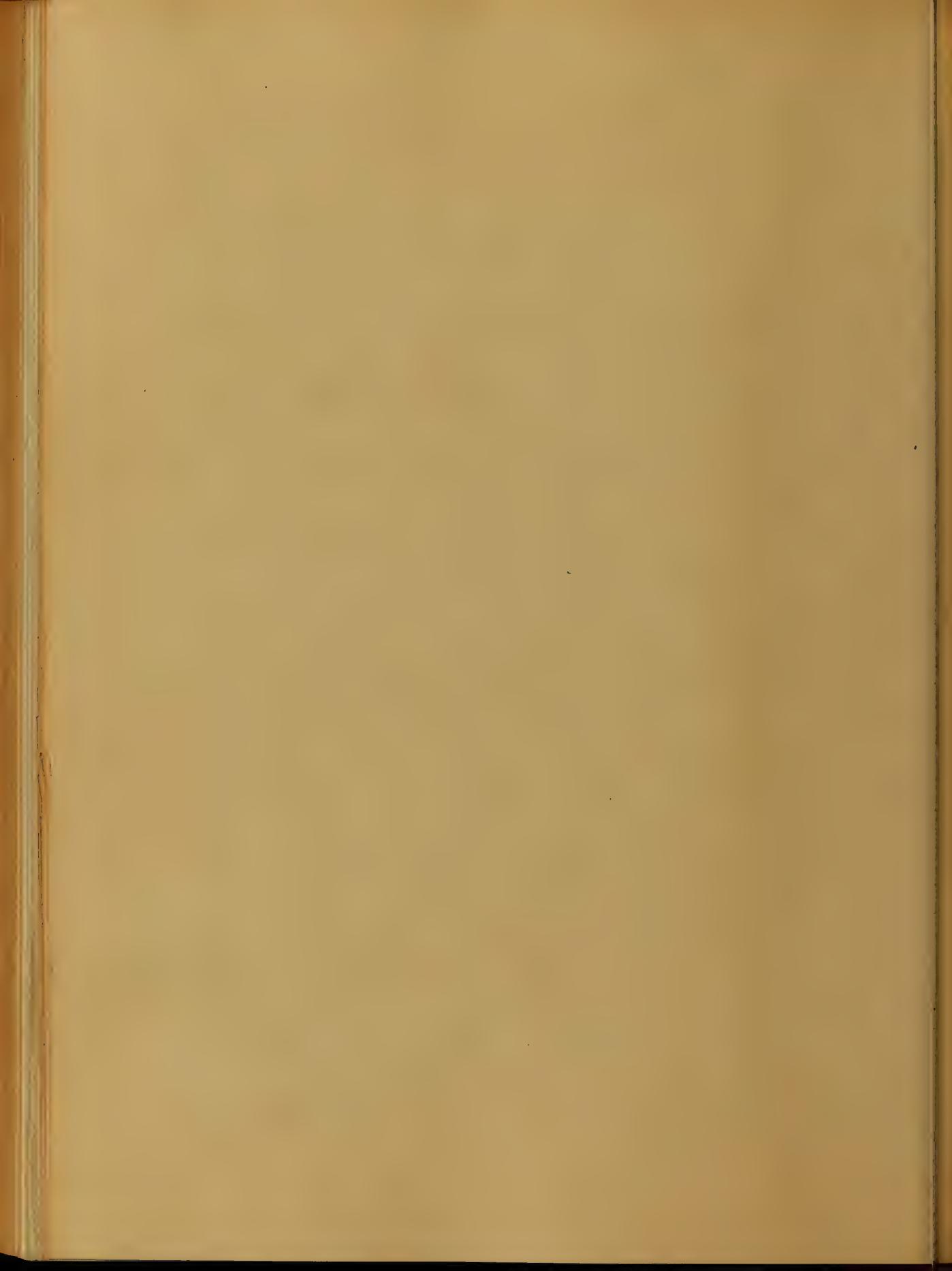
It is of imperfect organization  
and low vitality, unfit for the  
construction of new-tissues, or for  
the performance of the ordinary  
functions of the organ in which  
it may be deposited. The organ  
selected is not constant sometimes,  
one being attached sometime another  
but in every instance it plays  
the part of a foreign body, and  
damages, both by the extent of  
its own area, and by the inflam-  
atory action it causes, the organ  
in which it may be introduced.

In appearance it varies  
greatly, the variety observed be-



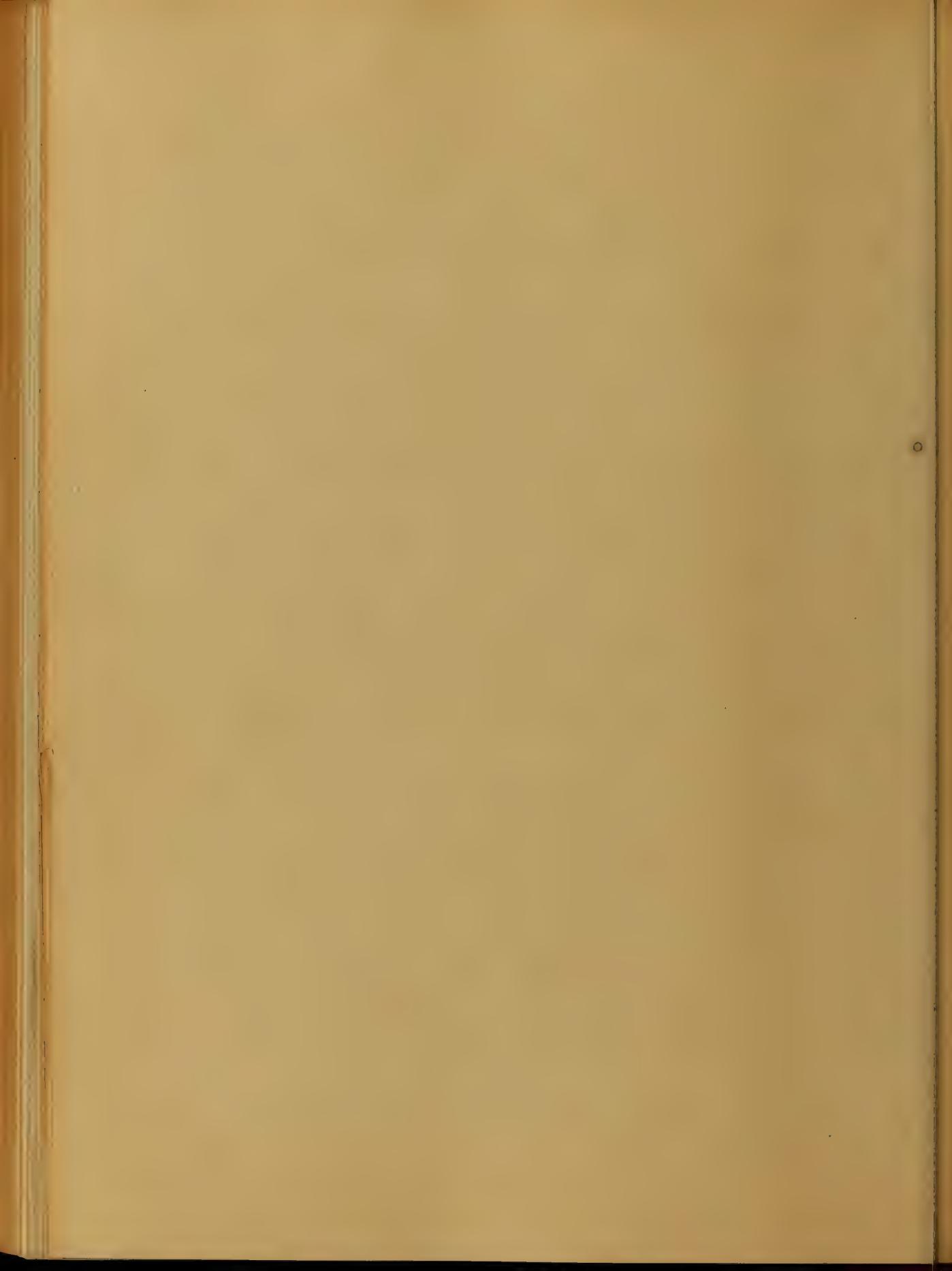
ing. - in part noticeable in differences in structure, but in part also, to the age or stage of development and extent of the deposit.

There are two forms in which it is chiefly recognized. In the one it appears as minute, firm, semi-transparent granules, of a bluish gray color, very difficult from ordinary mica, and known as "Gray miliary tubercle". These may be sparingly scattered through the lung, or may crowd their entire surface. In most instances they are broken, and sometimes are so minute



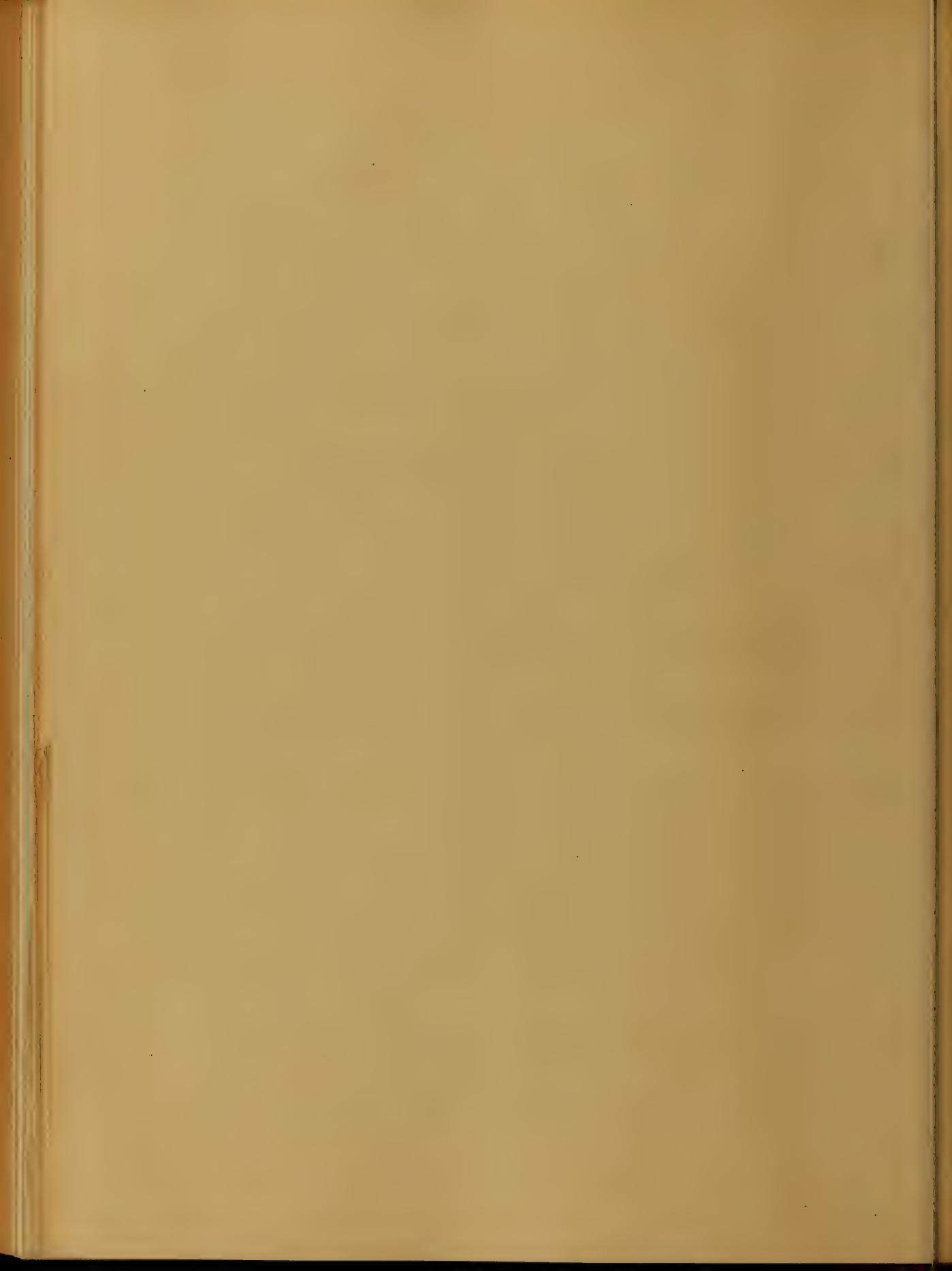
as to be scarcely discernible by  
the naked eye, will more common-  
ly they are about the size of a  
millet seed, and, occasionally,  
when several of them coalesce,  
they may form a mass as large  
as a pea. Usually firm, and  
of a semi-cartilaginous texture;  
they are occasionally softer  
and less resisting, and admit  
of being readily crushed between the  
fingers, whilst, not unrequent-  
ly, they are mixed with black  
pigmentary matter, or else are  
surrounded by it.

The other, and



more common form of densil, is  
that known under the title of  
"Yellow Tuberell". This form is  
quite opaque, and varies in color  
from a dirty white to a slate or a  
bright buff, and in consistency  
from that of firm tough cheese  
to that of diffused cream cheese.

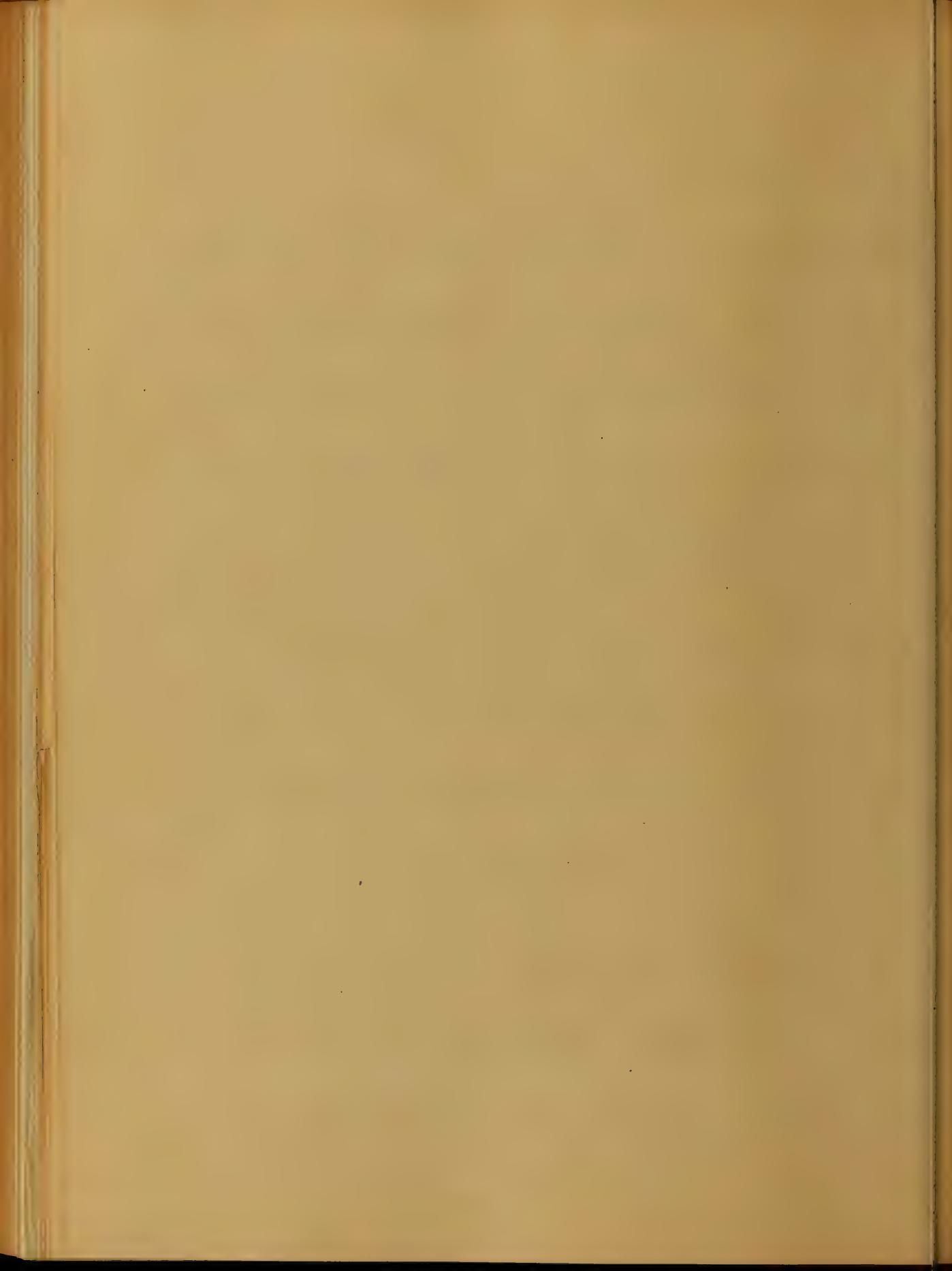
In many instances it exists  
in roundish or irregular-shaped  
isolated masses, in others a large  
proportion of the lung is infiltrated  
with it, and in others again  
it exists in isolated masses  
in one part of the lung, while  
in another part it infiltrates



large portions of the lung tissue.

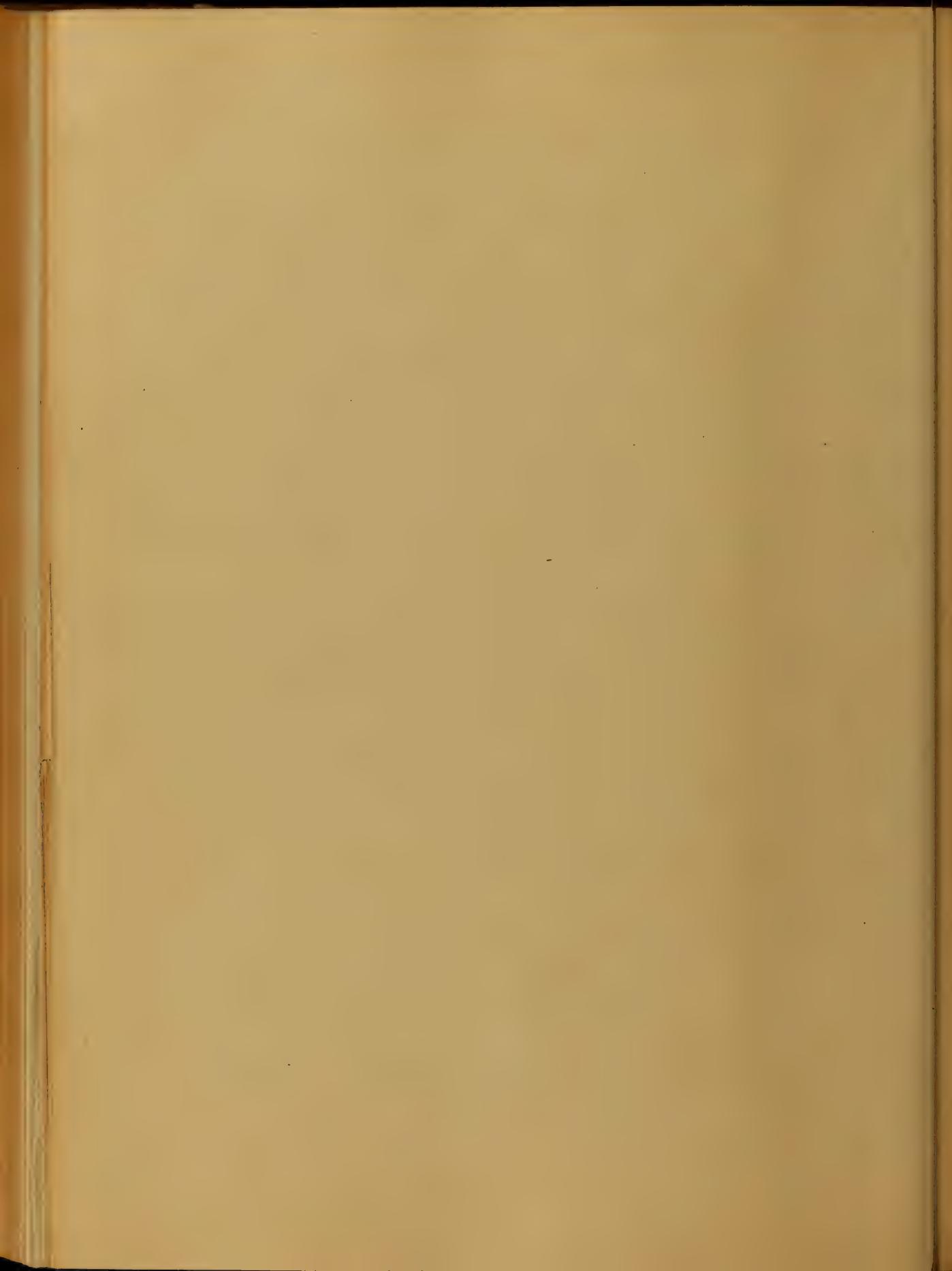
The isolated deposits may vary in size from that of a millet seed, to that of a hazel nut, or a large walnut. The larger masses being formed by the aggregation of the smaller deposits, which give rise to compression and atrophy of the intervening tissue. Thus the size of the nodule is determined by the extent of lung tissue implicated in the mischief, and the shape by the form of the space in which the deposit is made.

Not unfrequently the deposit is soft and fluctuous in



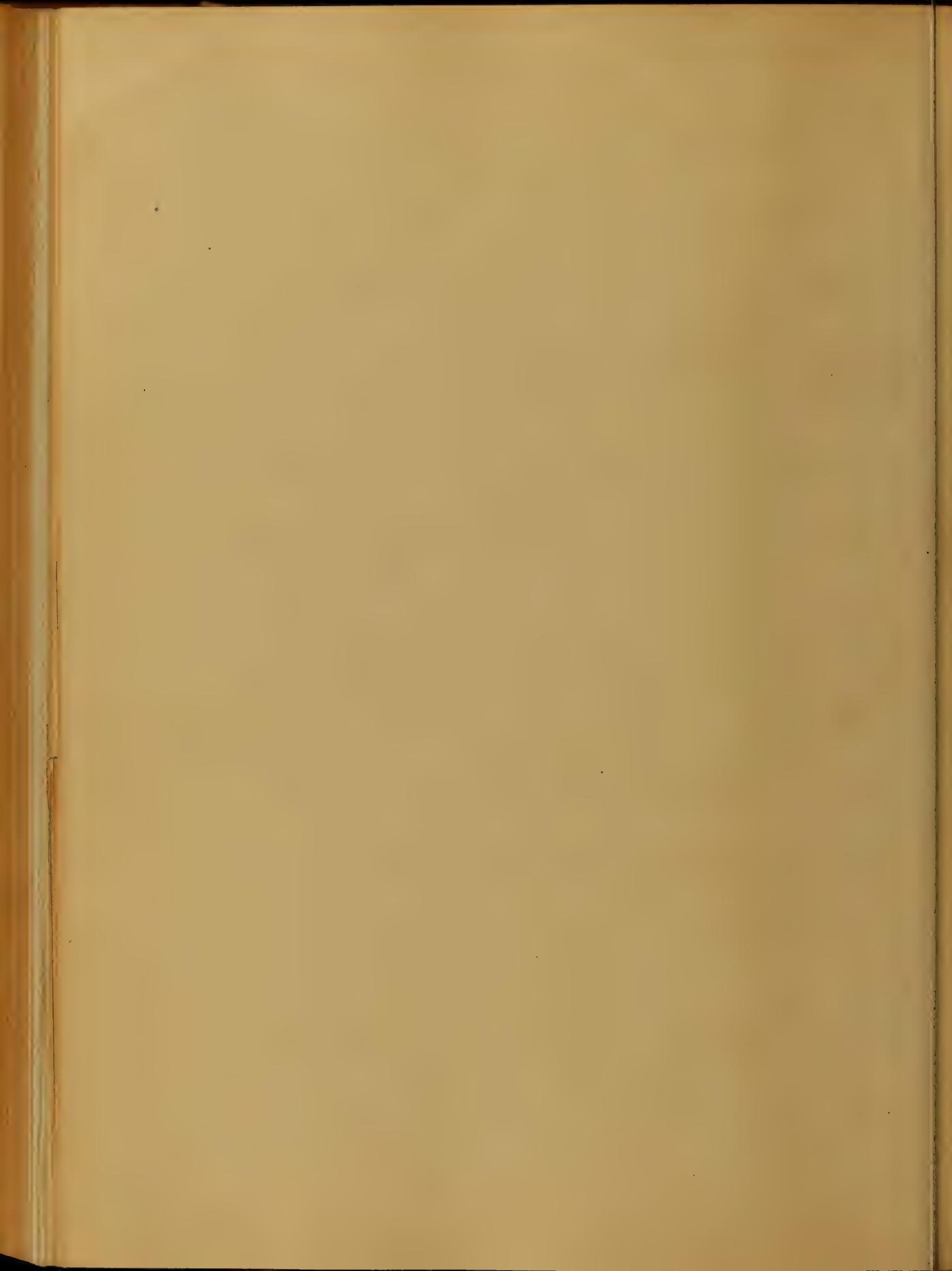
one part of the lung, and rough  
and firm in another, extremely  
 friable in yet another, or if the  
 deposit be old it may have under-  
 gone Calcareous or Ossaceous degene-  
 ration, and may prove of stony  
 hardness. In another class of  
 cases the tuberculous matter becomes  
 mixed with a dark-colored car-  
 bonaceous deposit, which not only  
 colors the tubercle, but gives a blue-  
 ish-black tinge to the pulmonary  
 tissue.

Tubercle, when once  
 deposited may long remain very  
 nearly in Statu quo, or may,



Slowly, or speedily, undergo transformation, and the precise nature and rapidity of the change will depend in part on the original Constitution of the deposit, and in part on the condition of the patient's System. The gray, milky tubercle does not ordinarily break up, or undergo softening.

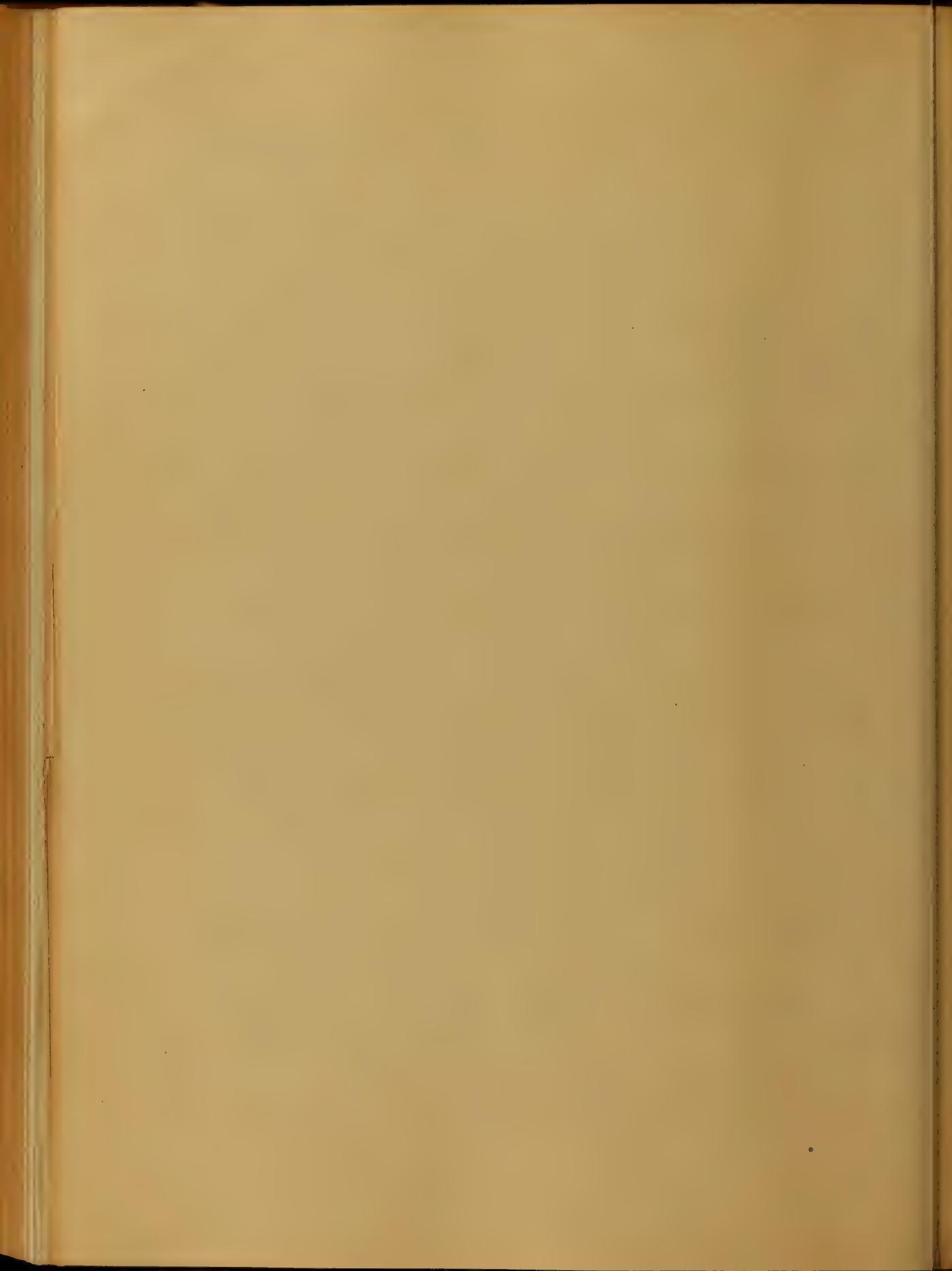
It loses its transparency and ultimately shrinks into a dense, hard tough mass; in certain instances however, in which it becomes the the seat of yellow tubercular deposit or undergoes transformation into yellow tubercle it loses this



character, and is liable to soften) and break up; in others it becomes the seat of slight earthy deposit.

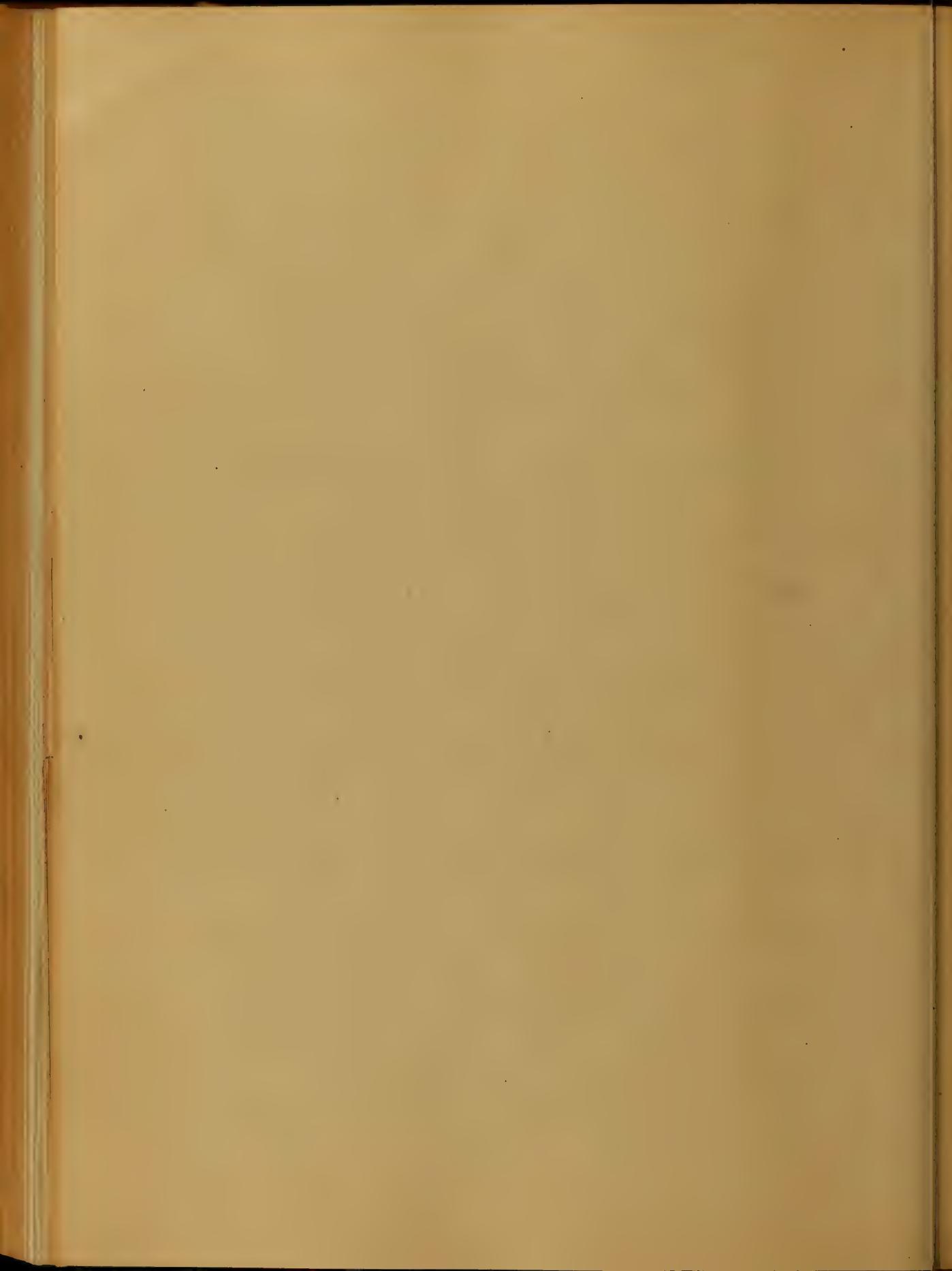
Yellow Tubercl<sup>e</sup>, on the contrary, is prone to soften, the process of disintegration, <sup>sometimes</sup> commencing in the centre of the tuberculous mass, but more commonly at its periphery.

Caving, however, does not necessarily occur in yellow tubercl<sup>e</sup>. It usually takes place sooner or later if the patient's health continues to fail, in which case the tissues caving in the tuberculous mass, or immediately surrounding the softened tubercle



becomes inflamed and sulphurates,  
the softened tubercle mixed with  
portions of the disintegrated lung  
tissue finds its way into the air-  
passages, excites cough, and is  
then expectorated, leaving cav-  
ities or bronchia in the lungs.

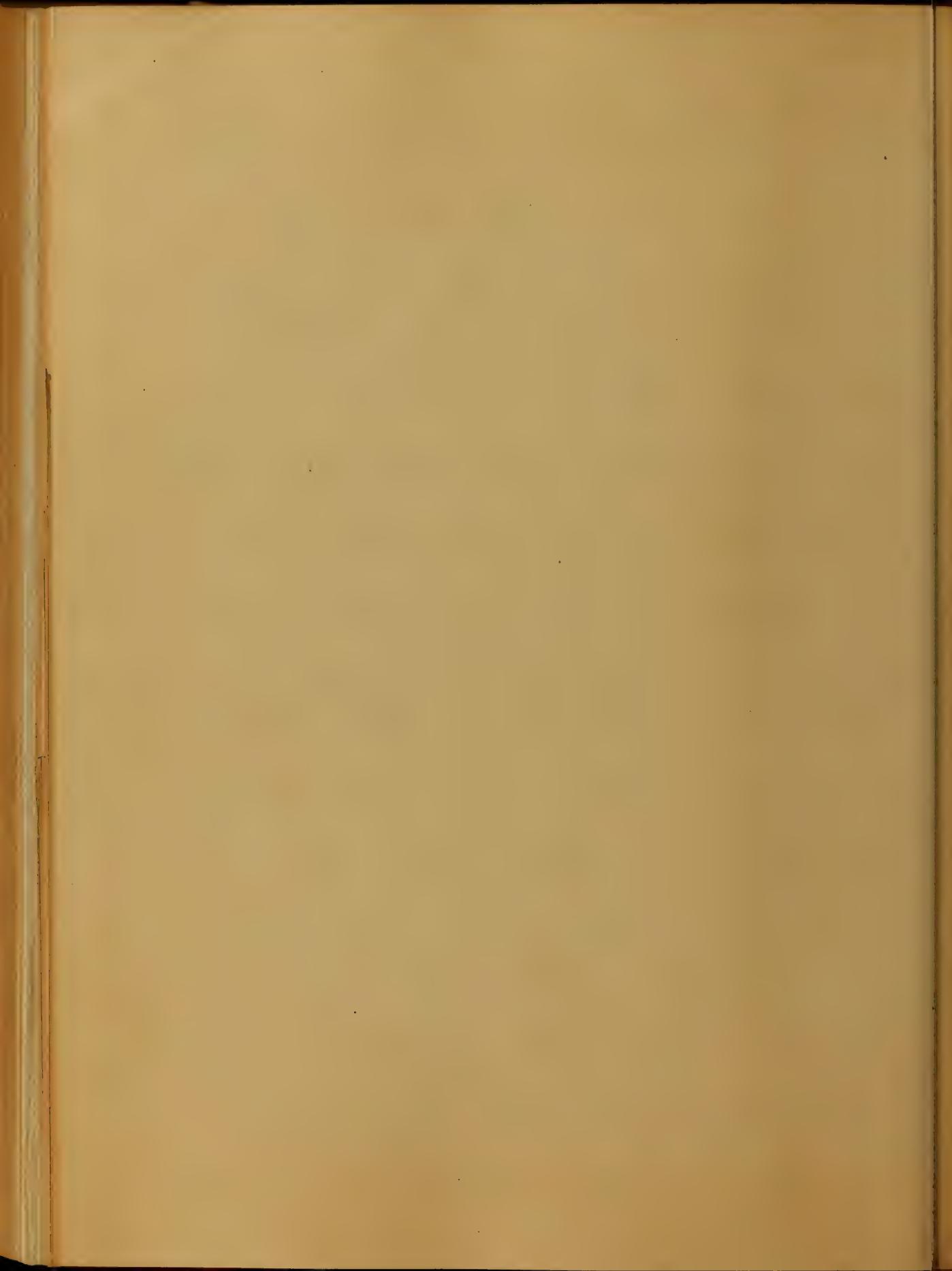
After softening has taken  
place, and the disintegrated tuber-  
cle has been removed by expec-  
toration. The cavities which remain  
may cicatrize under the influence  
of returning health and increased  
vital power. In cases of acute  
Phthisis, and especially when  
the deposit, of the gray miliary



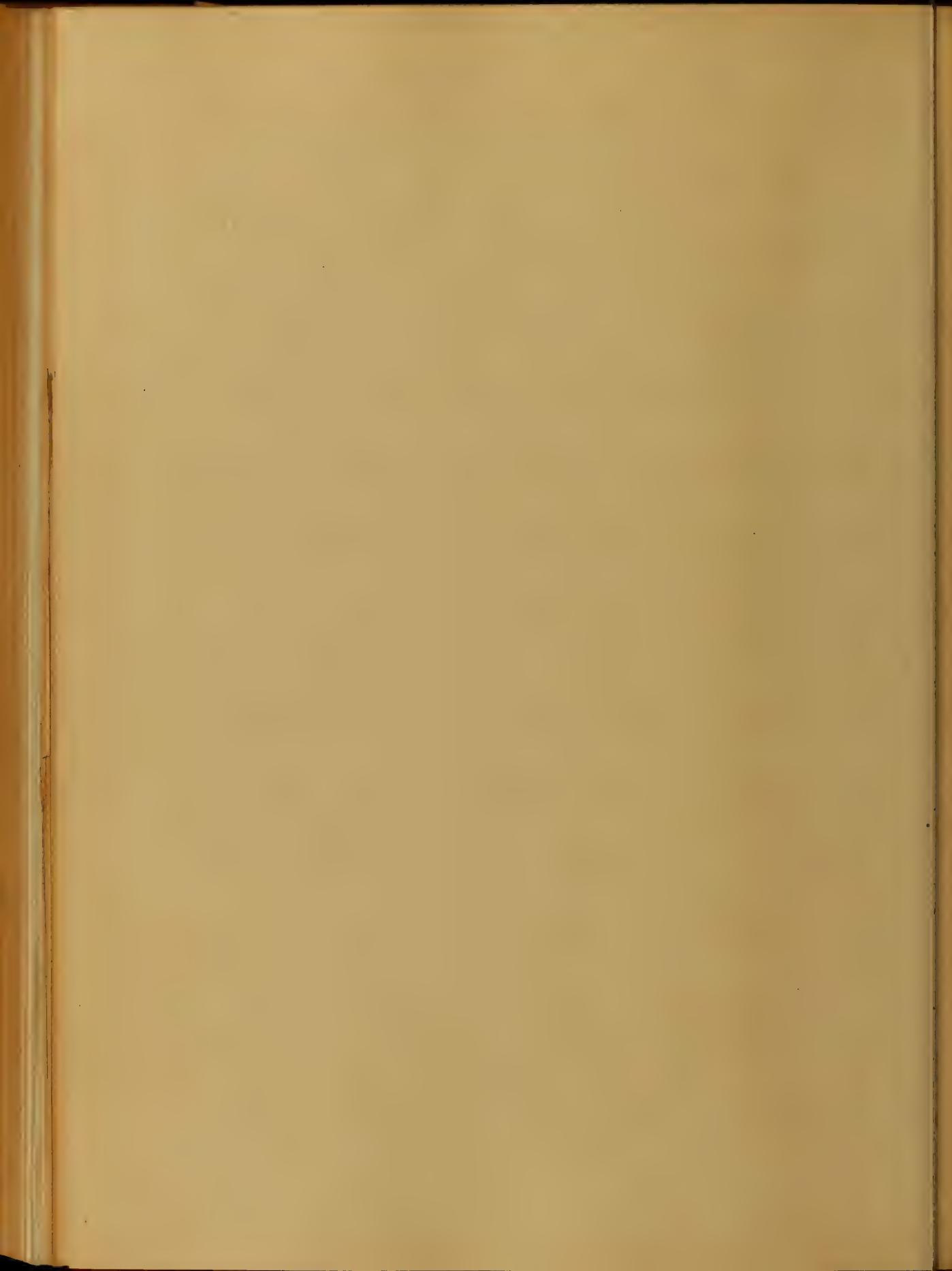
variety, tubercles are apt to be disseminated through all parts of the lungs, and, in children, the same fact is frequently observed; but in chronic cases, and in adults the deposits usually commenced in the apices of the lungs, (the left most frequently), and are sometimes altogether absent in the lower lobes.

In a diagnostic point of view this fact is of the utmost importance.

In most instances both lungs are affected to a greater or less extent, but the tubercle is

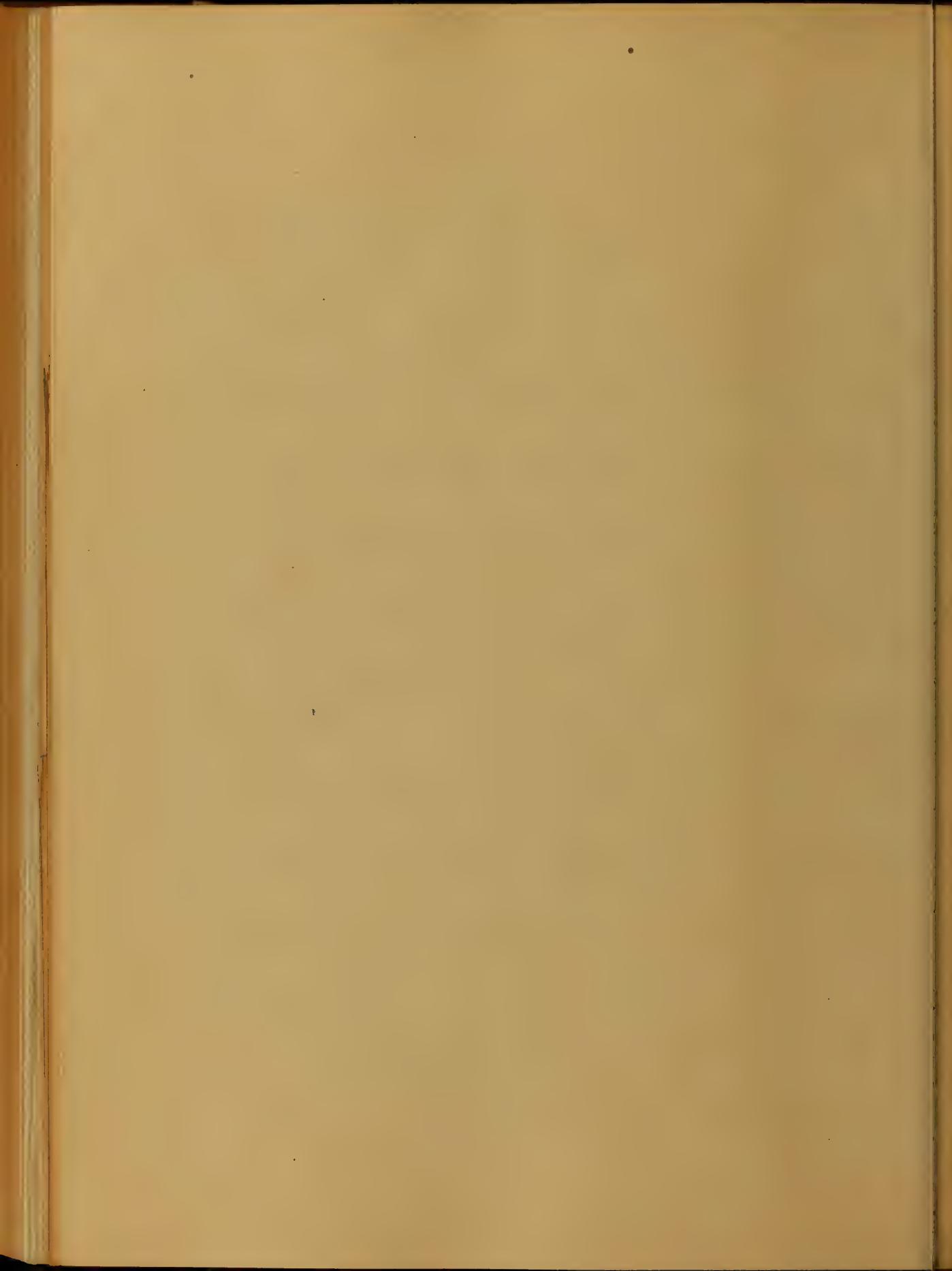


deposited earlier, and the deposit is larger in amount and in a more advanced stage of softening at the apices than in the middle or lower portions, so that when large cavities exist at the summits of the lungs, smaller and more recent varieties are found lower down, and crude, unsoftened tubercle, or healthy lung tissue at the base, but sometimes the middle or base of one or both lungs is alone or principally affected and at other times one lung may escape altogether, while the entire structure



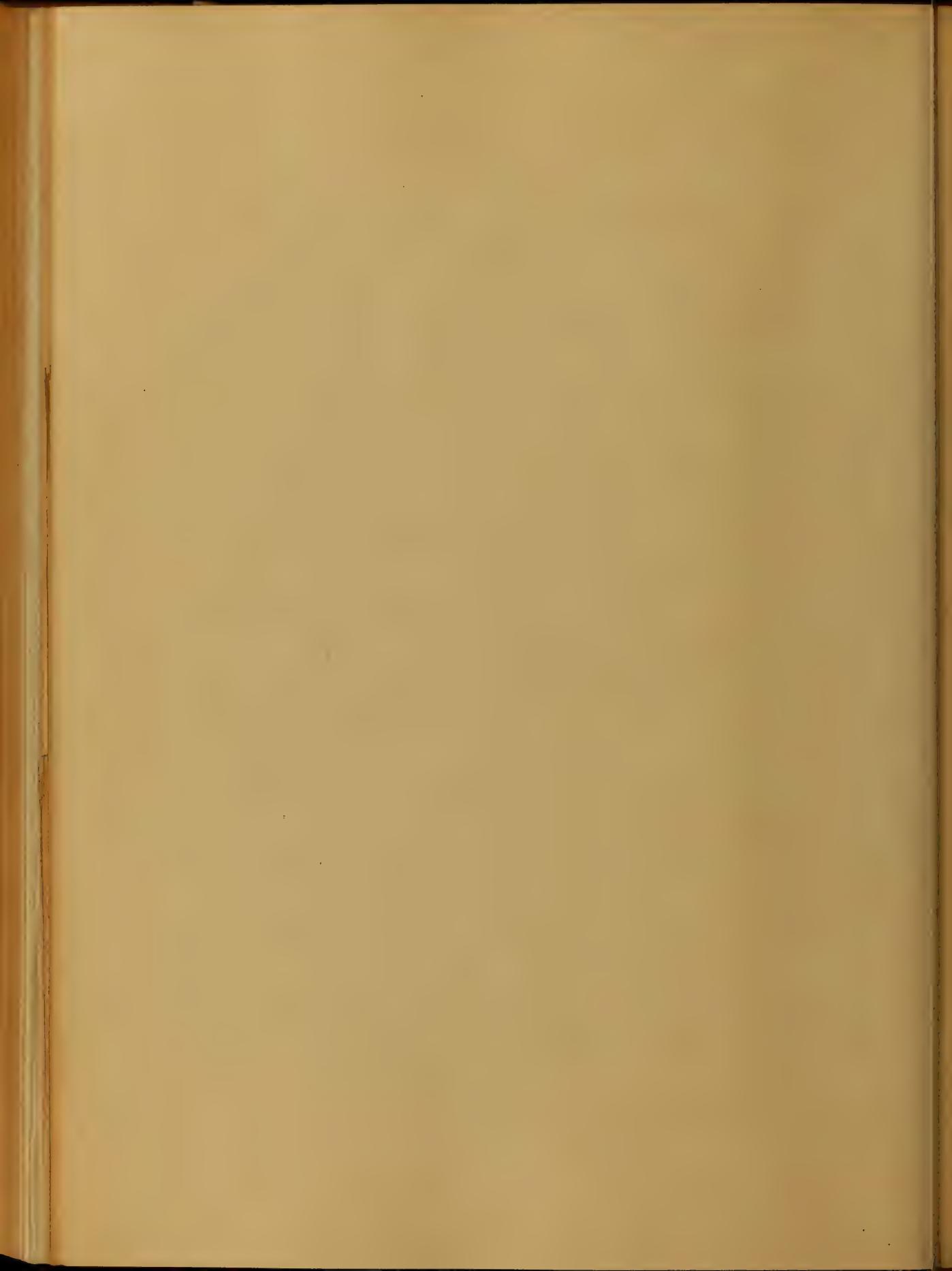
ture of the other is infiltrated with tubercle, or broken up by vomited. Sometimes, again, both lungs may be partially or extensively implicated, but the tubercles may have undergone degeneration and softening in the one lung, whilst they are firm, and present all the characters of recent deposits in the other.

Clinical history. In sketching the course of this affection, should devote a special place to the first stage, or term, the period in which there is most promise of benefit from



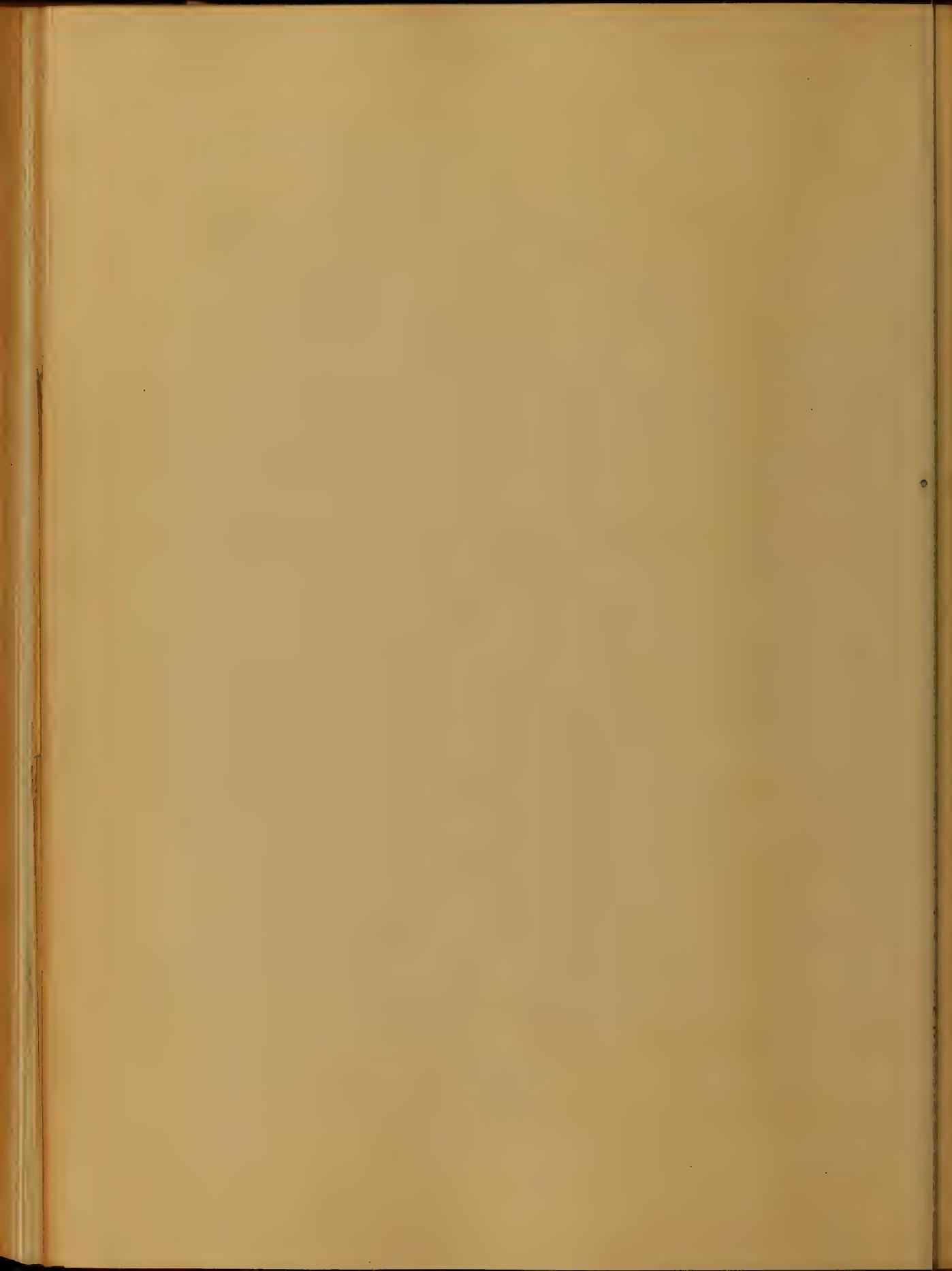
professional advice.

In many instances the earliest, and for some time the only symptoms of its approach are astylosis with sick headaches, loss of appetite, gradually increasing languor and debility, and depression of spirits. The patient feels unequal to his ordinary avocation, his nights are restless and in the morning he rises weary and unrefreshed. After a time maceration commences, the flesh becomes flabby, the countenance pale, the pupil of the eye dilated, and the conjunctiva



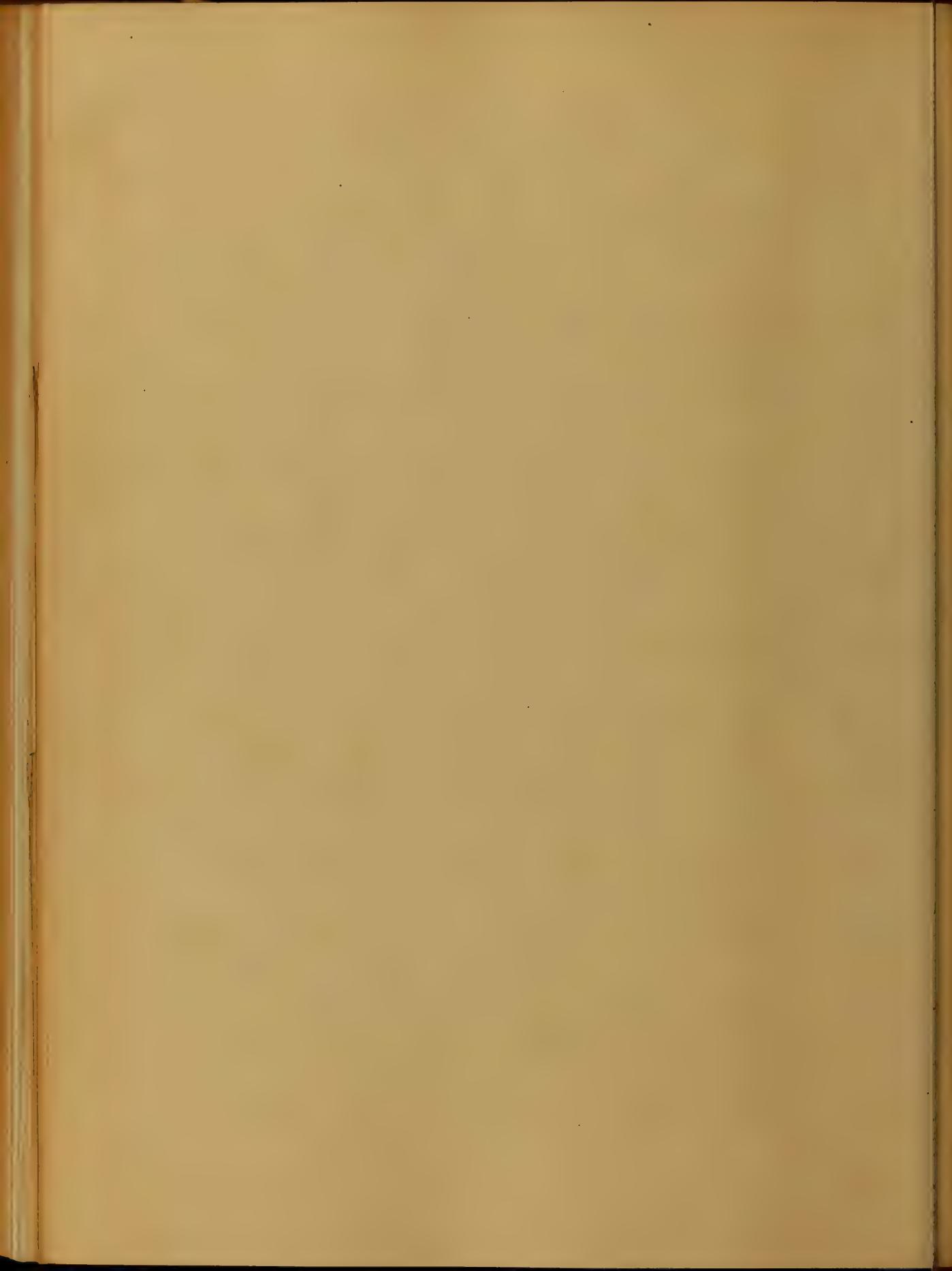
of a heart-like whitened. The hair falls, and in many instances the finger-nails become incurved, and the ends of the fingers themselves become clubbed.

Sometimes the patient suffers from weakness and huskiness of voice, soreness of the throat and a tightness across the upper part of the chest, with fugitive dull, aching pains about the clavicles or under one or both scapulae, and although he has no dental dysfunctions he fancies he has taken a cold for he feels chilly and un-



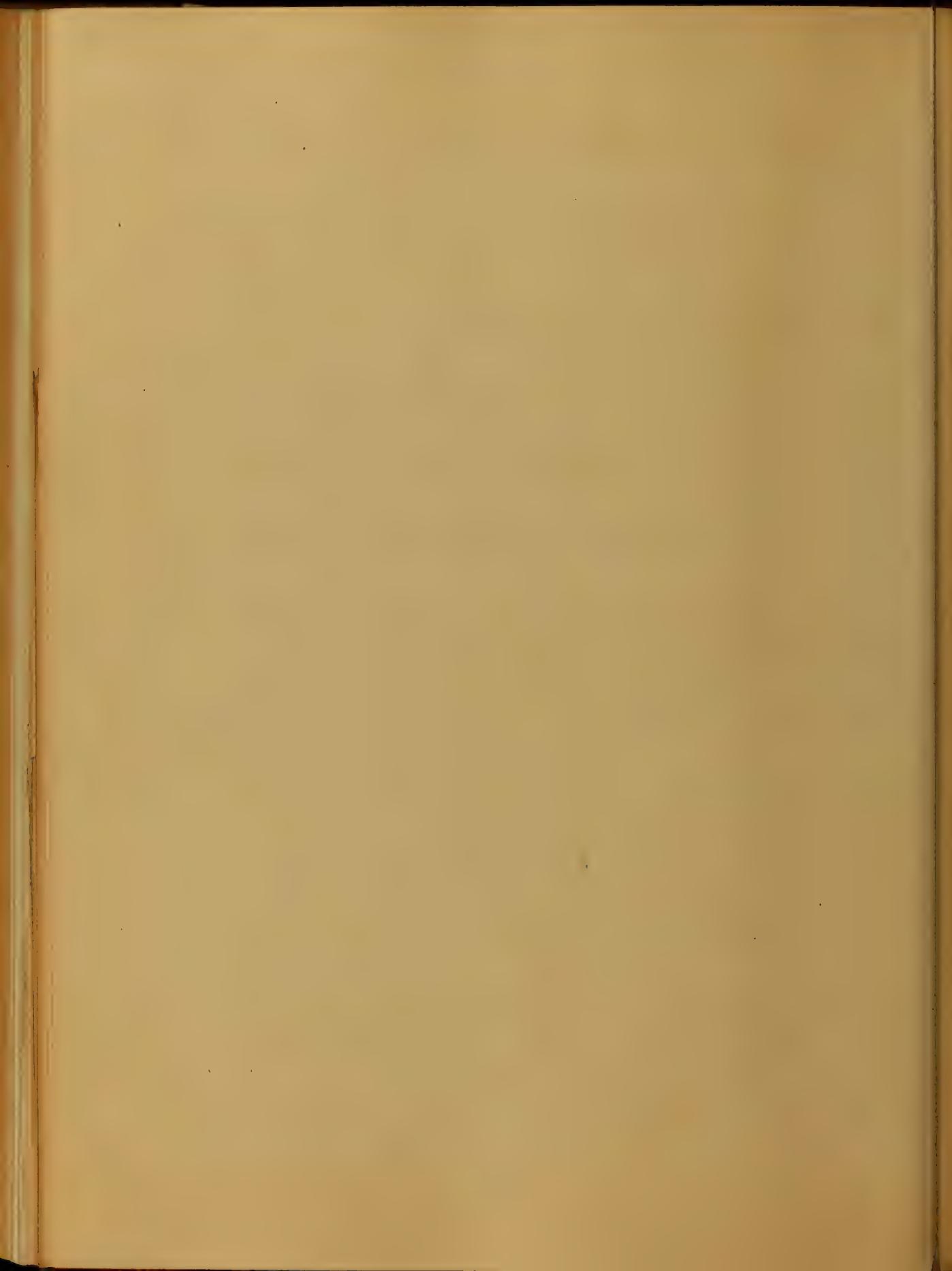
comfortable, and has a short hacking cough, troubling him principally night and morning.

At first the cough may be so slight as not to cause him any annoyance, or even to excite the apprehension of his friends, being regarded simply as a clearing of the throat. It appears to be caused by relaxation of the vocala, or by irritation of the pharynx, which, in the earlier stages of Phtisis is often rough, red and covered with mucus, but after a while the cough increases in frequency.



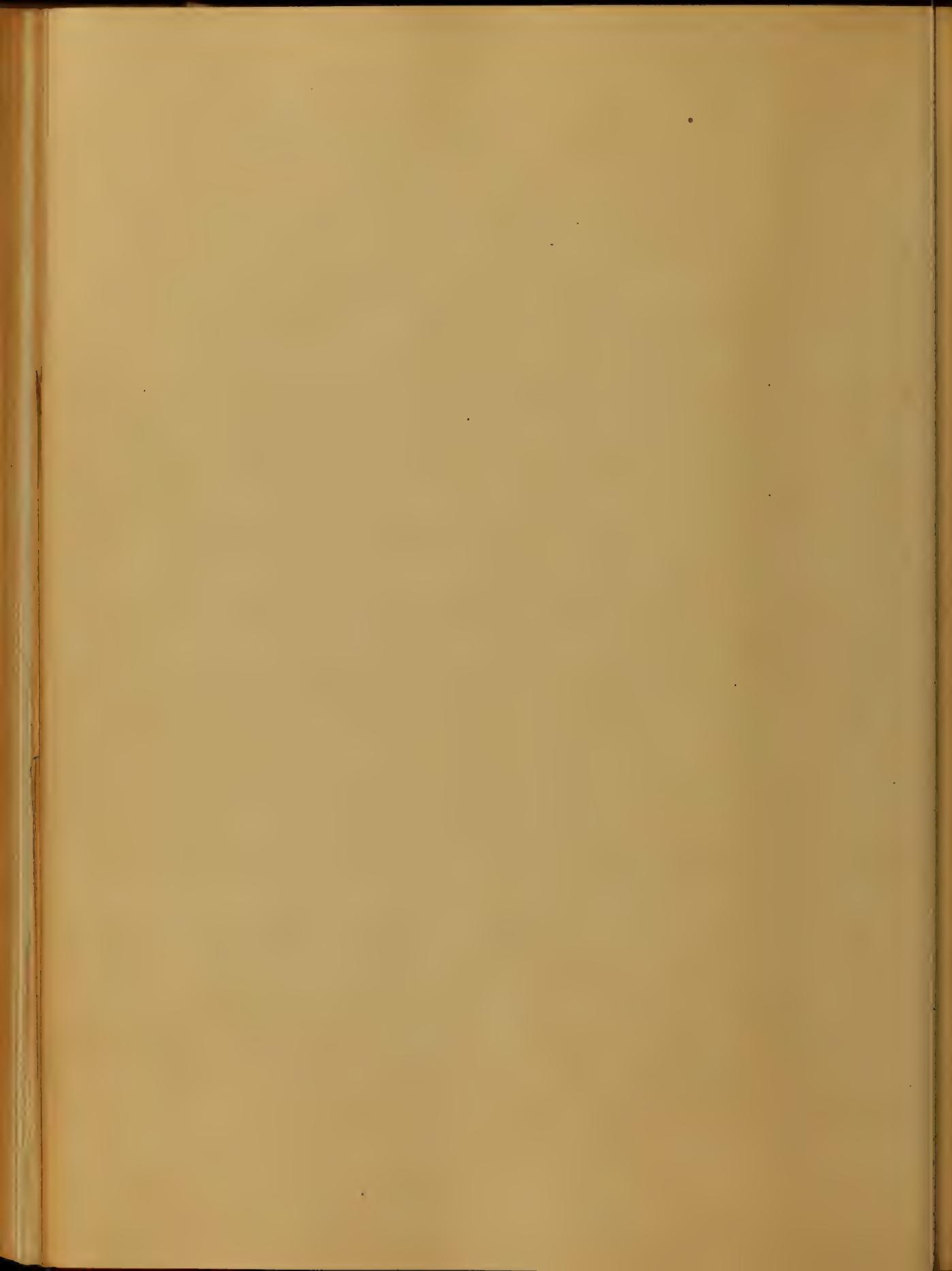
and violence, recurs at intervals throughout the day, especially after exertion, and is attenuated by a scanty expectoration ofropy or glairy mucus, streaked tinged or streaked with blood.

Little suspecting the cause of his ailment, the patient complains that he is short-breathed on going up stairs, and is soon exhausted by the slightest active exertion, and the physician finds that breathing is quicker, and the temperature of the body higher than natural, usually ranging from 100° to 102°,



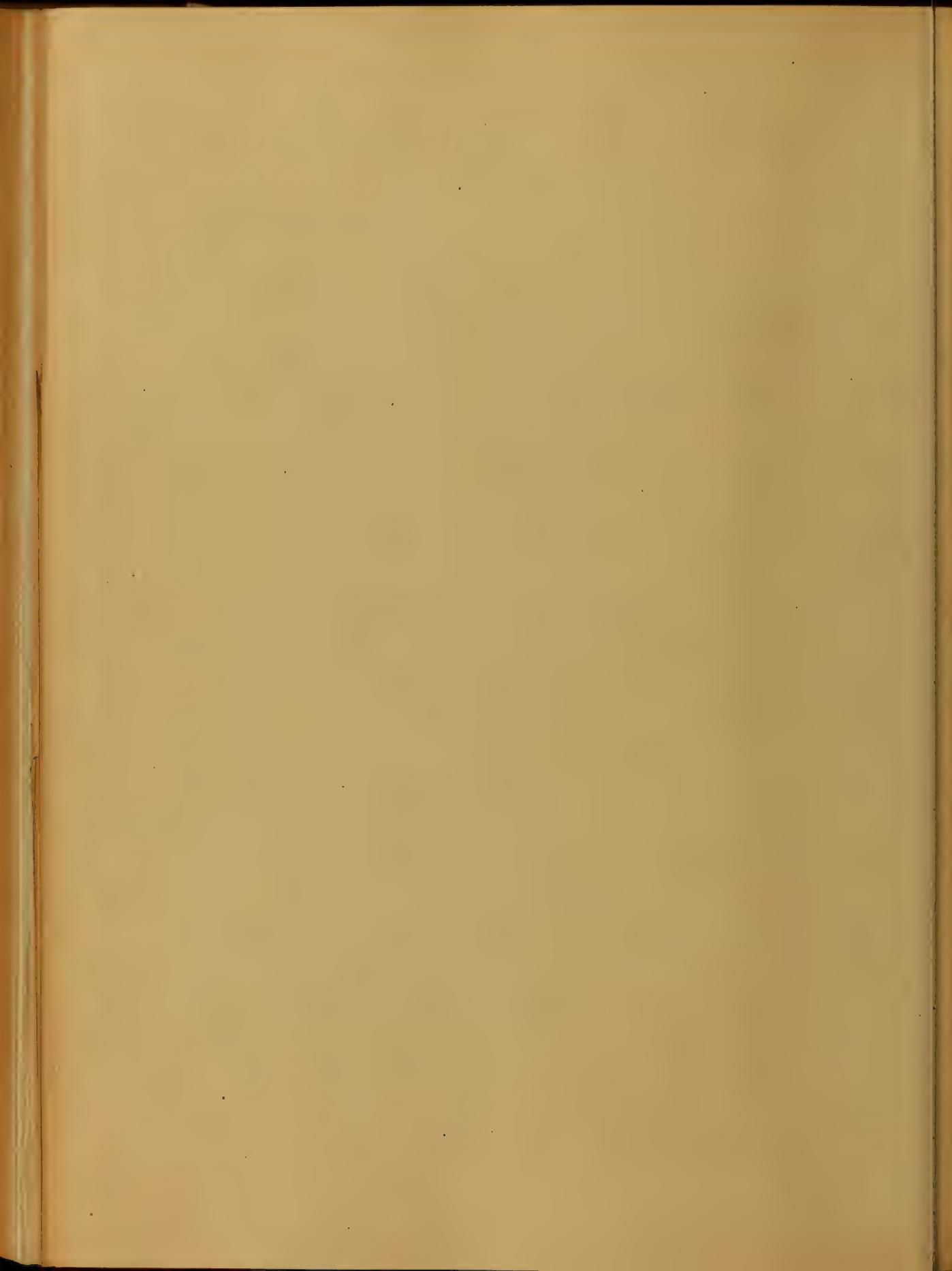
even at midday, and that his pulse is accelerated, especially in and evening, and very deficient in force. His face shows on the slightest excitement, and particularly after meals white, in some instances, fibrillary paroxysms, marked by alternate chills and shivering, and by perspiration toward morning form a cause of gradually increasing weakness and of serious annoyance and complaint. The tongue may be clean or more or less coated, and the pulse weak or irritable, varying in frequency from 60 to 140 in the minute.

The urine is at one time over



and pale; at another high-colored  
scarce and timid, but it simply  
varies with the state of the system,  
and throws no light on the con-  
dition of the chest.

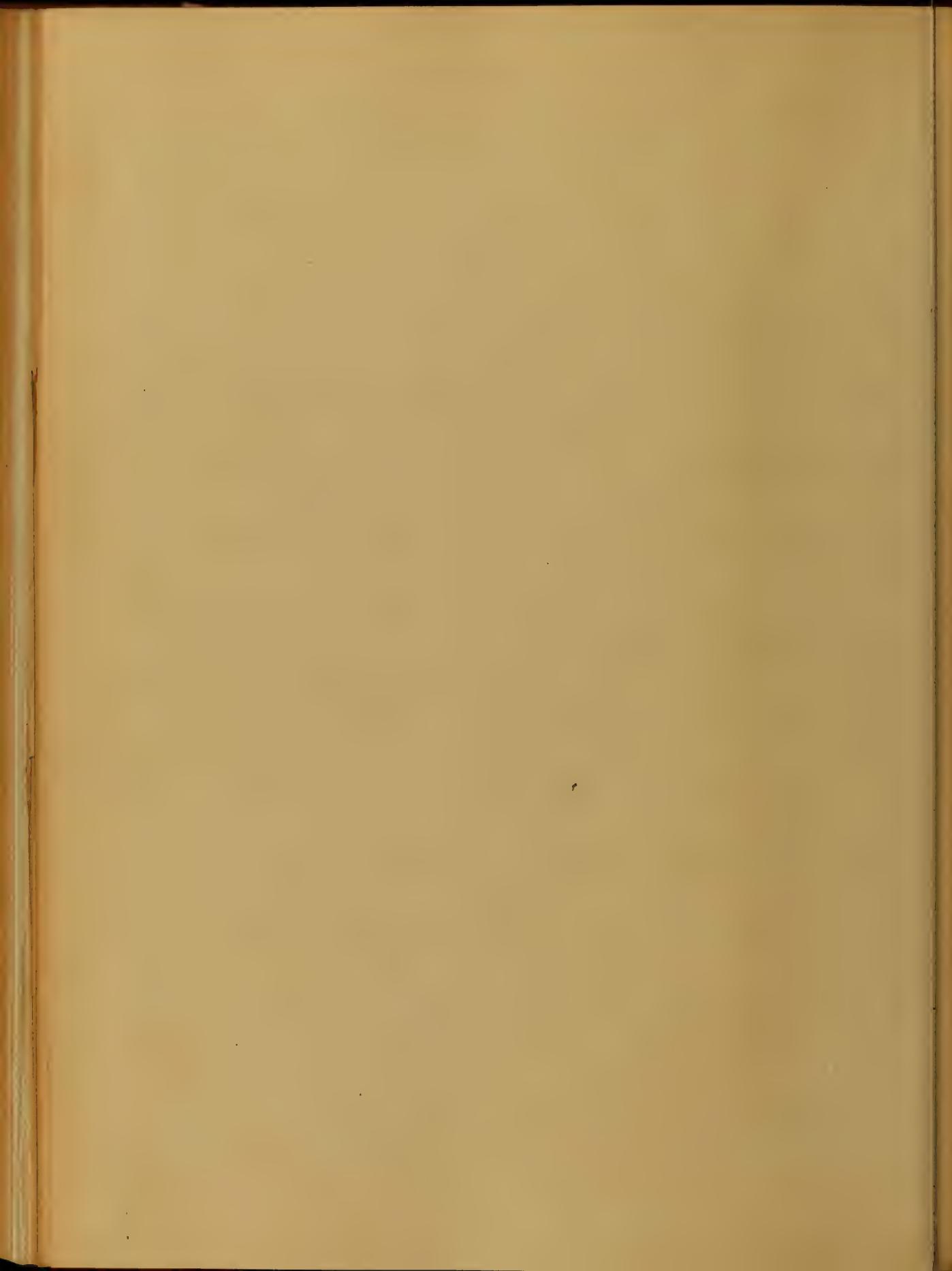
Haemoptysis is one  
of the easiest, and is certainly  
one of the most frequent symptoms of con-  
sumption. It may vary immensely  
from a mere speck or tincture of blood  
to an ounce, a pint or even a can-  
yon quantity, and in some instances  
it proves rapidly if not immediately  
fatal; producing either suffoca-  
tion, or proving indirectly fatal  
after a few days by exhaustion.



Selotom, indeed, does Consumption run its course without "spitting of blood" to a greater or less extent, but fatal hemorrhage as the result of tubercle is an event of very rare occurrence. The cause of this is that the larger vessels resist necration to a remarkable degree and before complete erosion of their coats has taken place clots usually form in their interior, and the circulation through them is arrested.

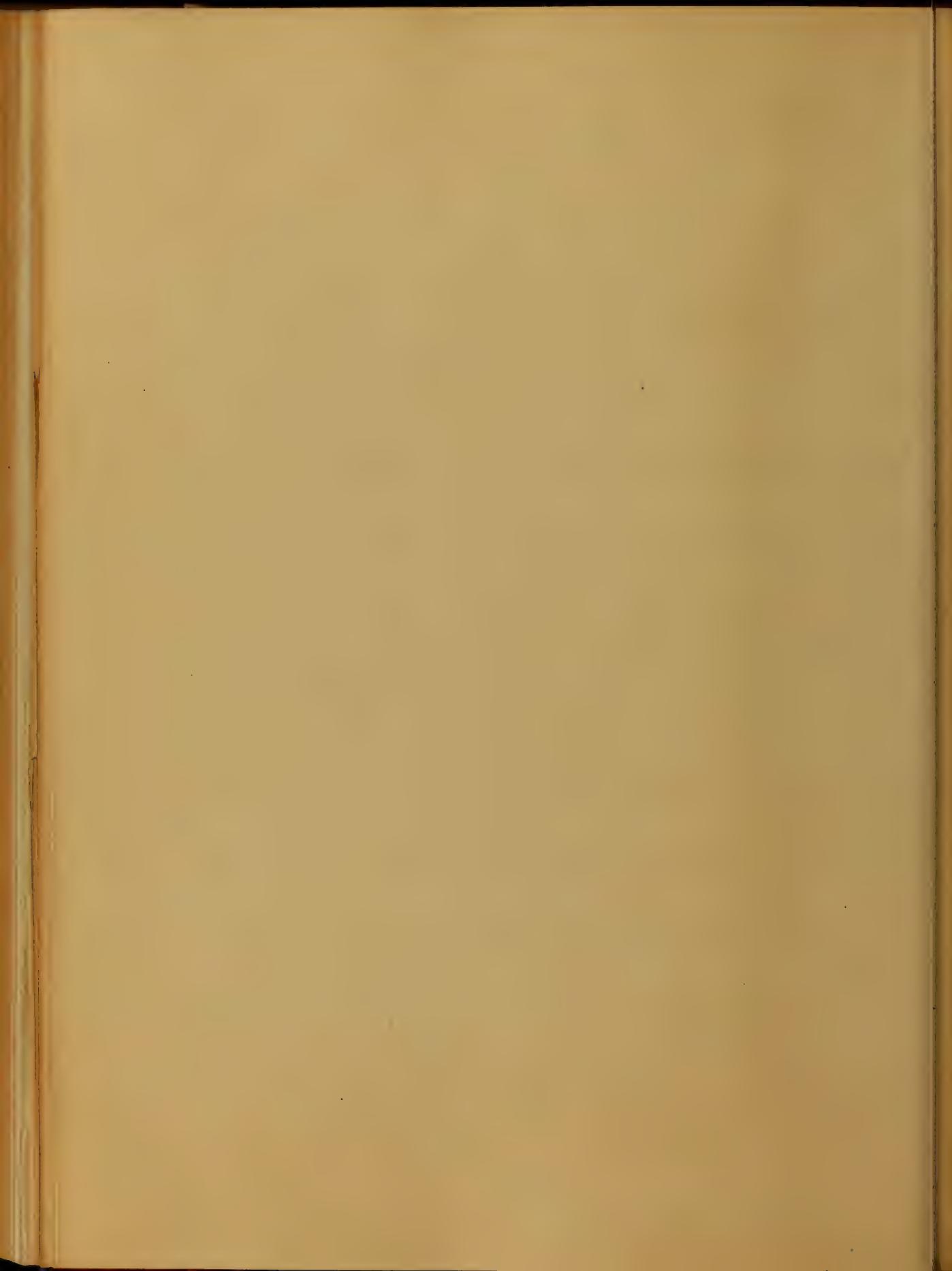
(In children, profuse hemorrhage is indeed of rare occurrence.)

- Haemoptysis is very frequently found at the outset of



The disease, and recurs at longer or shorter intervals throughout its progress. In most instances the blood is small in quantity, and only produces checkered or striped spultæ, but sometimes profuse hemorrhage is the first or earliest noticed symptom. The blood is usually of a florid red color, but may be not seldom of a brickred hue, and sometimes, though rarely except in the later stages of the disease it may have a various tint.

As the disease advances it is ejected more frequently and in rather larger quantities, following

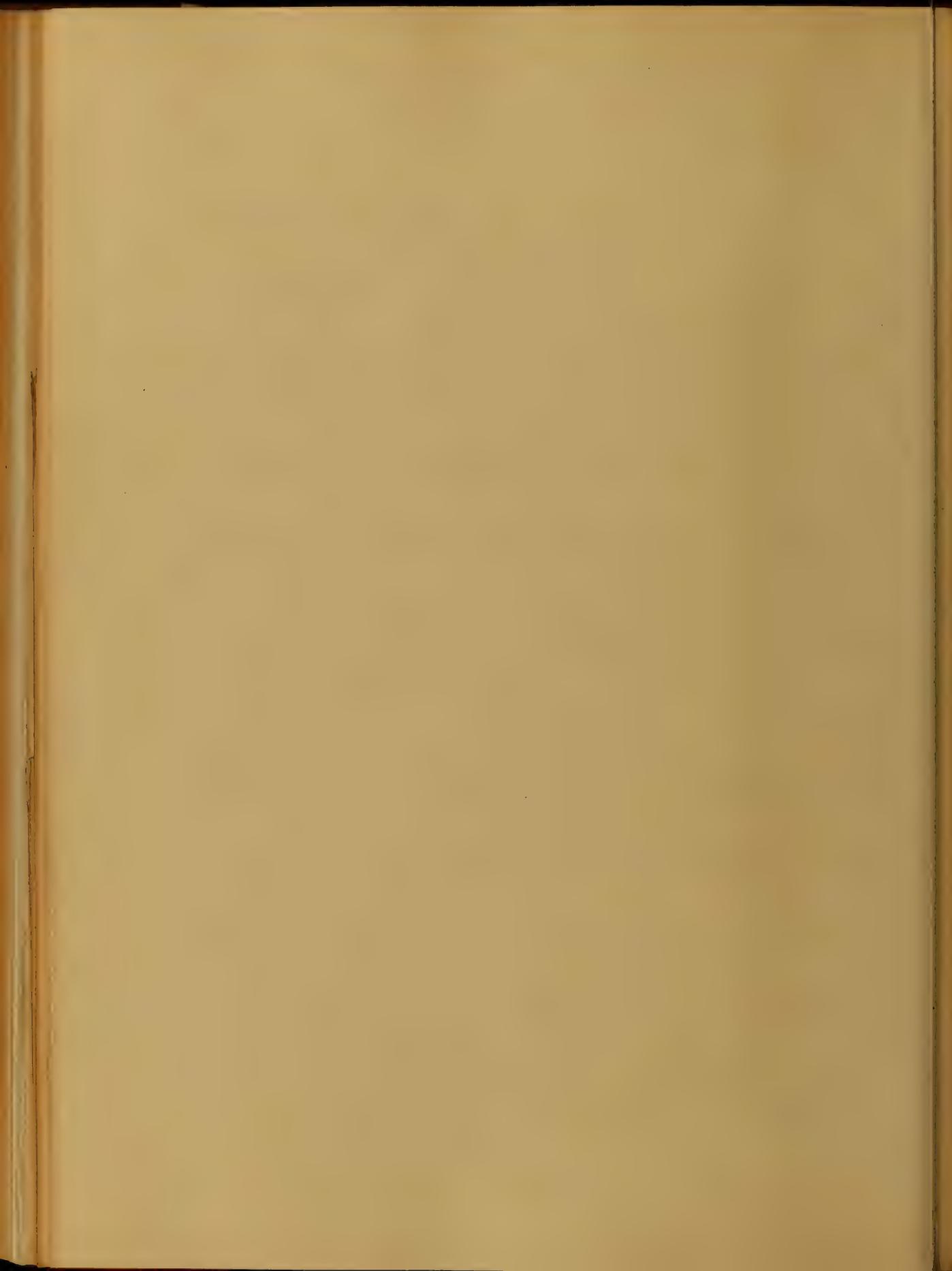


small & soft, and it is more common  
by me with in the education  
of males than of females, in  
that of adults than in that  
of children.

When ejected in consider-  
able quantities the mord is, rarely  
from the admixture of air.

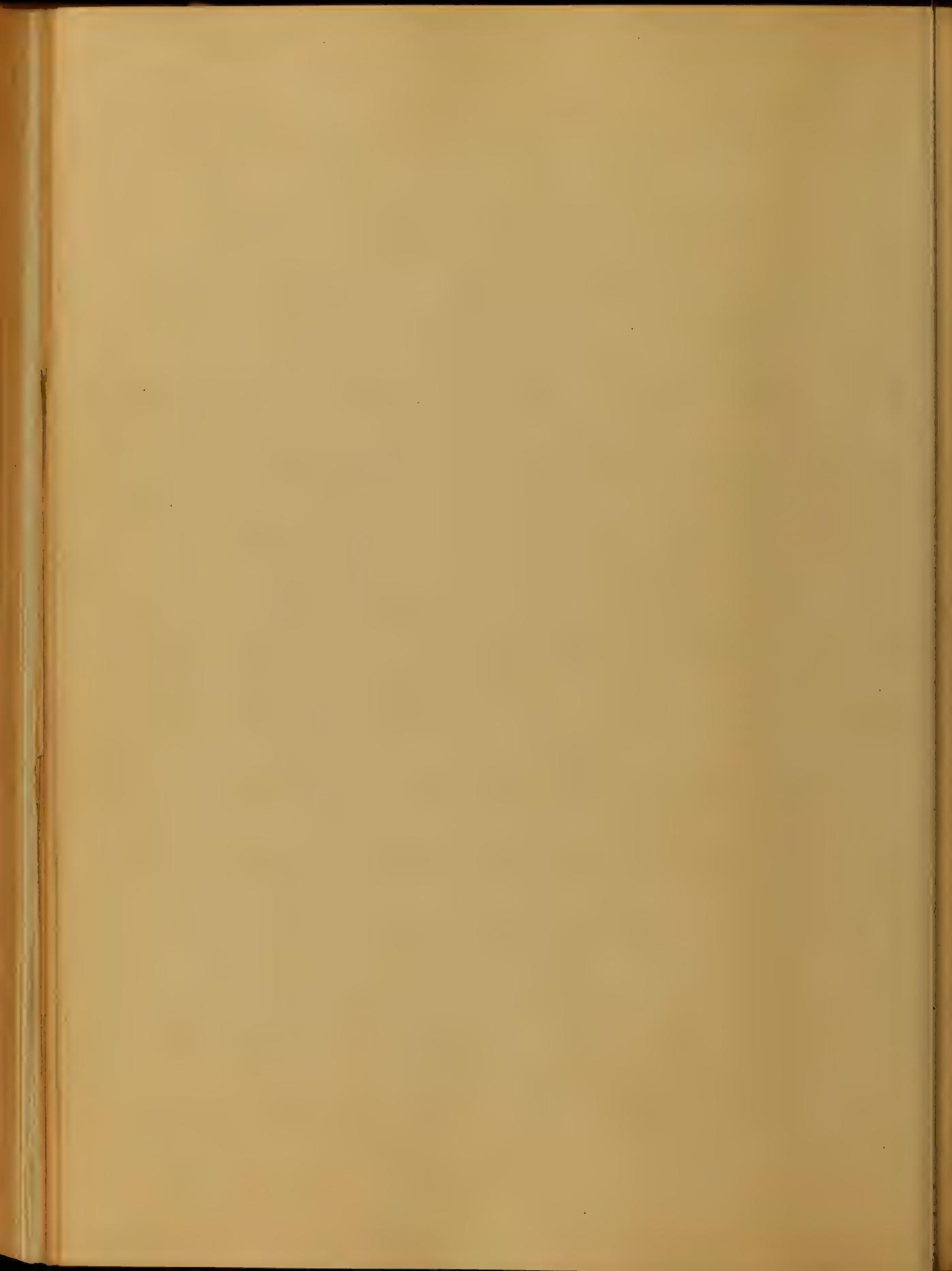
### Pain in the chest.

especially acute pain is rarely, or al-  
lendant on the early stages of Con-  
sumption; but a dull pain, or  
aching uneasiness under the Pector-  
icles or Scapulae is one of its  
most constant symptoms. As the  
disease advances, sharp pain,



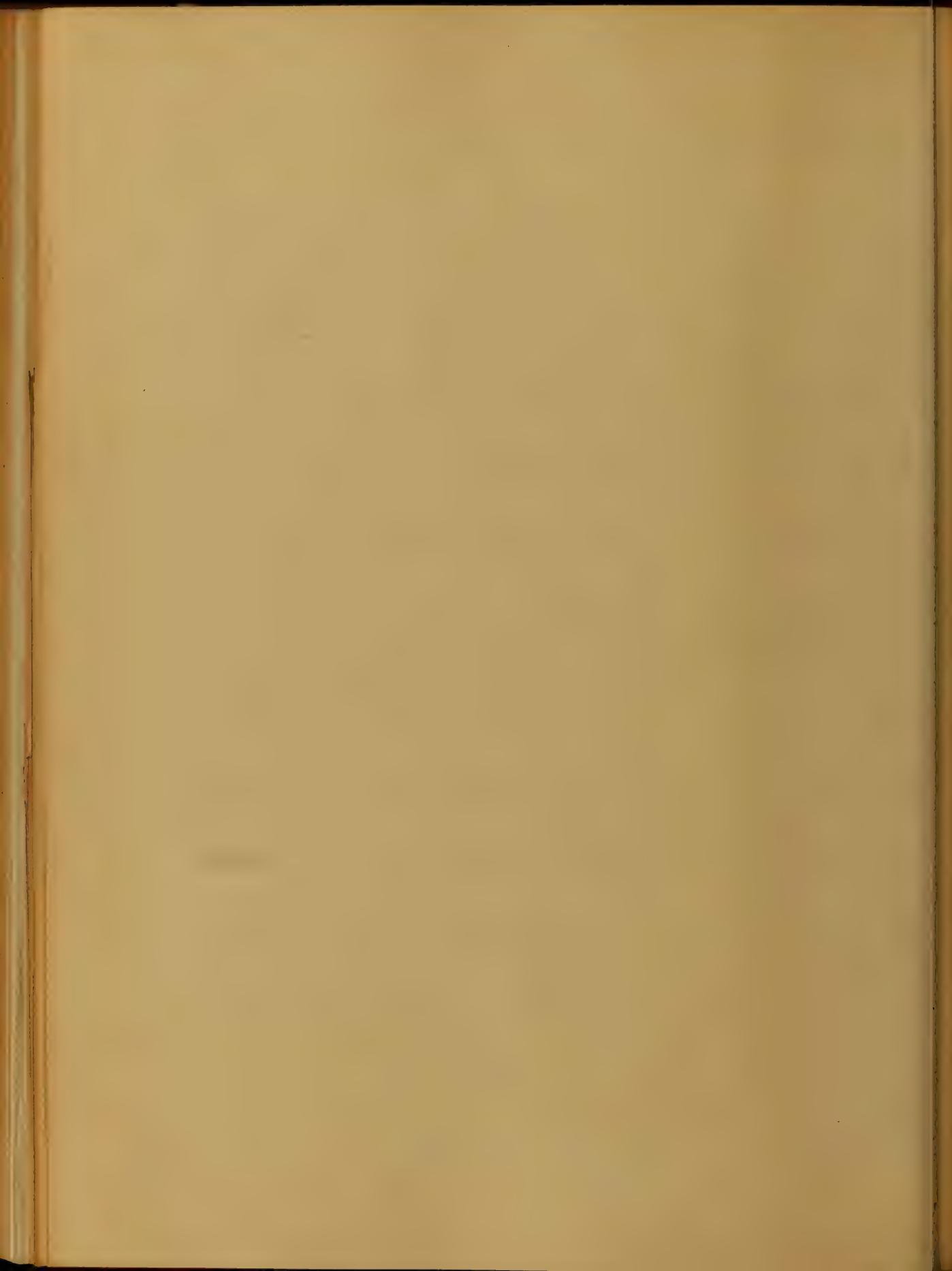
Though not very severe or distressing  
is often experienced in the chest  
caused, sometimes by simple Pleuro-  
dynia, or by morbid changes going  
on in the lungs, but in most instances  
by local attacks of dry cough.  
These pains differ from those  
which accompany Bronchitis in  
being felt in the side, or in the  
back, or under the scapulae  
rather than under the sternum,  
and in being increased by ex-  
piration almost as much as by  
coughing, which alone produces  
much pain in Bronchitis.

Difficulty of breathing



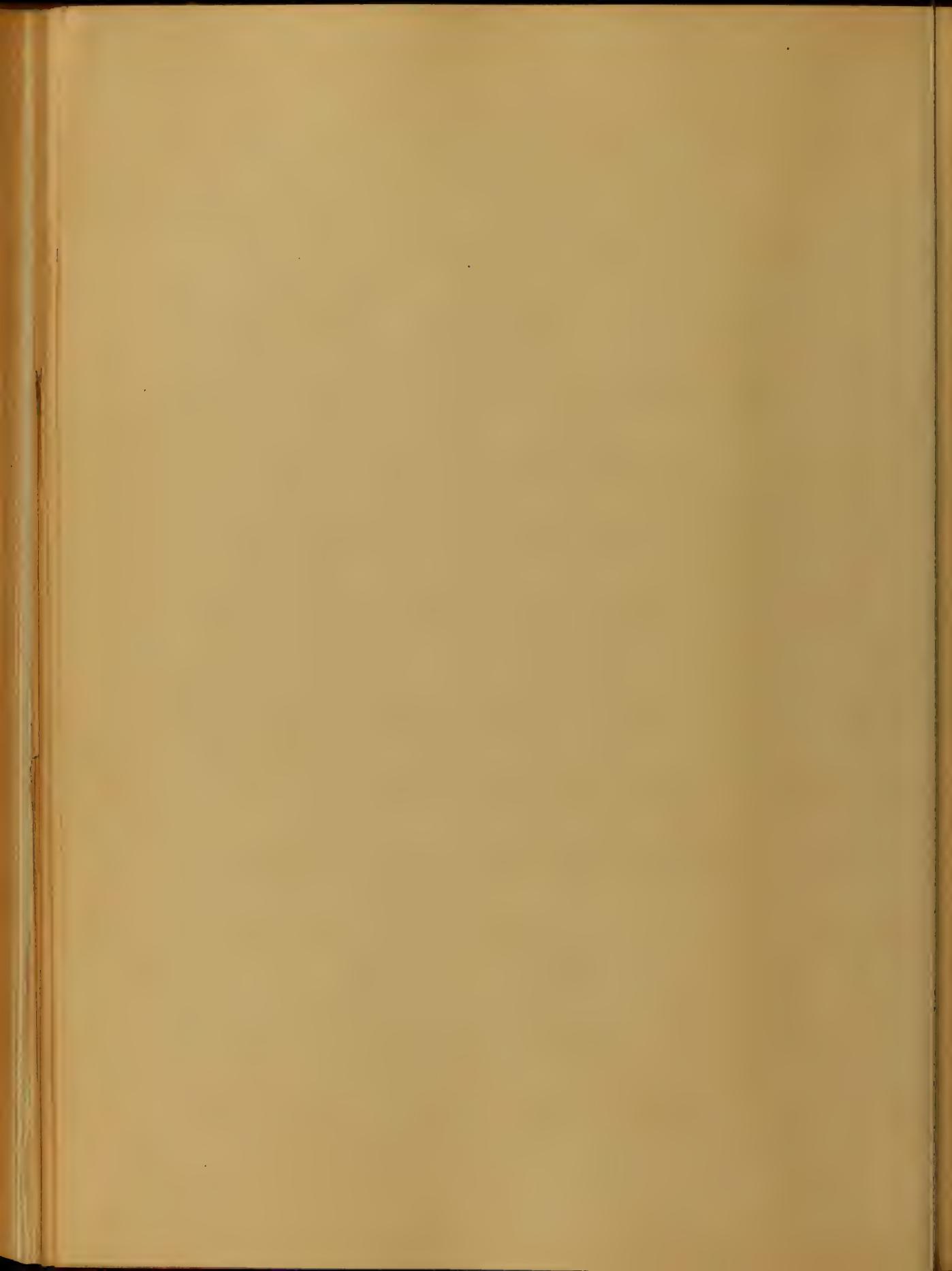
ing is by no means a frequent symptom, and when it does occur in any marked degree it is not referable to unimpaired health, but to some co-existent disease, such as Heart Disease, Pleurisy, Pneumonia, Bronchitis or Pulmonary Emphysema.

But, though difficulty of breathing is not observed except on active exertion, acceleration of the breathing is a constant and most valuable diagnostic symptom, even when the patient is at rest and appears to be breathing tranquilly. The frequency of the



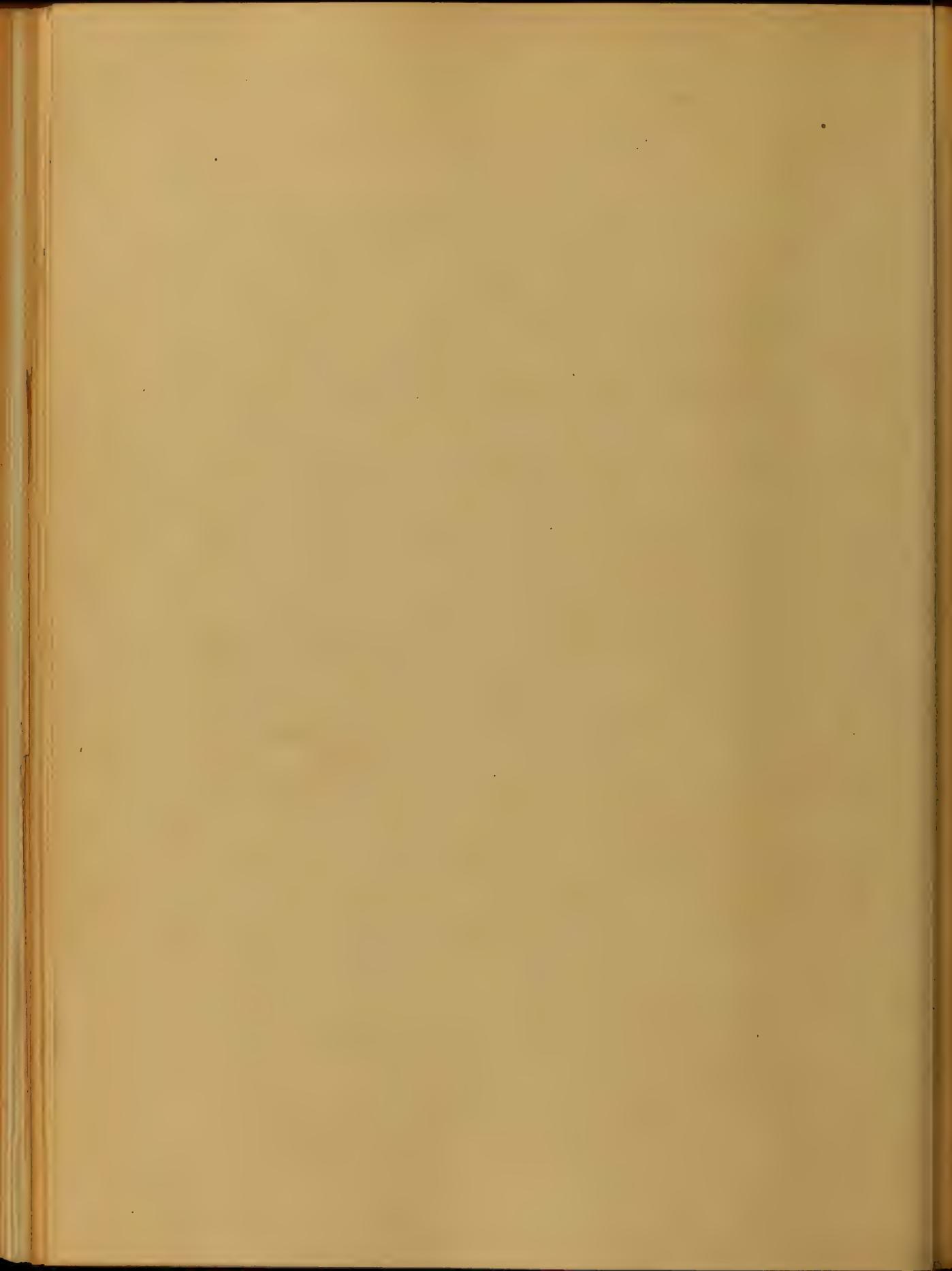
respirations will prove to be above the normal standard, and on the slightest exertion may rise to a degree which is quite inconsistent with a healthy chest.

Febrile symptoms are seldom observed in the very earliest stage of the disease; unless it occurs in an acute form, but they begin to show themselves at a somewhat later period, and in the second and third stages assume the form recognized as hectic. Sometimes, however, in chronic cases, they are not well marked even after varieties



have been formed in the lungs.

They usually commence with shivering, followed by burning heat of skin, the temperature of which often reaches 104,° and may range as high as 106,° and these heats are then succeeded by profuse perspiration, and this train of symptoms, which constitute a perfect paroxysm, may occur at noon, and again toward evening; more frequently, however, they occur only at night, and the perspiration continues until early morning. No symptom is more remarkable or more

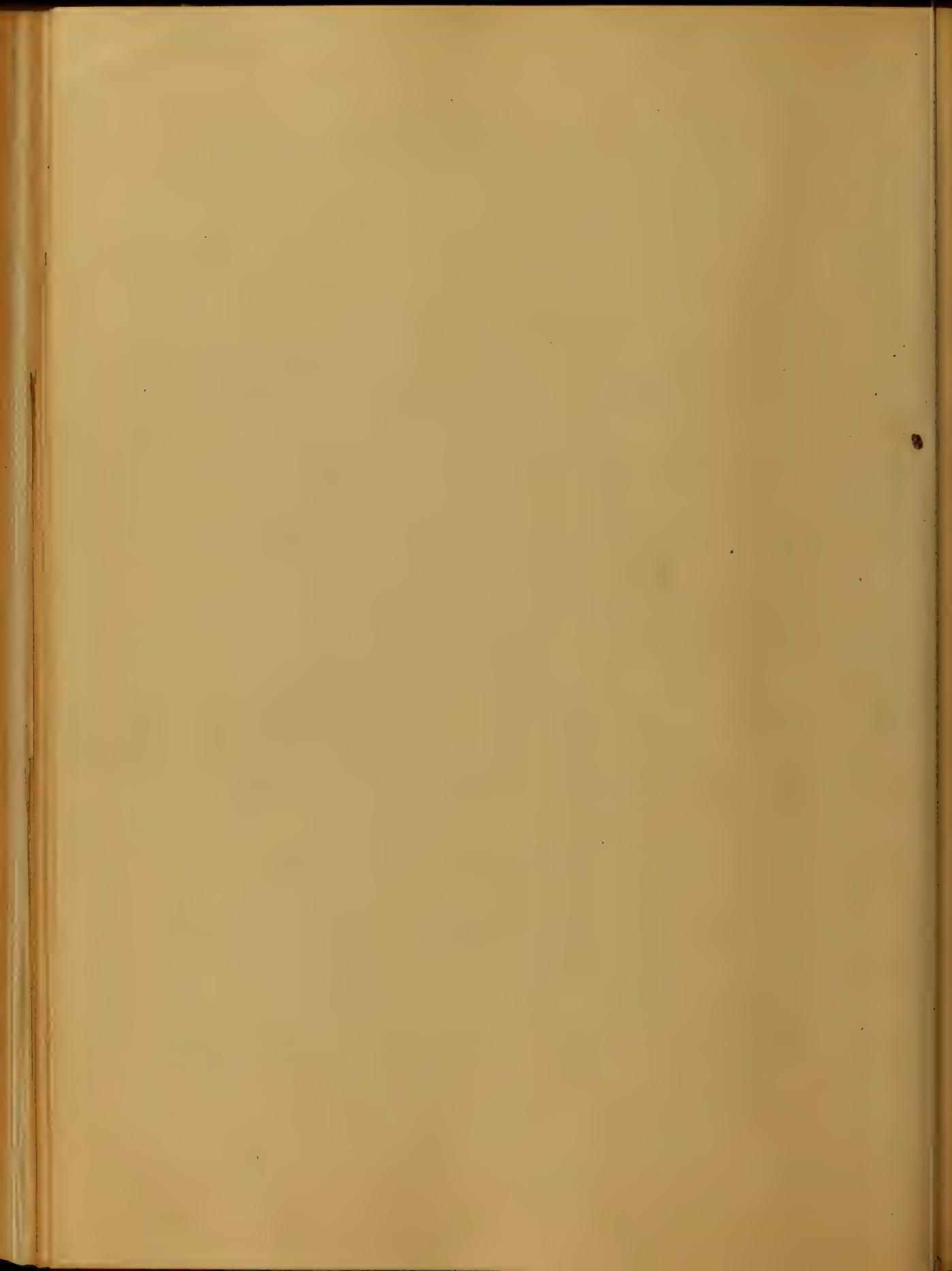


distressing than these colligative  
sweats in Phthisis, and no source  
of drain on the system appears  
to be more exhaustive.

Emaciation is one  
of the most striking and charac-  
teristic features of Consumption.

Cough is another  
of the earliest symptoms, and  
is that which frequently first  
attracts the attention and awakens  
the fears of the patient's friends.

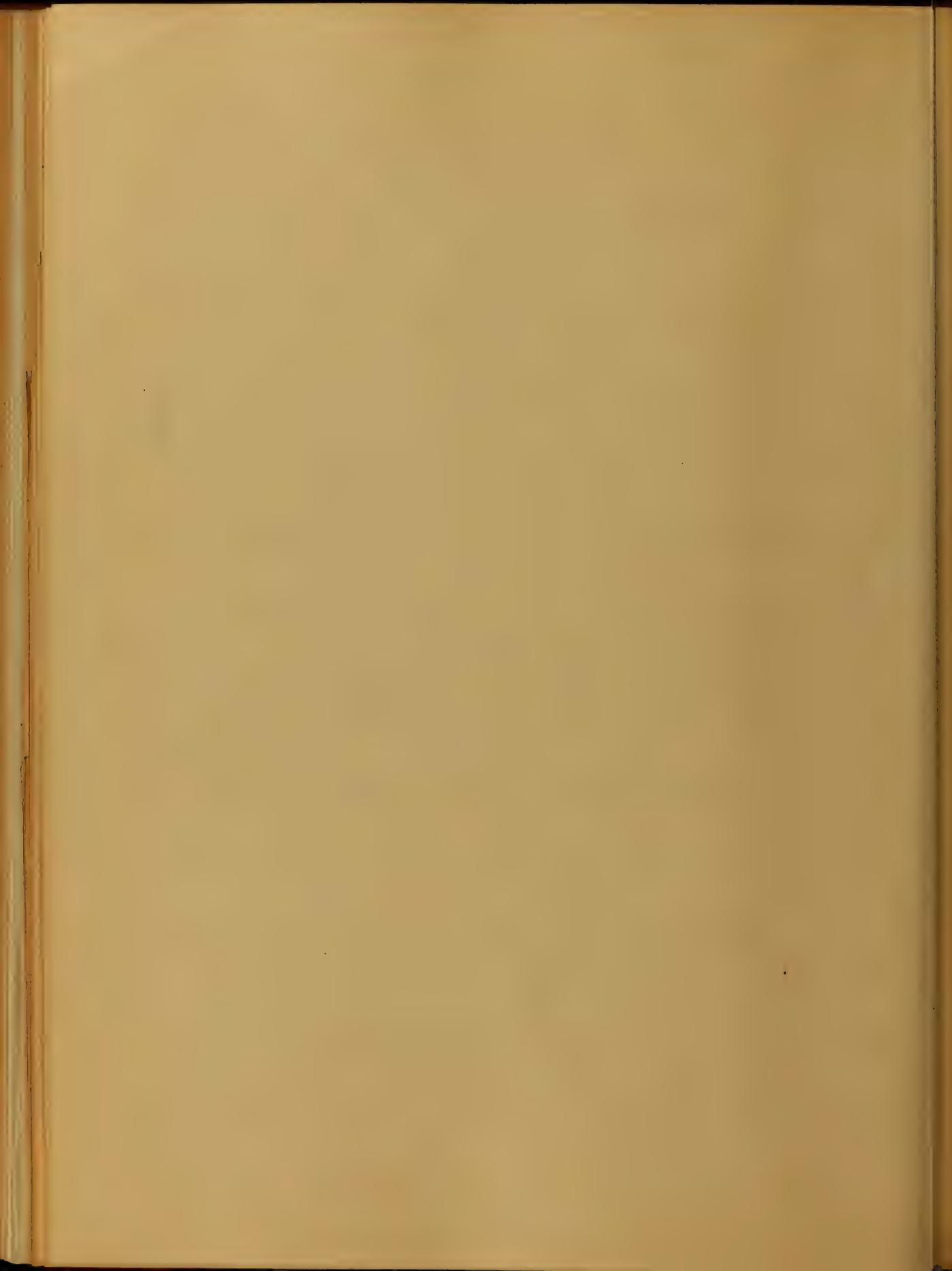
Generally it is a fine but  
slight & occasional and dry.  
It occurs on the patient's getting  
out of bed in the morning.



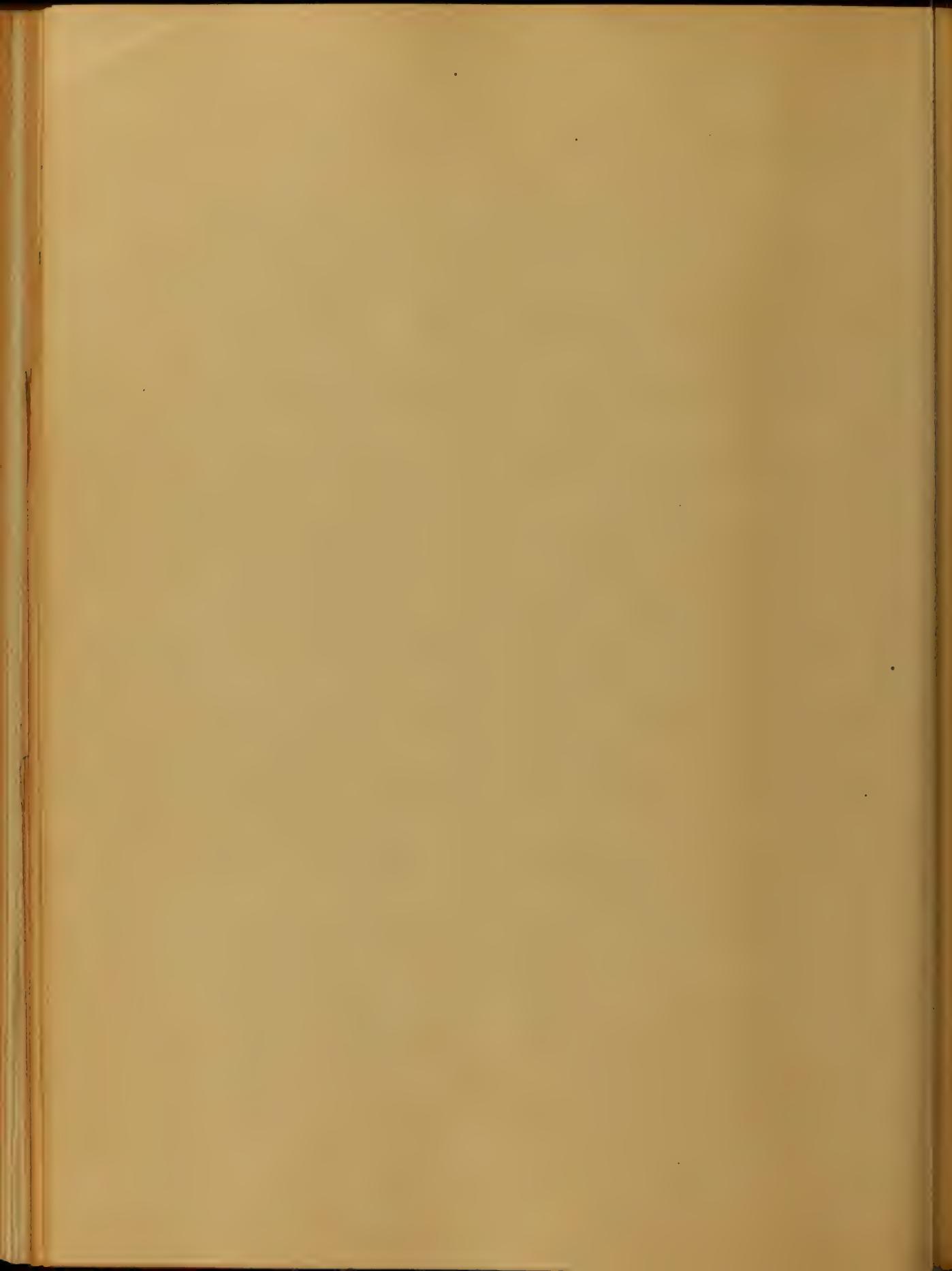
or if he makes any unusual exertion during the day. It feels to him as if it were bound by irritation about his throat.

Sometimes it will cease for awhile, as in the warm weather of Summer, and recur in Winter when the external temperature is lower. By degrees it begins to be troublesome at night, and to be attended with more or less expectoration of mucus or mucous insulous matter.

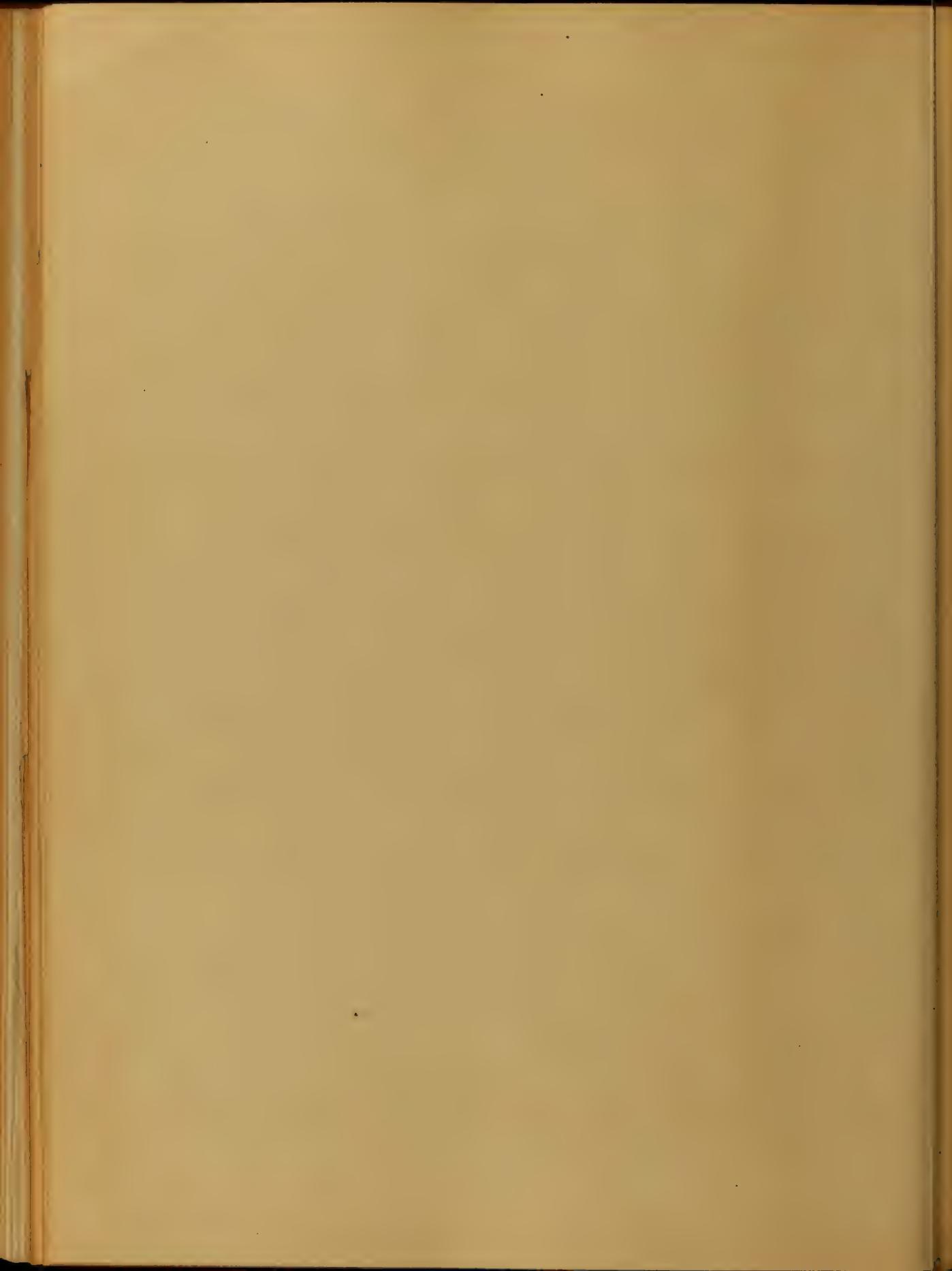
The digestive organs sometimes remain in tolerable order, and the appetite though dimin-



pious, is not materially impaired, but, more frequently, the appetite fails and the digestive organs are disturbed to a greater or less degree, even in the earlier stages of the disorder, and at a more advanced period the disturbance is very serious. At first there are pain and tenderness at the epigastrium, increased after taking food, with nausea and vomiting, constipation or irregular bowels, and small aphthous ulcerations in the mouth. As the disease advances tubercularization of the mesenteric lymph nodes and



of the glandular follicles of the bowels occurs, the abdomen becomes tender on pressure, ulceration of the bowels takes place and diarrhoea sets in with extremely offensive evacuations sometimes mixed with blood. Nausea and vomiting after food become more frequent, and the mouth and fauces are apt to become sore and extremely aphthous, so that deglutition is rendered painful and difficult. In some instances Peritonitis is suddenly lighted up, and occasionally, though rarely, ulceration of the

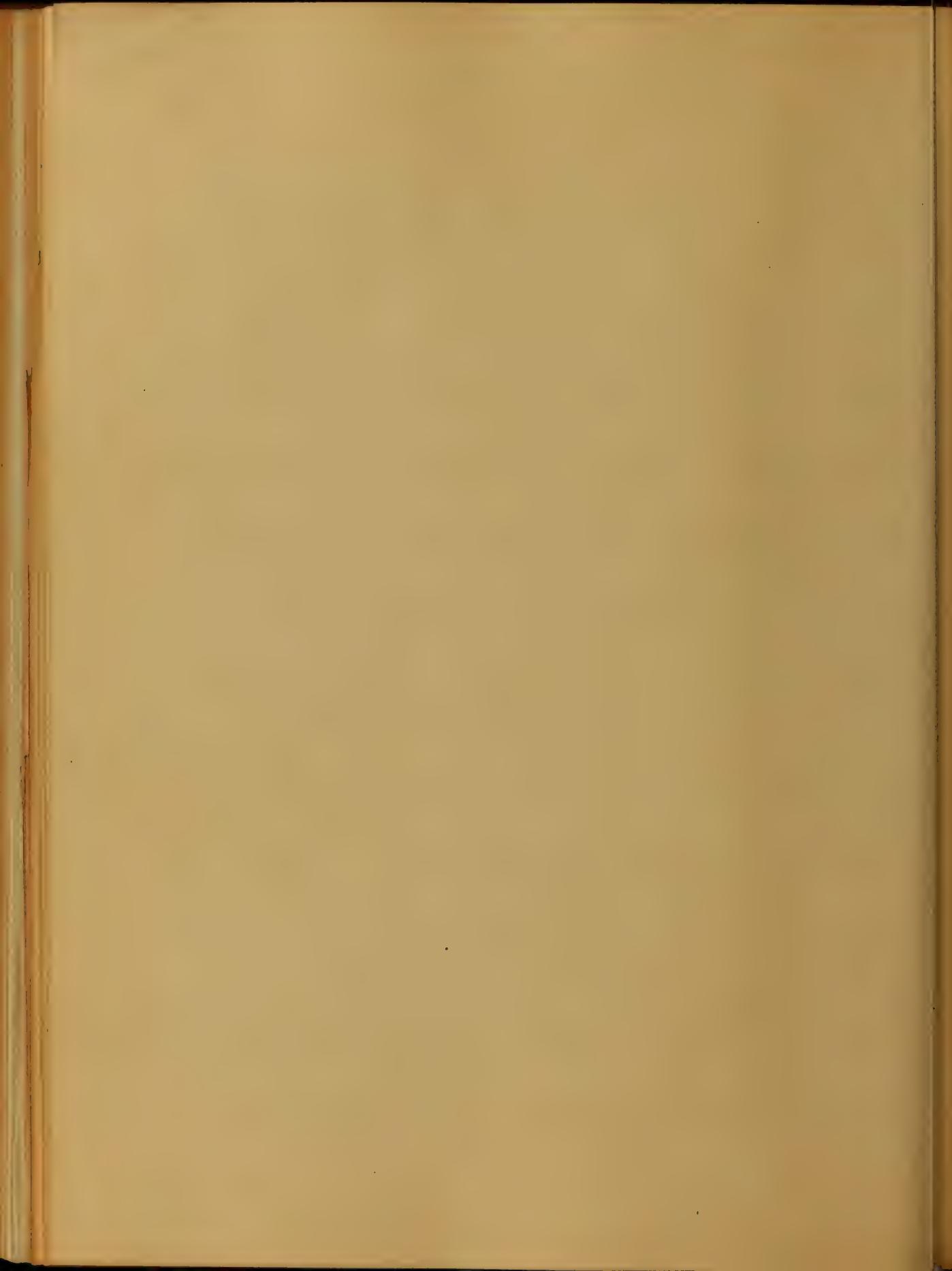


bowel terminates in perforation  
and the escape of faecal matter  
into the abdominal cavity.

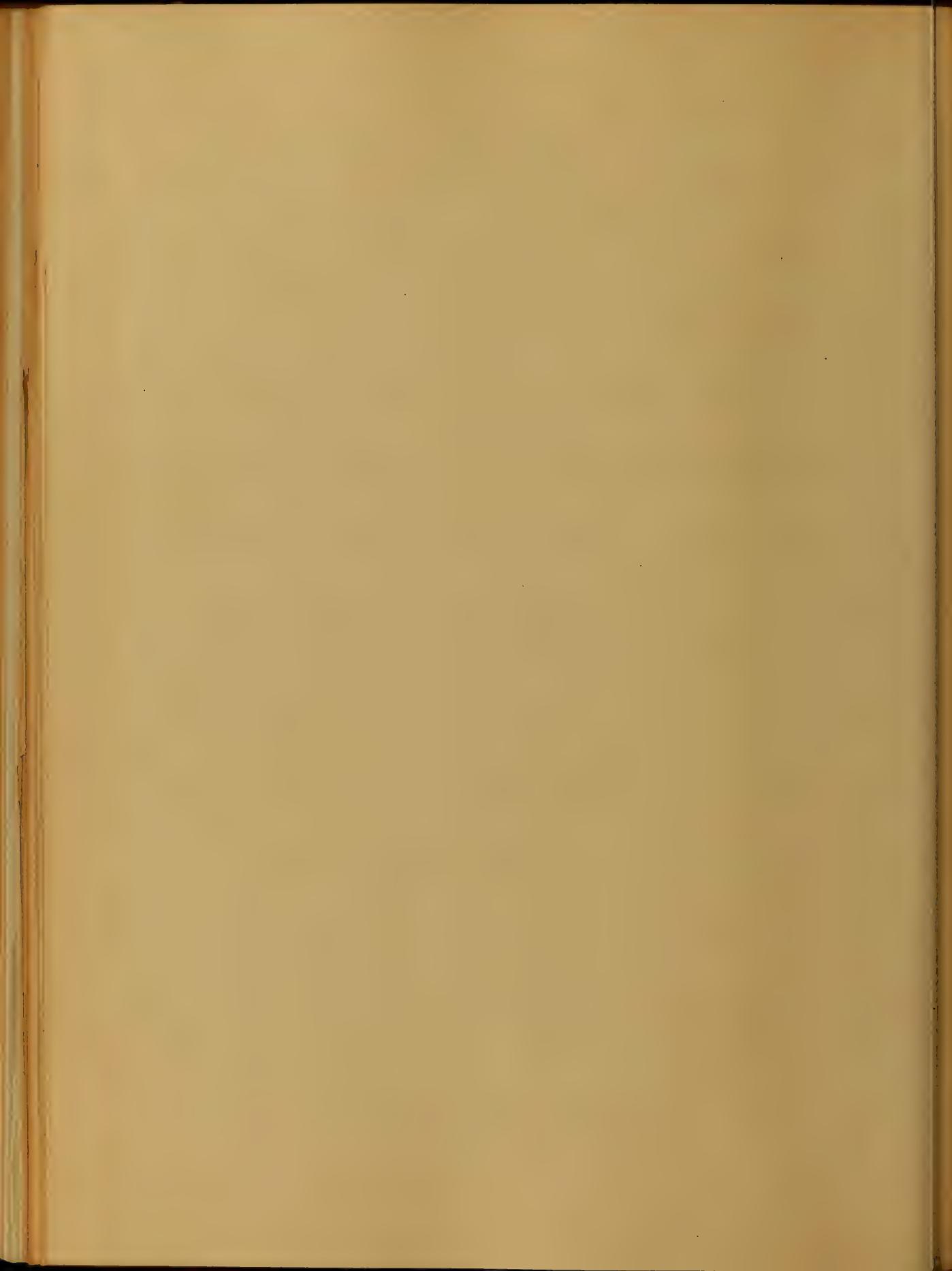
In these cases excruciating  
pain occurs in the abdomen,  
collapse ensues, and the patient  
usually sinks in a few hours.

Diarrhoea is of common occurrence, and is a symptom of grave significance. The diarrhoea of Phthisis is not an ordinary looseness of the bowels, nor is it due to ordinary causes.

It has a special origin, and is marked by special peculiarities. It is troublesome, painful some-



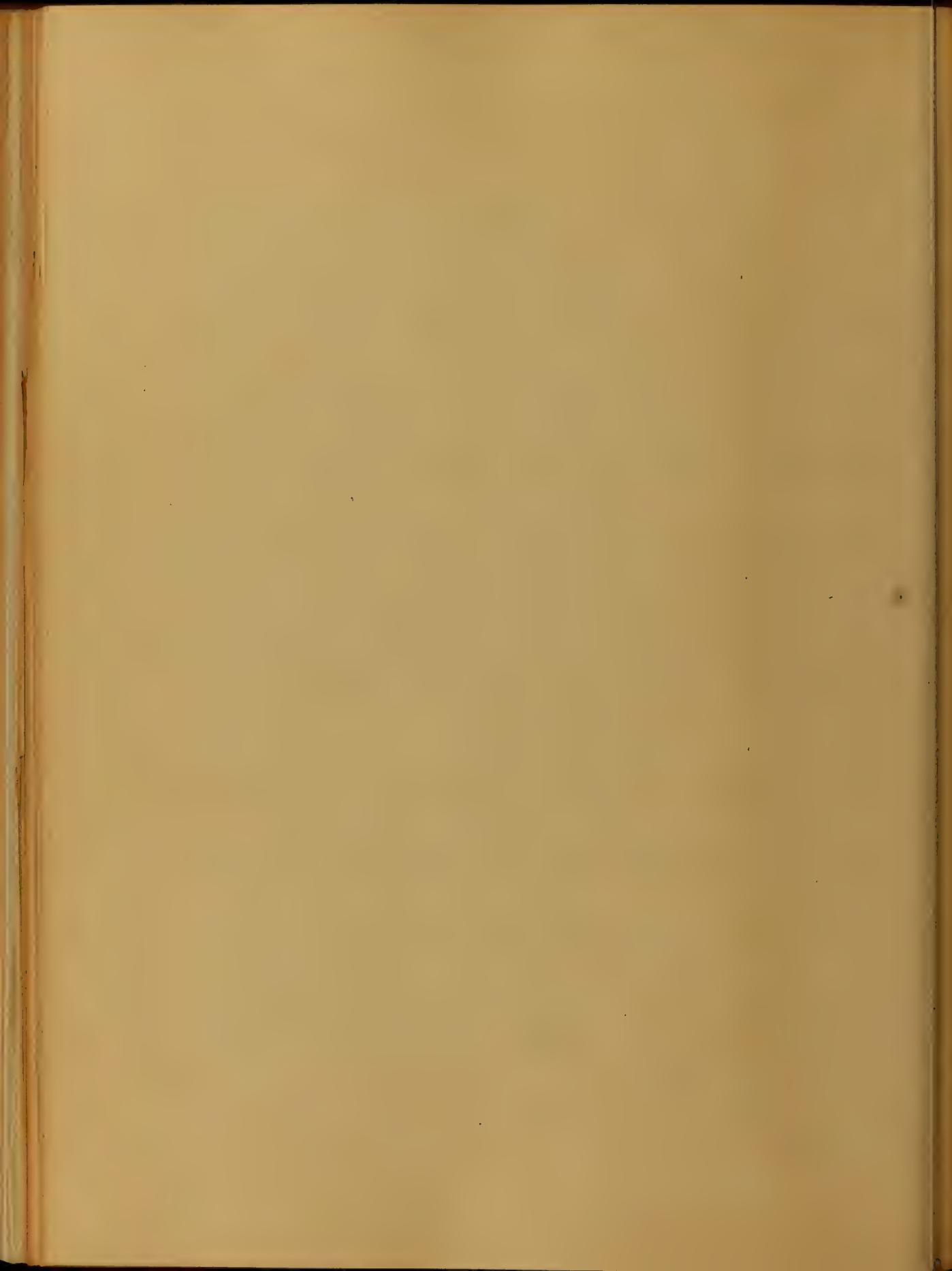
times, but not often; it is very per-  
sistent, and is seldom amenable  
to ordinary remedies. It is apt  
to recur, and is not unusually ac-  
companied by furring of the tongue,  
and the sickness and vomiting which  
attend other diarrhoeas; hence its  
character may be recognized after  
a few days observation, and when  
in a person suffering from Cough,  
the bowels, which previously have  
been constive become habitually  
loose, and the loosened upomes  
the character above mentioned,  
there can be but little doubt of  
the true significance of the Cough.



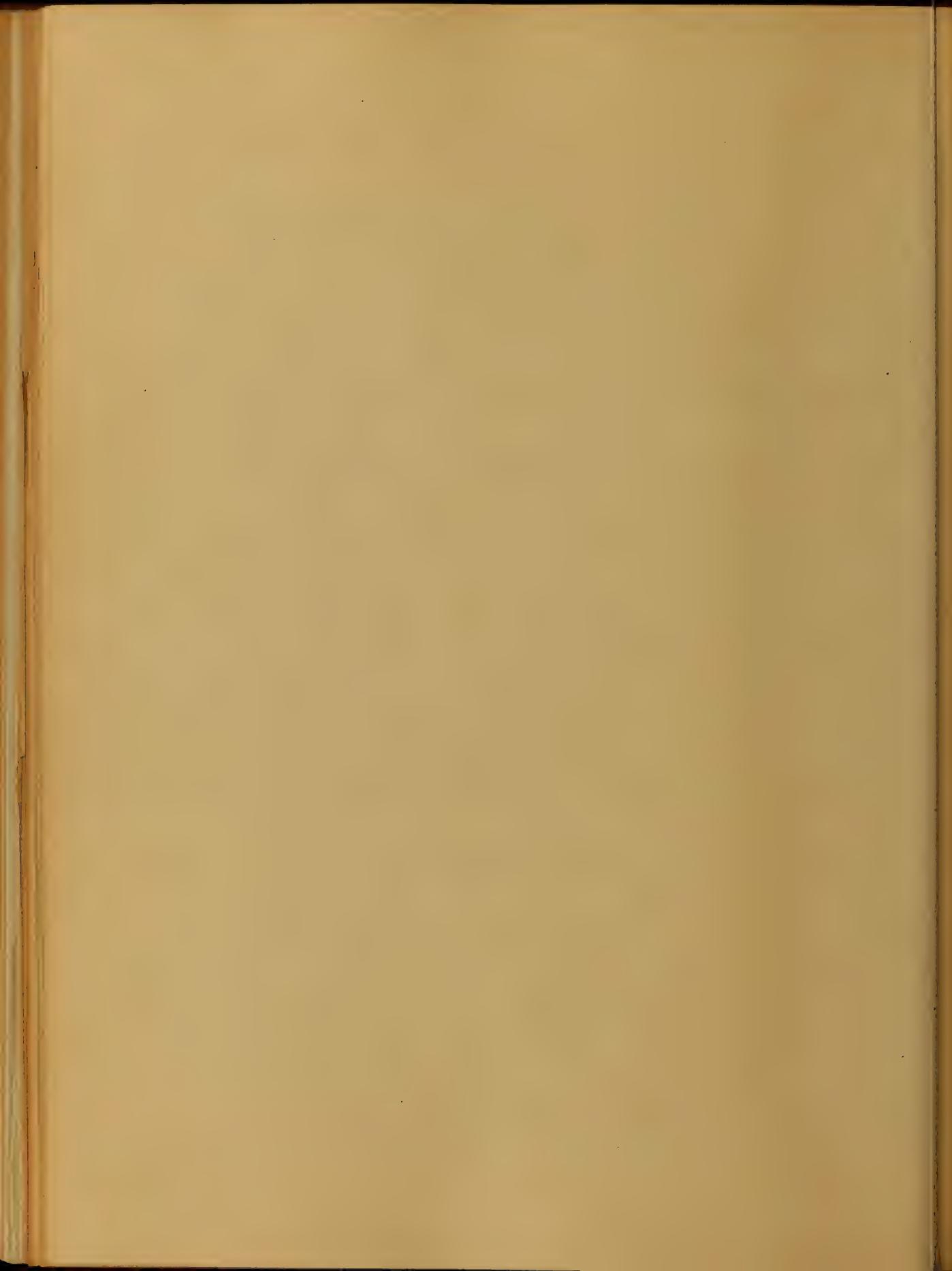
nor of the nature of the coexisting constitutional malady.

The complications of Tuberculosis are Pleuritis, Pneumothorax, Hydro-pneumothorax, Pneumonia, Bronchitis, Chronic Laryngitis, Cerebritis and Cerebral Meningitis consequent on the deposit of tubercle in the brain or its membranes.

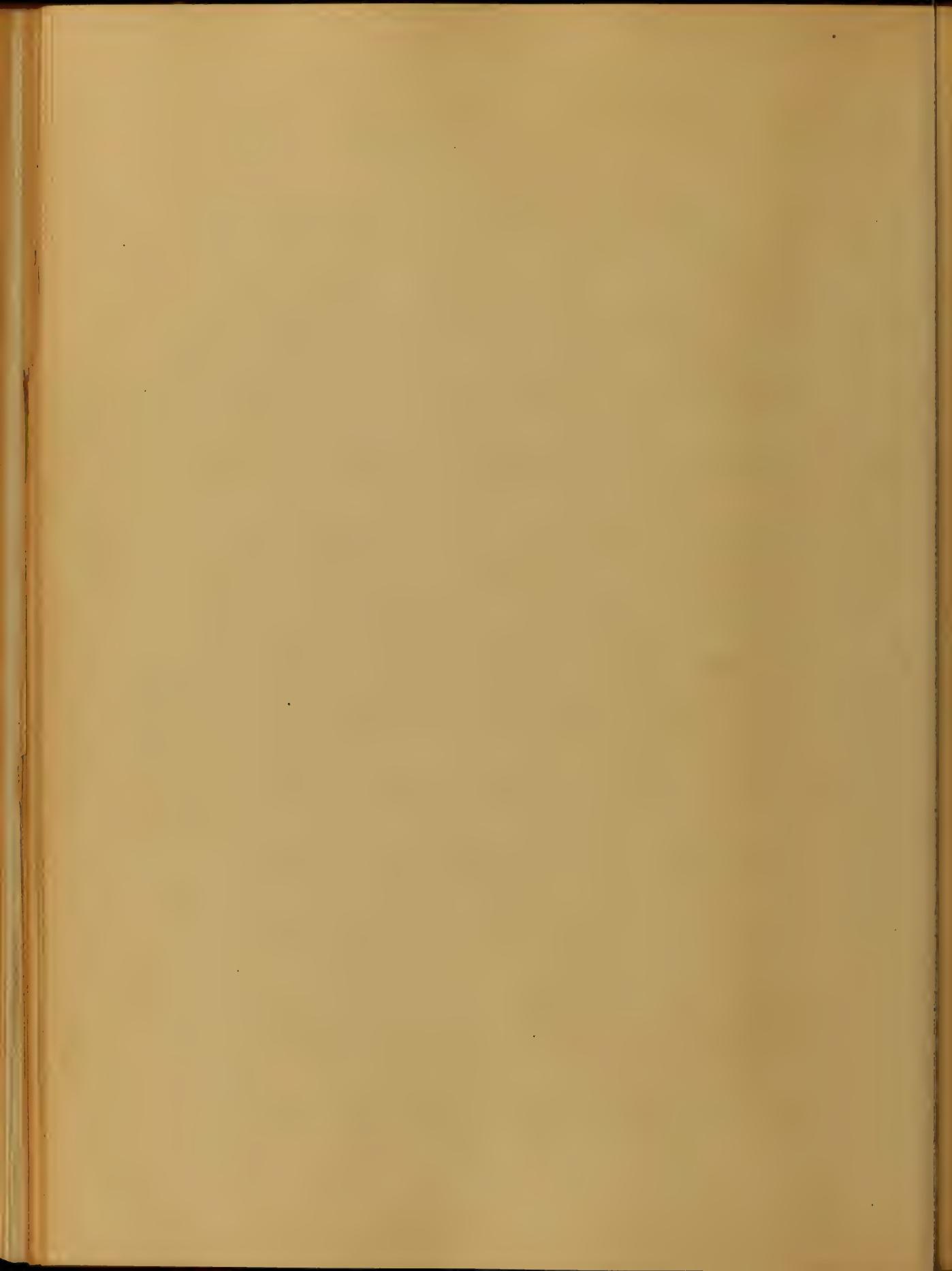
Diagnosis of Tuberculosis must be a matter of extreme uncertainty to a person unpractised in conducting a physical examination of the chest, not only because of the possible ob-



scurity of the peculiar symptoms  
of Phthisis, but that Bronchitis,  
Pneumonia or Pleurisy may be  
present and mask the true na-  
ture of the disorder; and even  
the most experienced auscultation  
may often find a certain degree  
of difficulty; for, in the earli-  
er stages of the disease there is  
no one sign by which the ex-  
istence of the trouble is clear-  
ly marked, and the general  
symptoms may each, separately  
or collectively, accompany Bronchitis  
Pneumonia or Pleurisy. Say more  
when referable to the presence of



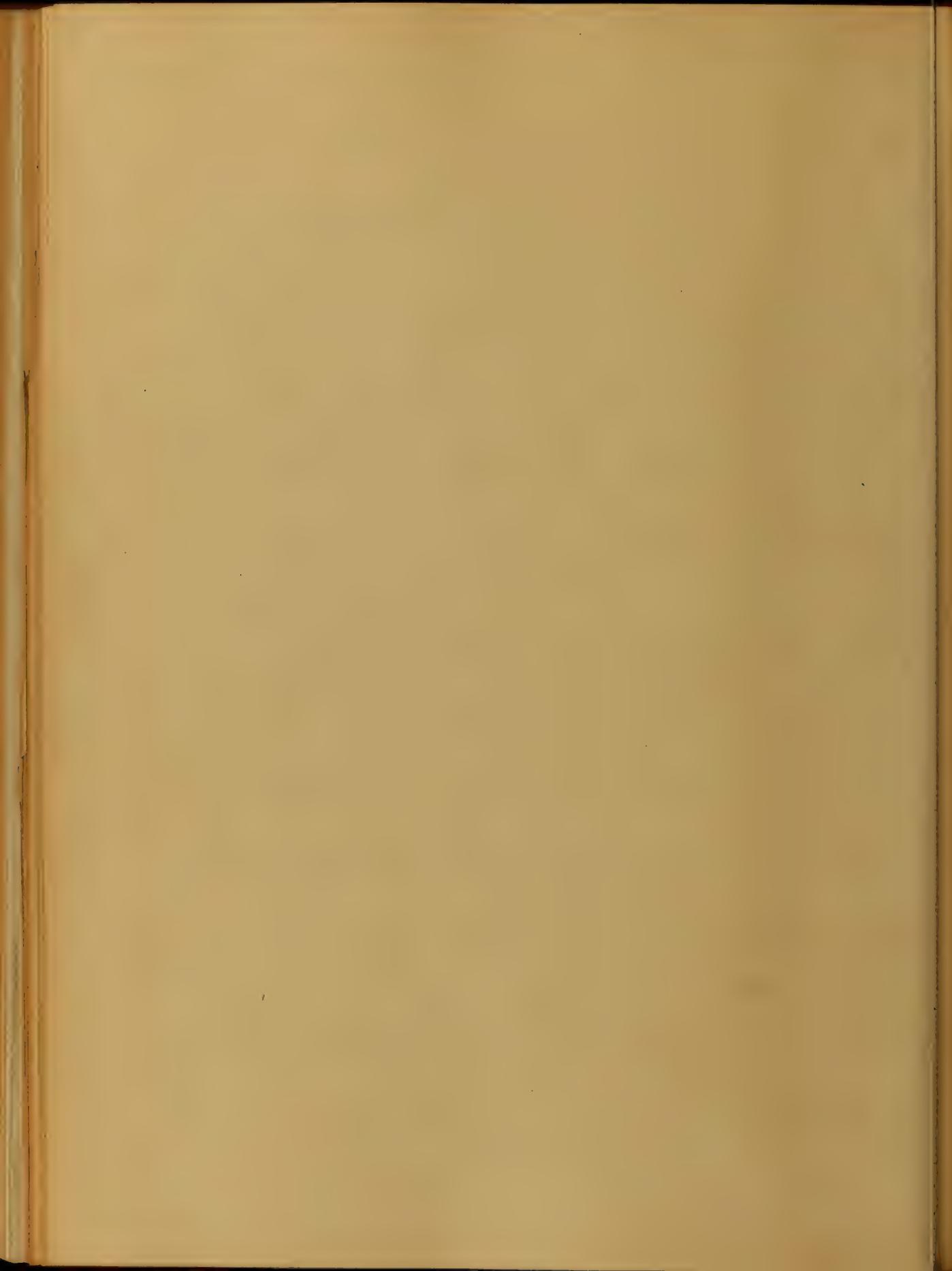
tubercle they may be complicated and masked by the existence of either of those forms of disease; and thus it happens that if great care be not exercised in making the examination of the chest, and much caution observed in drawing inferences from the signs observed an incorrect conclusion will be arrived at. In short, the physical signs, alone, are oftentimes as insufficient as the general symptoms, to form trustworthy data for an opinion, and the fact of the existence of Consumption is only to be established



by a careful inquiry into the history of the patient, a jealous investigation into the general symptoms, and by a comparison of those symptoms with the physical signs as revealed by examination of the chest.

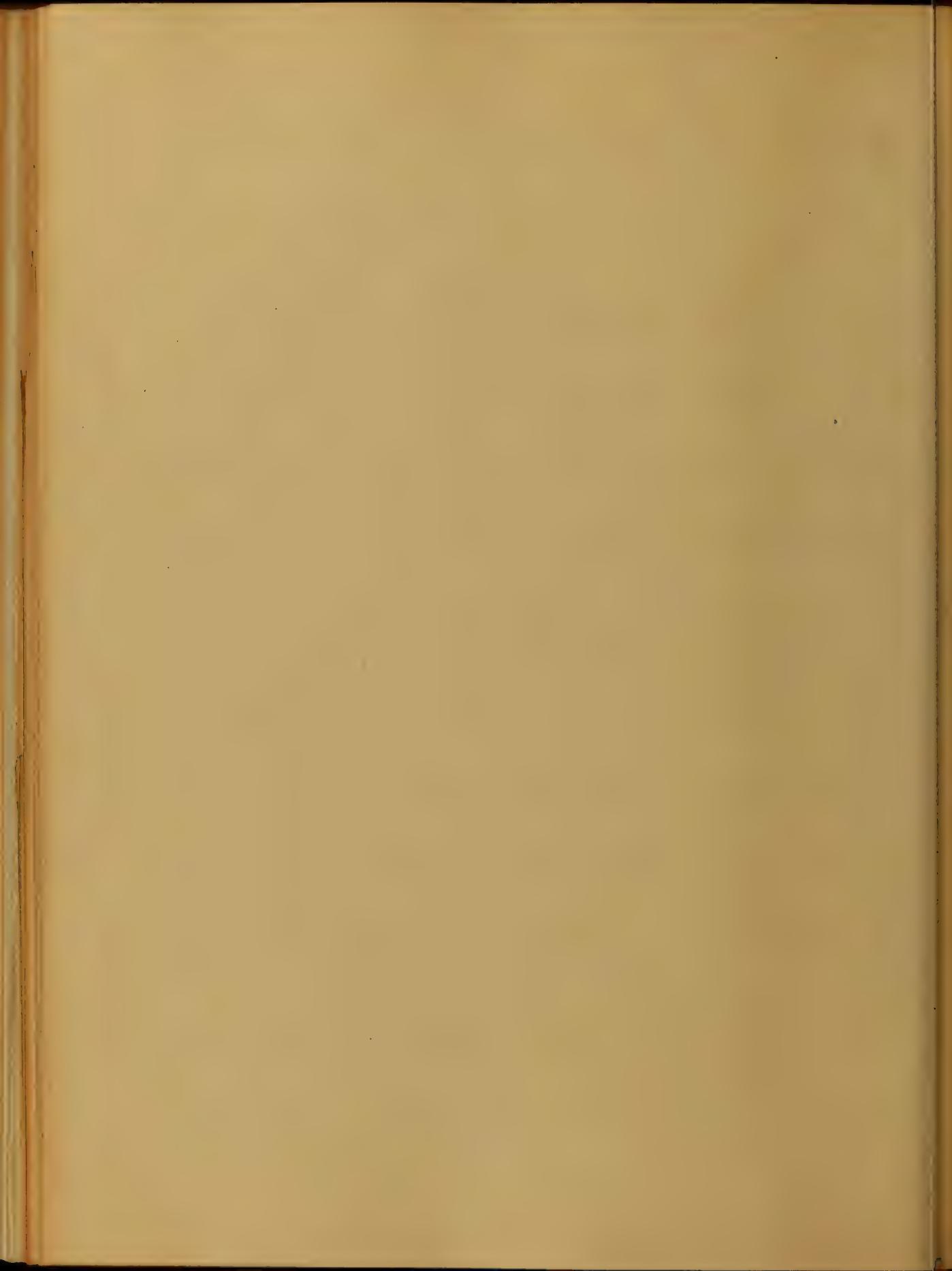
(C) Bronchitis is the disease with which Chikisis is most liable to be confounded.

An incipient Chikisis is cough commences gradually, without fever and without the running of the eyes and nose which mark an ordinary cold. The cough is generally dry and hacking, for sometime



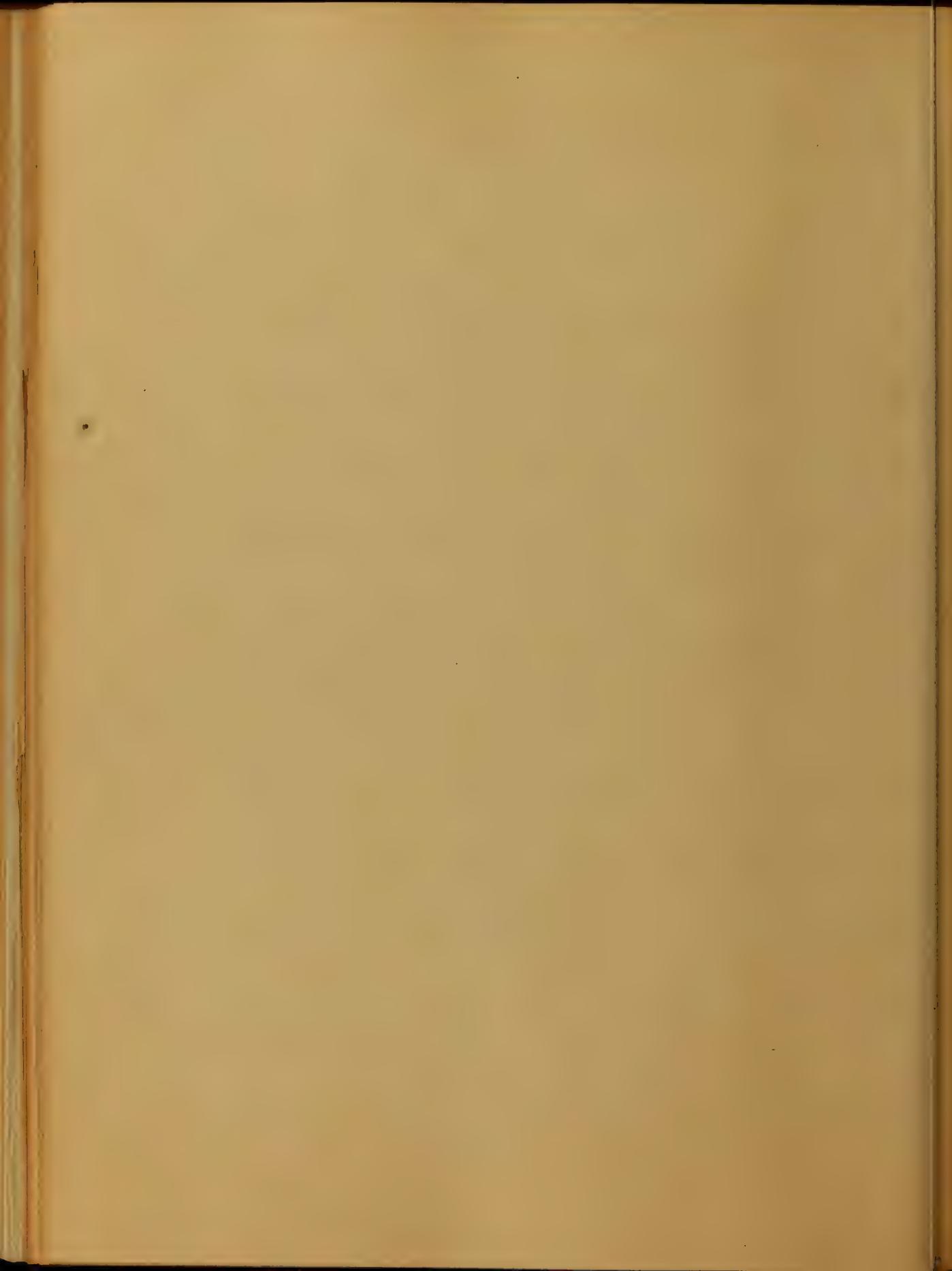
after its commencement. The expectoration is often streaked or speckled with blood, and there is seldom much pain in the chest, and rarely any fixed pain. When pain does occur it is usually of a dull aching character, and is met with under the clavicles or scapulae, or at the sides, and is not usually aggravated by coughing.

The morbid sounds are usually confined to the upper lobes of the lungs, and are often confined to one side of the chest. They are very persistent, and even if met with on both sides at first, are



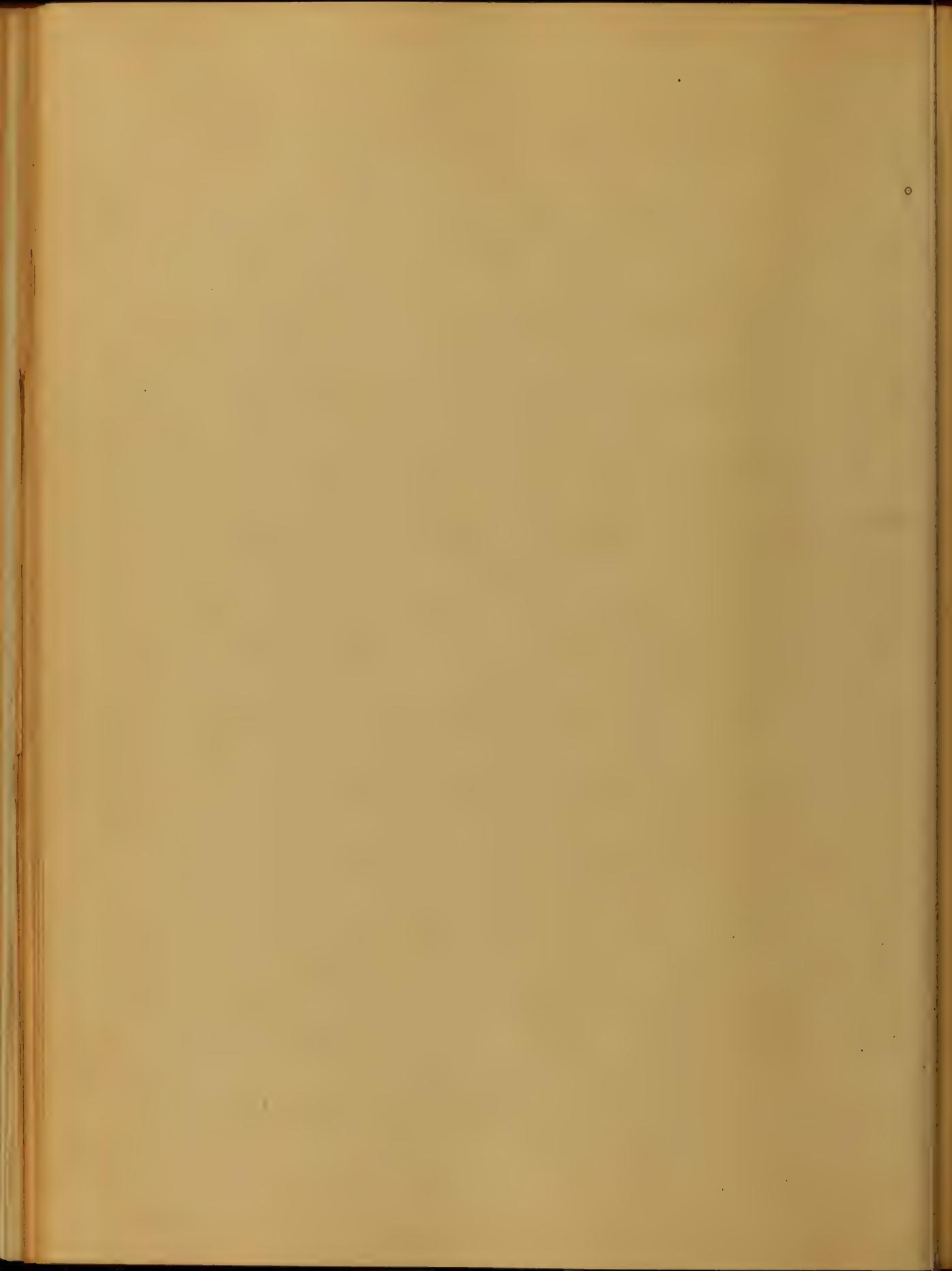
apt to subside partially or wholly  
on one side, whilst they continue,  
or even increase on the other.

Certain combinations of symptoms may be pointed out which are always indicative of tubercular disease of the lungs. Foremost among these are: Obstinate cough, commencing gradually, dry and hacking at first, or at least attenuated by scanty expectoration, and persisting in spite of ordinary remedies. Of a person who has such a cough it will be inferred that one or more of his relatives has been consumptive, that he has experienced similar disease



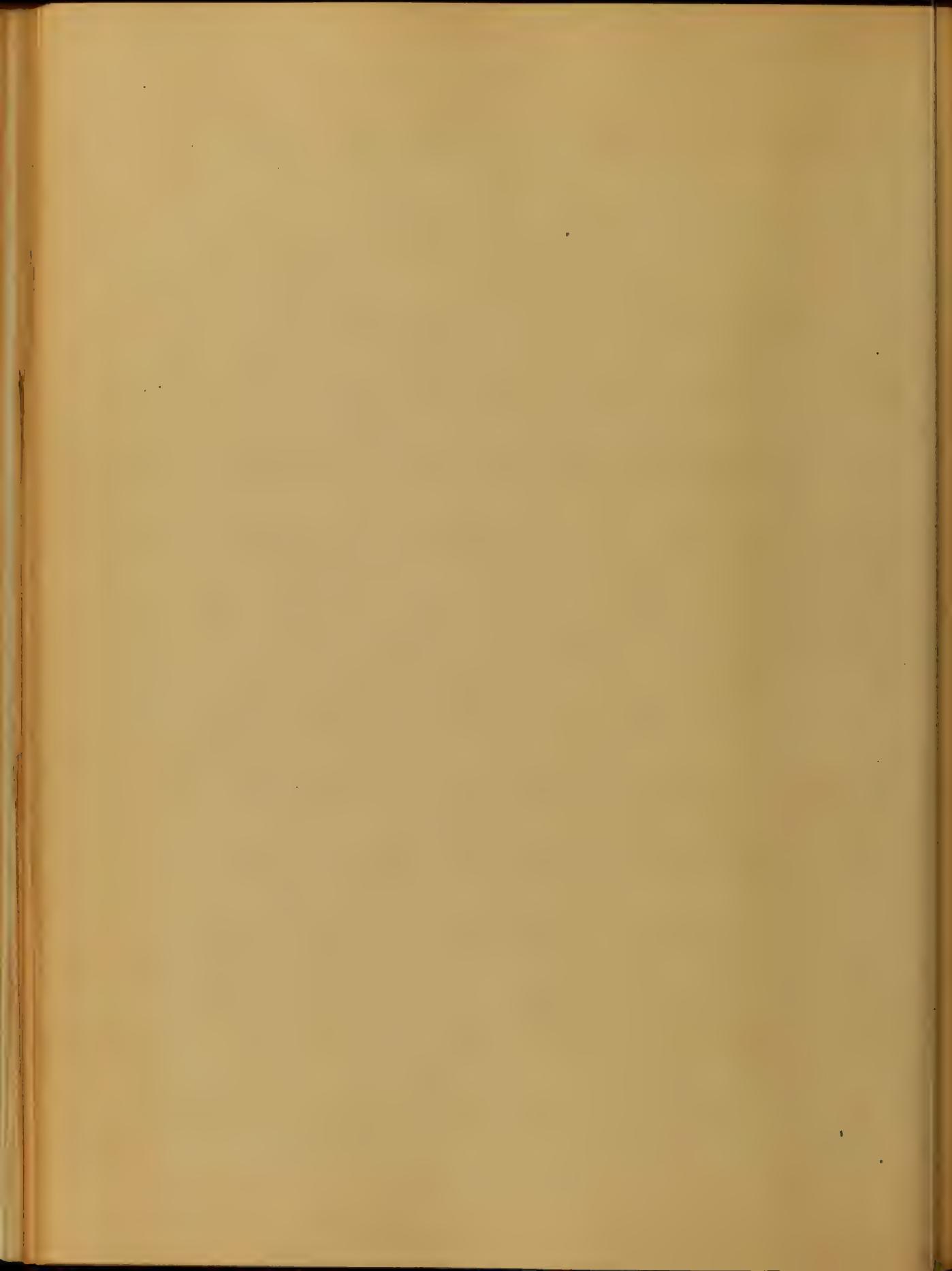
pain about or under the clavicles;  
that the cough and expectoration  
have greatly increased and are  
most troublesome at night; that on  
one or more occasions the sputa  
has been mixed or streaked with  
blood; that he has lost strength  
and flesh, and has become short  
breathed on going up stairs. The  
general symptoms of Phthisis will  
be complete, though it will re-  
quire confirmation by means of a  
physical examination of the chest.

So too, if emaciation has oc-  
curred without manifest cause,  
and especially if it has been ac-

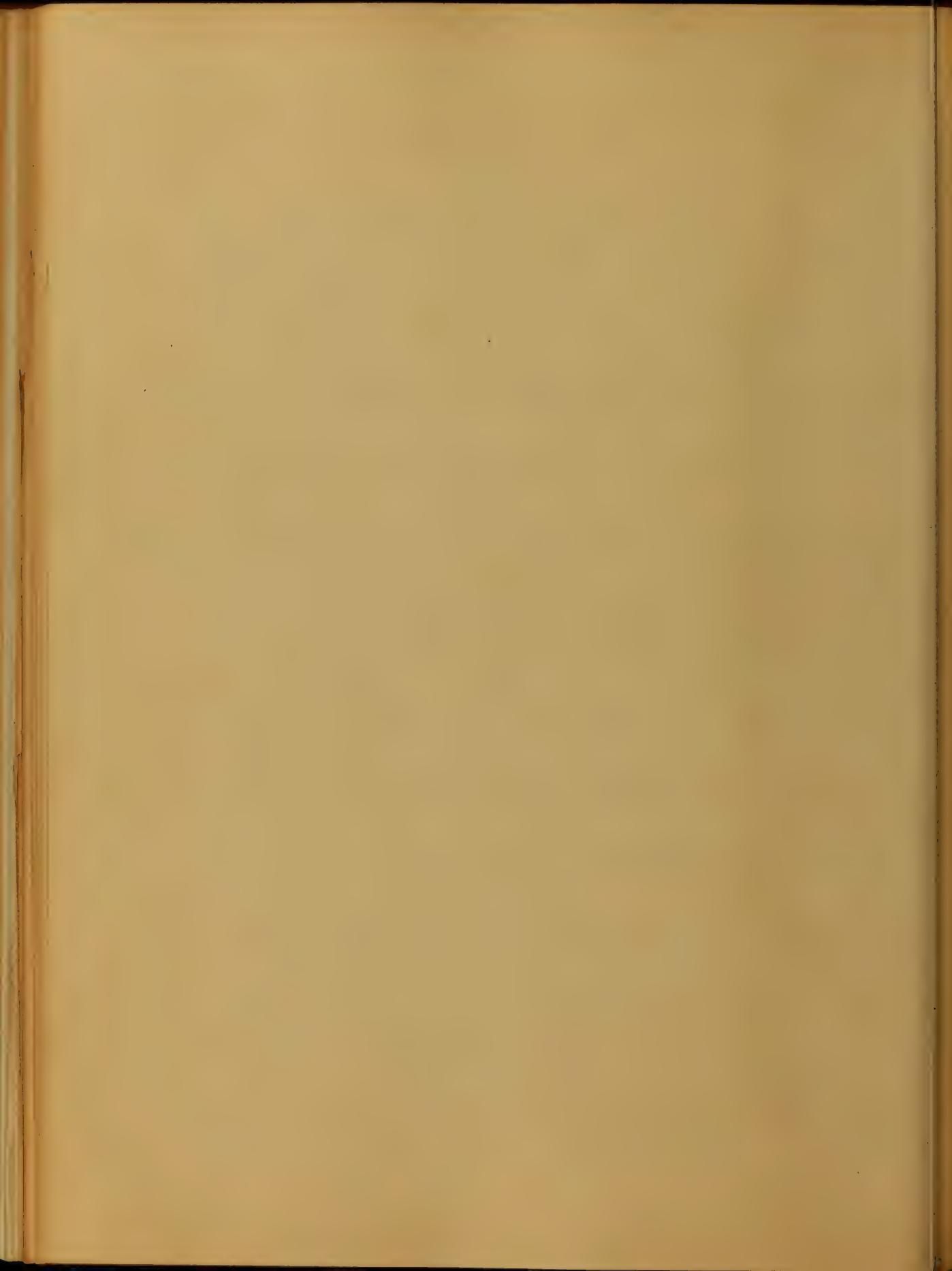


Accompanied by any of the general symptoms just mentioned, or by night sweats, or by hoarseness, not connected with a syphilitic taint, and does not speedily subside under treatment, the gravest suspicion of Consumption may be entertained, and a careful examination of the chest is necessary.

Under any of these circumstances a slight flattening of the chest walls, a deficiency of expansion at the summit of one or both lungs; a decrease in the capacity of the chest; the occurrence of more or less dulness on percussion

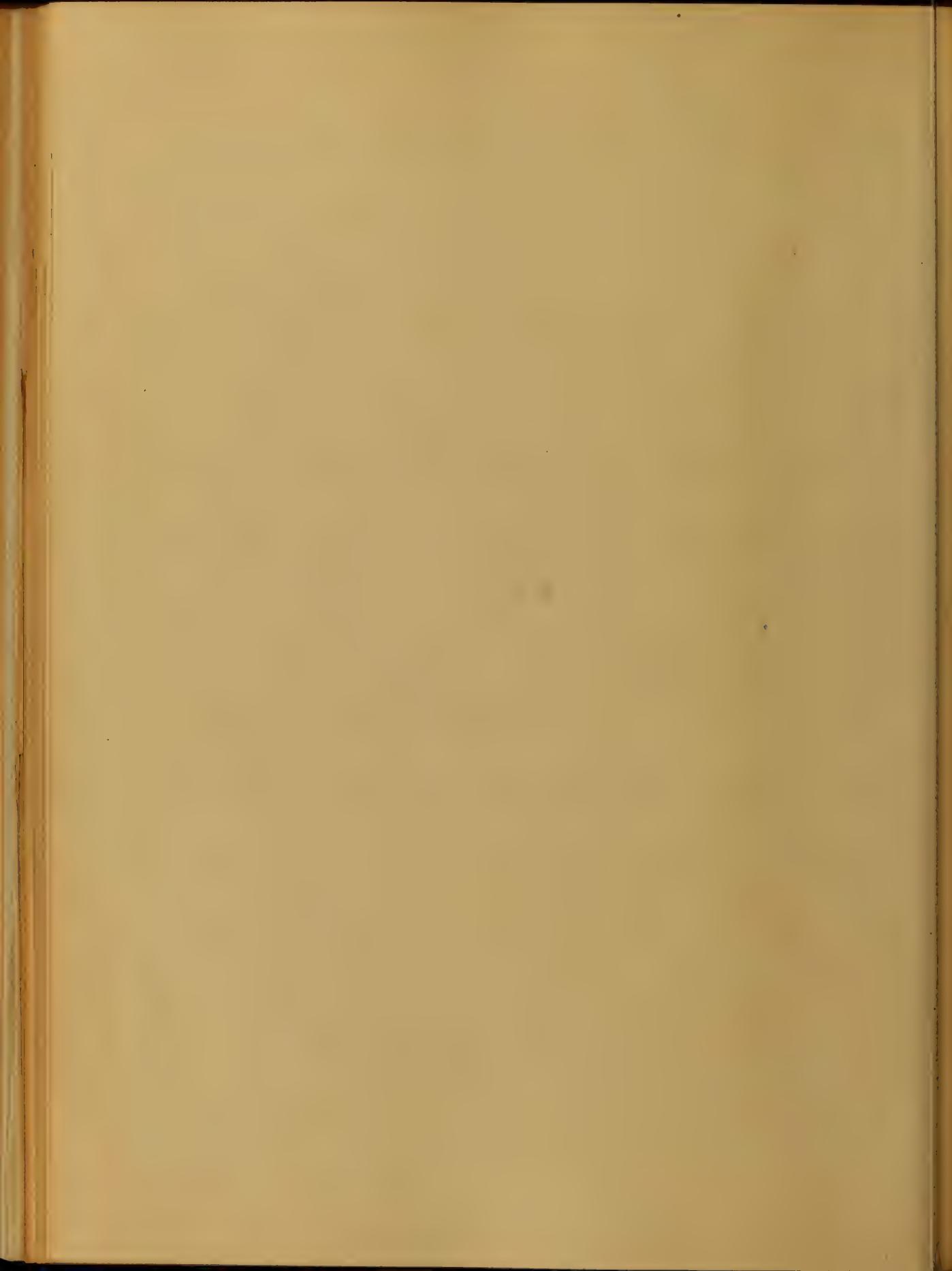


in the Clavicular, infra-clavicular or Supra-Scapular region, with a harshness or feebleness of the respiratory murmur, an irregularity in its rhythm; the existence of prolonged respiration or of increased vocal resonance, especially at the left apex, and the occurrence of occasional dry clickings in addition to râles or ronchi which may be present; râles of any kind or of whatever character, persistent at and confined to the apices of the lungs, and still more so if persistent at one apex only, and accompani-



ed by haemoptysis, emaciation, night-sweats and other of the signs of Phthisis, may be regarded as certainly indicating tubercular disease.

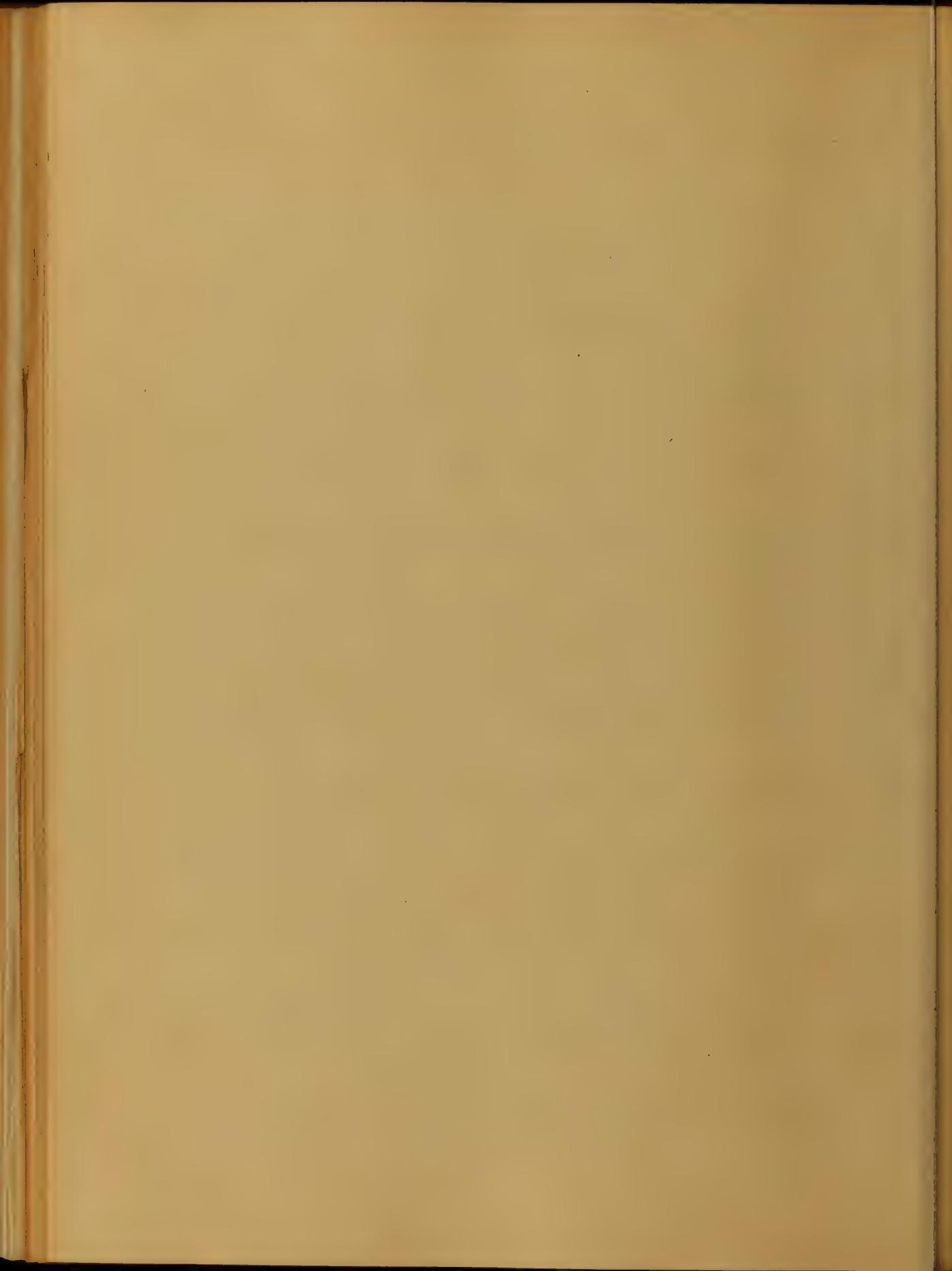
Time is an important auxiliary in the diagnosis of obscure cases. Tales which are due to Pneumonia, Bronchitis or the presence of blood effused in an attack of haemoptysis, and dulness referable to pleuritic effusion or to oedema of the lung, or to pneumonic consolidation will gradually disappear, and cease to complicate and mask



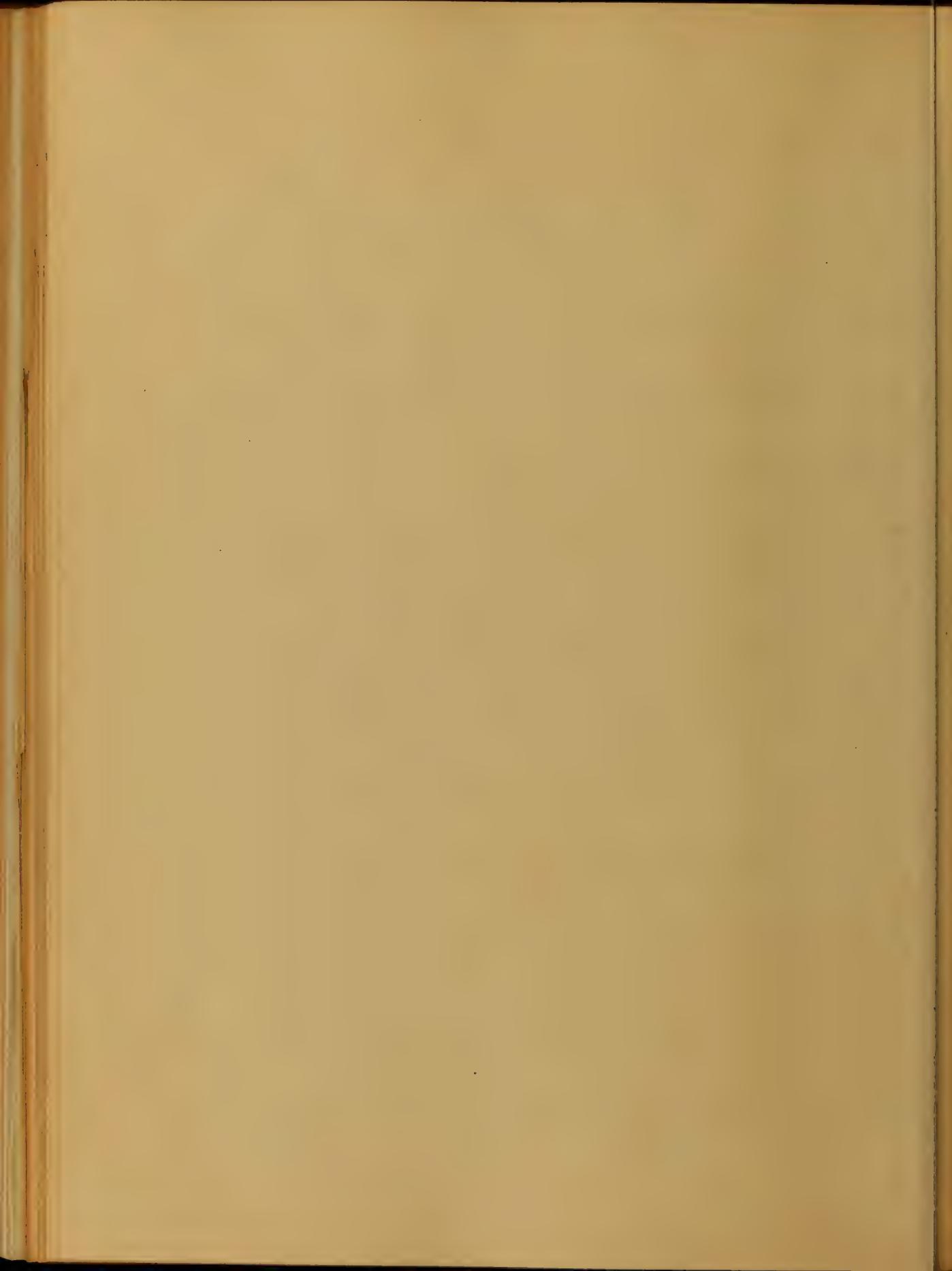
The signs which are consequent on more permanent and organic changes in the lungs.

The prognosis of Tuberculosis is necessarily unfavorable. In acute Ophthisis the downward course of the patient is steadily and rapidly progressive; but in certain cases, instances of Chronic Ophthisis, the disease is of long duration; whilst in others, and certainly the majority of cases, it runs a less protracted course, but is nevertheless marked by distinct remissions.

The question therefore arises

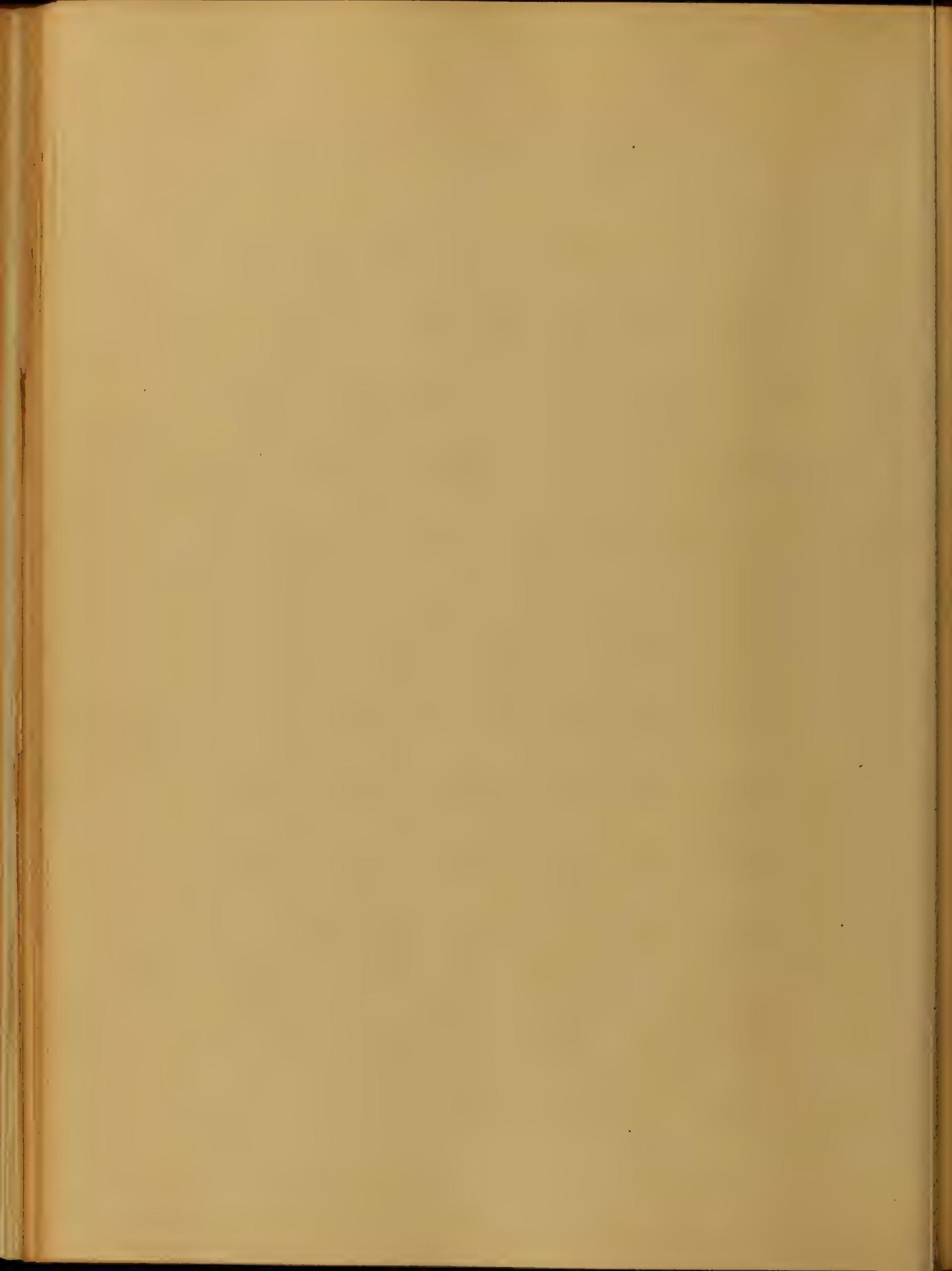


whether it is possible to prognosticate which course it will pursue - by reference to the character of the symptoms which accompany it. (In some instances undoubtedly it is possible to do so, but in others there are not sufficient data for our guidance). It has already been stated that tubercle, when once deposited, may remain for years in "status quo"; or may specially undergo softening or disintegration, and these peculiarities are referable in great measure to the circumstances or constitutional

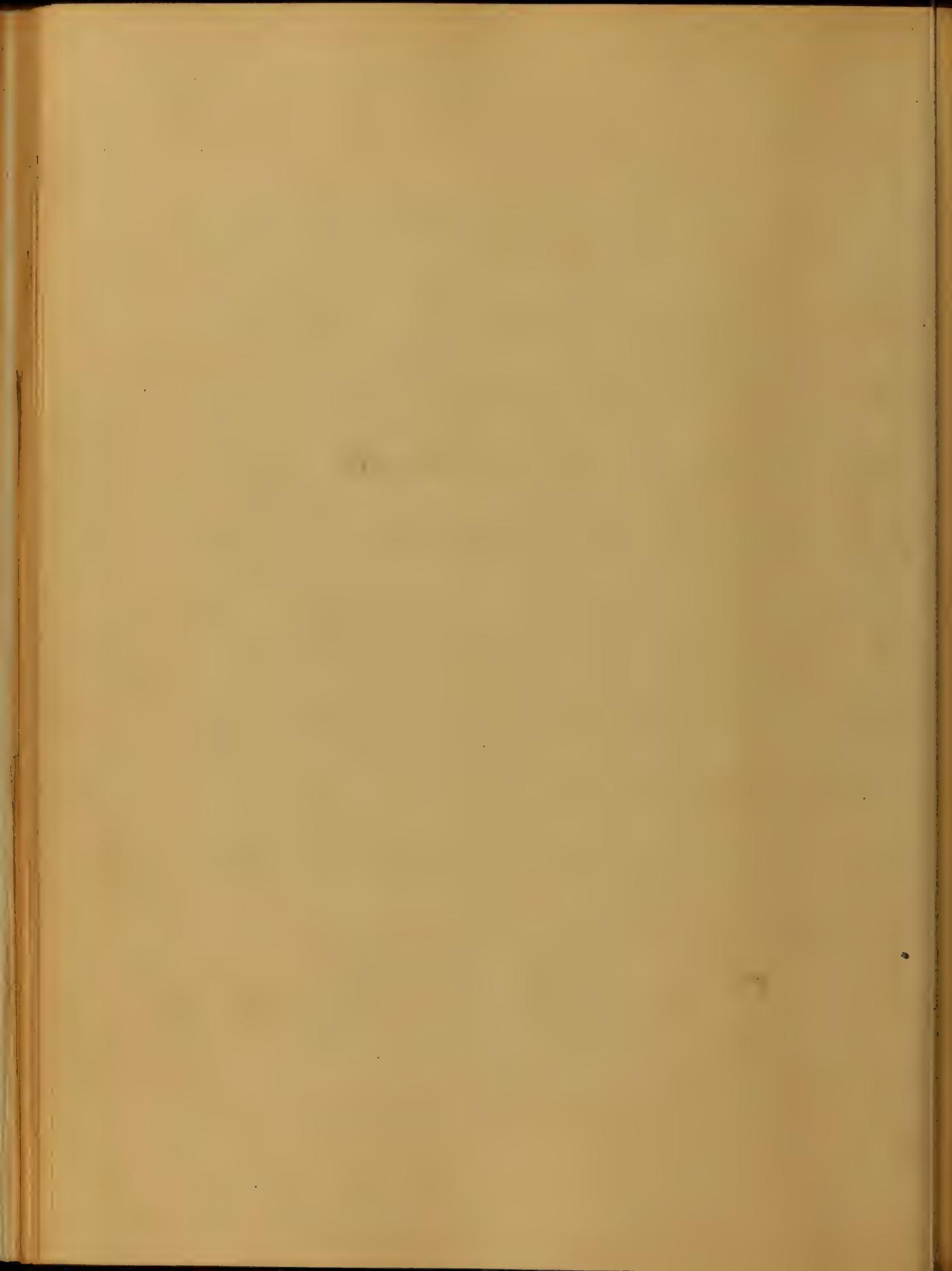


disorder under the influence of  
which the tubercle is deposited:  
The same conditions regulate the  
entire course of the disease and  
modify the effects of treatment.

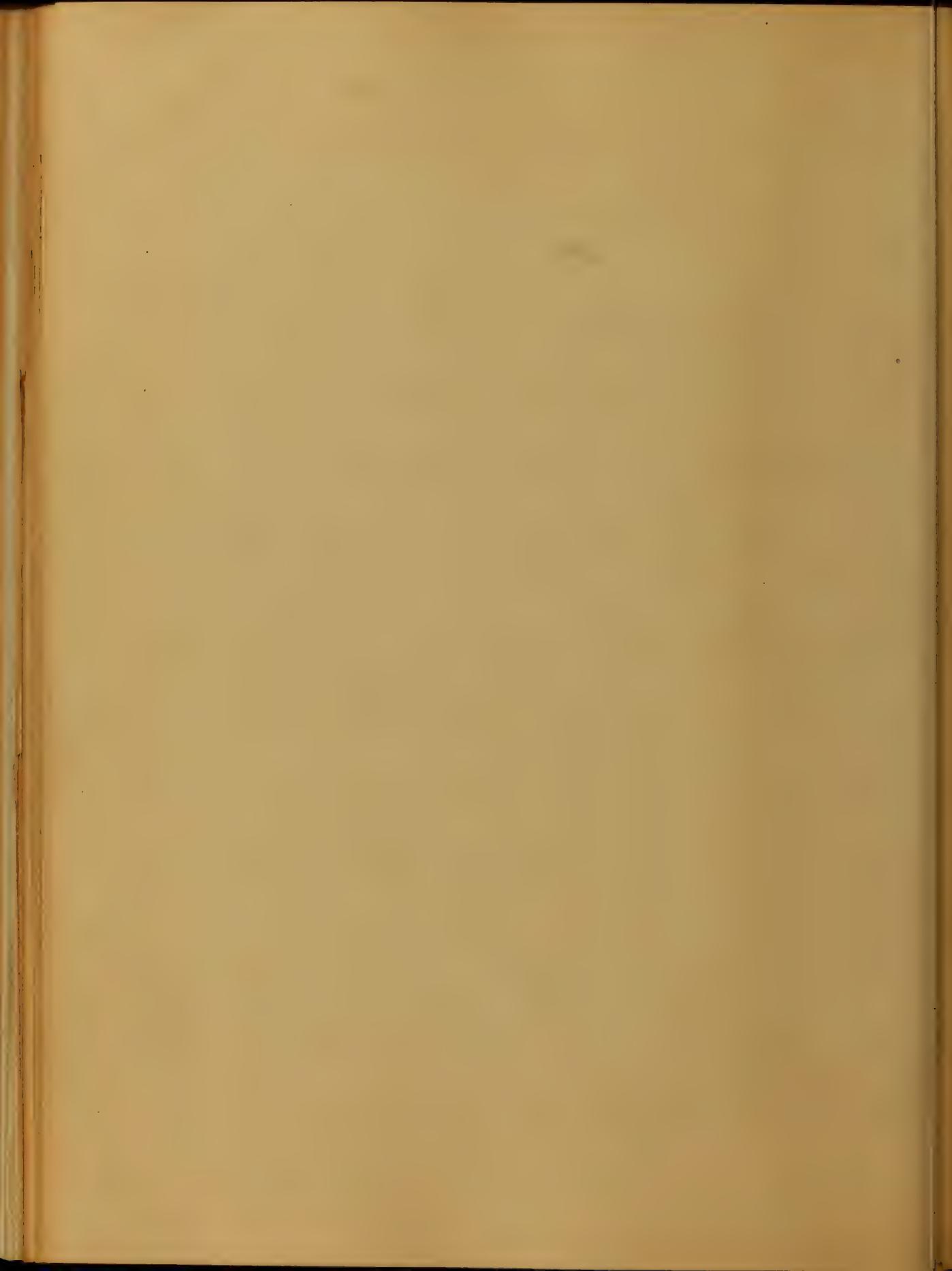
Thus, in any given case, if  
the intensity of the Constitutional dis-  
order can be ascertained, it will  
not be difficult to predict with  
some degree of certainty whether  
the course of the Tuberculosis  
will be slow or rapid - whether  
temporary remission or suspension  
of the symptoms may be expected,  
or whether they will run on un-  
checked by remedies.



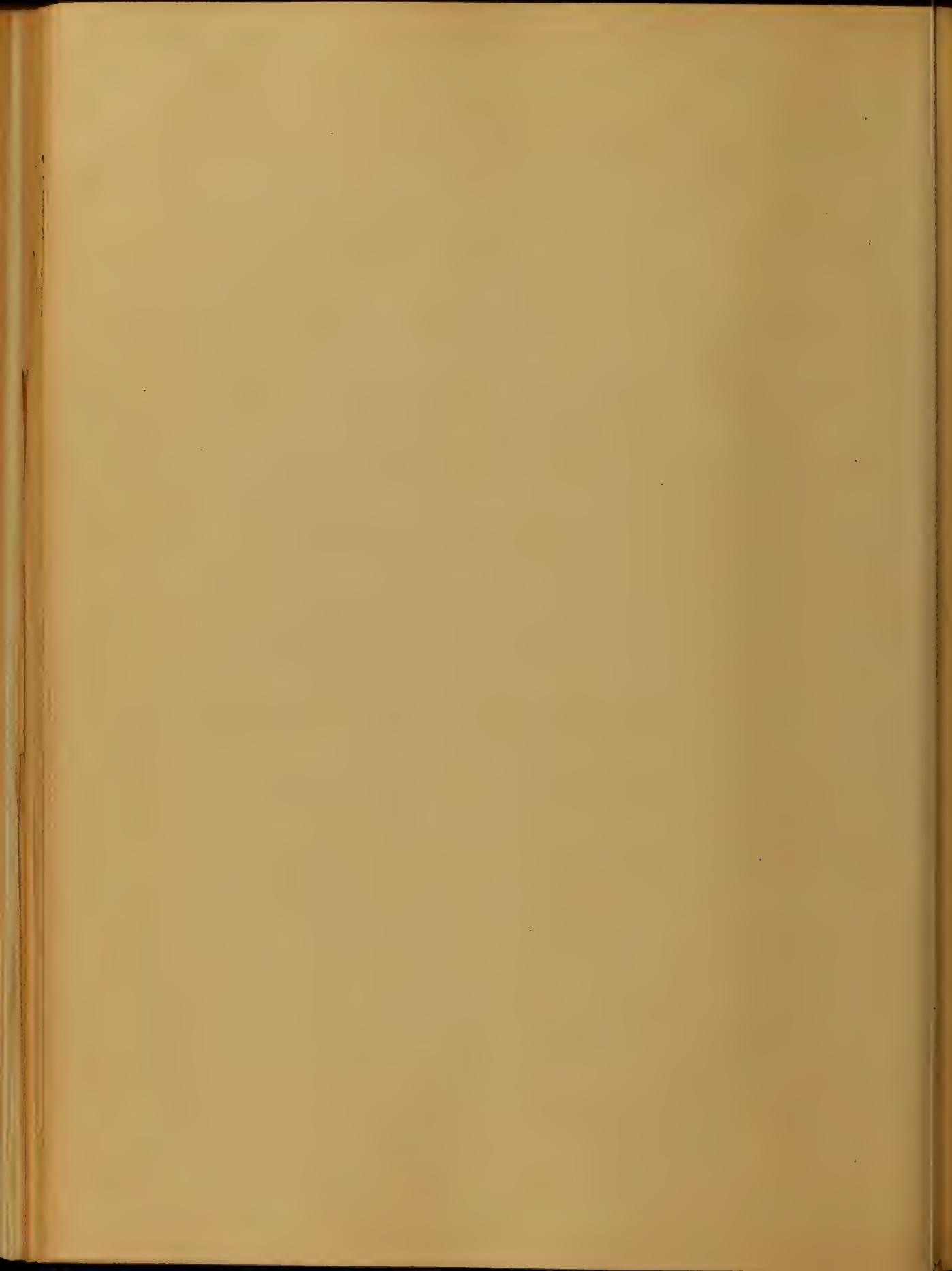
Now it happens that I think,  
or what condition of constitution  
which results in the deposit of  
Tubercle is marked by Character-  
istic Symptoms, and when  
the tendency to tubercular de-  
posit and disintegration is strong-  
ly marked, these Symptoms are  
more pronounced. Among these  
exceptive rapidity and softness of  
the pulse, and unnatural softness  
and dampness of the skin, the  
early occurrence of emaciation,  
and of hectic, with profuse perspi-  
ration, sleeplessness, with entire  
loss of appetite, derangement of



the bowels and diarrhoea; when  
these symptoms are observed co-  
incidently with great prostration,  
hurried breathing and dyspnoea  
on the slightest excitement; the  
probability is not only that  
there is extensive tubercular deposit  
in the lungs, but that the  
constitutional derangement is deep-  
seated and excessive, and that  
the retrograde metamorphosis of  
tissue will continue unchecked,  
and will bring the patient  
rapidly to his grave. On the  
other hand, when the pulse remains  
slow & is but little accelerated

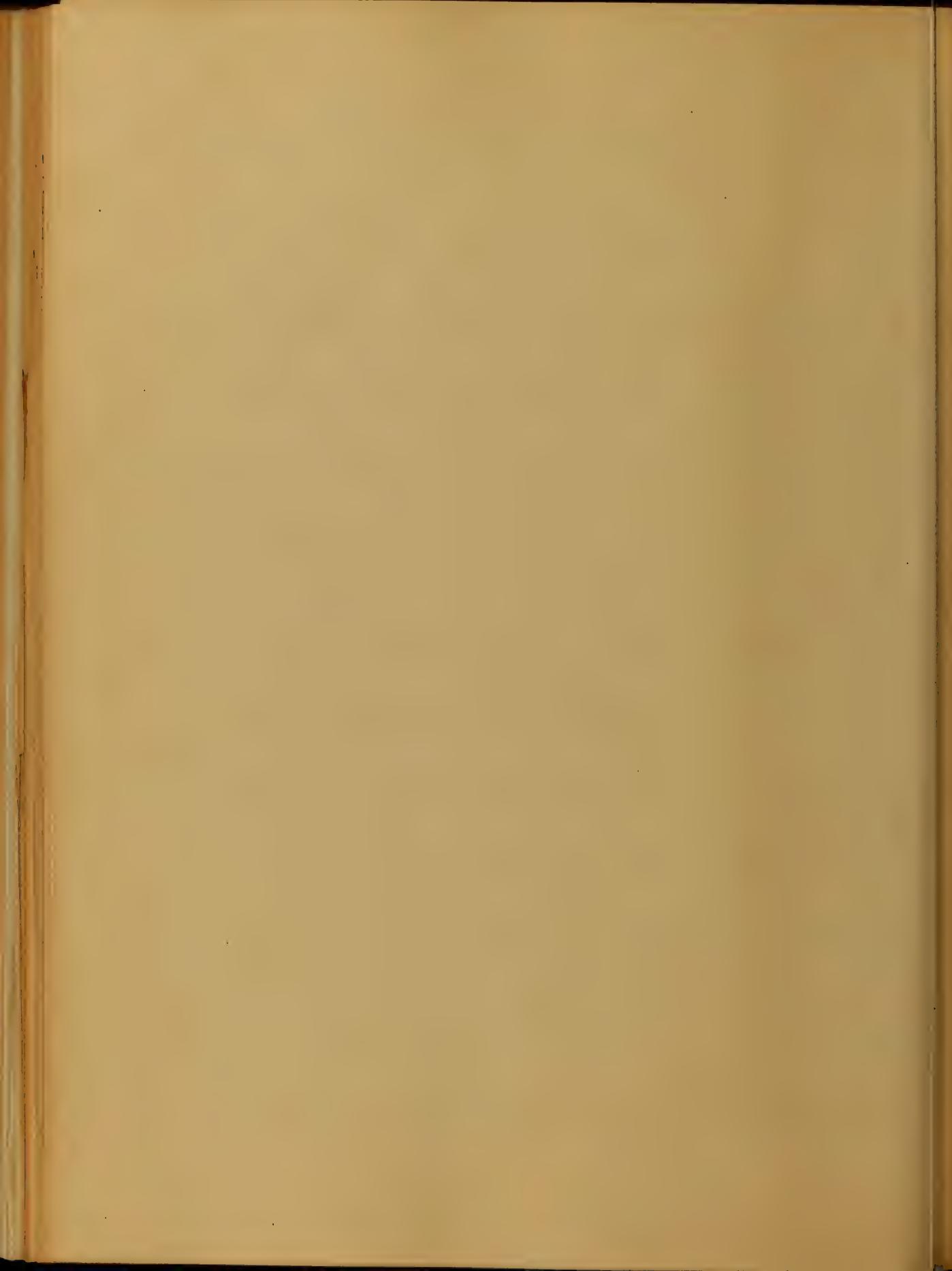


when the skin maintains its normal elasticity, temperature and moisture, when there is little quickening of the pulse-respiration ratio, little tendency to hectic, little perspiration and no diarrhoea, when the appetite remains good and emaciation takes place but slowly — the system is obviously not overwhelmed by the disease, but possesses considerable power of resistance; the progress of the malady, therefore, will be slow, and it is not improbable that, if appropriate treatment be adopted, re-



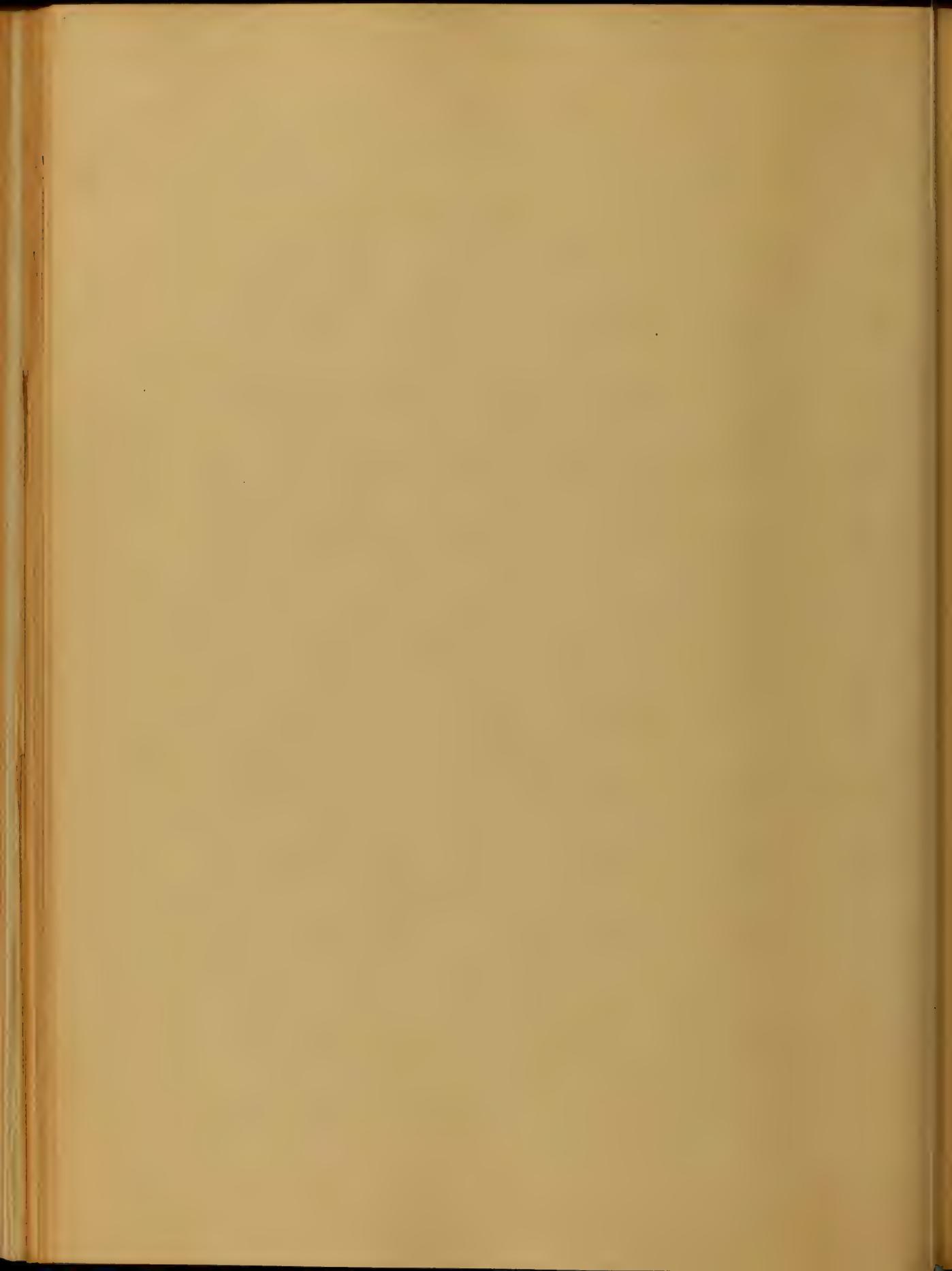
miseries may occur, or the onward course of the disorder may be arrested. In such cases as these, if the patient be placed under favorable hygienic circumstances, the prognosis will be comparatively favorable, and partial, or practically complete, recovery may take place.

In considering the treatment of Ophthalmia there are three distinct questions to occupy the attention; First: how to prevent the occurrence of the disease in persons who seem predisposed to its invasion; secondly:



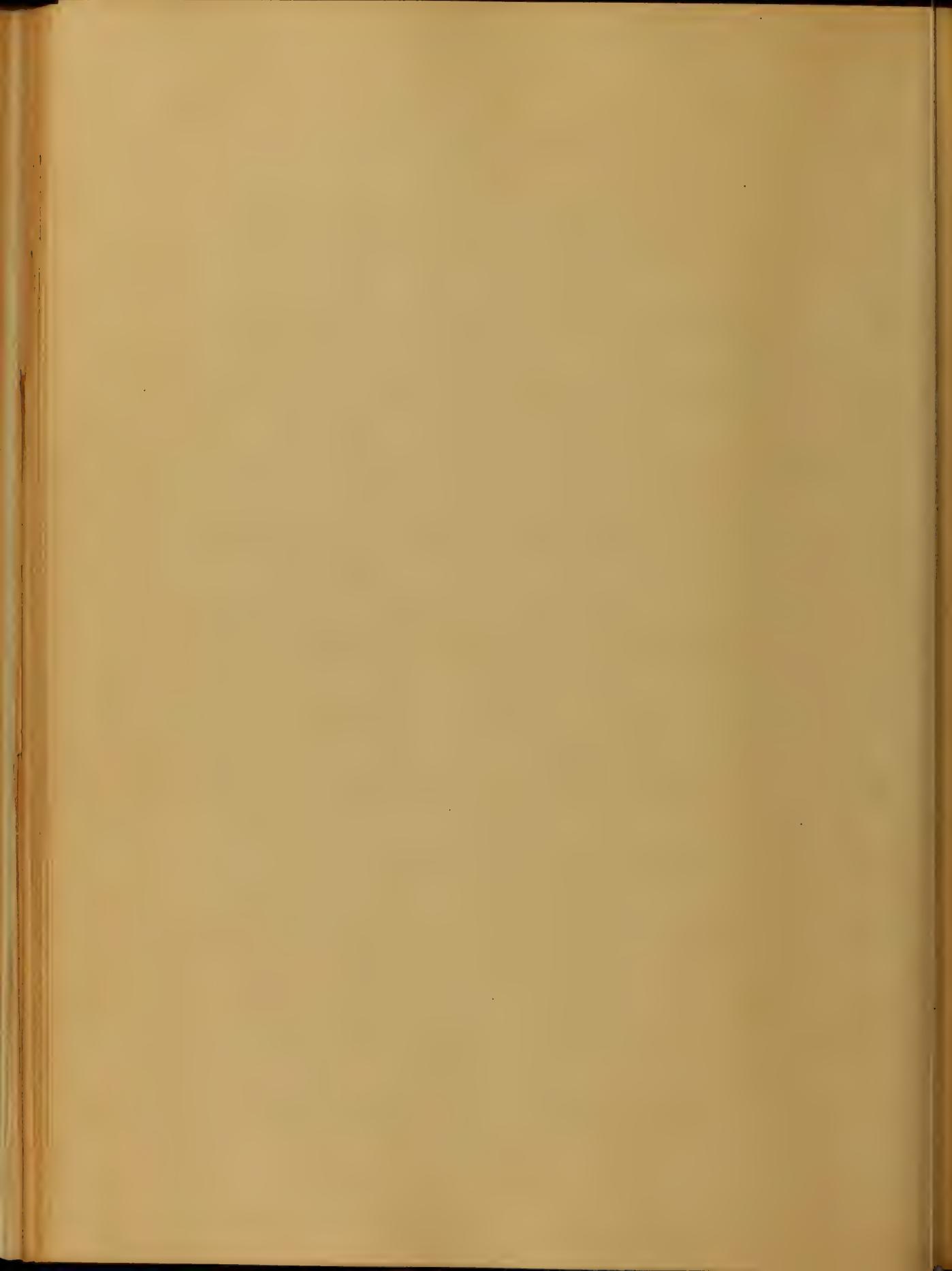
how to arrest its progress while  
as yet the pulmonary mischief  
is limited in extent; Thirdly;  
how to alleviate the patient's  
sufferings, and smooth his pas-  
sage to the grave when it is be-  
yond the power of medical skill  
to avert a fatal issue.

The first question involves  
several points on which medical  
men are frequently consulted,  
and on which much difference  
of opinion exists. Modern  
research has shown that, by  
invigorating the whole system  
and improving the function



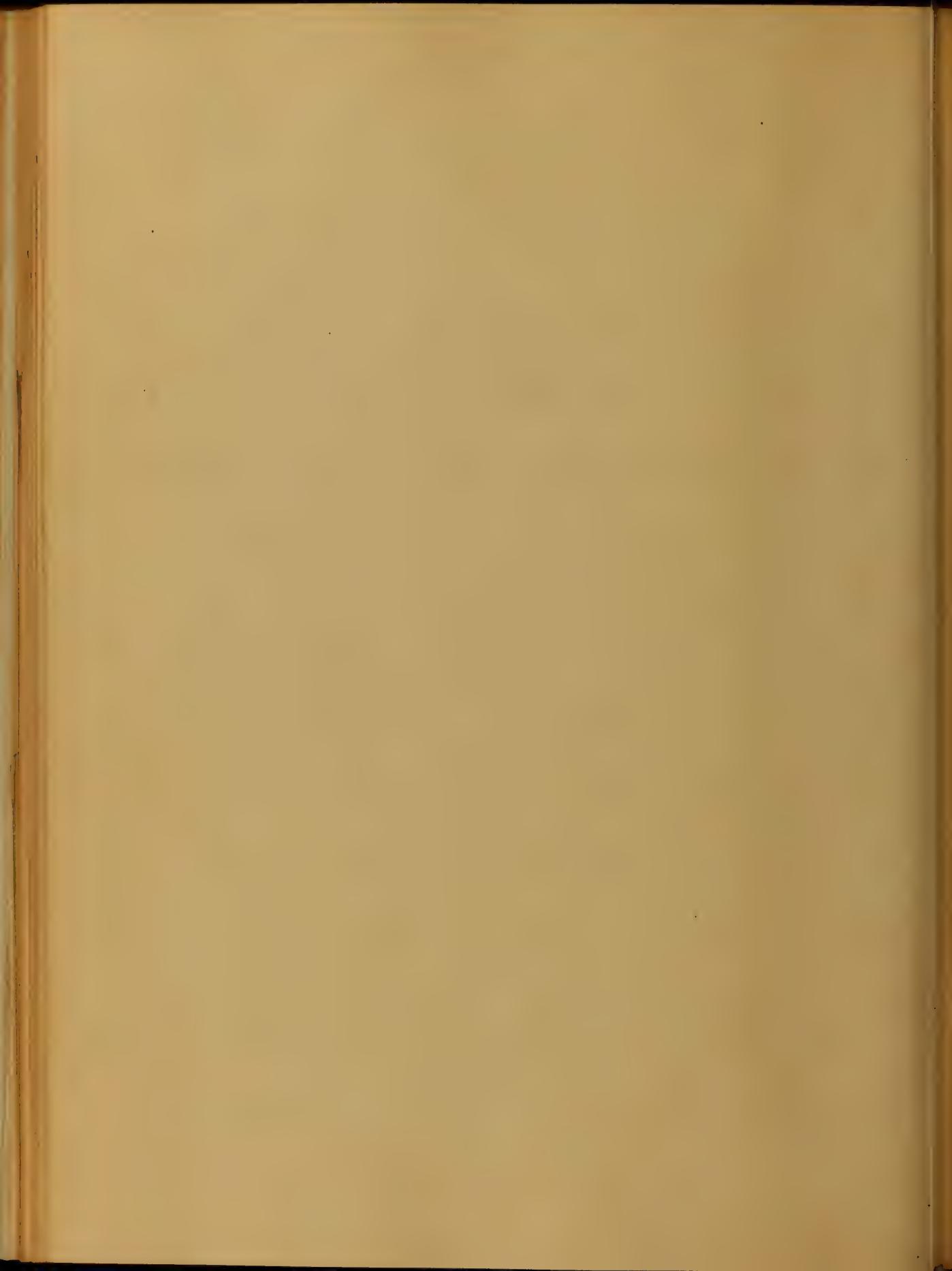
of assimilation and nutrition,  
the tubercular cachexia may  
warded off, the formation of tu-  
bercle prevented and its further  
development arrested. The  
question then arises - How is  
this desirable result to be brought  
about?

There are certain cases in  
which change of air is indispens-  
able. Persons of a chilly nature,  
if resident in a cold and bracing  
locality, must change their sit-  
uations in order to improve their  
health. So, too, must those  
who require bracing, whose lot is



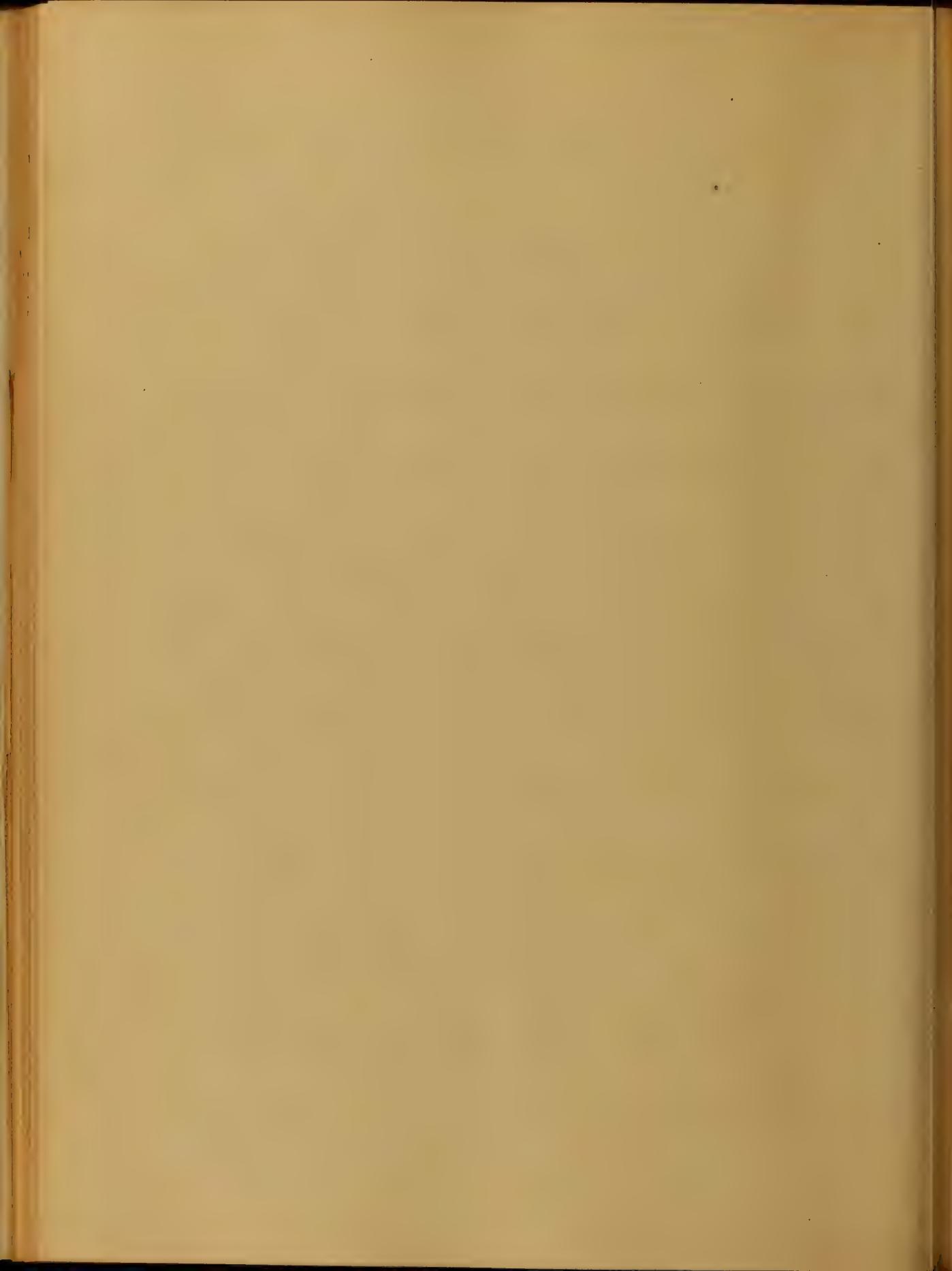
Past in a warm and humid Climate, select a cold, dry and uniform location. These, and all others who happen to be placed under circumstances unfavorable to their general health, will do wisely to migrate at the earliest opportunity; but their migration must not necessarily be to foreign climes. There are many spots in our own Country which afford to the average of consumptive patients all the changes their organs need.

All persons will do well to select as their residence a place

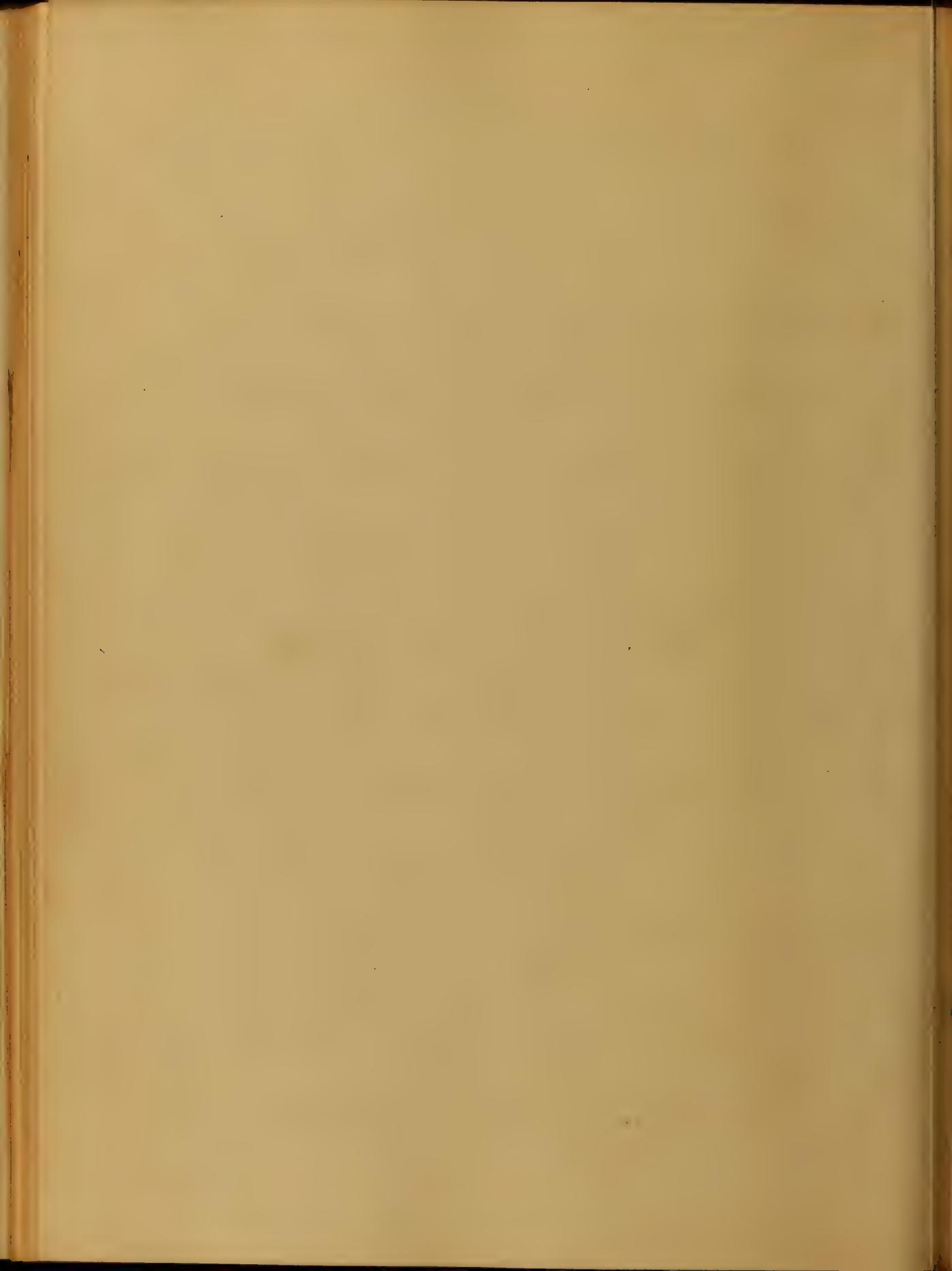


which has ordinarily agreed with them, and if their own houses come within this category, there is no reason why they should leave it for other quarters.

Temporary change of air is useful now and then, by imparting a stimulus which is not to be obtained in any other way; and to persons to whom travelling is a pleasurable excitement, and who, so long as they remain at home, are unable to shake off the cares and anxieties of business, a residence abroad may be almost

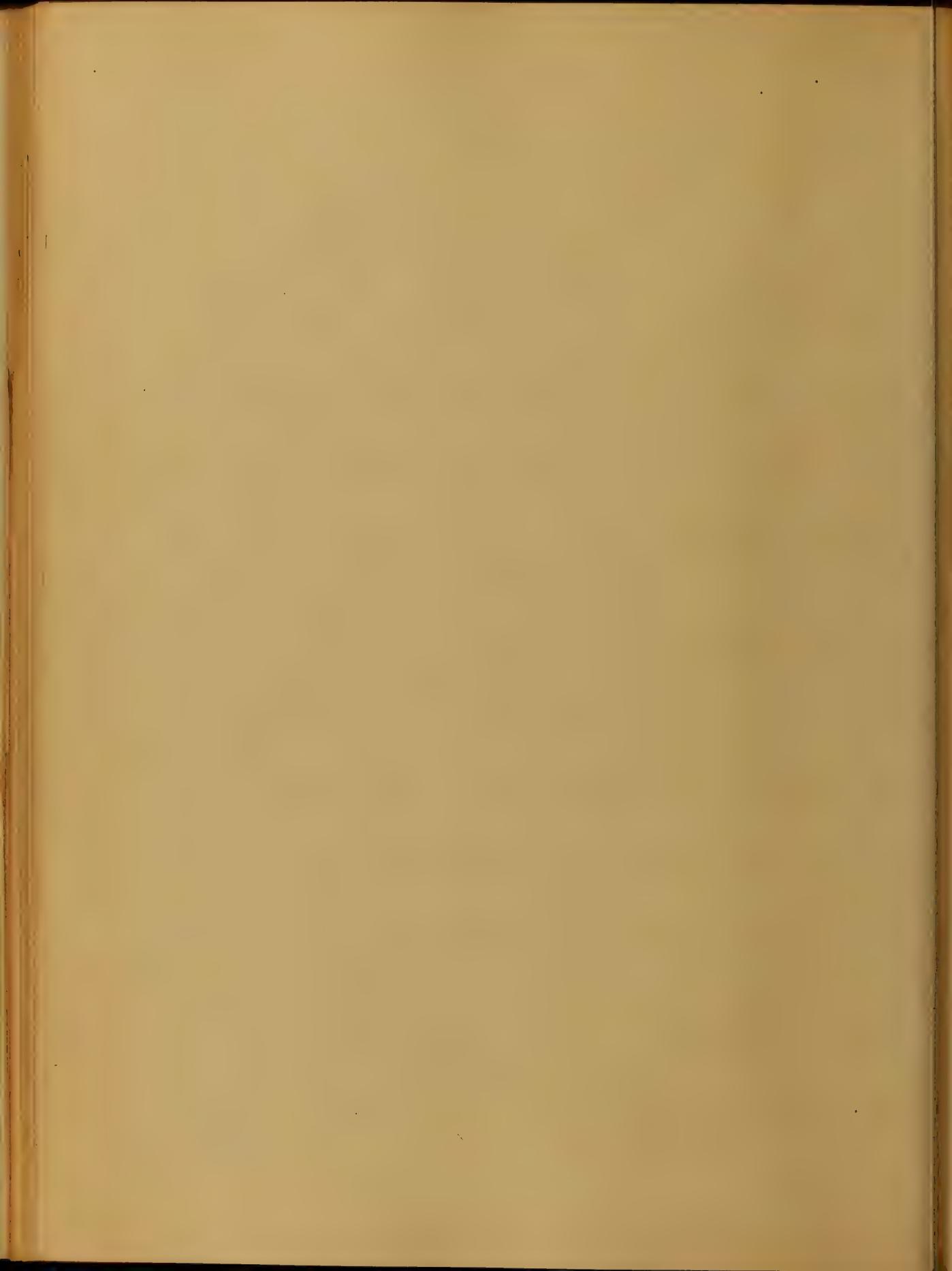


indispensable; but the majority of consumptive invalids will fare better in their own homes and in their own country than in the most favored regions abroad, especially now that the railways afford facilities for frequent change. The absence from home and its comforts and associations is to many invalids a constant source of annoyance, and regrets while the fatigue of a long journey and the privations incident thereto are bearing upon an already impaired vital



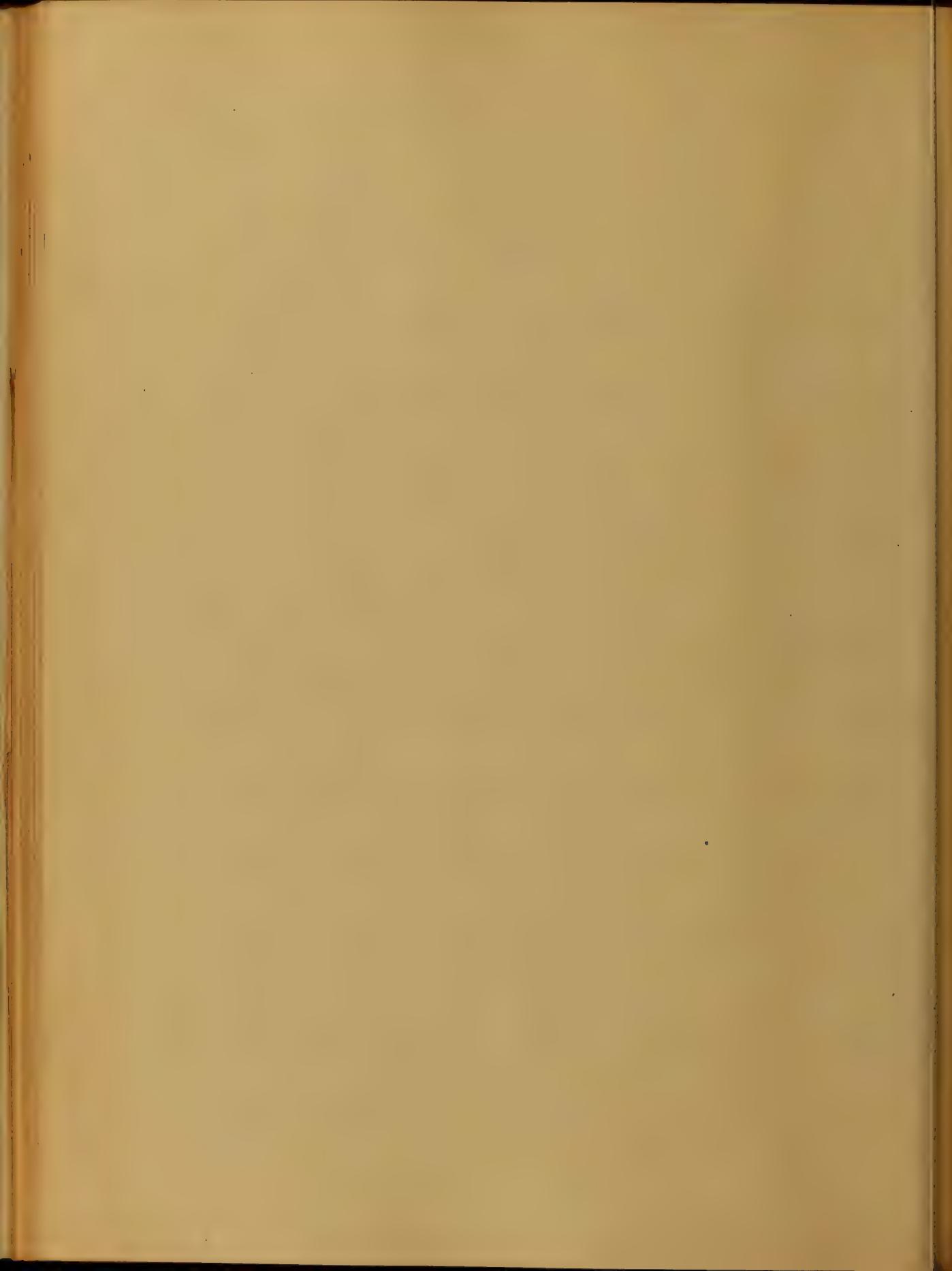
ity, go far toward neutralizing  
any good effect that might be  
otherwise produced. Therefore,  
with this as with other remedies,  
its efficacy will depend upon  
the judgment with which it  
is employed.

As a preventive of the  
disease, or as a corrective of that  
derangement of the health which  
marks its earlier invasions, a resi-  
dence abroad, or foreign travel,  
with the pleasurable excitement  
incident thereto may, for many  
persons, though not for all, be  
regarded as one of our most fa-



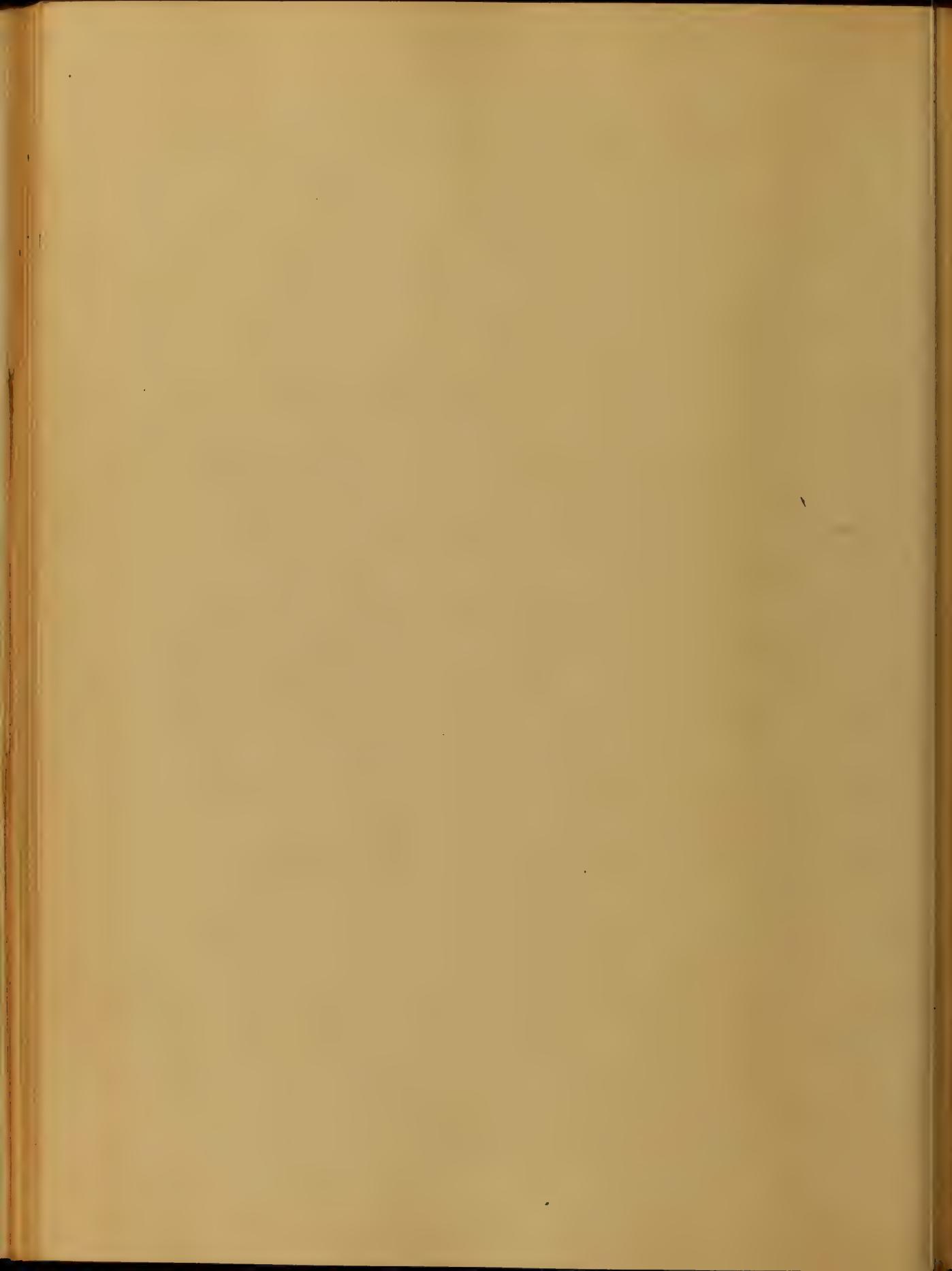
tent and valuable remedies.

During the summer the patient should spend almost the entire day out of doors, walking, riding on horseback, driving, travelling, yachting, or simply sitting in the open air, and even in the winter, provided the weather be fine, he should avail himself of the warmer hours in the middle of the day. To take whatever exercise out of doors his strength will permit. It is essential that his clothing be regulated to meet his necessities under the



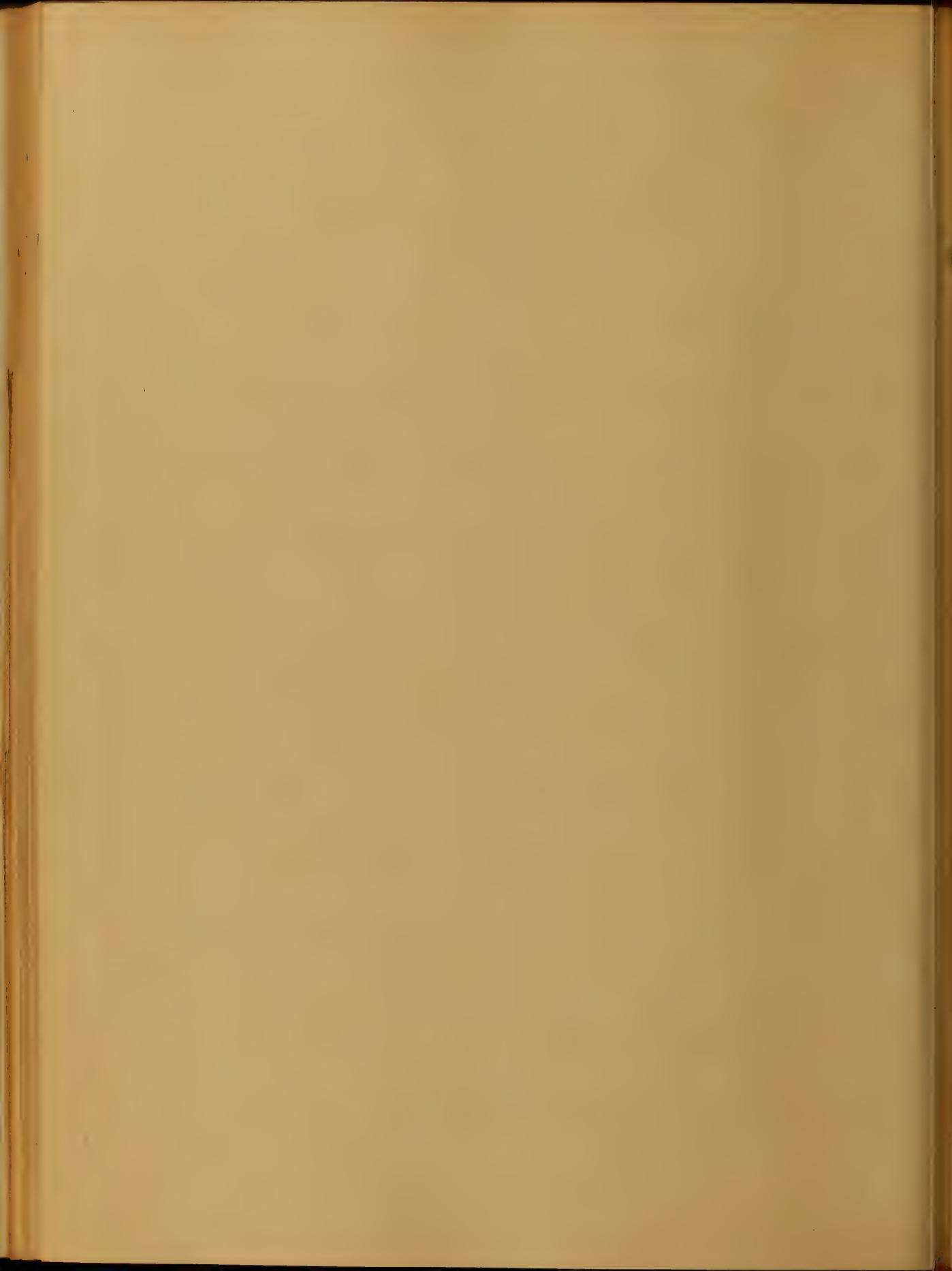
various circumstances in which  
he may be placed. Flannel  
should always be worn next to  
the skin.

Diet is a subject of  
equal importance with those I  
have hitherto discussed. Fresh  
air, exercise, change of climate  
and judicious clothing are all  
subsidiary to our one object of  
restoring or reestablishing the  
healthy nutrition. Our prin-  
cipal efforts should be direct-  
ed to the digestive and assimili-  
ating organs, rather than to  
the organs of respiration.

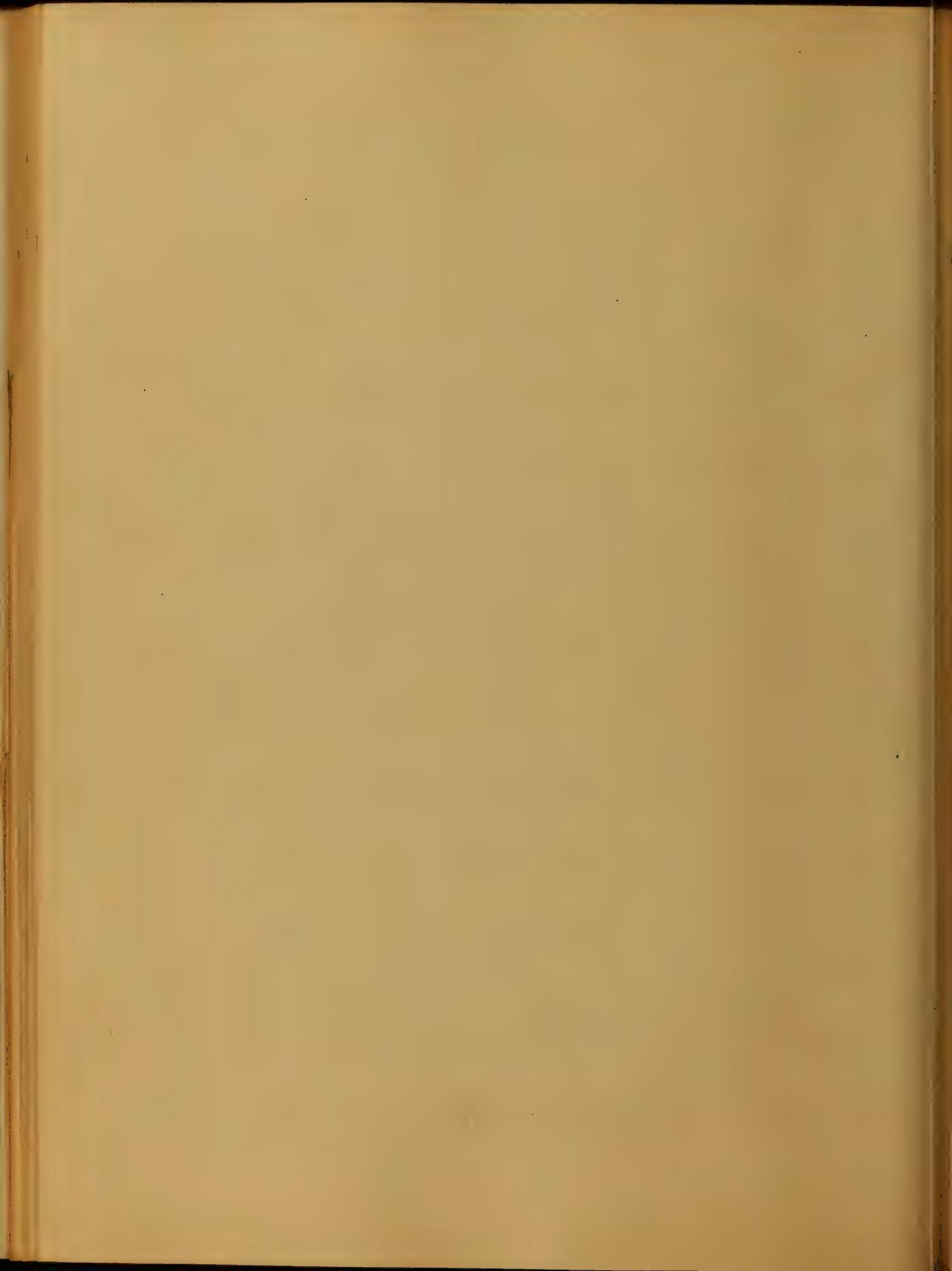


It happens commonly that dyspepsia is one of the most frequent early symptoms of Tuberculosis, and that during its existence the appetite is very capricious, and fatty morsels are generally disliked and therefore avoided.

Some modern observer has stated that a certain amount of fat is essential to the due performance of the digestive process, and that oily matter plays an important part in the healthy metamorphosis of the albuminous constituents of the blood, and in promoting cell-development.



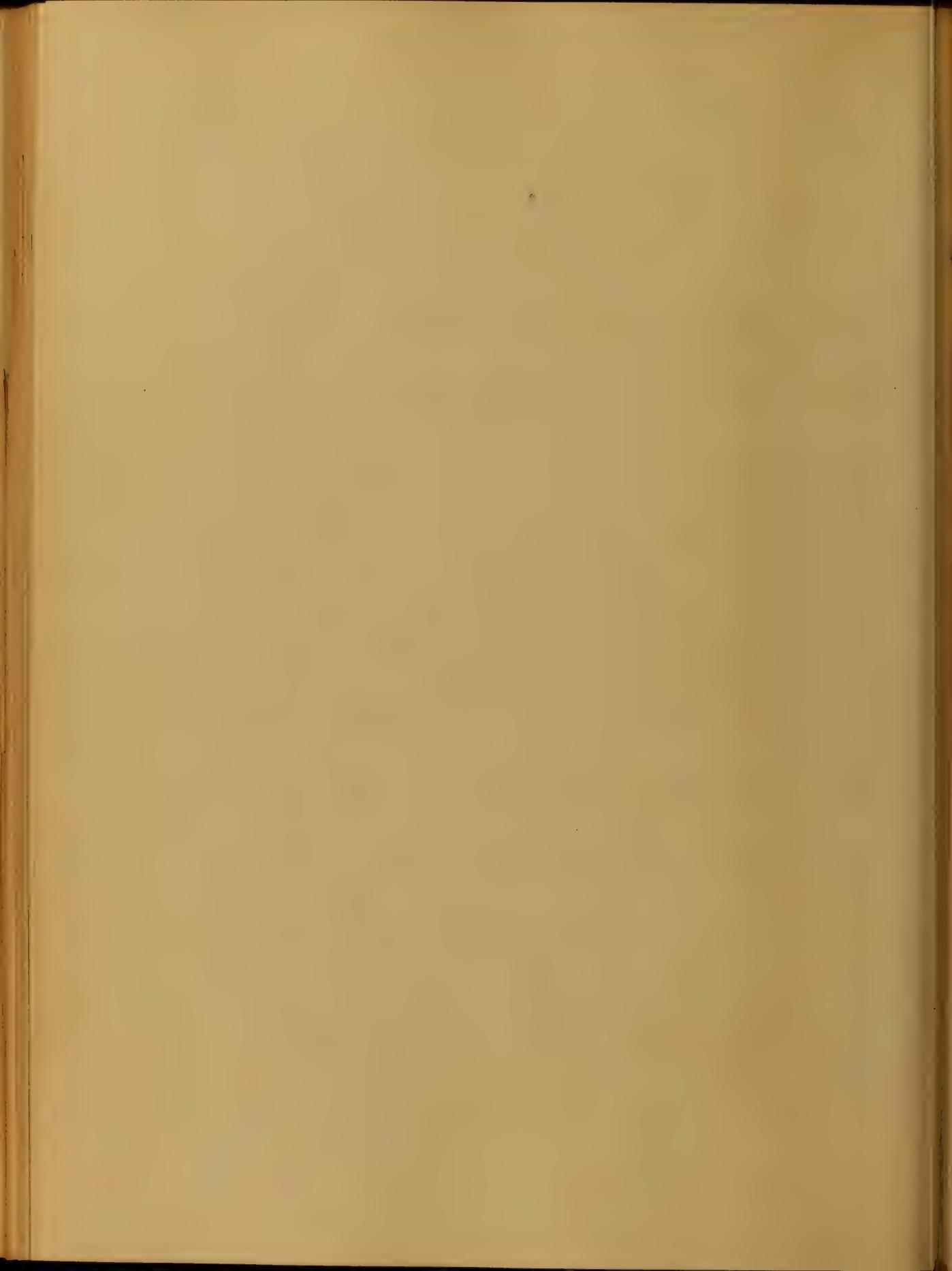
This is sufficiently intelligible, and by the light of the valuable researches of Dr. Hughes Bennett in relation to Food & Liver Disease and other oleaginous and fatty matter in their action in the system, it is hard to doubt its importance in a Therapeutic point of view. If then, it be admitted that the assimilation of animal and fatty matter is essential, our main efforts must be directed, on the one hand, to the avoidance of those articles of diet which are likely to prove indigestible and erratic



or increase acidity of the Stomach, whereby the assimilation of fatty matter is rendered difficult; and on the other hand to supply food containing albuminous and oleaginous principles in a form in which the weak and disordered Stomach is able to assimilate and duly prepare them for the nutrition of the body. The most carefully regulated hygienic and therapeutic management will fail if the diet is insufficient in quantity, or deficient in quality. It may be said that



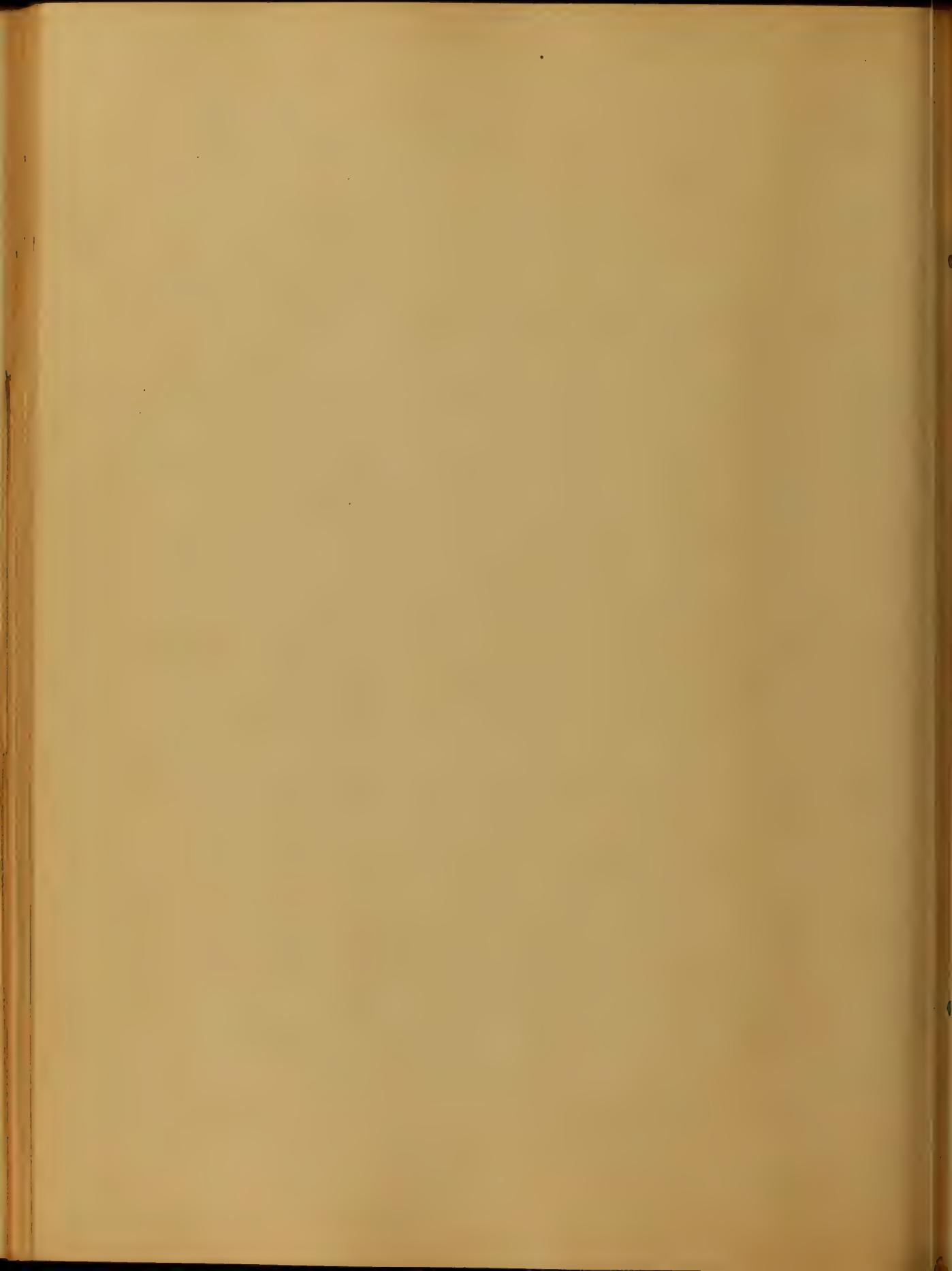
The diet suitable for Consumption patients must necessarily vary according to their individual peculiarities. The food which is suitable at one period of the disorder may be quite unfit at another. The stomach may at one time, prove able to digest only the lightest and most easily manageable diet, and at another may have acquired greatly increased tone; so that it is necessary to consult our patient's feelings and constitutional peculiarities from time to time in determining



The question of diet, and individual idiosyncrasies must be carefully sought out and studied if we wish to prescribe food likely to be properly assimilated.

Here we reach the consideration of Cod-liver Oil, which may be regarded partly as an article of diet ~~and~~ partly as a medicinal agent.

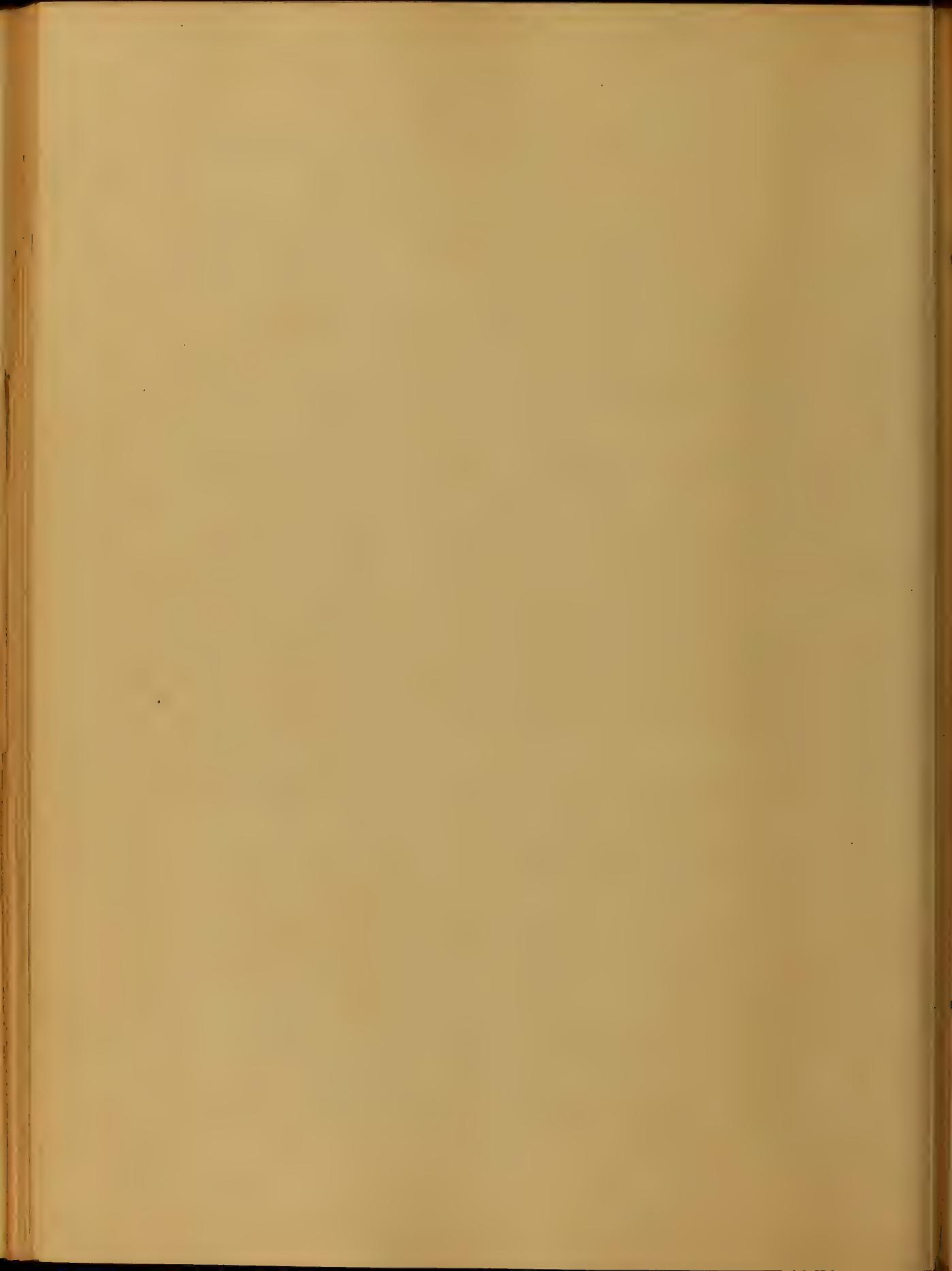
To whichever of its constituents its efficacy may be due there can be no doubt that it is, beyond all others, the remedy on which most reliance



can be placed.

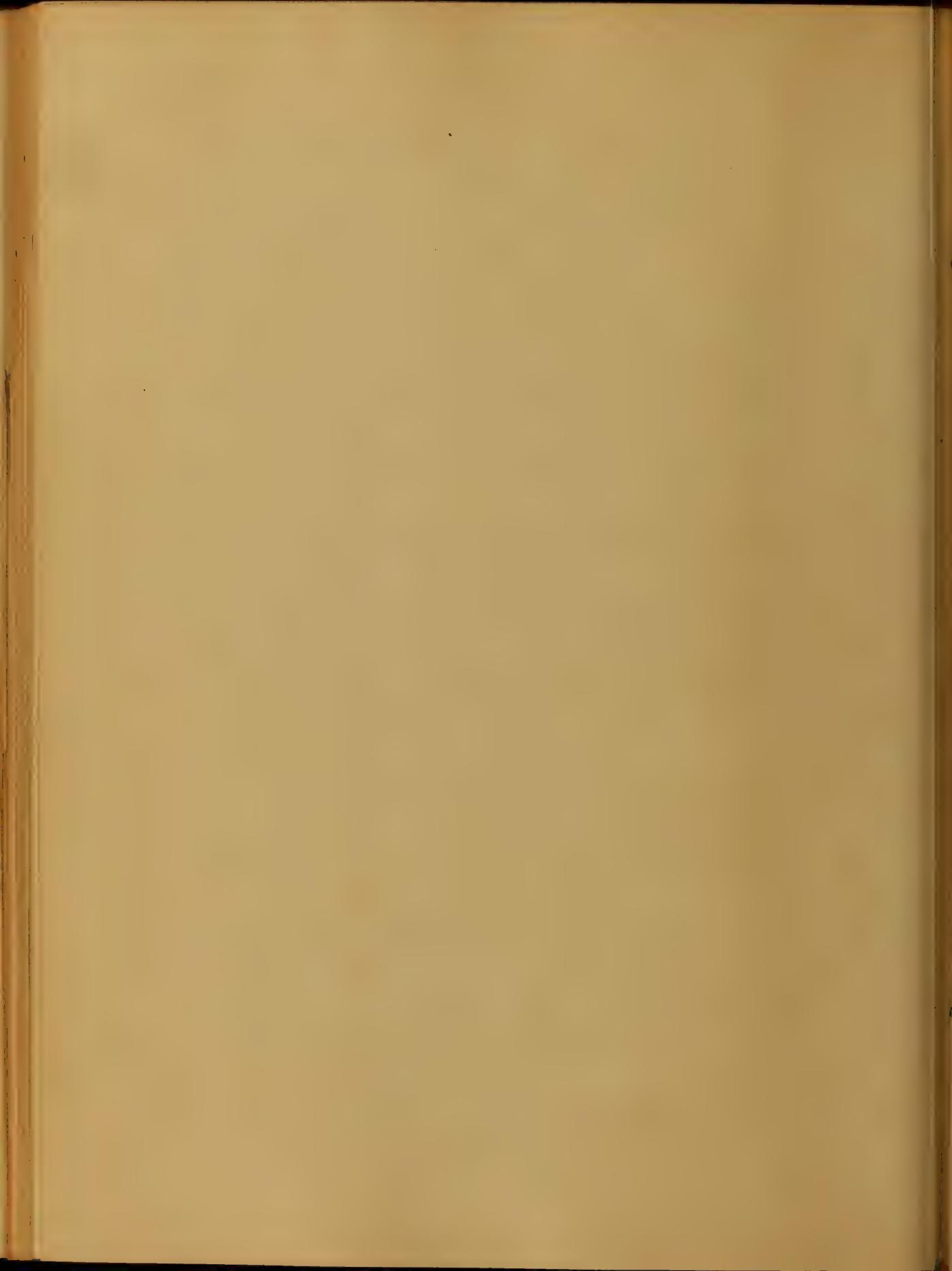
We are indebted to Dr. Hughes Bennett for our earliest knowledge of its remarkable powers in the treatment of tuberculous disorders. Chemistry has hitherto failed to explain its action, but clinical experience leaves not the slightest doubt as to its beneficial influence.

Of course, its virtues are most strikingly displayed in the earlier stages of the disorder, and in cases where there is not a strong-inherited predisposition to tubercular disease, but

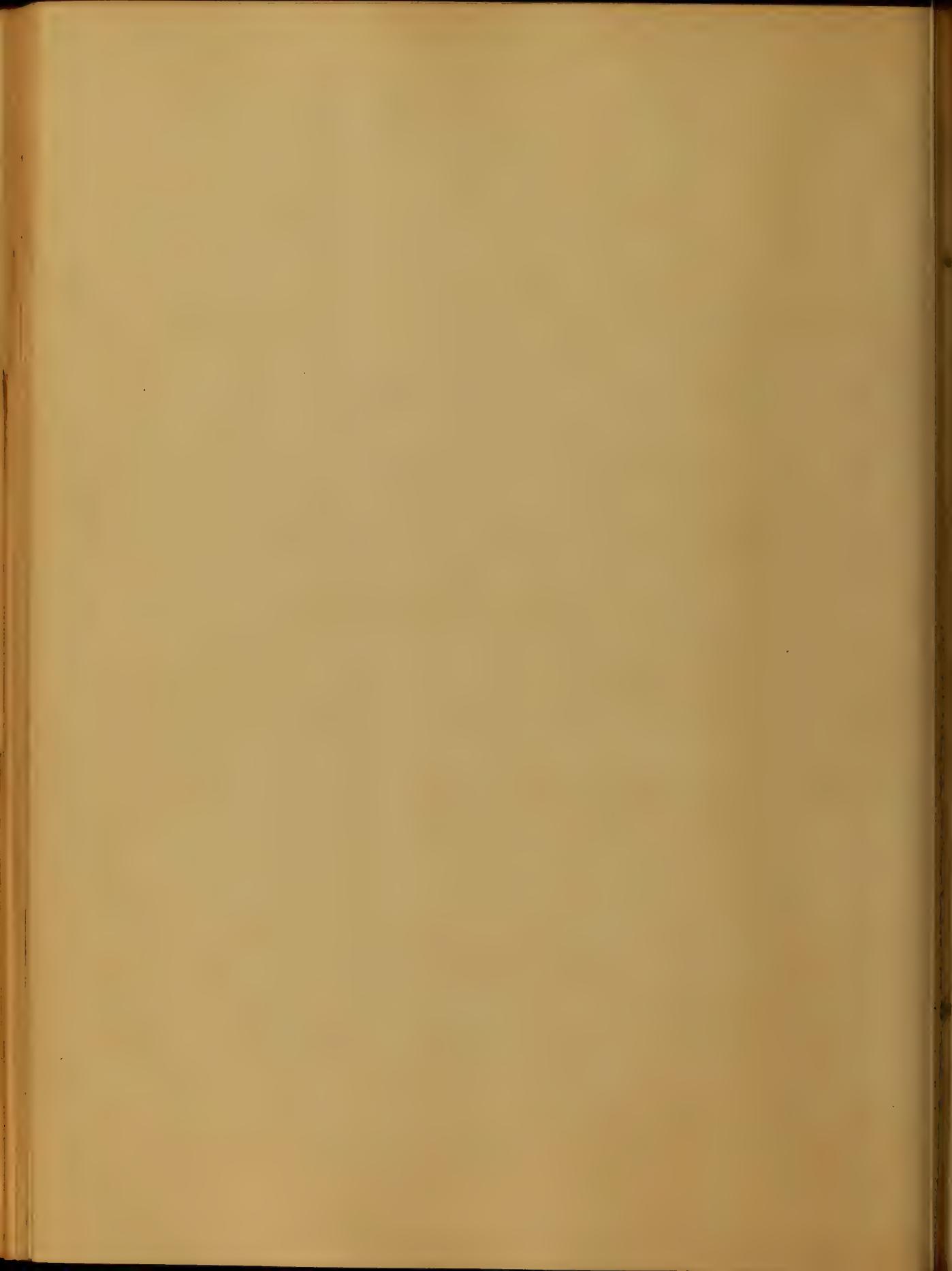


This simply means that where there is but little mischief to overcome the Oil has left difficulty in subduing it than where the trouble is disseminated and extensive, or in an advanced stage, speaking generally, it may be stated that it proves serviceable at all stages of the patient and in all stages of the disease provided that the Stomach will retain and digest it, and it becomes duly assimilated.

There are other remedies which may be used



with advantage in certain con-  
ditions and under certain cir-  
cumstances, such, for instance,  
as the Alkalies, and their salts  
especially the Hydrates of  
Lime, Soda and Potassa; The  
Tr. Ferri Chloride; Gypsum. Lime  
(Virginia); The Phalybeates gene-  
rally; Pinchona; Quinia. Strych-  
nia and an extensive list of  
other remedies.



AN  
Inaugural Dissertation

ON  
*Typhoid Fever*

Submitted to the Examination

OF THE

Provost, Regents and Faculty

OF

**PHYSIC,**

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

DOCTOR OF MEDICINE,

By

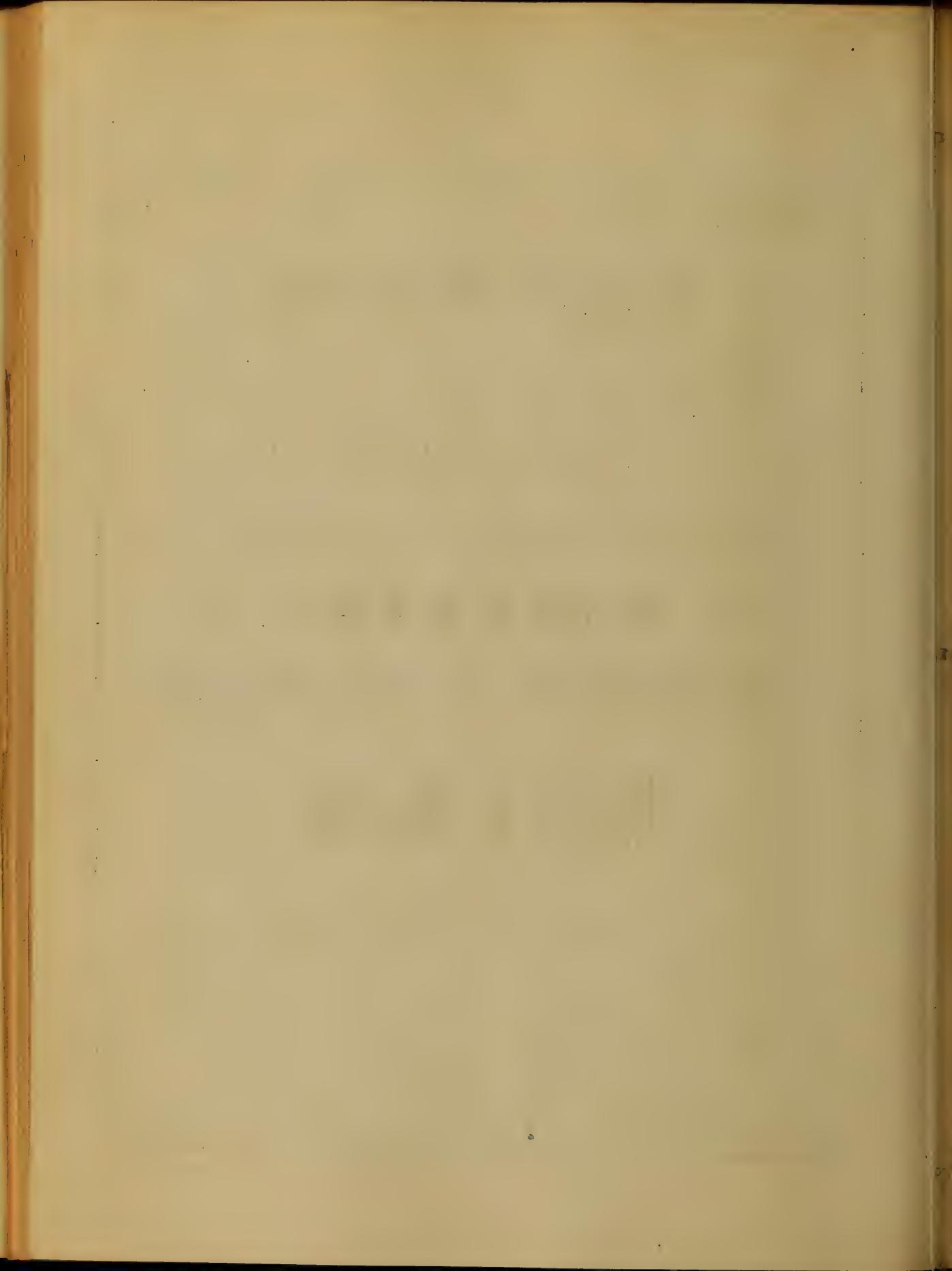
James K. Chapman

of

Louisburg

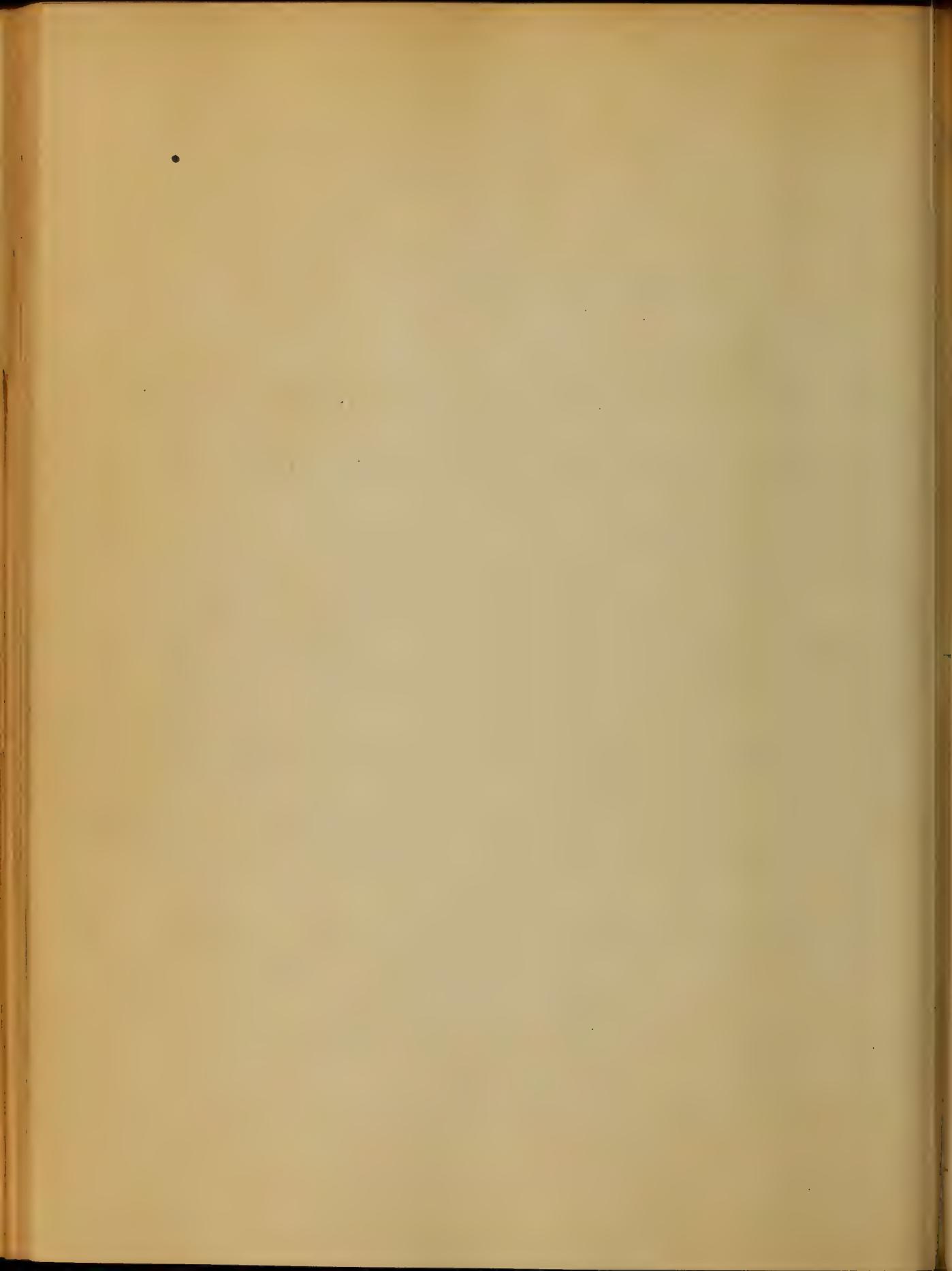
Senior of

1868 & 1869.

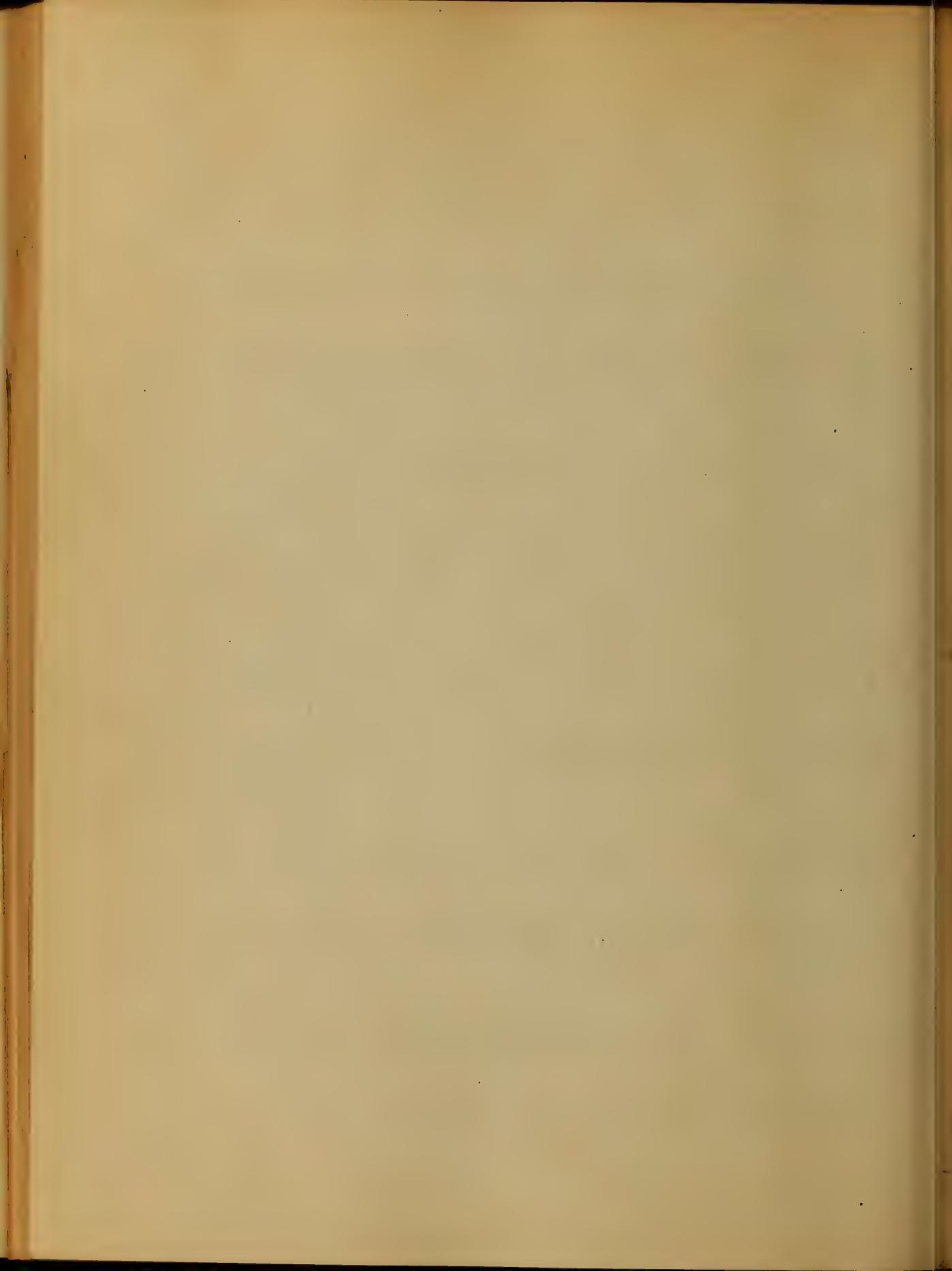


## Syphilitic Fever.

This is essentially an abdominal affection, dependent upon, or connected with an inflamed or ulcerated condition of the mucous follicles or glands of Peyer, and is perhaps one of the most interesting among the syphilitic diseases. As a disease, it knows no bounds; being confined neither to land nor sea, place nor person. Some localities seem to be peculiarly inviting, from the fact, that we see certain regions of Country regularly visited by this dire calamity. Facts are gathered at the bedside of the king and queen.



The rich and poor; the inhabitants of the stately mansion, and the lowly huk; the hoary headed, and the sprightly youth, are all subject to this disease; and afford extensive opportunities for a thorough understanding of its symptoms and course; which is necessary before we can treat the malady successfully. A vast amount of learning has been expended upon the nomenclature of this disease; we no doubt owe to Louis much of our knowledge as regards anatomical lesions. Some have considered his researches of great value, others think them objectionable. Yet, since it has become so common among all classes, and looked upon as a grave disease, one in which may both hope and fear. Let us as students improve ourselves by imitating the examples set before



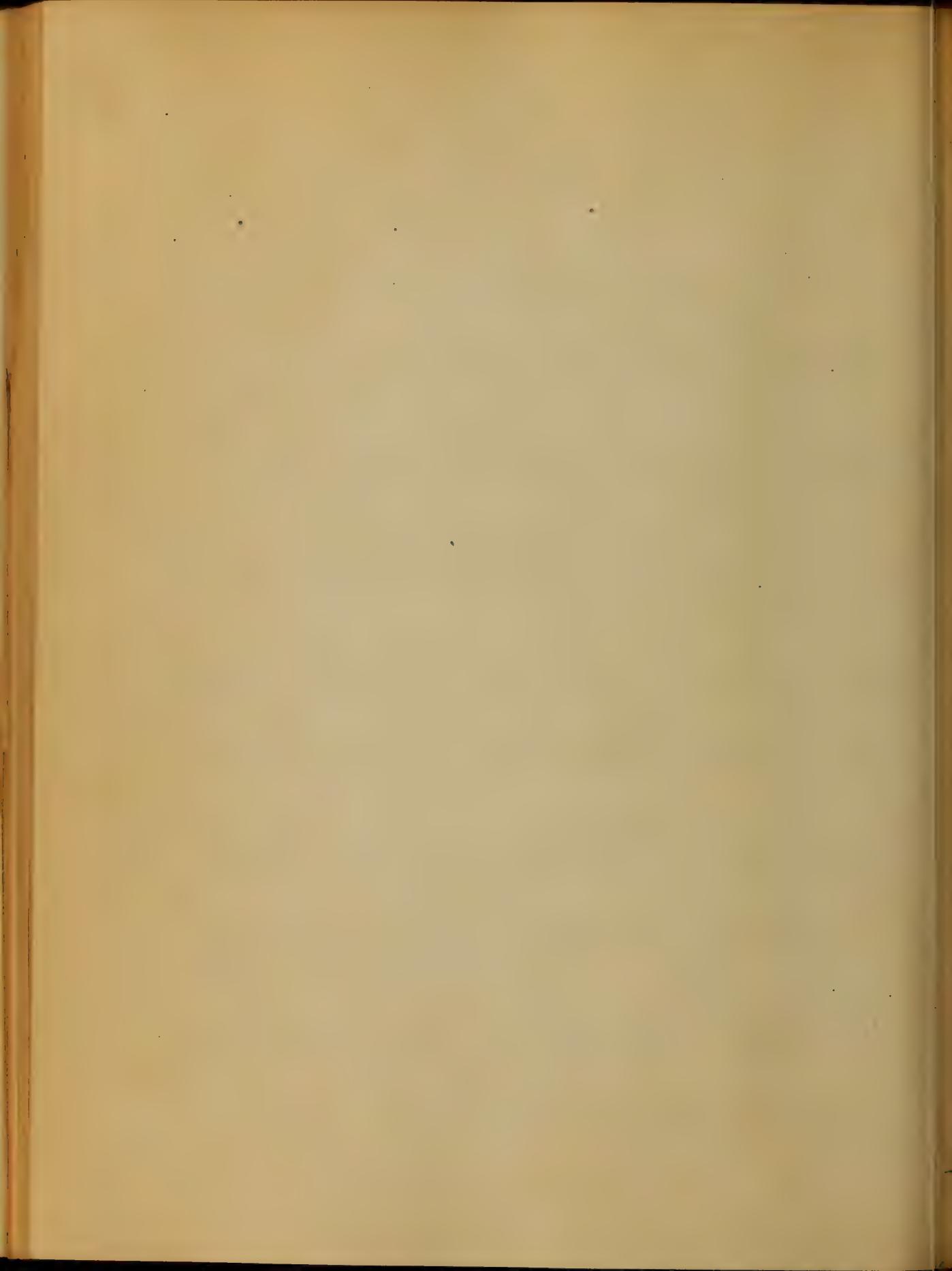
us by our worthy professors. The disease will probably continue to be called Typhloid Fever; let it be such, or Enteric Fever - we must without preference, or choice of names endeavor to be able to recognize it in all its forms, which are classed as follows:

First, Simple or Mild.

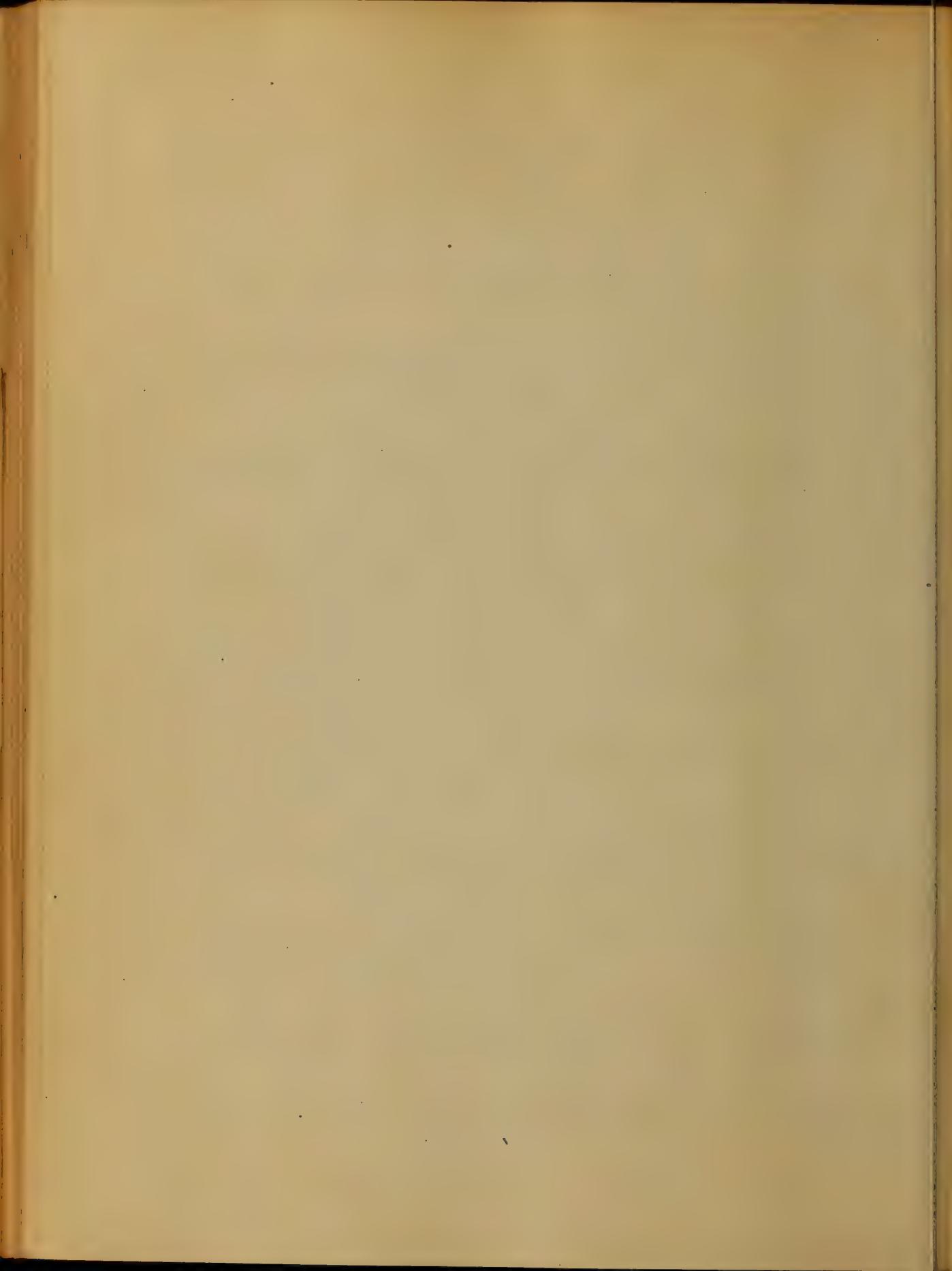
Second, The Intermediate.

Third, The Malignant.

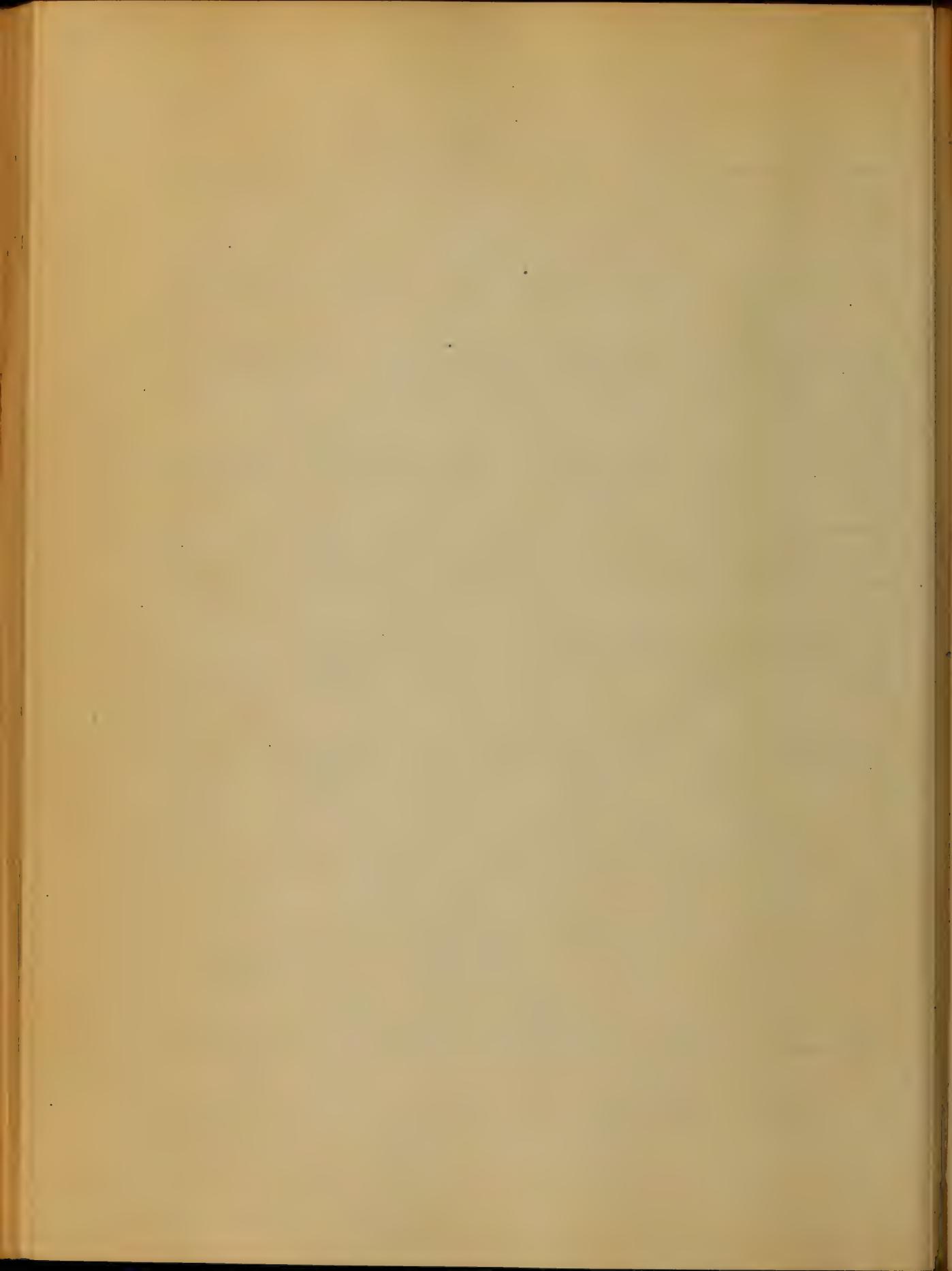
We find it difficult to draw a line of separation between the several forms just mentioned, so very gradual is the transition from one into the other, that the change is scarcely perceptible. The recognition of this affection may be attended with but little difficulty in a majority of cases, though, its accession is various.



Symptoms - These are also very diverse, but, we shall confine ourselves to a statement of the general signs without dealing in specialties. The onset in some cases is sudden, without any premonition whatever; in others, there is a period of incubation, varying from ten to fourteen days. The disorder comes on slowly and insidiously with languor, in a day or two, the patient is often attacked with chills and headache, which fever is a very common symptom. Head, pain in the limbs, weakness with tendency to diarrhoea, - face languid, and pale - the appetite is generally greatly impaired - the pulse rises to 120 per minute, and even higher - breath offensive, tongue dry and brown, or red and glazed. The symptoms of special diagnostic

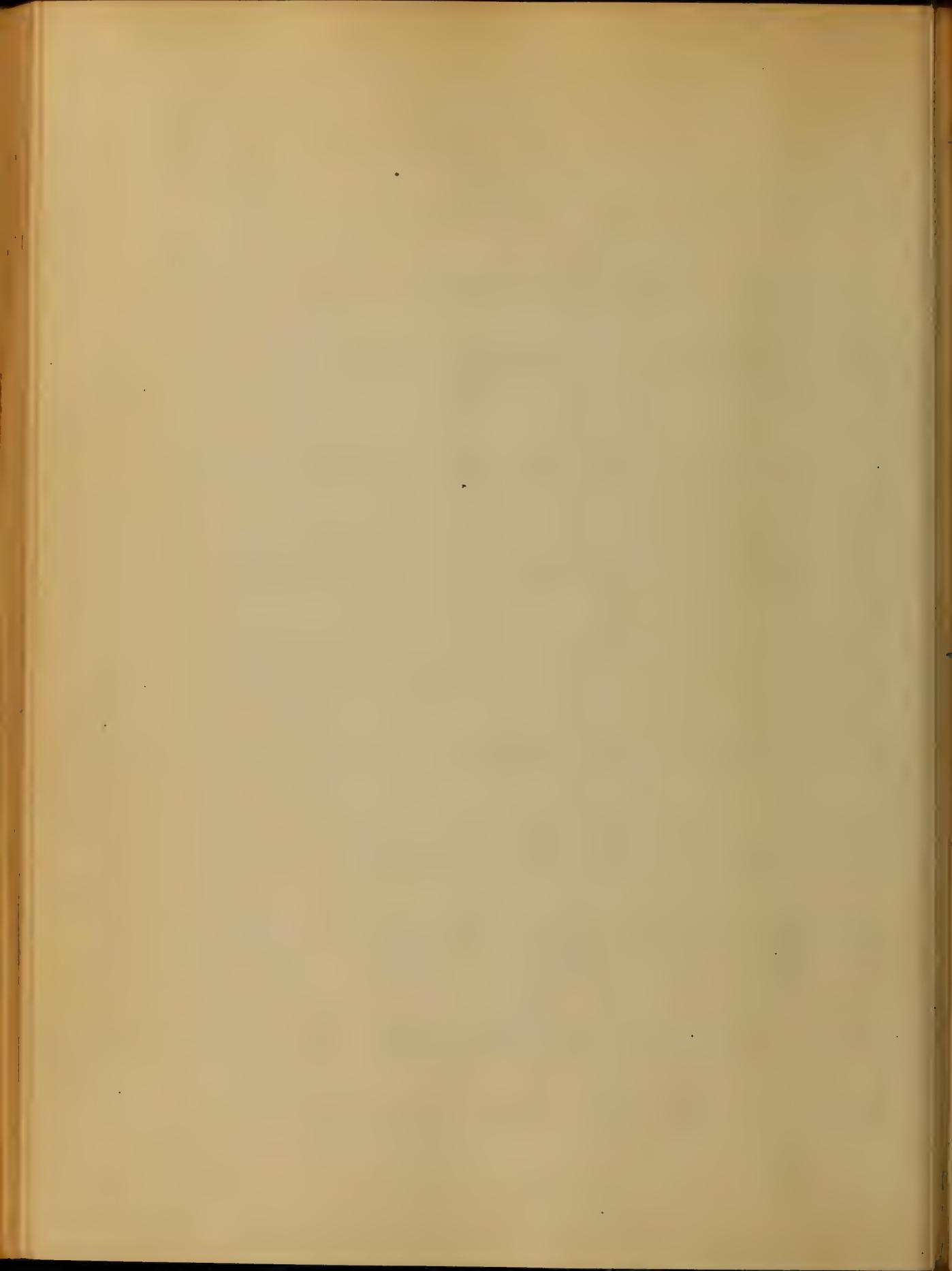


importance are looseness of the bowels and epistaxis, at the commencement of the second week, or a day or two earlier. The typhoid rash is one of the most characteristic symptoms of Typhoid fever. This consists of small rose colored lenticular spots, (maculæ rosæ), usually roundish, and about a line in diameter, though sometimes larger. These disappear on pressure, but return upon the removal thereof. They are never seen at the commencement of the disease, but usually make their appearance between the seventh and fifteenth days, not infrequently later, and sometimes not until near the close. They occur first, and most numerous on the abdomen, extending to the breast and occasionally to the extremities, and even to the



back and face, though rare at the pointe  
lash mentioned. I have seen them plainly  
developed on the upper and inner portion  
of the thighs on a patient whom my pre-  
ceptor was attending. Their number is not  
by any means the same, for we find some-  
times only two or three, and then again we  
find them almost countless. The period of  
the eruption is from three to fifteen days.

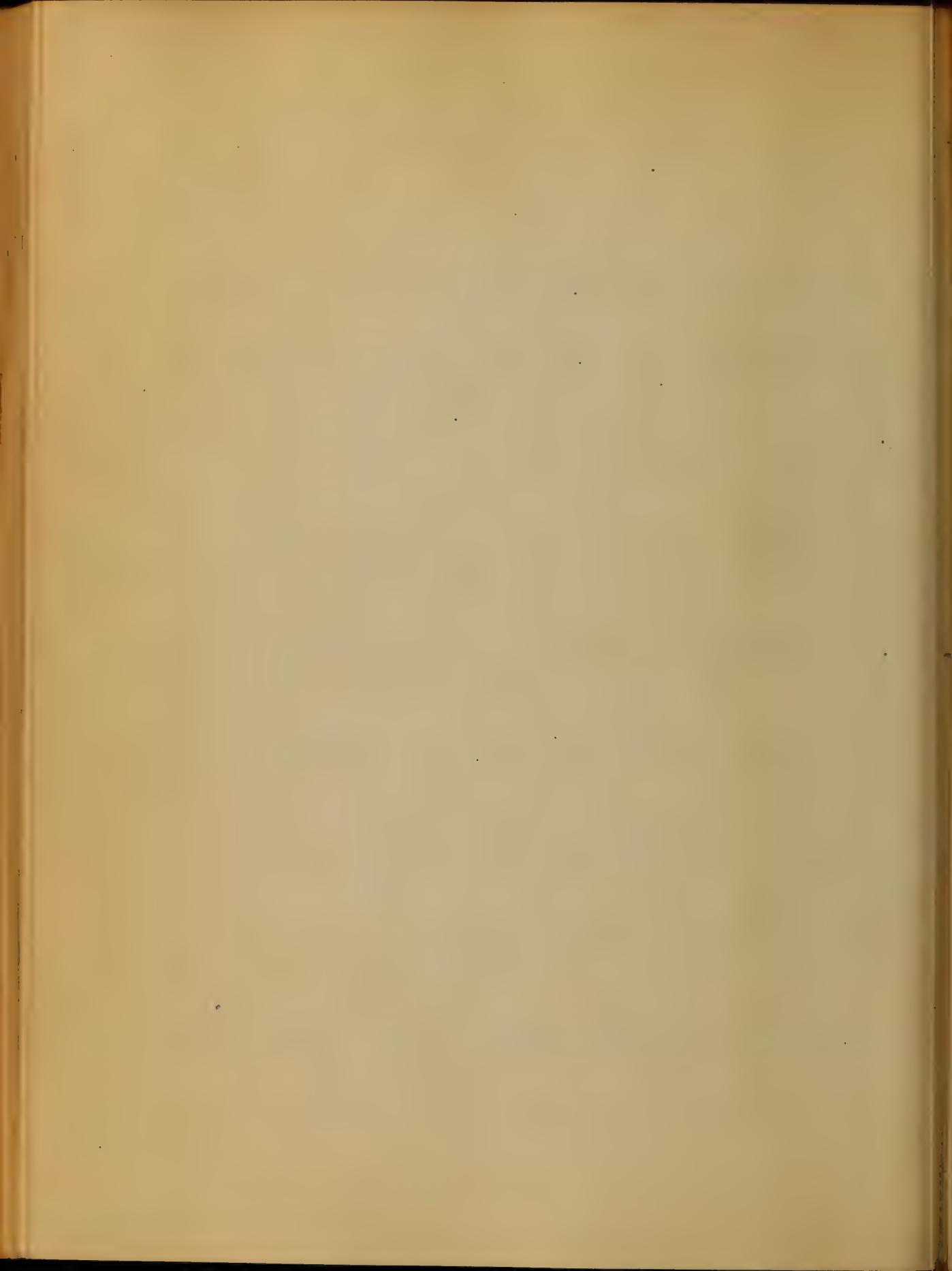
Delirium - this is not a constant symptom  
of the simple or mild form, though its oc-  
currence on waking from sleep on during  
the night is not at all uncommon - I  
but leave to mention before leaving the subject  
this fact - that in several cases witnessed  
by me during the summer the mind always  
acted correctly when down to a particular



person on subject.

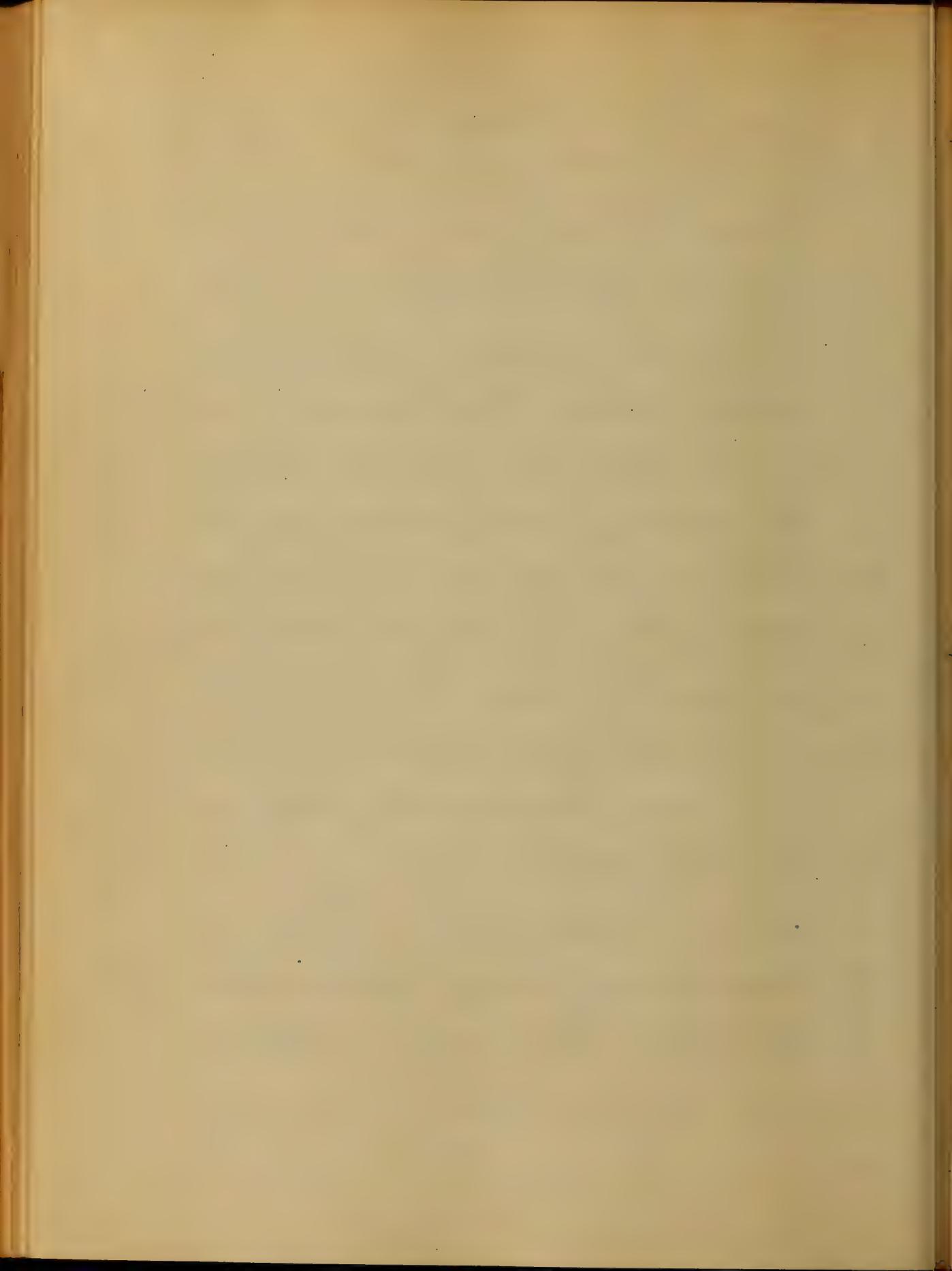
Symptomes - This is a swelling of the belly, which comes on towards the end of the first week, and continues until the beginning of Convalescence, or the termination of the disease in death.

Tenderness on pressure in the right iliac region, with purpling under the hand, generally exist.  
Anatomical lesions - as regards this from my own observation, a description can not be given. The parts characteristically affected in Typhoid fever are the aximinated glands on patches of Feyen, the mesentrie glands and the spleen. Observers have shown that the glands of Feyen become thickened, red and elevated from one to three times above the membrane around them. After this



a sort of induration or softening occurs.  
Later ulceration may affect many though  
not all of the altered glands, and this  
process may go on until it perforates all  
the coats of intestines. This however is excep-  
tional. The other glands of the intestines  
(i.e. the solitary closed glands and the  
mesenteric glands) are commonly enlarged  
and often softened on ulcerated, occasionally  
suppurating. The spleen in almost all  
cases is more or less enlarged and soft-  
ened; in some instances it is four or  
five times its normal size.

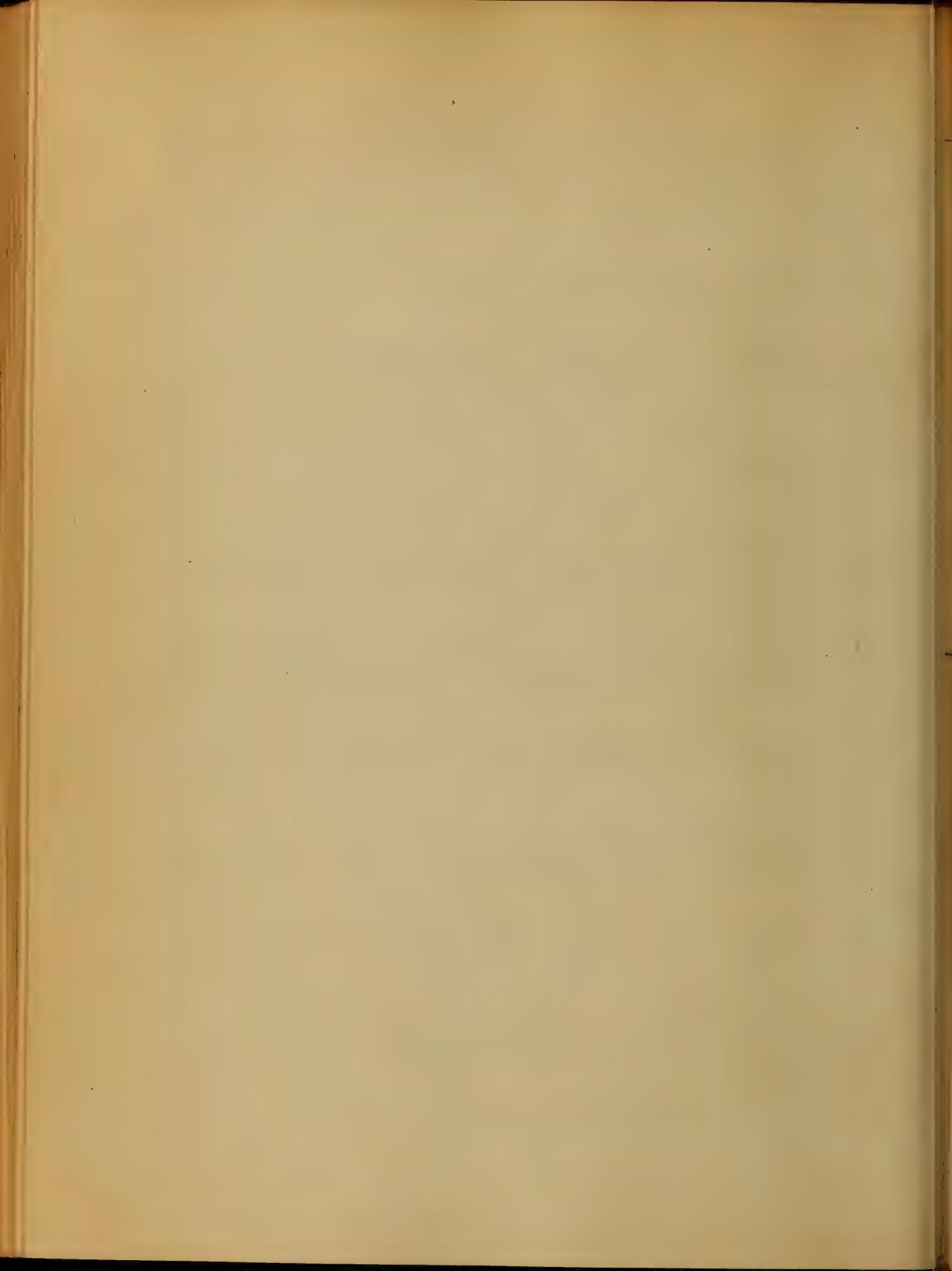
Cause — the precise cause is unknown.  
The circumstances favoring its production  
are diversified. It is certainly often gen-  
erated in situations where human beings



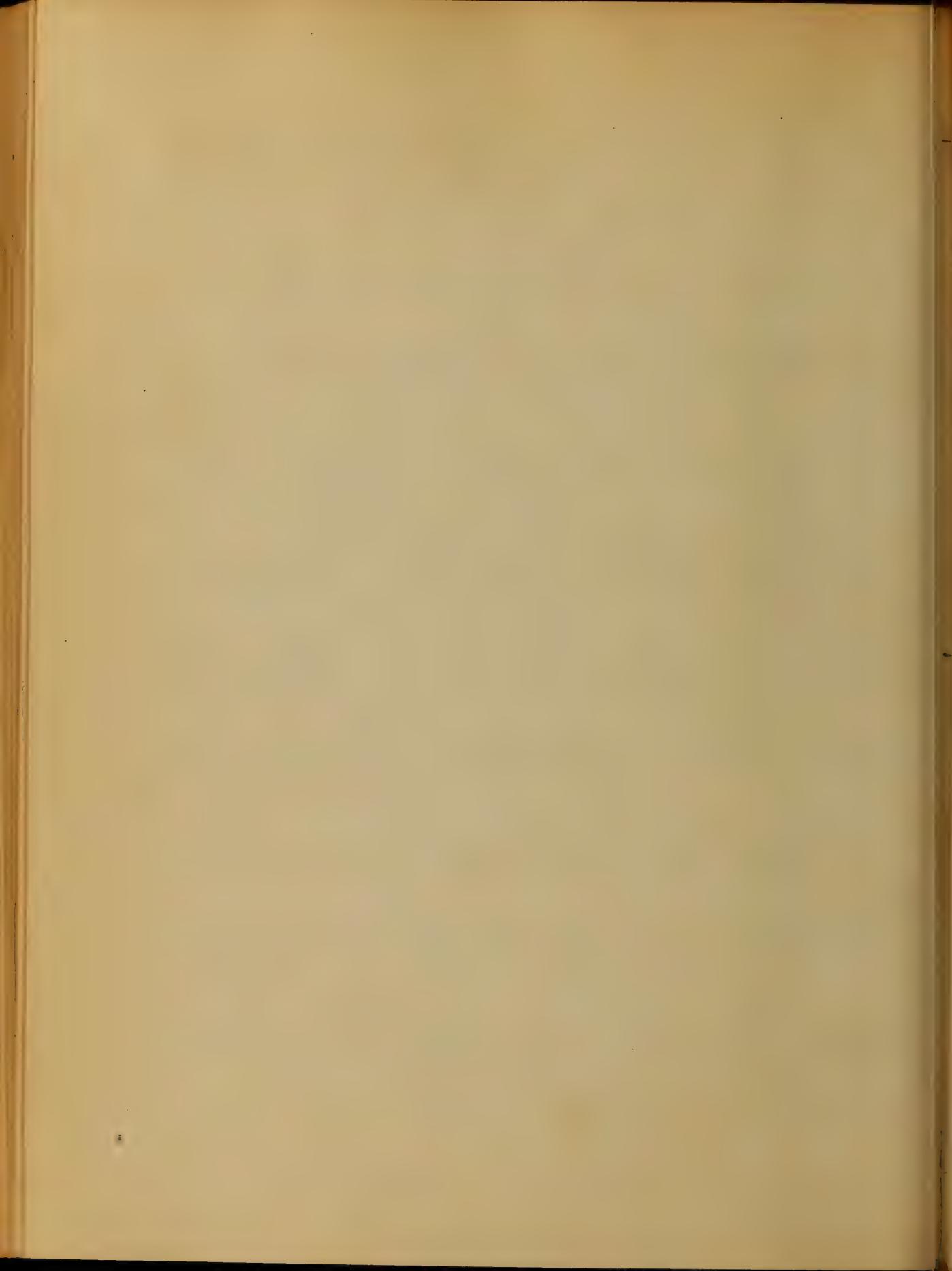
are crowded together with insufficient or unwholesome food and a confined & tainted air. In some sections it seems to be concerned by the seasons, becoming most prevalent during the autumnal and winter months.

Contagion - on this point we have among professional men diversities of opinion - one contending it is contagious another denying it altogether. We are forced to the opinion, if contagious at all, only feebly so, and under peculiar circumstances.

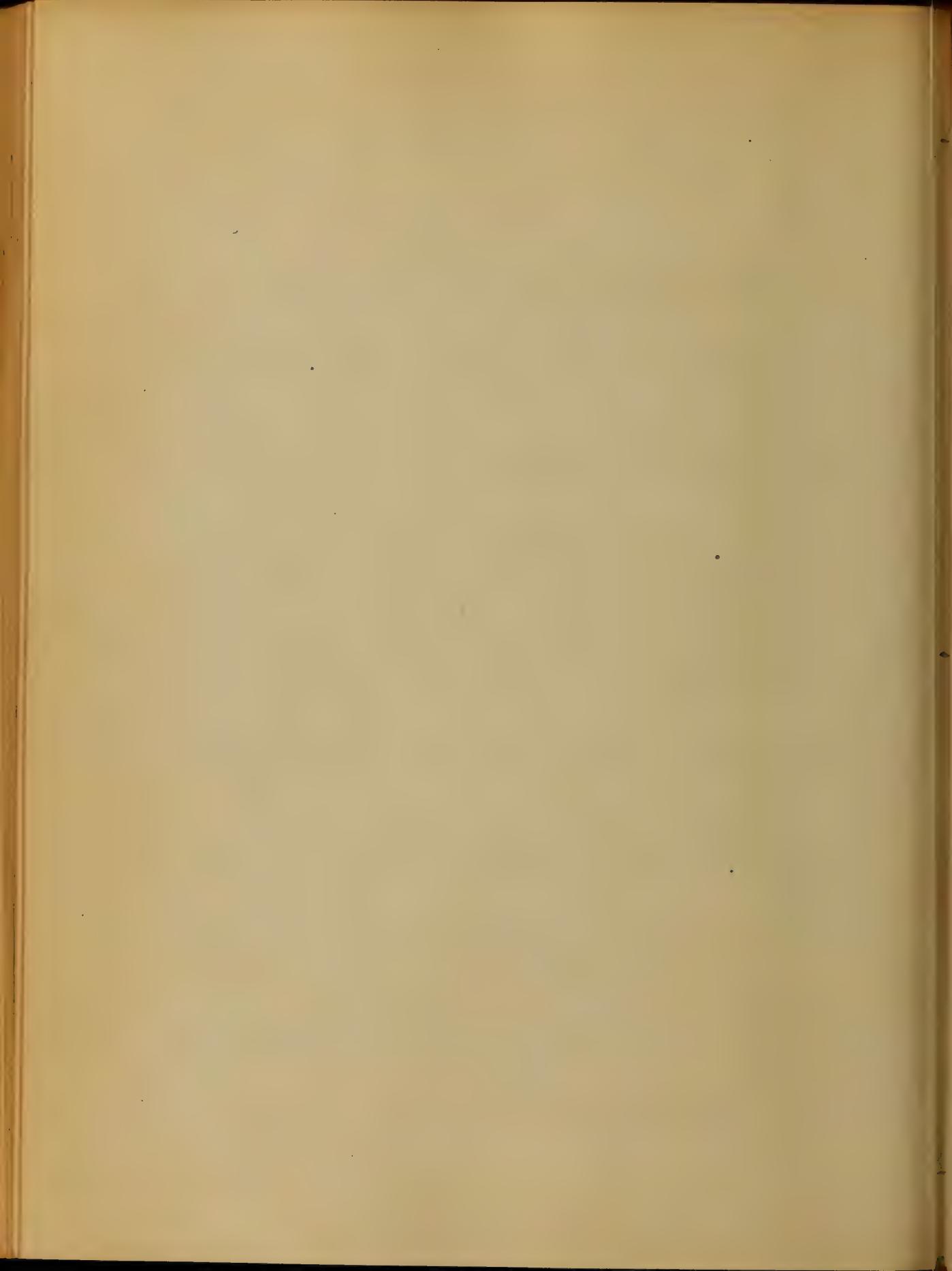
Duration - This is modified by circumstances, the average duration being from twenty to thirty days, though cases of unusual persistency continue for six or seven weeks, and some cases extend a longer period.



Complications—That Typhoid fever is occasionally complicated with other diseases will not admit of any doubt. The earliest complications are bilious remittent fever and acute pneumonia, pleuritis, is sometimes met with in connection with this disease. In a late stage of the disease hemorrhage from the bowels in fatal cases ensues. Peritonitis follows always when a perforation of the ileum takes place. This is a fearful accidental inflammation occurring sometimes when least expected. It is unsafe for me to mention the signs indicative of its occurrence, as it is rare that there can be any difficulty in ascertaining its existence, notwithstanding all like the fever itself it is to a certain extent latent.



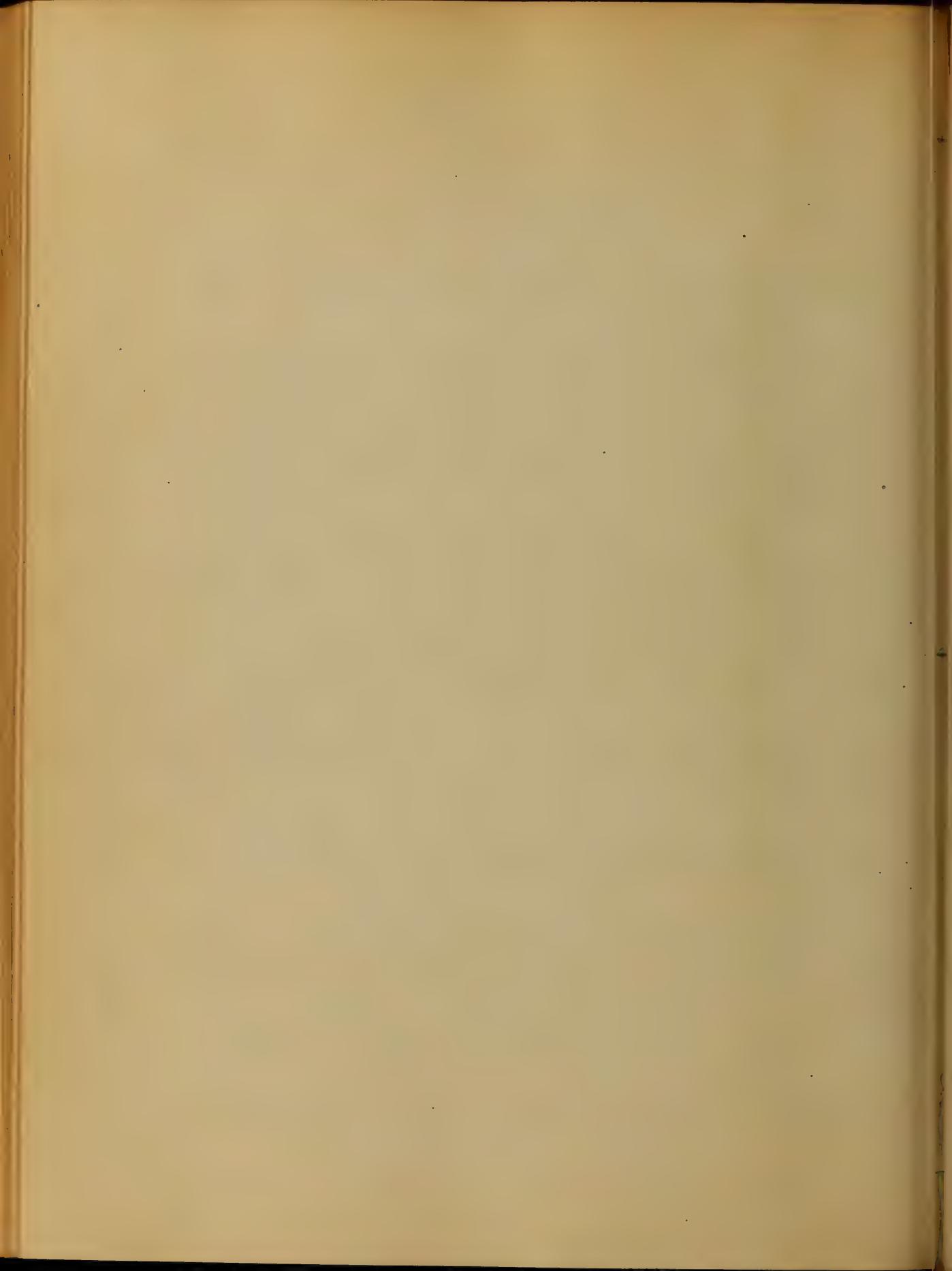
Diagnosis—Mention has been made of some of the most characteristic symptoms. The continuance of fever with an evening exacerbation of febrile heat, sympathetic, bronchial rales, rose colored eruption, and a tendency to diarrhoea, all add to the positive conclusion as to the true character of the disease. There are other symptoms of the disease superadded in the intermediate stage, such as dry tongue with a brown stripe down its middle, slight collection of sordes about the lips, gums and teeth, twitching of the tendons, deafness, delirium, &c. The young and inexperienced physician may find some difficulty in making a correct diagnosis through a strict attention to the symptoms will ensure success.



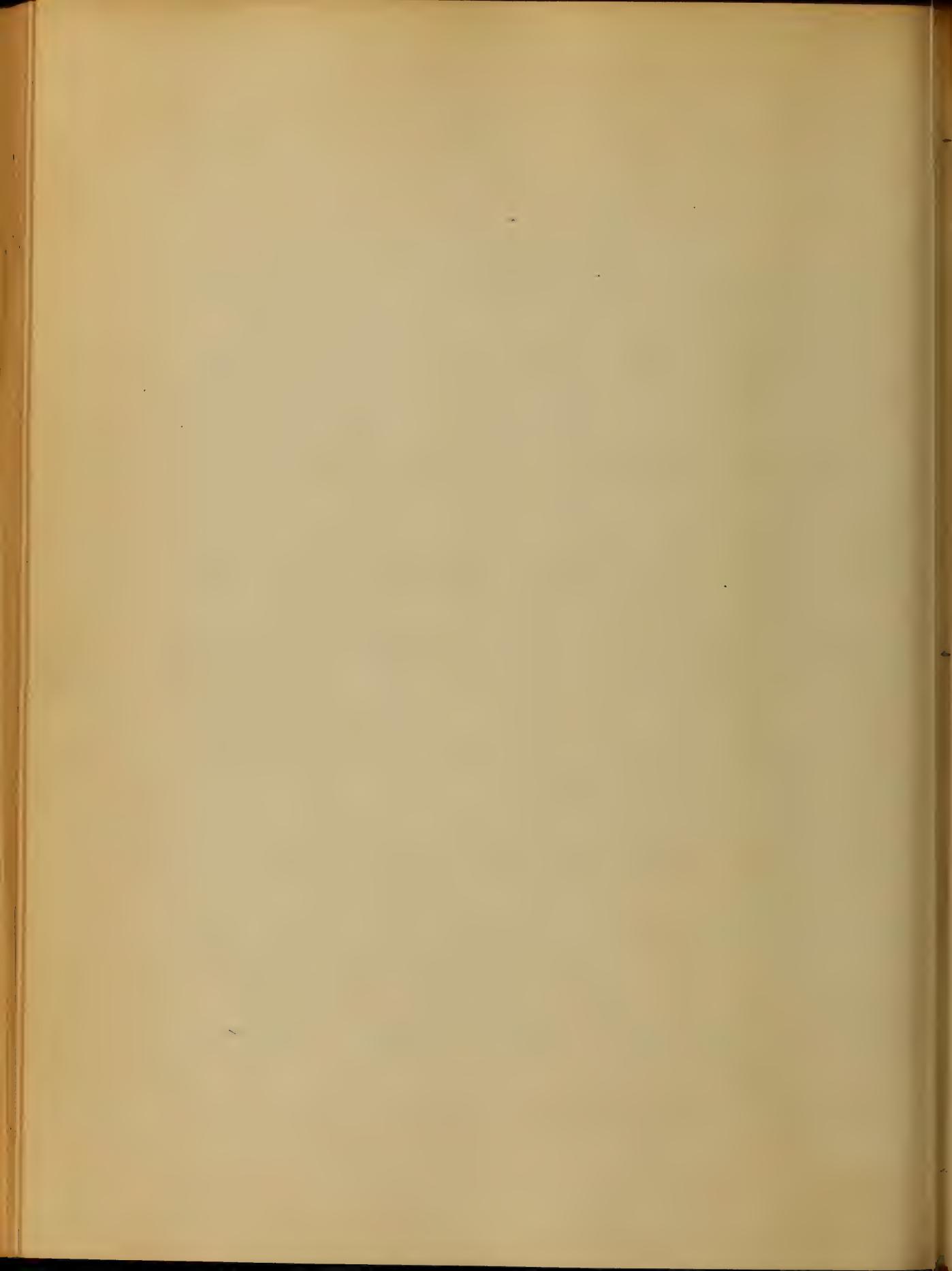
Prognosis - it is not an easy matter to arrive at any positive notion of the variable influences, which operate in its production, much, in termination.

A favorable prognosis in any case can rarely be pronounced with absolute certainty. No case however mild it may seem is free from danger. No case should be looked upon as absolutely hopeless. There is no condition so low - no symptom so fatal that life should be considered hopeless. The most desperate state is probably that connected with intestinal junction.

The probability of a perforation of the bowel by the ulceration of Peyer's glands gives an element of uncertainty to every case. Probably one death in twenty cases represent the mortality.



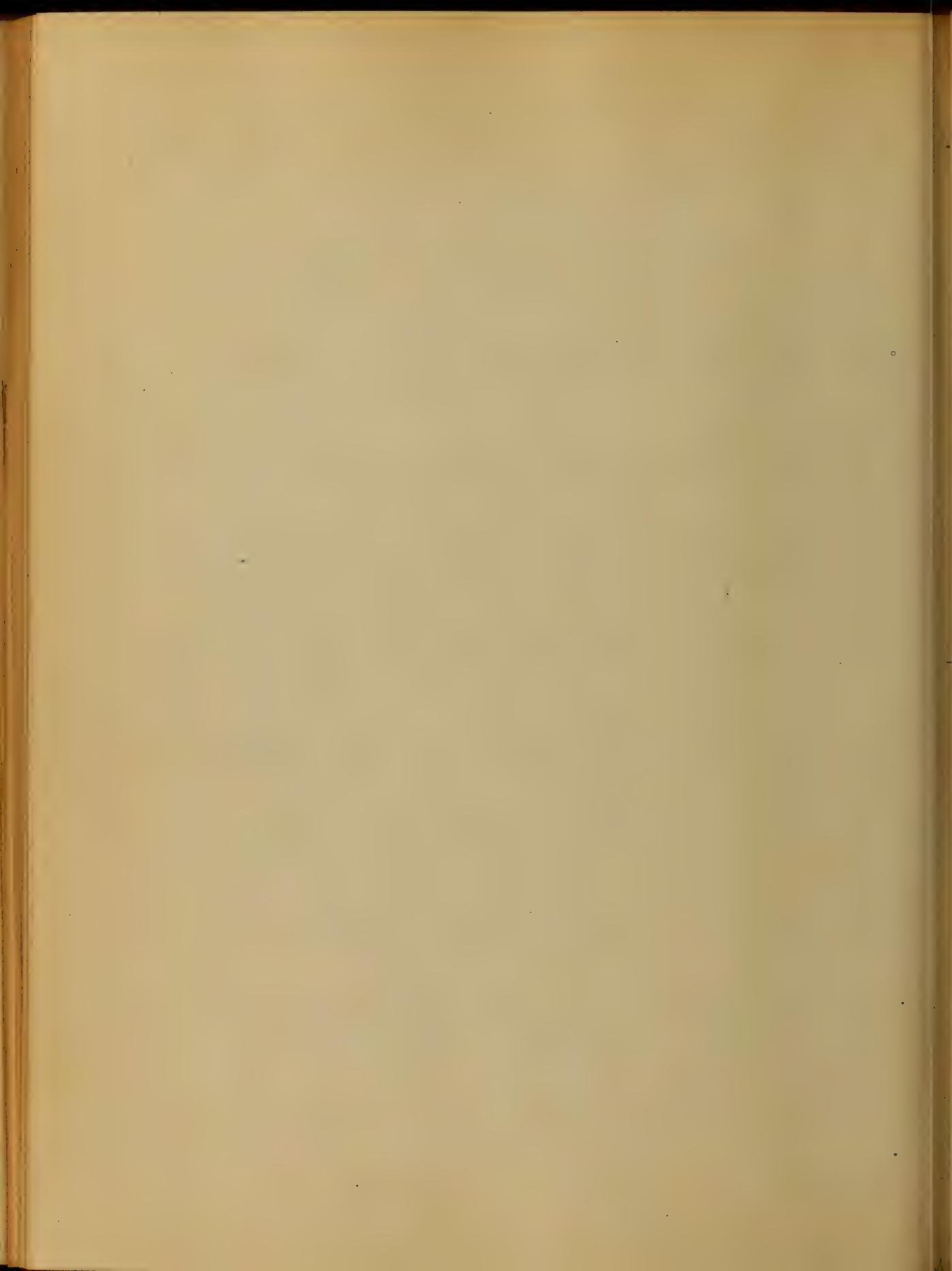
Treatment - It is a question of great importance to say how far it is needful for us to interfere in the management of typhoid fever. Too much may be, and often is done. The success in the management of the disease is attributable to great care being taken of the patient, and the medicine given, should be well timed. To know how, and when, to interfere, constitutes the successful practice; to act with deliberation is the common rule. It should be recollected the fever cannot be cur'd without any plan of treatment, though we may do much I think to moderate the violence of the disease, and arrest in many cases a fatal termination. By close watching on our part we may be able to do our patients much good.



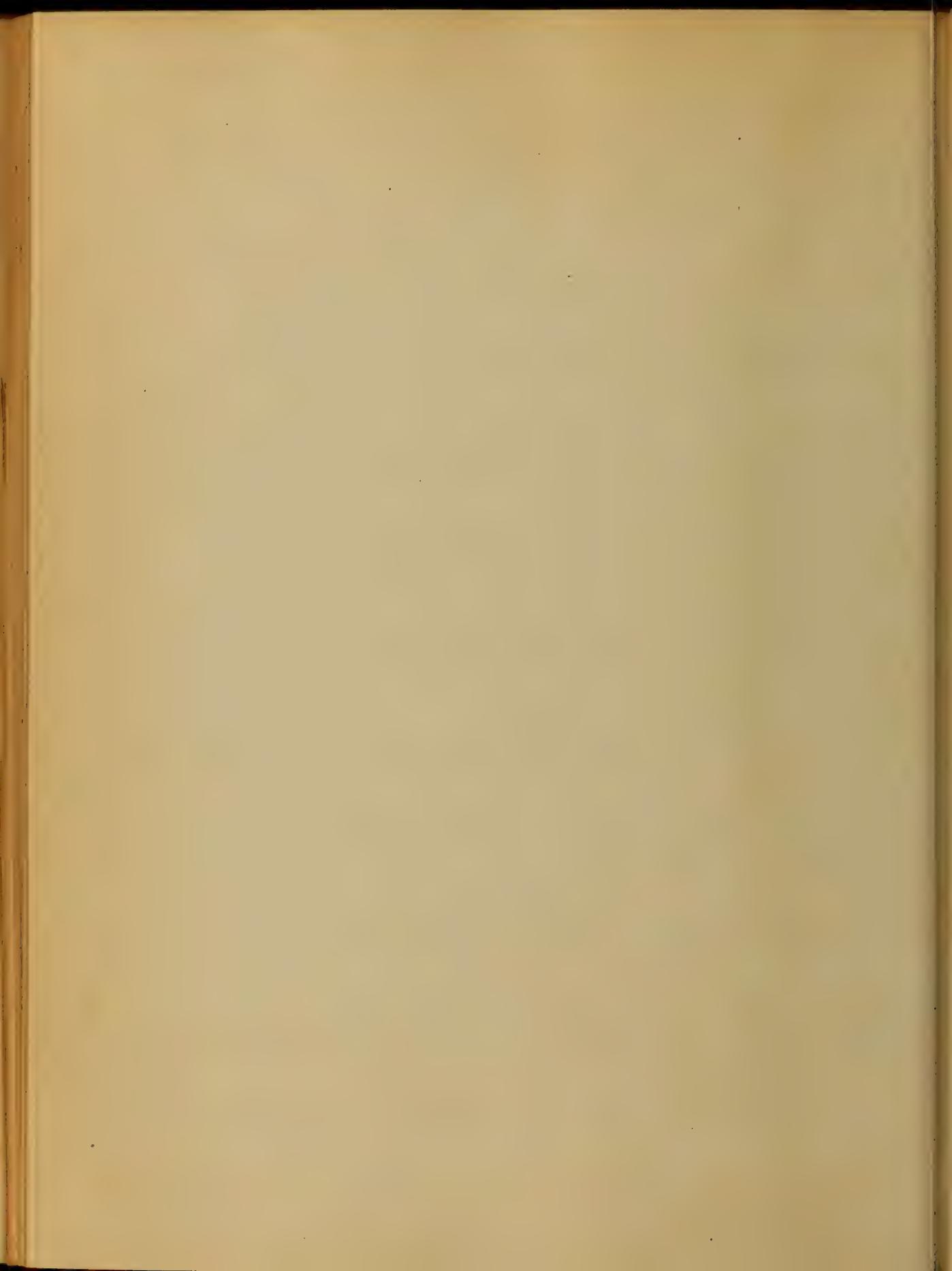
Condition of the system, state of the disease, age, sex, habit, and tendency to complication, all demand constant attention, without which, no hope can be entertained of a successful treatment.

Therapeutic Agents - these means are various; each plan of treatment has its advocates; the plan of treatment consists more in the period at which certain remedies should be given, than in their choice. In speaking of them severally, sometimes seen to come first in order, and by many practitioners are considered of eminent service in the beginning of the disease.

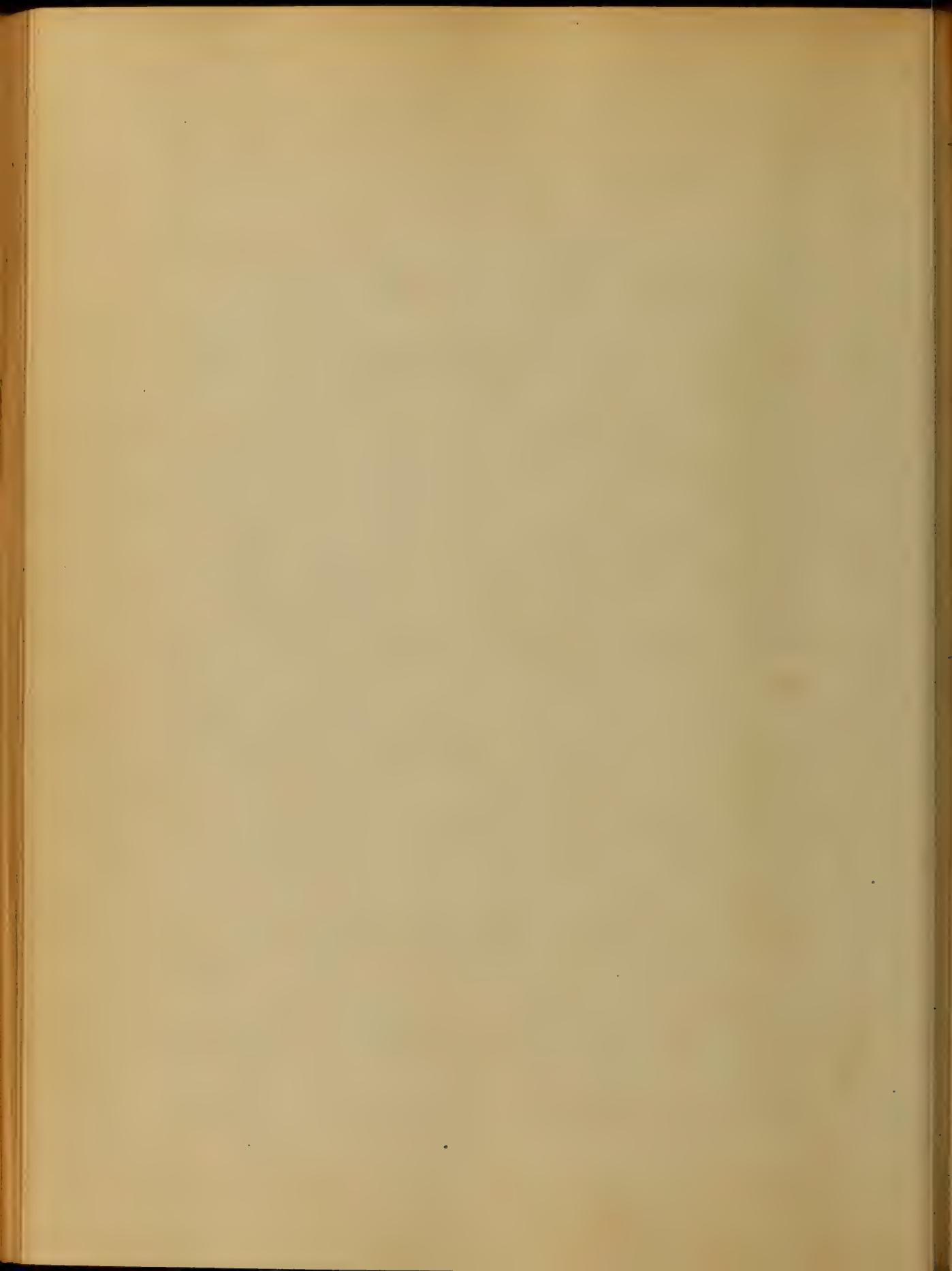
An Emetic cathartie to produce a complete evacuation of the bowels may be given in the absence of a tendency to diarrhoea.



After which, the body and bed Linen should be made an object of special attention, as too much care cannot be paid to this, as cleanliness will aid us materially. Throughout the progress of the disease it is generally thought best that the towels should be moved once or twice in the course of twenty four hours; should this not occur, mild emetics may be administered, such as Castor oil, a single dose of Seidlitz-powders, one or two drachms of Epsom-salts, or a half drachm Ricinus; either of them may be given, and repeated if necessary. The Morning is the best time for administering these agents in order that their effects may be accomplished before night, as a quiet night should be wished if possible.

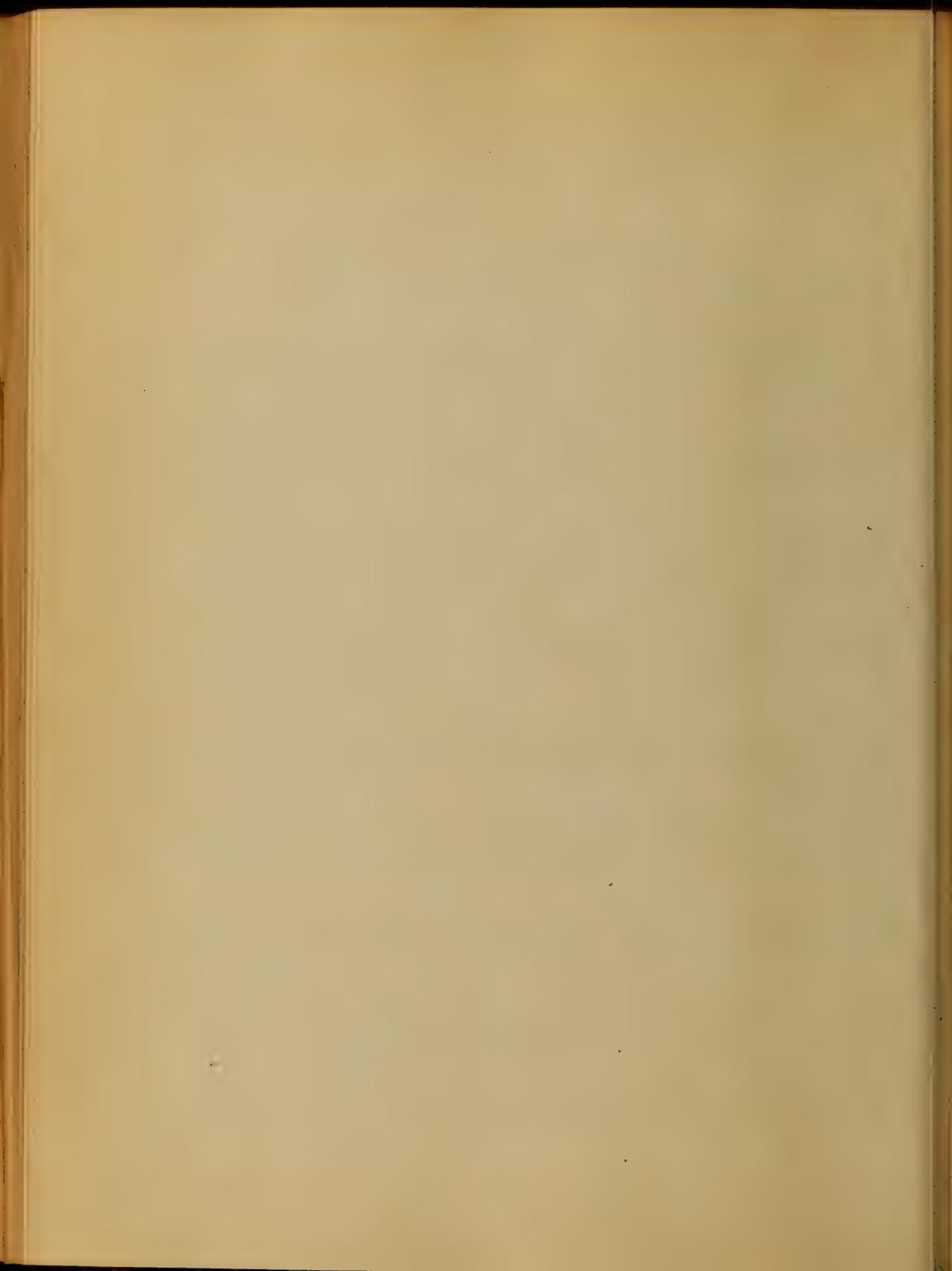


Blood letting - bleeding will not arrest  
the disease, if carried too far, or inappropriately employed, may so prostrate the sys-  
tem as to cause it ultimately to sink  
under the malady. The main use of  
bleeding, says Wood, is to prevent local  
and disorganized inflammation. The  
local obstruction of blood may be  
great service, especially, for the rem-  
oval or abatement of epigastric or  
abdominal pains. Diphtherics -  
These agents are used to bring about a relax-  
ation of the surface, a reduction of febrile  
heat &c. Of these, spiritus Mindereni,  
sooth spt. Nitre, the neutral Nitre or  
effervescent drapghir is most generally chos-  
en, and administered every two or three



hours during the day; when the skin is hot and dry clover powder at night to induce moisture and procure rest.

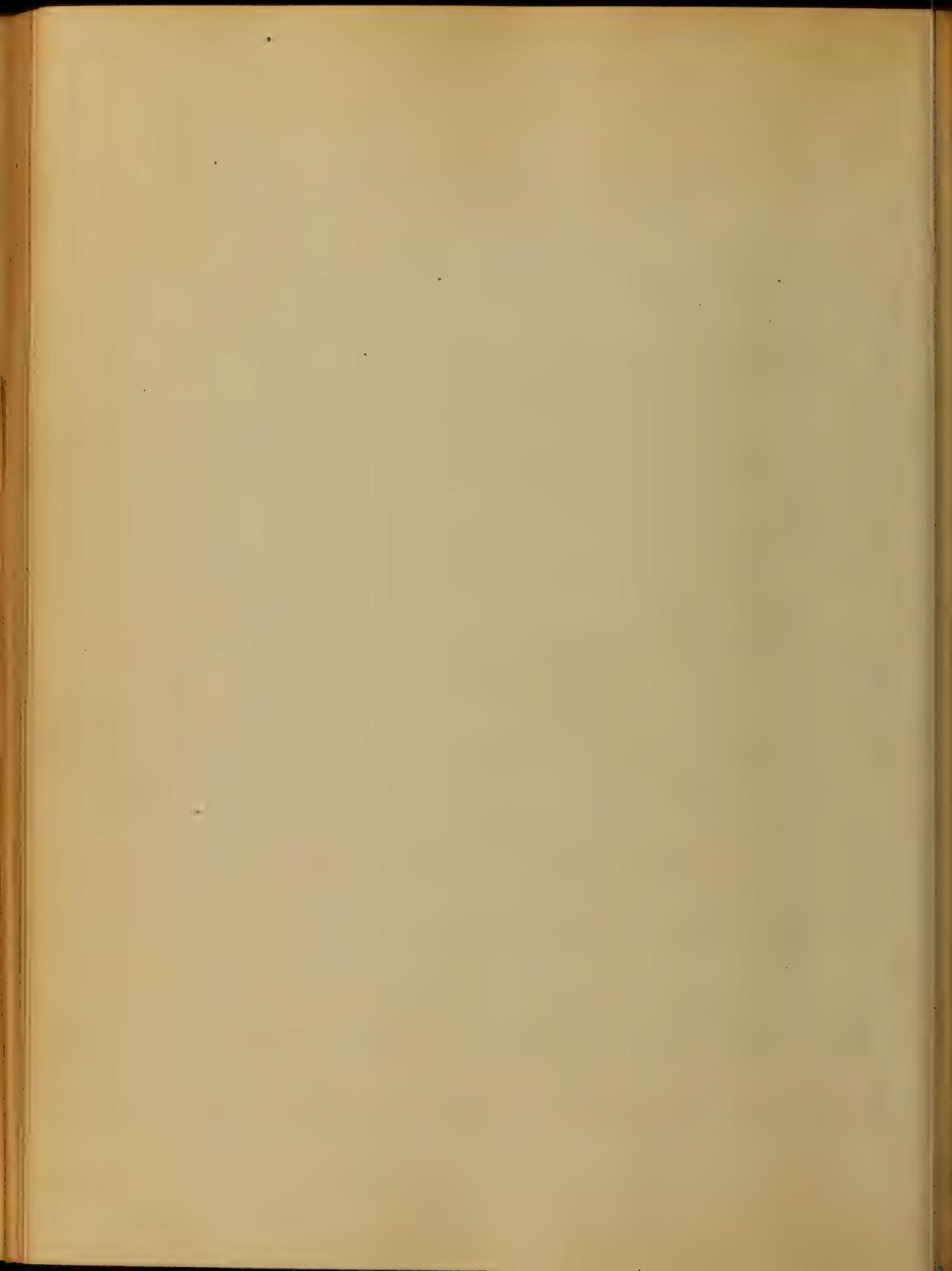
Veratrum Viride - this article has some advocates, and some opposers; it is employed to control the heart's action; the dose is from four to five drops, increasing the quantity by one or two drops until a dose of ten drops is reached, when its effects should be displayed. Astringents - are of great importance especially when hemorrhage from the bowels occurs. Opium and the Sanguifield are considered the means for its arrest taken in time to prevent the rectal contents entering into the blood of lead. Crocote is employed to arrest hemorrhage from the glands and intestines.



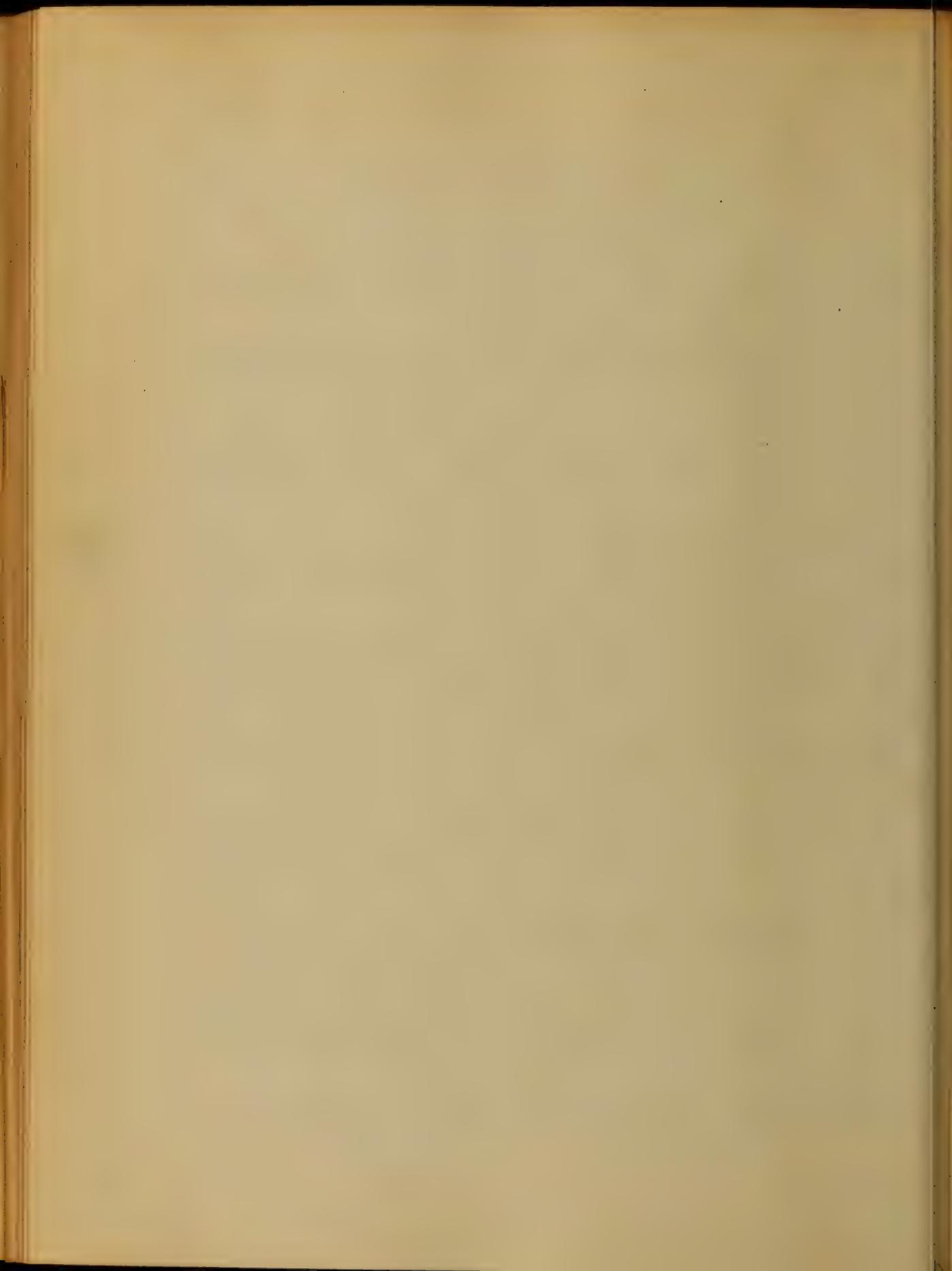
Fomentations - the ordinary application may be used, they should be applied as warm as can be borne by the patient; in many cases much good may result from their employment.

Oil of ter-pentine - this a good as a remedy - when best to employ. it is of great importance. According to the testimony of Wood, the occurrence of the dry state of the tongue is the signal for its use; given in dose from ten to fifteen drops every two hours.

Tonics and stimulants - in the employment of these agents great discrimination is often requisite. If the pulse be soft and imperceptible skin cool and moist strength considerably prostrated the indication for stimulants are pretty well made out. When under the use of stimulants the pulse

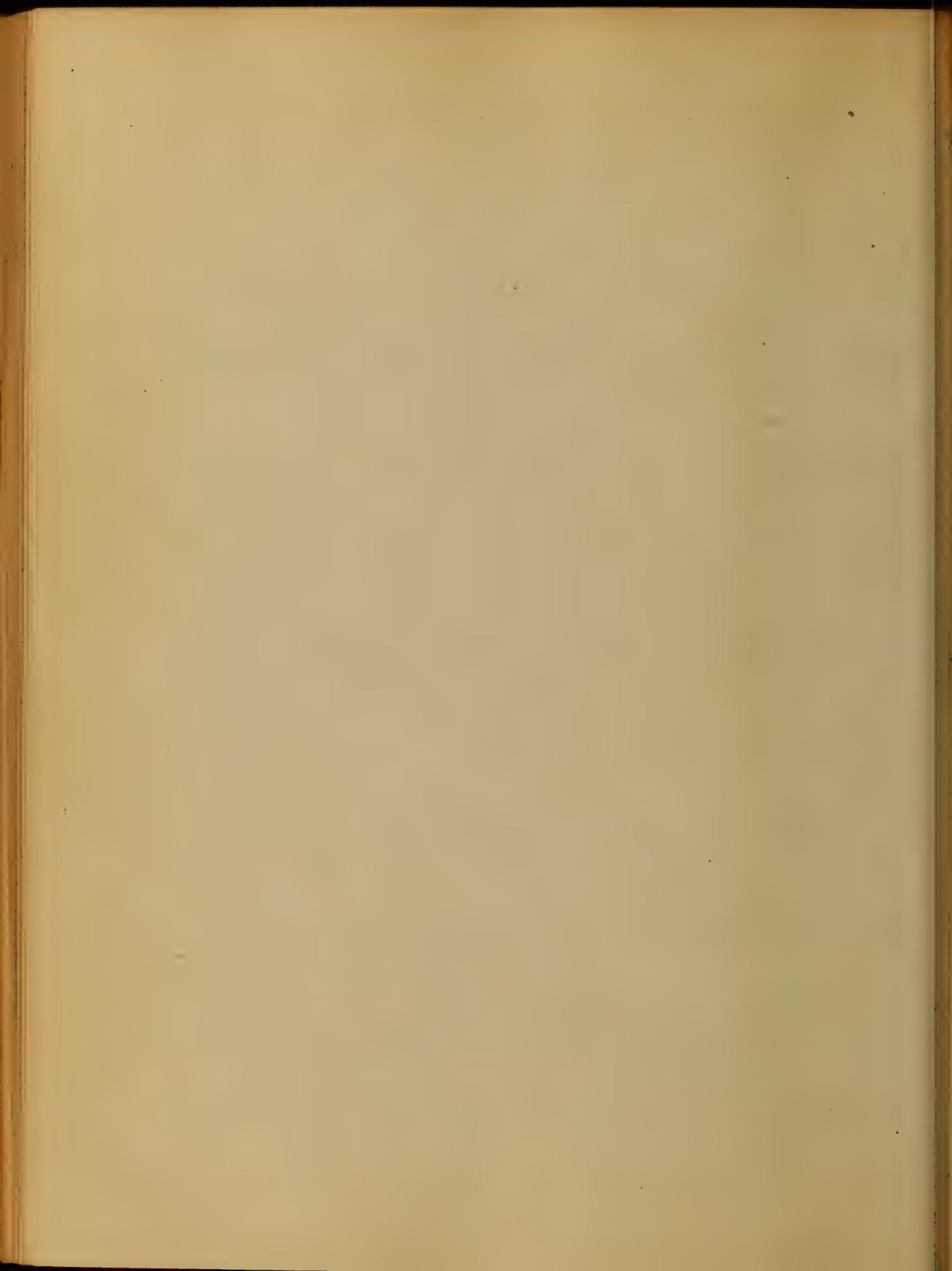


becomes slower and fuller, the skin warmer  
and moist, the respiration more slow the  
tongue moist and clear, delirium abates,  
and sleep follows; the stimulants are discontinued  
soon. Quinine - I am satisfied has no  
place as a curative of this fever. It is  
useful as a tonic, after the critical period of  
the prostration of the height of the fever; not  
more than eight or ten grains (in quarter  
grains doses) in twenty-four hours. It frequently  
many cases of typhoid fever require alcoholic  
stimulants at any stage. Those most  
of the cases need it before the middle of  
the second week, when the fever begins to  
decline; many require it first in intermission  
with a wineglassful about every three hours.  
Often when winter comes on suddenly -



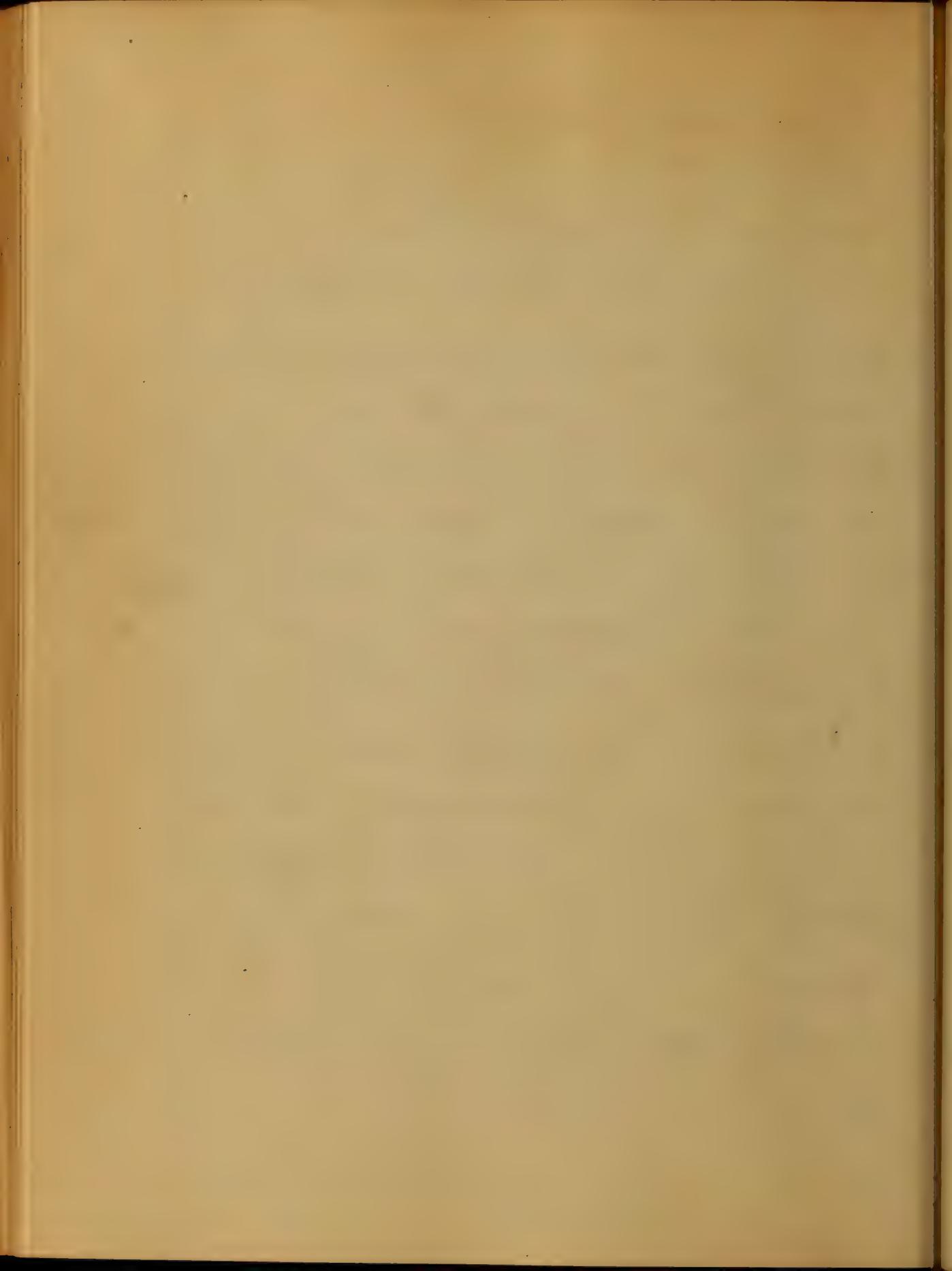
puerperal; take a spoonful of brandy with the same or twice the quantity of milk. Bran-  
ten is indispensable in nearly all cases, during  
the second week. We find it necessary to  
nourish the patient from the commencement  
of the disease. During the first week plain meal-  
porridge, tea-water, rice-water &c may be  
given; afterwards milk may be added, two  
or two table-spoonfuls every two hours or  
three hours. This I offer as a treatise of  
Typhoid fever.

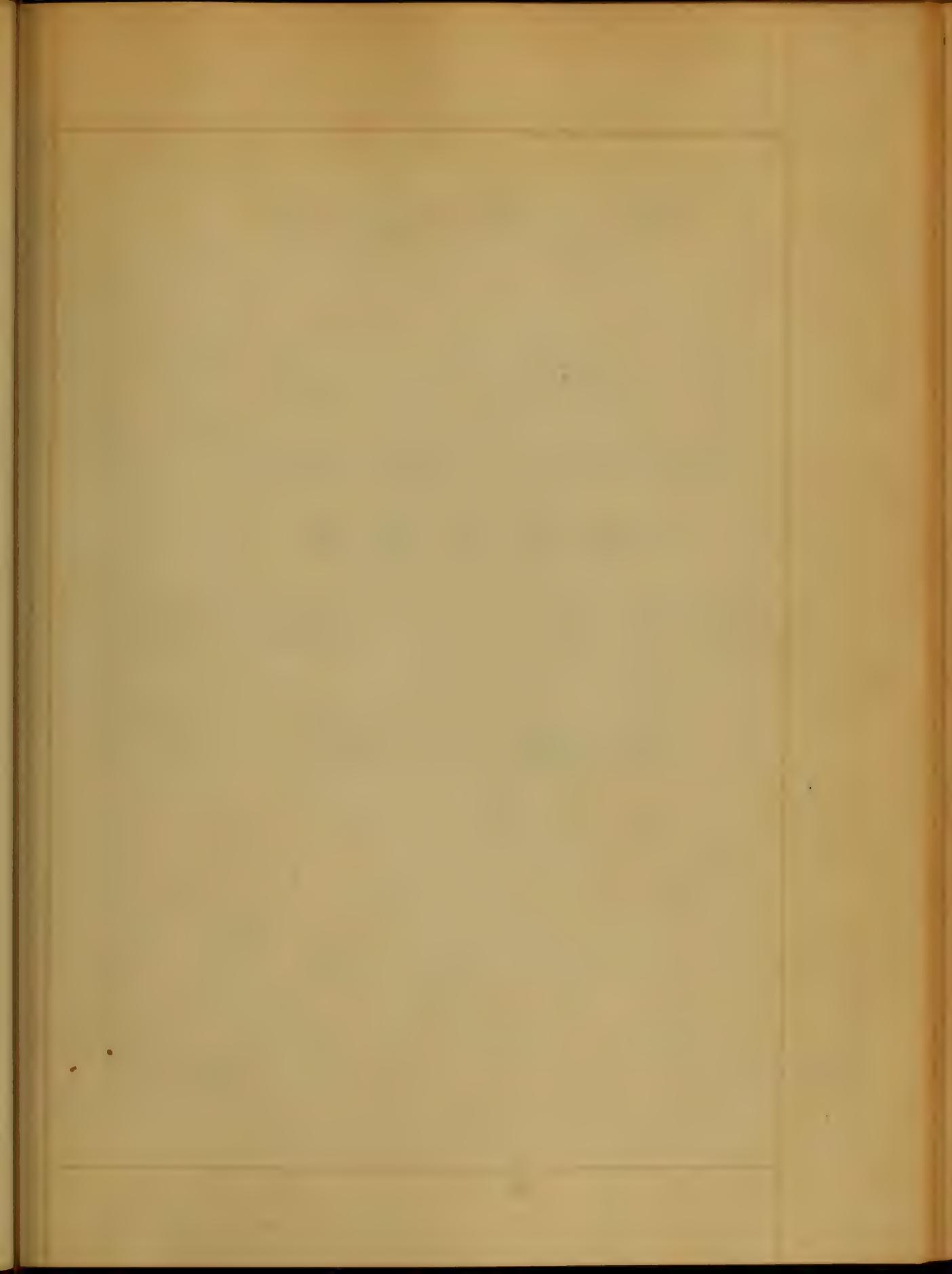
I can not close this essay and do justice to my feelings without acknowledging  
through words are incompetent to express in  
a small degree, my hearty thanks to the  
Faculty of "Magdalen University —  
School of Medicine" for their entering

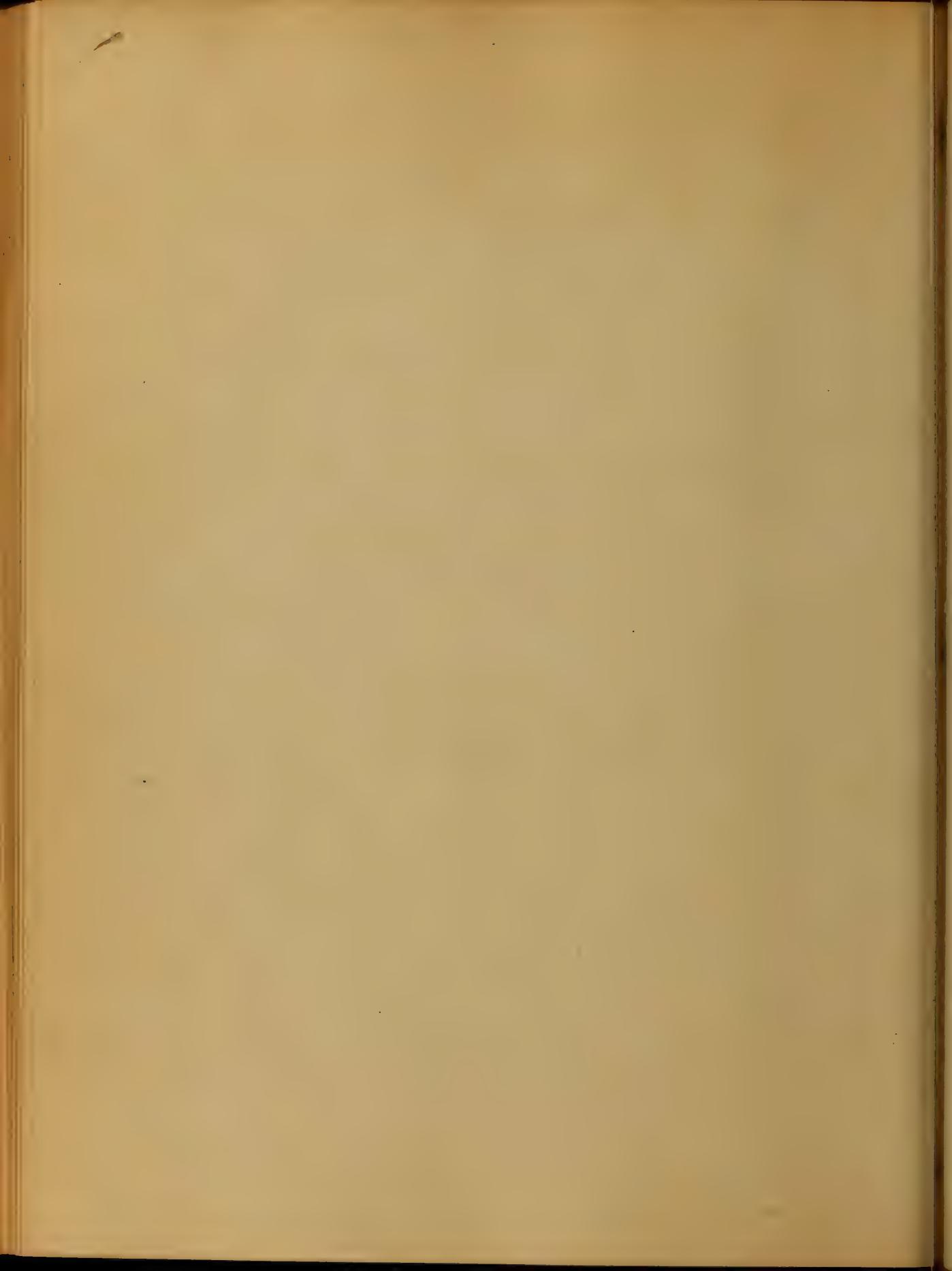


efforts, and never ceasing exertions, to instill into my youthful brain the degree of knowledge, which hereafter is to enable me to meet, combat, and repel the attacks of that foul invader Disease -

Whatever fate may have in store for me: Should I be called to the cold and icy Arctic, or the hot and scorching tropical regions; my mind will even return to the time when I had the honor to sit under, and catch the droppings of wisdom as they fell from the exalted minds of the several professors composing the Faculty of my Alma Mater. This went attempt'd must be brought to a close, "Don't turn me with a entire eye but, hush up my impetuosity by".







AN  
Inaugural Dissertation

ON

*Designs of Surgery,*  
Submitted to the Examination

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OF THE

UNIVERSITY OF MARYLAND,

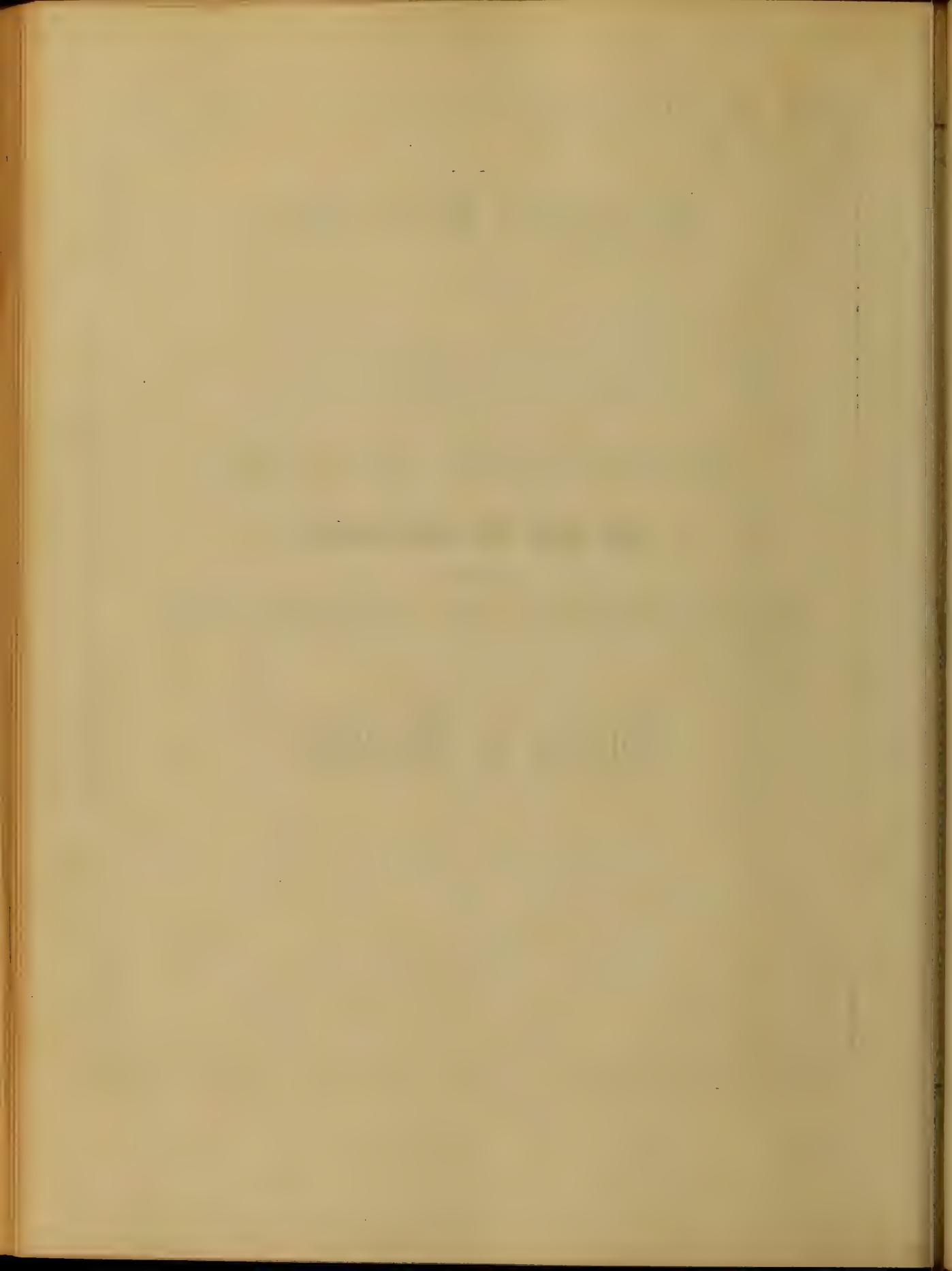
FOR THE DEGREE OF

DOCTOR OF MEDICINE,

By

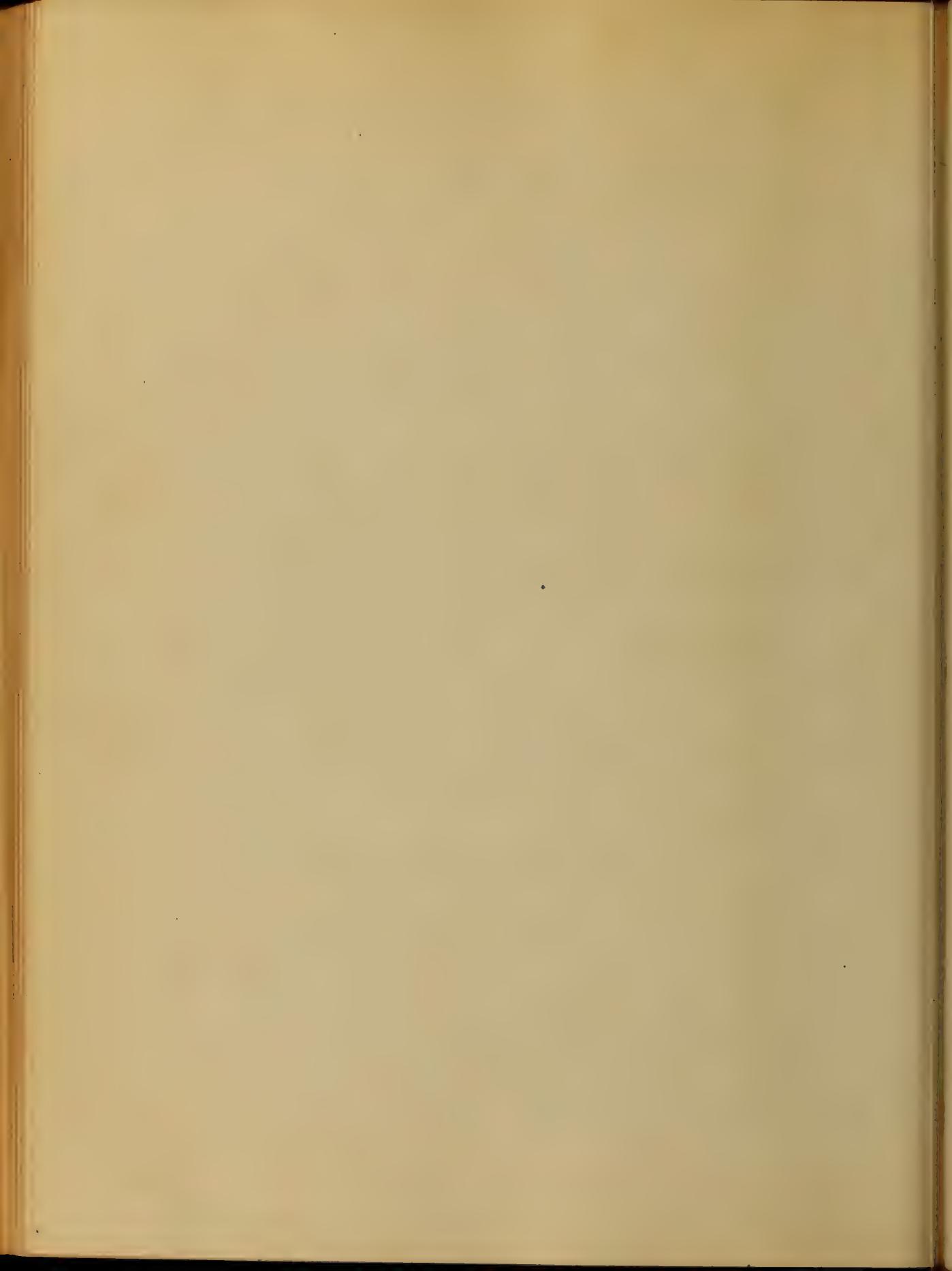
Session of

(1833-34) 1168

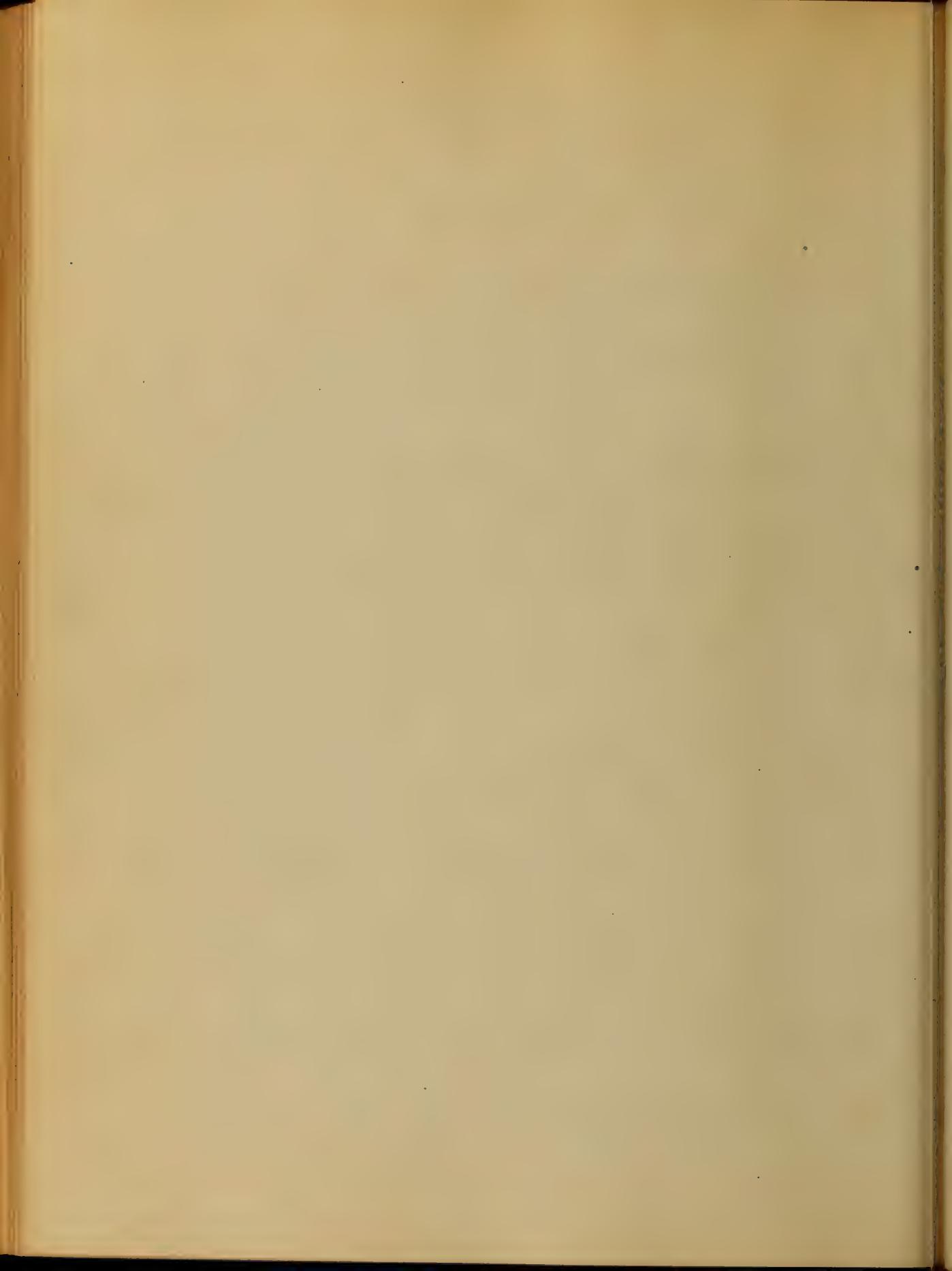


## Diagnosis of simple Hernia

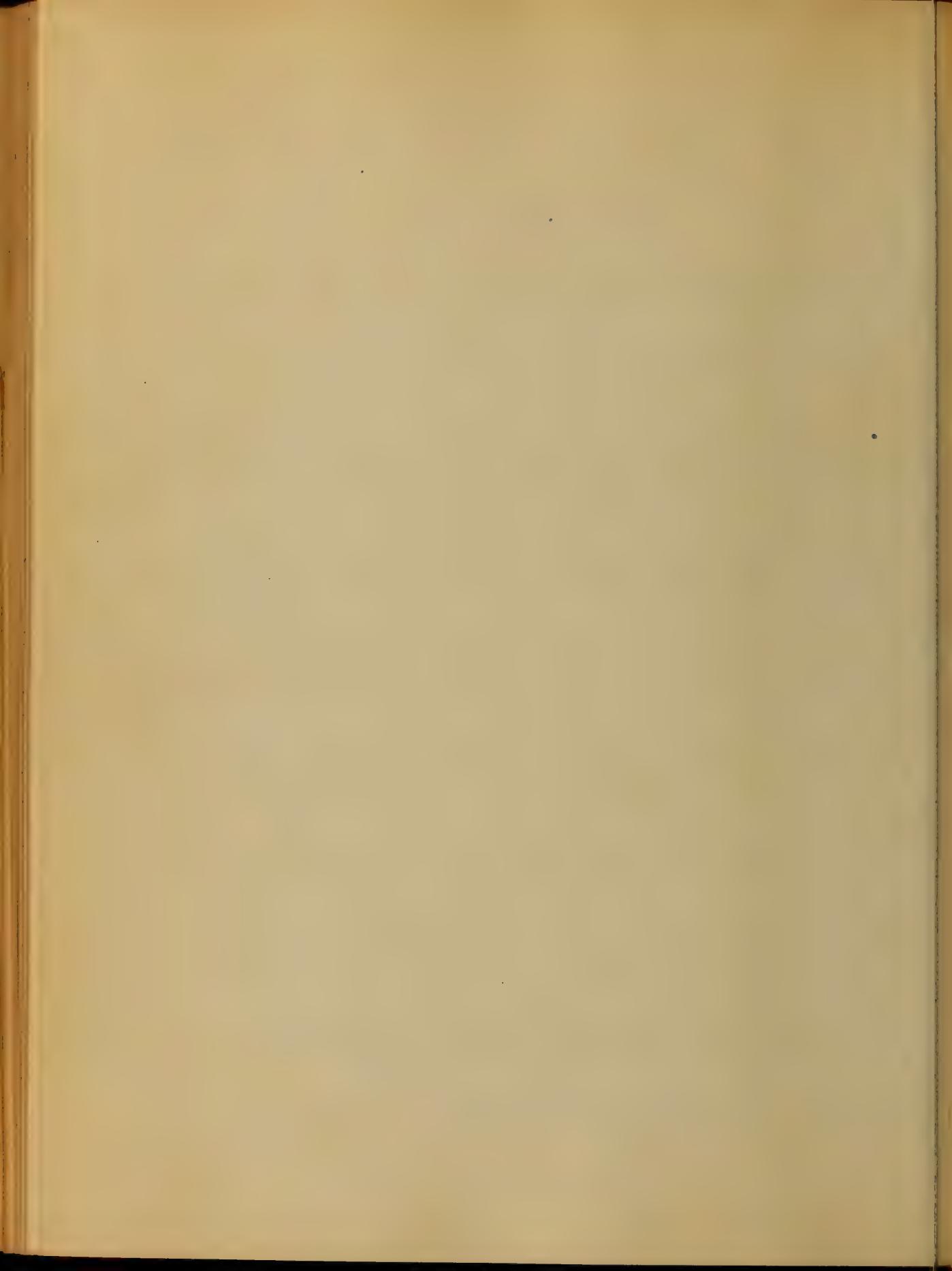
The great trouble of diagnosis is to determine whether it is a hernia or a tumor. The trouble to you comes in the first place of distinguishing between a tumor & a hernia. In the second place, the trouble is no one can be a sufficient & the practice & become accustomed to the profession. The diagnosis of diseases is very difficult for it is not hard to know diseases, however like names upon them will correspond. But only it can easily the signs of organs & particular difficult with all examinations and especially a when there is



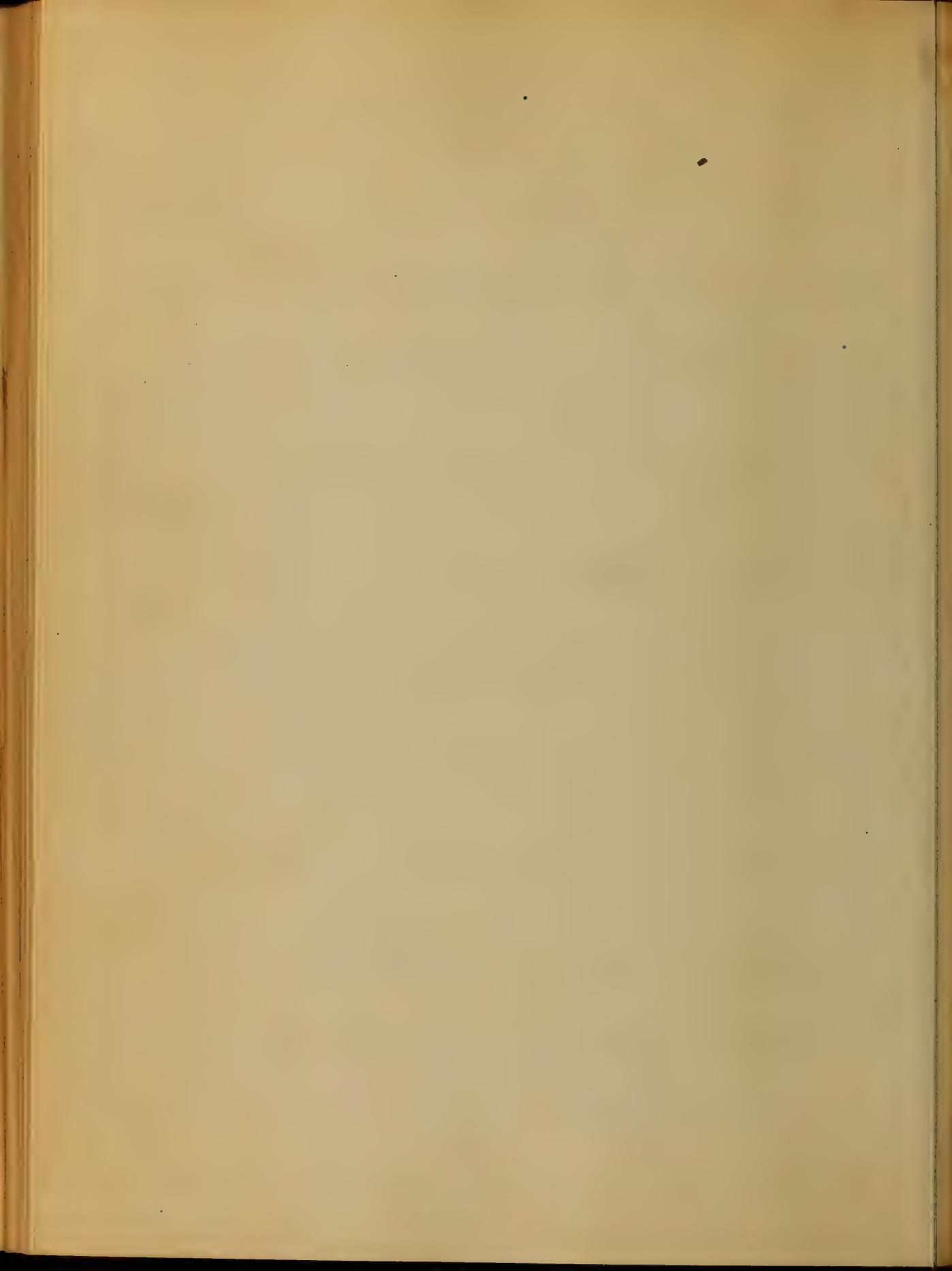
and most seem on the part of the  
people. I have written and have  
they said pregnancy and also who  
has a suspicion on the part of the  
immortal you will know what the part  
of the gathering of the people is to be.  
To make distinctions and distinguish  
by, in ones of the like nature.  
Knowledge which you have an  
able organization on the part of the  
~~Christian~~<sup>Christian</sup> people a suggestion is  
already obtained to come to them  
here with property and the like  
~~Christian~~<sup>Christian</sup> people will be  
of the able to be given to them  
and guarantee it in writing  
so that after all



comes to being part of the day here at  
Hartford when in process and by re-  
ception, and the production of anything  
to the present system. These changes are  
the signs of progress, of which I have seen  
as the subject of my class. I will however  
promise that during the first three or  
four months nothing will be done except to  
the original figures and to my best  
abilities improving and  
disposing of no type or any  
idea which you may give me  
in other parts, they might come by my  
own voice that may appear in the  
natural state of things.  
This has been written but by  
~~me~~ without the aid of any book or paper.



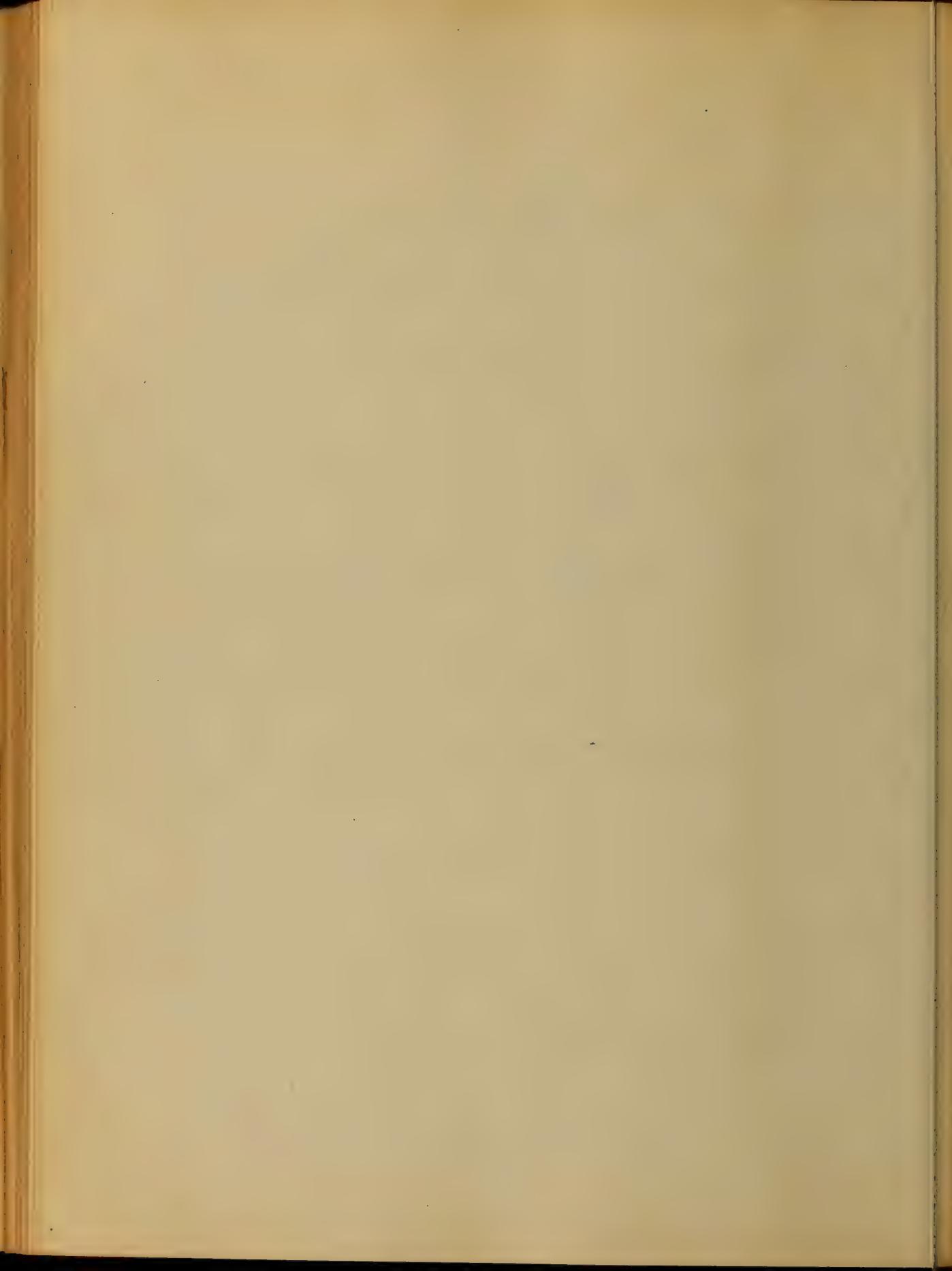
as sensations of distinctness all the  
below certain ages of pregnancy  
all of us ought to in consider-  
ation the numerous annoyances of  
maternity, but as most of the expect-  
ants ~~want~~ a visible sign of  
unless to count upon the signs  
laid down by ~~Physiognomy~~ how largely  
received. Among the earliest signs  
of pregnancy is observed the swelling of  
the bowels this evolution of the process  
from during the pregnancy often accompanied  
accompanying with fulness in the  
bowels headache manifestly of the  
face the stopping of the bowels is  
admitted by all to a sensible  
in motion and also often a confor-



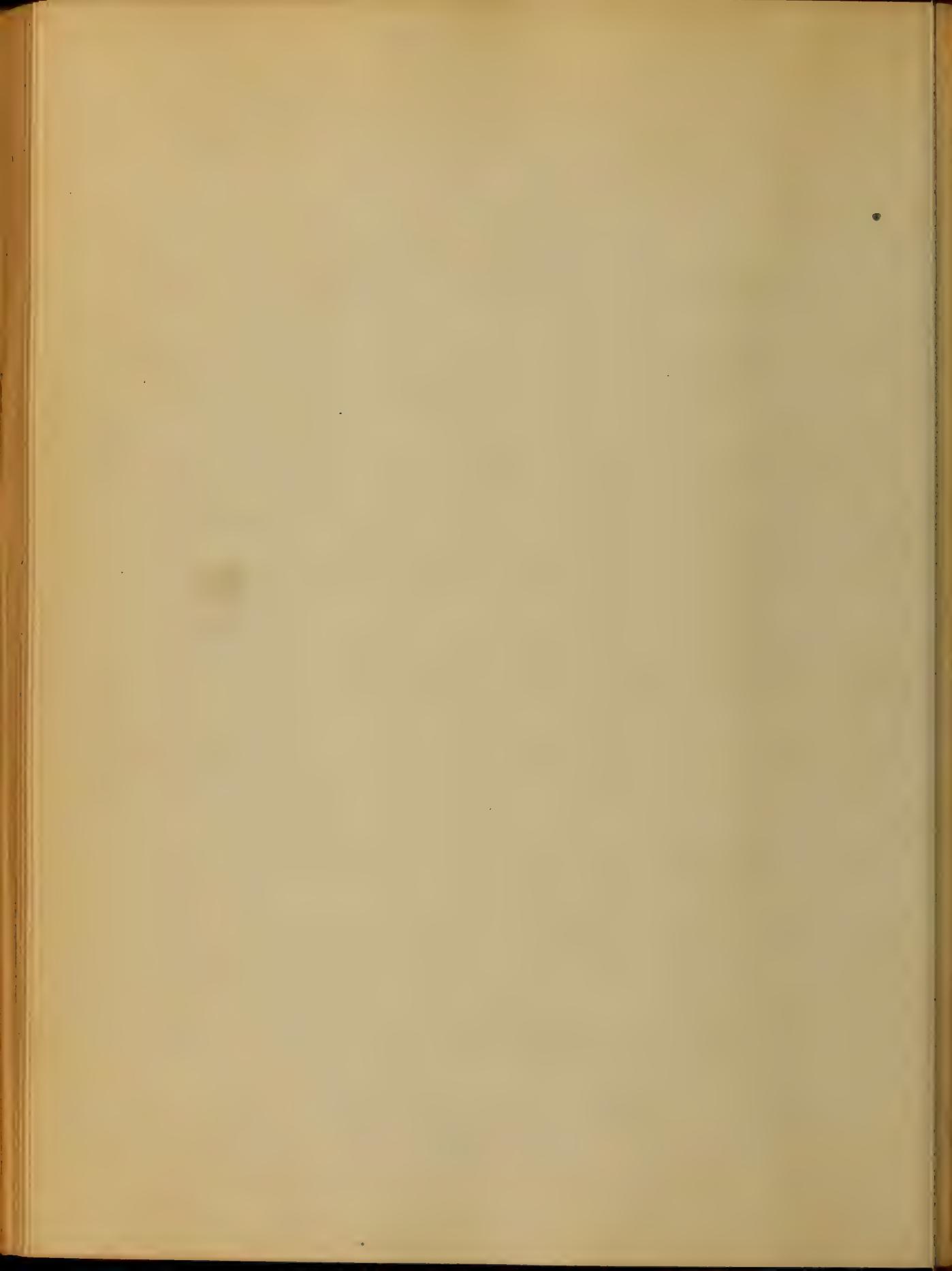
and you are to pay me £  
of the price of a copy of the book  
to be given to my wife as a gift  
and the same to be paid by  
the goods to my wife as a gift  
of delivery of goods it is a copy of  
the book of the same except  
to the general sum of £100 to be  
monthly discharge during publication

for which you are to be  
entitled a weekly bill  
from time to time

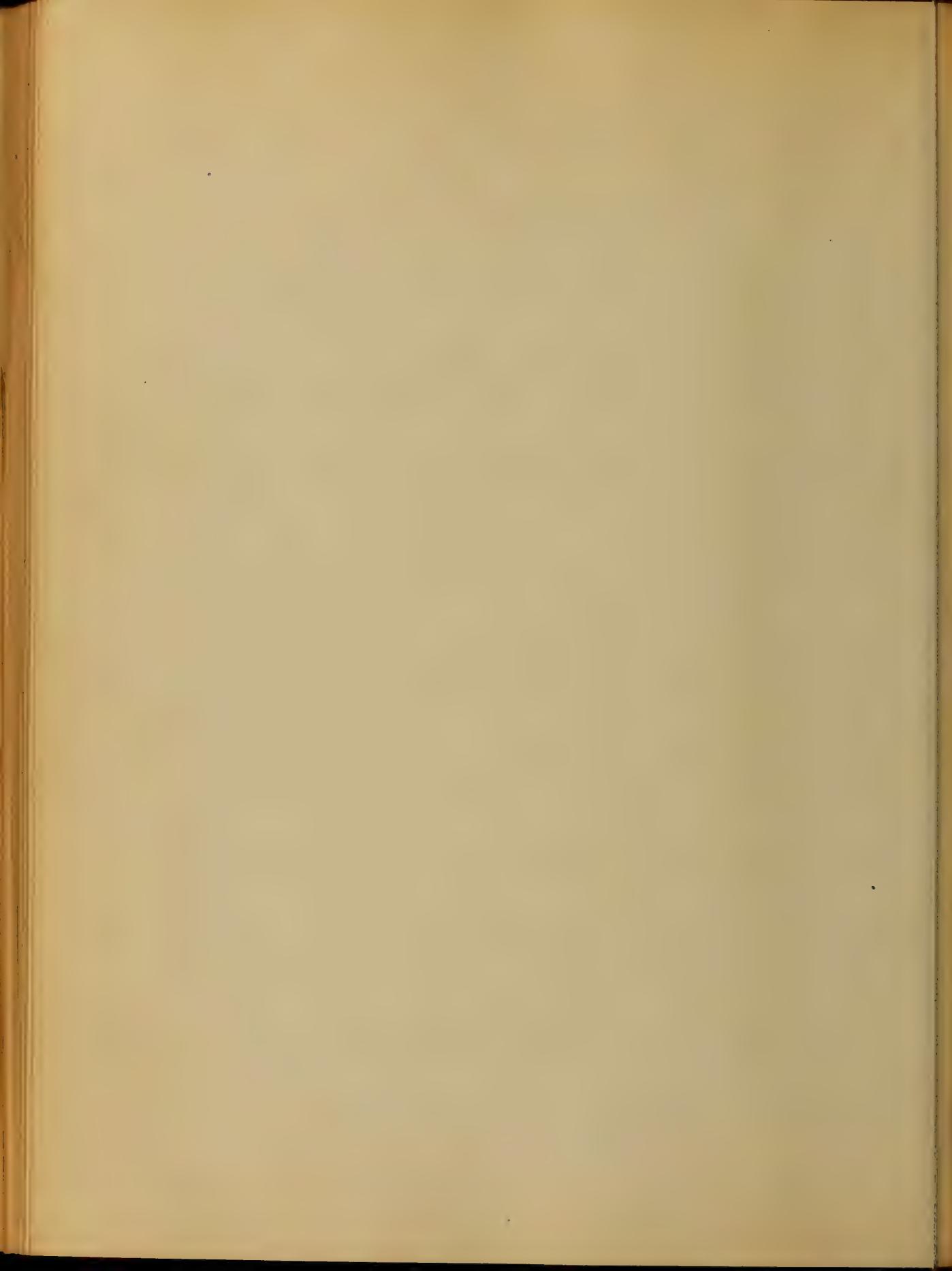
an other cases or record when par-  
ticipating in the payment of the  
same to equally as the same  
are not to be entitled to the



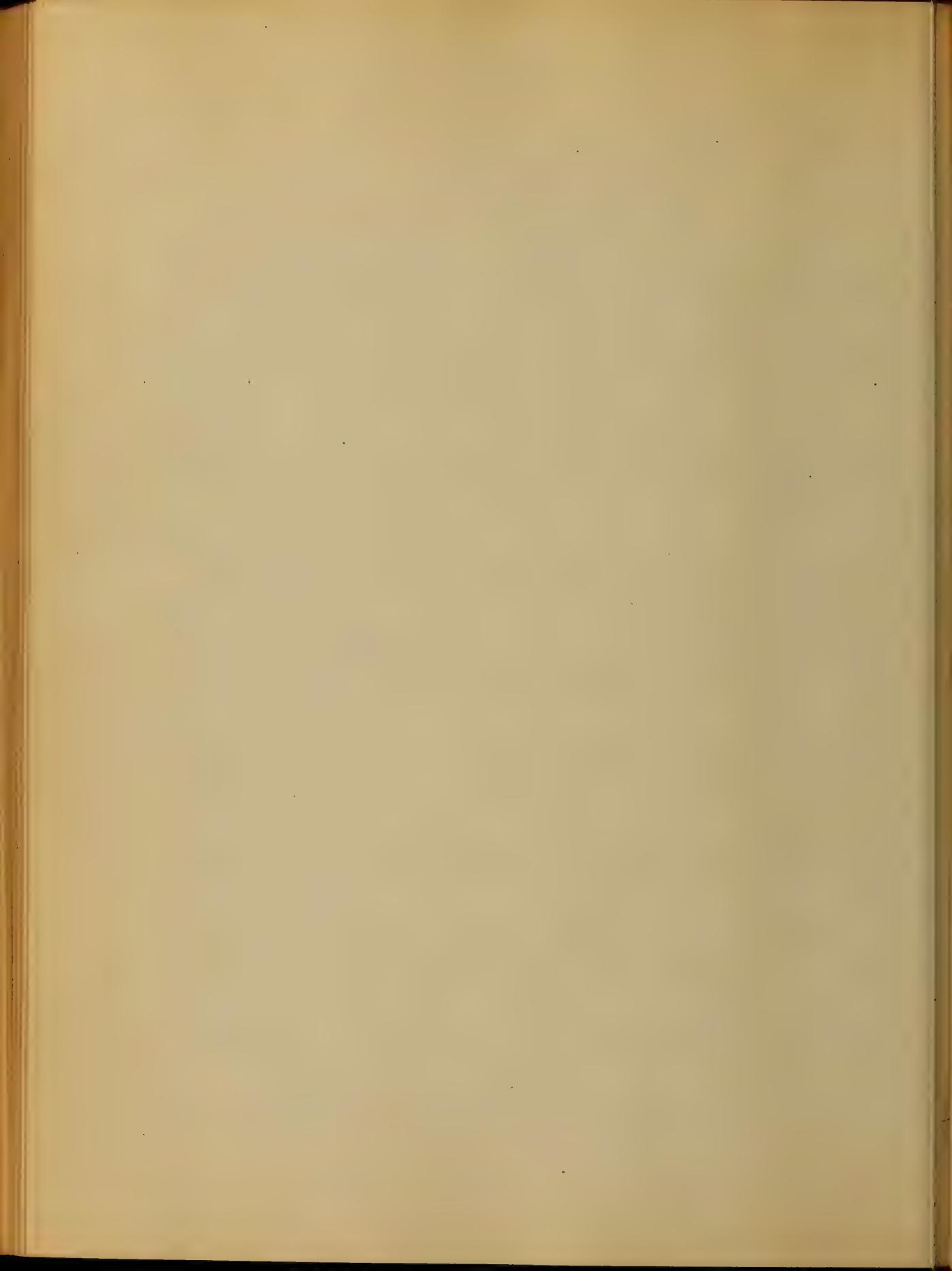
cept only for the usual  
inhalation and the con-  
sequently common  
laryngeal irritation, but inferring  
from what little has been said con-  
cerning these cases, their occurrence must  
be frequent. Referring to the  
inhalation of smoke - a  
many causes, by him to  
be present in his opinion of the  
large number of cases of the  
laryngeal irritation of the  
whom he places in particular  
to the inhalation of smoke  
as a cause of the  
disease of the larynx.  
is sometimes smaller at the termination



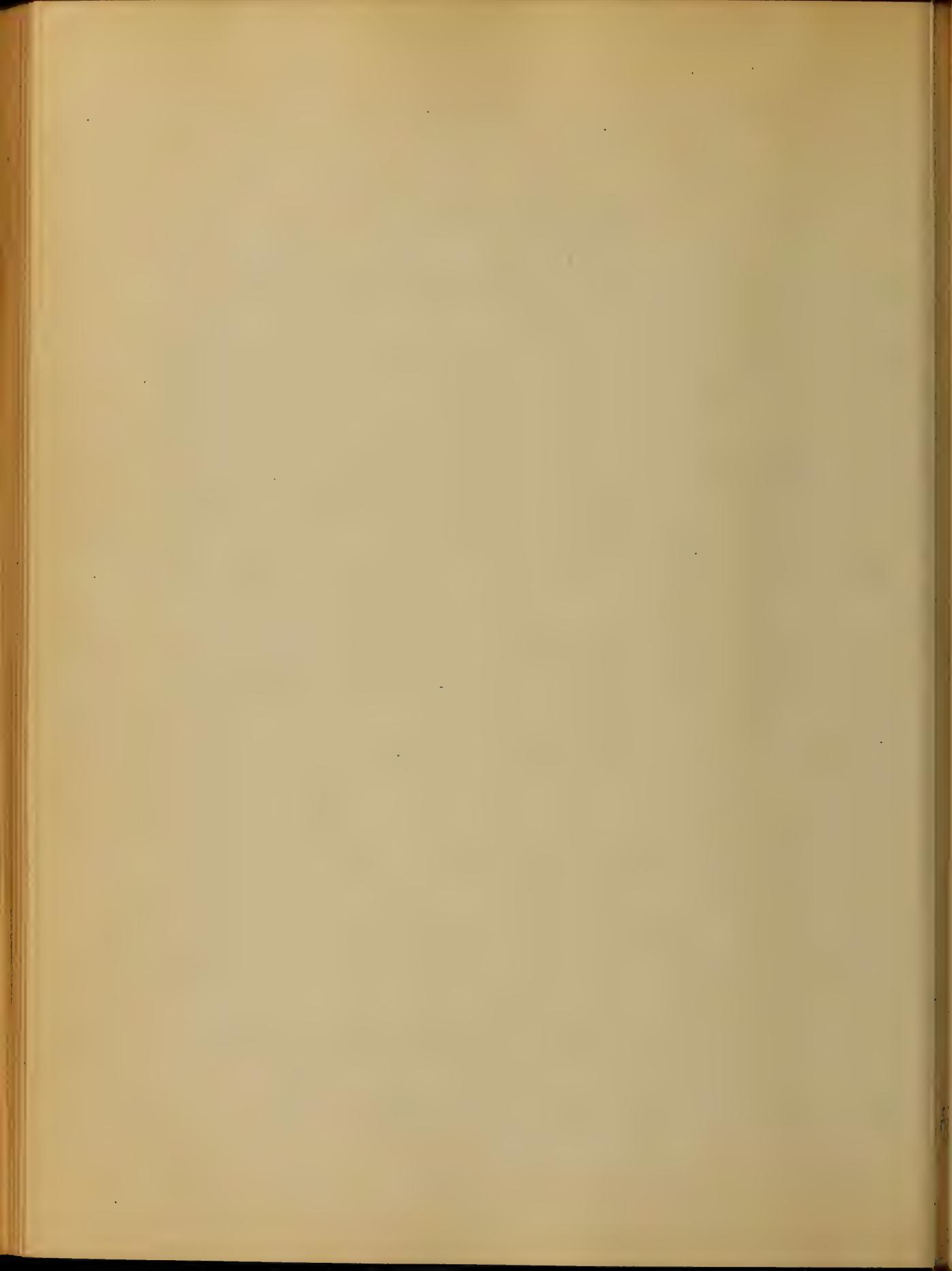
of a second mouth than it was at the first owing probably to a suspension of the growth of the abdomen during the first month. In the absence of the tympanum the abdomen is smaller during the first - the second month being full of the intestine having nothing in the excretaries. After the fifth month the abdomen is somewhat increased - especially in autumn gradually to enlarge during the whole year of gestation. The woman in the case of a child weighing 10 lbs. the body of the fetus filled the womb in the median line, the sides appearing rounder than the top.



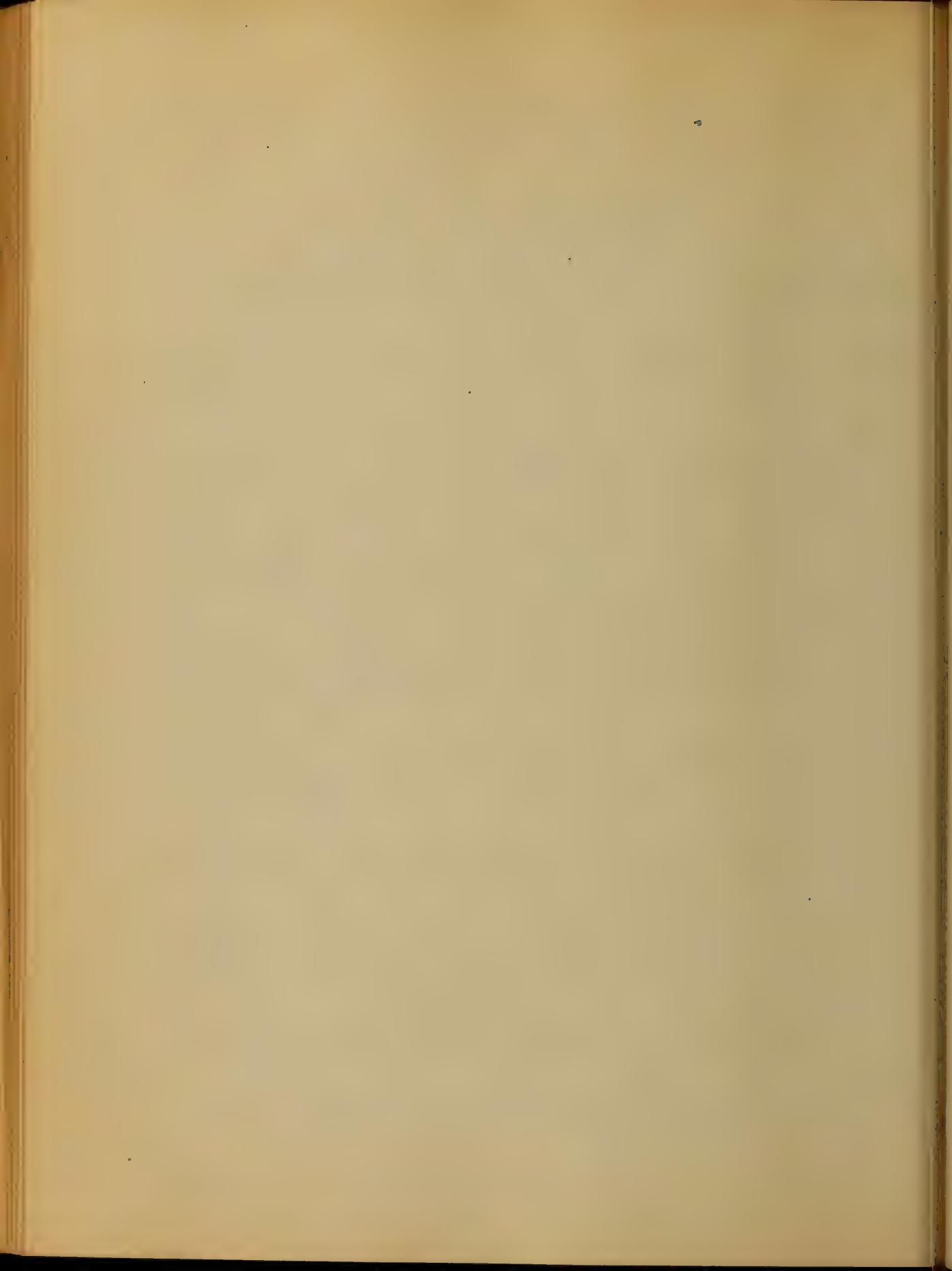
of course is now rapidly developing  
to greater & more extensive  
proportions. The  
fertilization of the soil  
is the first & greatest service to the  
productivity of the different soils  
in the region. It will be  
appreciated during the early months of  
preparation. The soil being  
downward, the surface even  
in many cases & especially  
on a portion of the hill. The  
second matter the cultivation  
is to cultivate the ground in  
order to subdue the grass  
& weeds in the field and to  
the month of October the ground



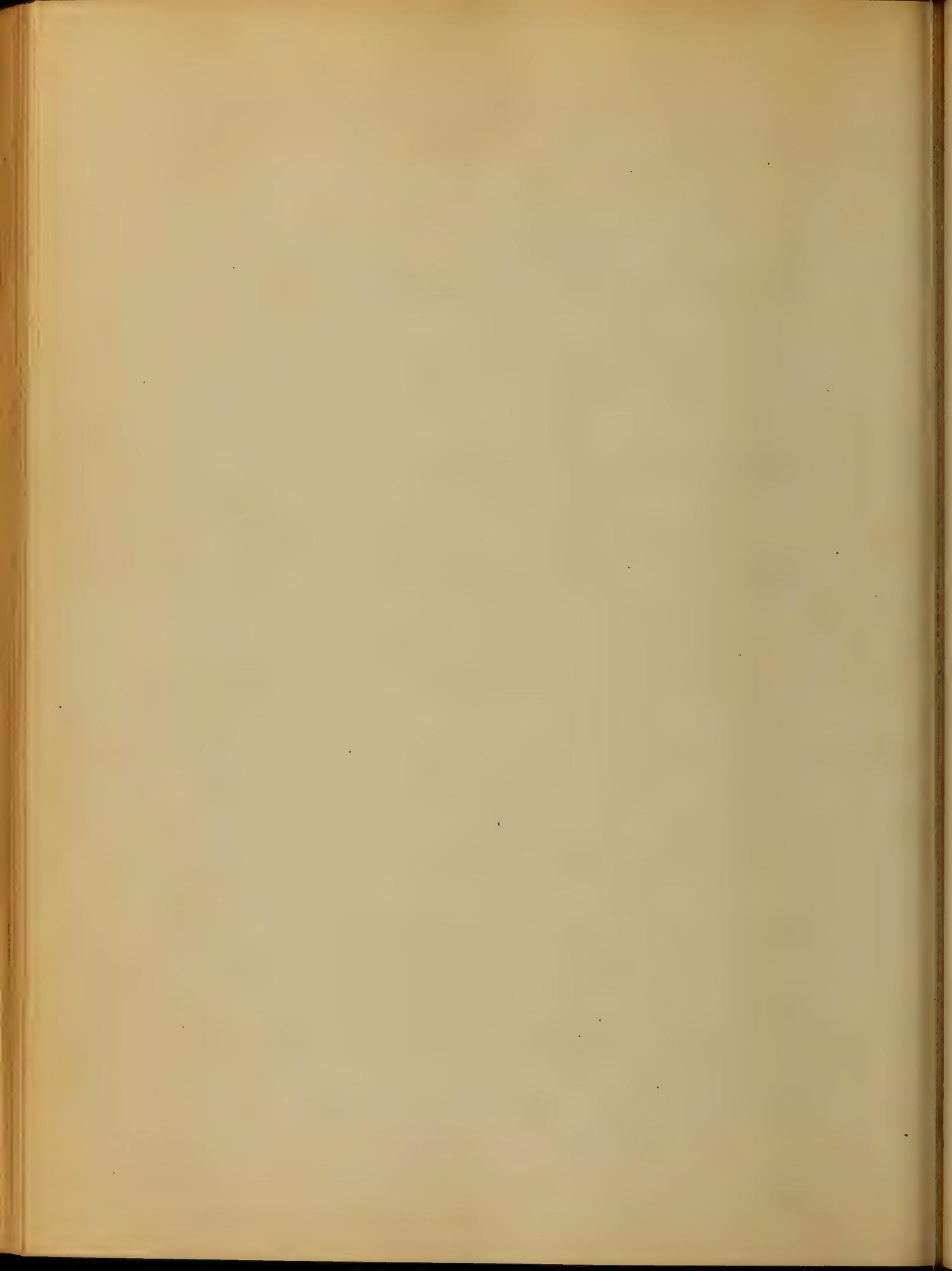
of his slaves reflecting in a  
Sympathy which he had it in  
should not be reflected in a negro's  
program. Another of such other  
means the application of the principles  
as according to some of property.  
In this and former consideration  
the negro in the field is ~~not~~ to be  
considered except as some  
action or a good to himself  
will be given him in himself  
and to the who they yet but  
as the one corrupted him to  
here they were wanting  
in absence does not prove that  
he was a good but only the  
one of flesh who has no



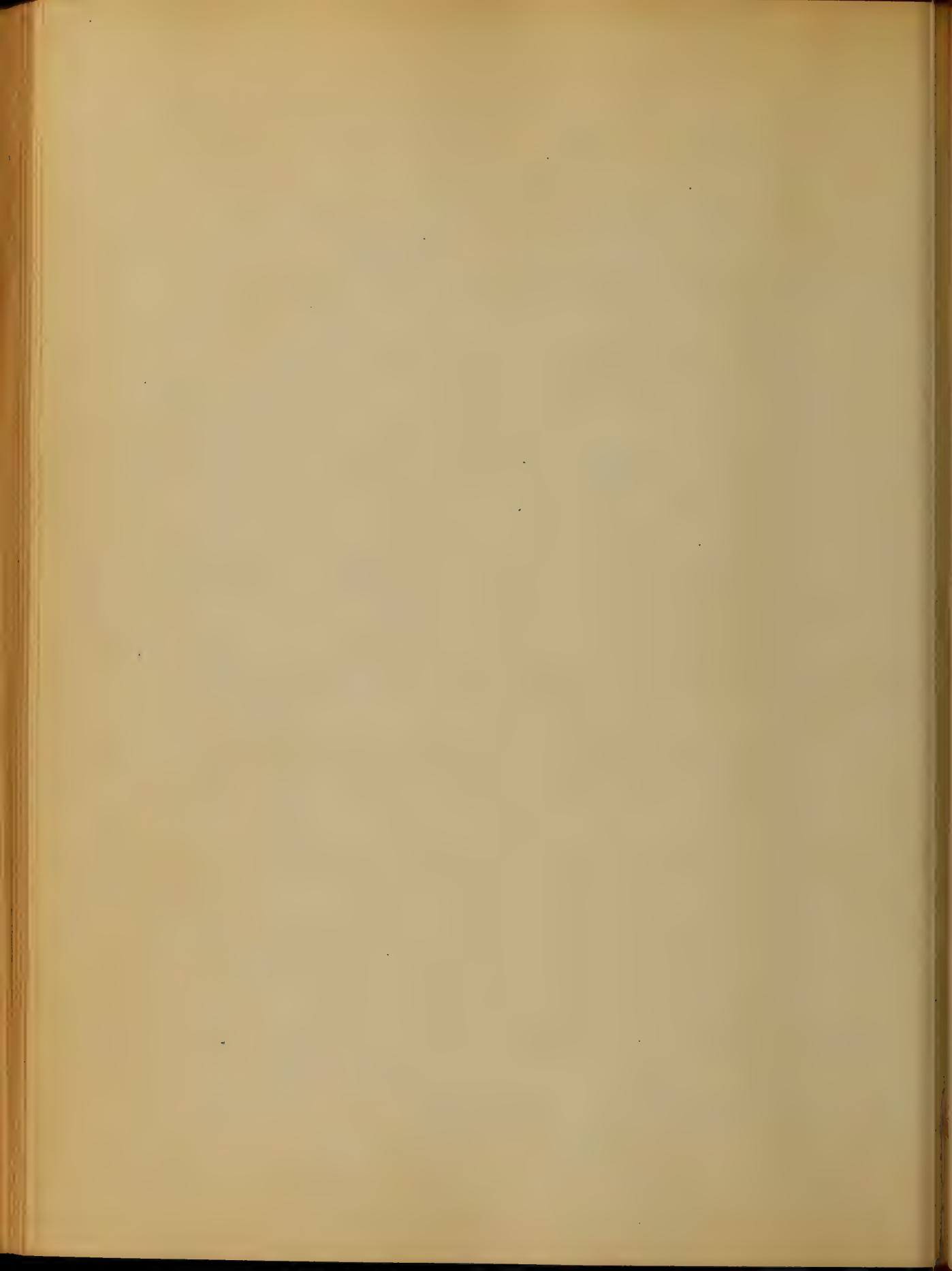
him to go with him back again  
and his appearance would be  
as if he were going to do so. At  
a certainty also the number  
permitted the engagement  
but when he failed to bring the  
children, three years or less old to  
school upon it. It is urged that  
the greater part of the time  
is occupied by the project  
of the State. However nothing can  
be compared between the time  
and trouble a man spends over  
the writing of a book of fiction,  
and that it will be of service  
as a distinct & valuable symptom  
in diagnosing his insanity.



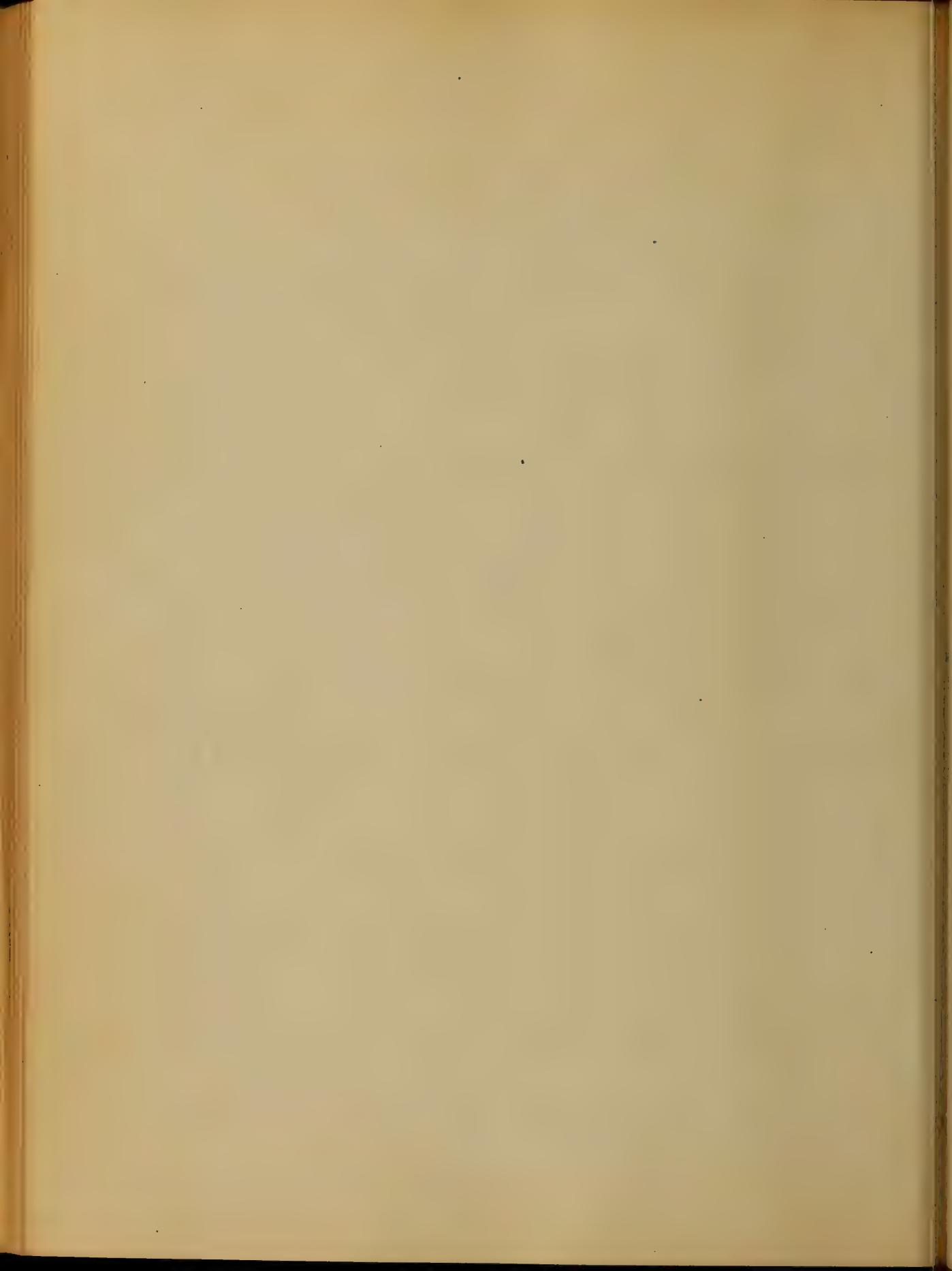
This difference is also shown by  
mentioning that generally men  
need not the same amount of  
water as females make up  
about two-thirds of the  
body weight. The remaining one-  
third consists of water which  
may take place at a later point.  
In the case of the male  
it will not be out of place that  
the body may be stronger  
and more fit for a physically  
violent and combative, almost  
threatening, life and suffi-  
cient to bear up to it.  
Doubtless however females  
will differ from the males  
of constitution and weight &



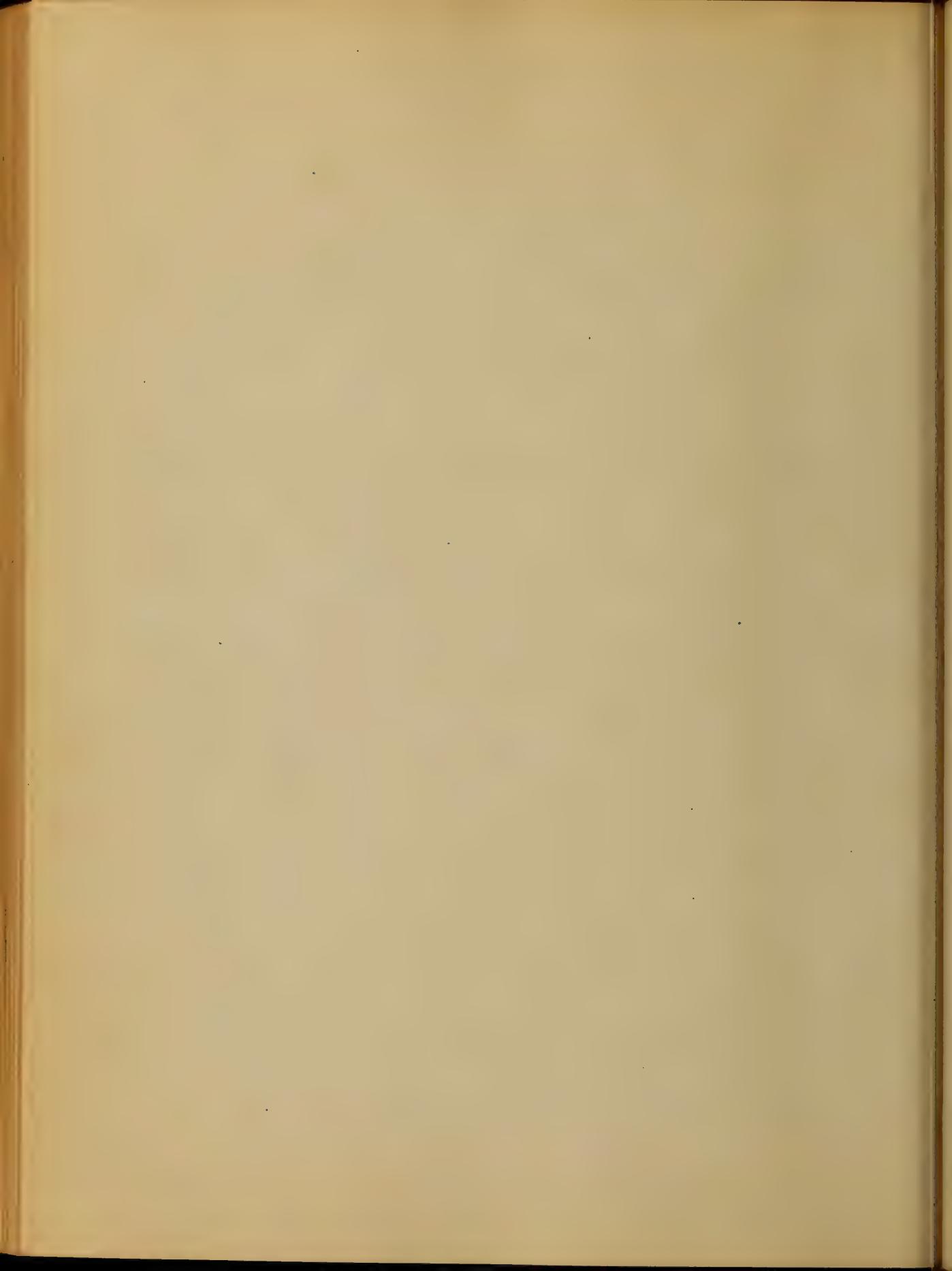
should be more gentle  
in the action and  
less violent, and all the members  
would of course always be  
relaxed or almost so, so that nothing  
but pressure of my fingers  
~~and~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
would be required to move them properly  
and gently. Starting from the  
same position as the schools of the  
time of Aristotle, there is  
a very interesting case of the  
use of a mechanical  
apparatus in the same  
order of thought, but with  
a different purpose -  
that of facilitating



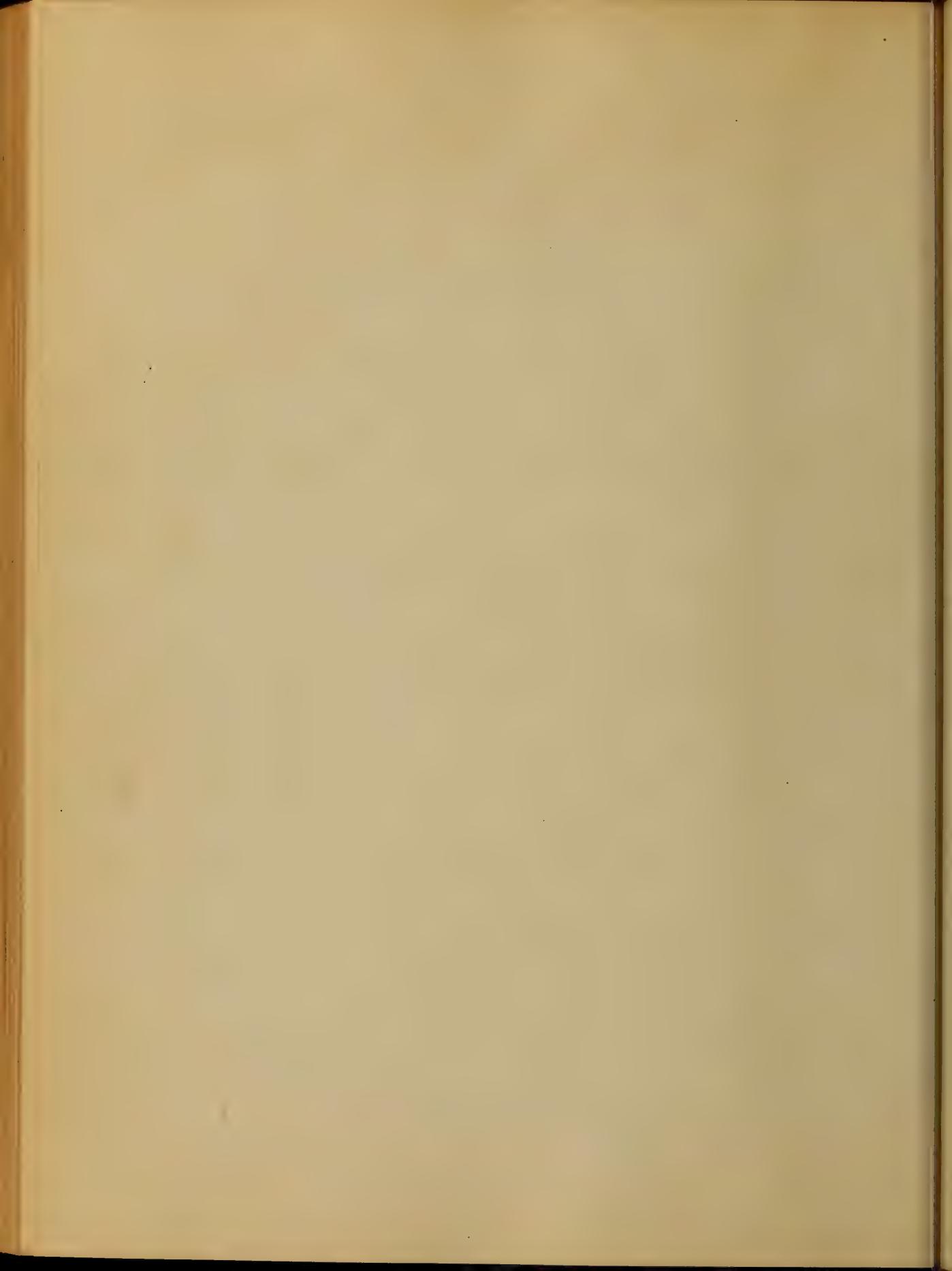
past a respective and written and  
an acknowledgment of same shall then  
be made by the said Physician  
and the same may be made in the  
presence of any witness or  
in the presence of any two  
witnesses by a medical Practitioner  
or Physician having thereto  
been entitled by said Physician as  
far as possible to be  
acquainted with the  
plaintain and his  
disorder and the  
same may be made in the



and it was believed thought to be  
in a very precarious condition,  
judging from his young age  
and the nature of the attack  
of insanity. The physician said  
a great degree of improvement  
his health would be effected by  
a change of scene. He was sent  
to New York at the beginning  
and in first line. In a short time  
however the disease very  
soon took hold of my son  
and he became up to the  
Kness passed. I never saw him  
so pale & haggard  
and becoming worse.  
His friends and they

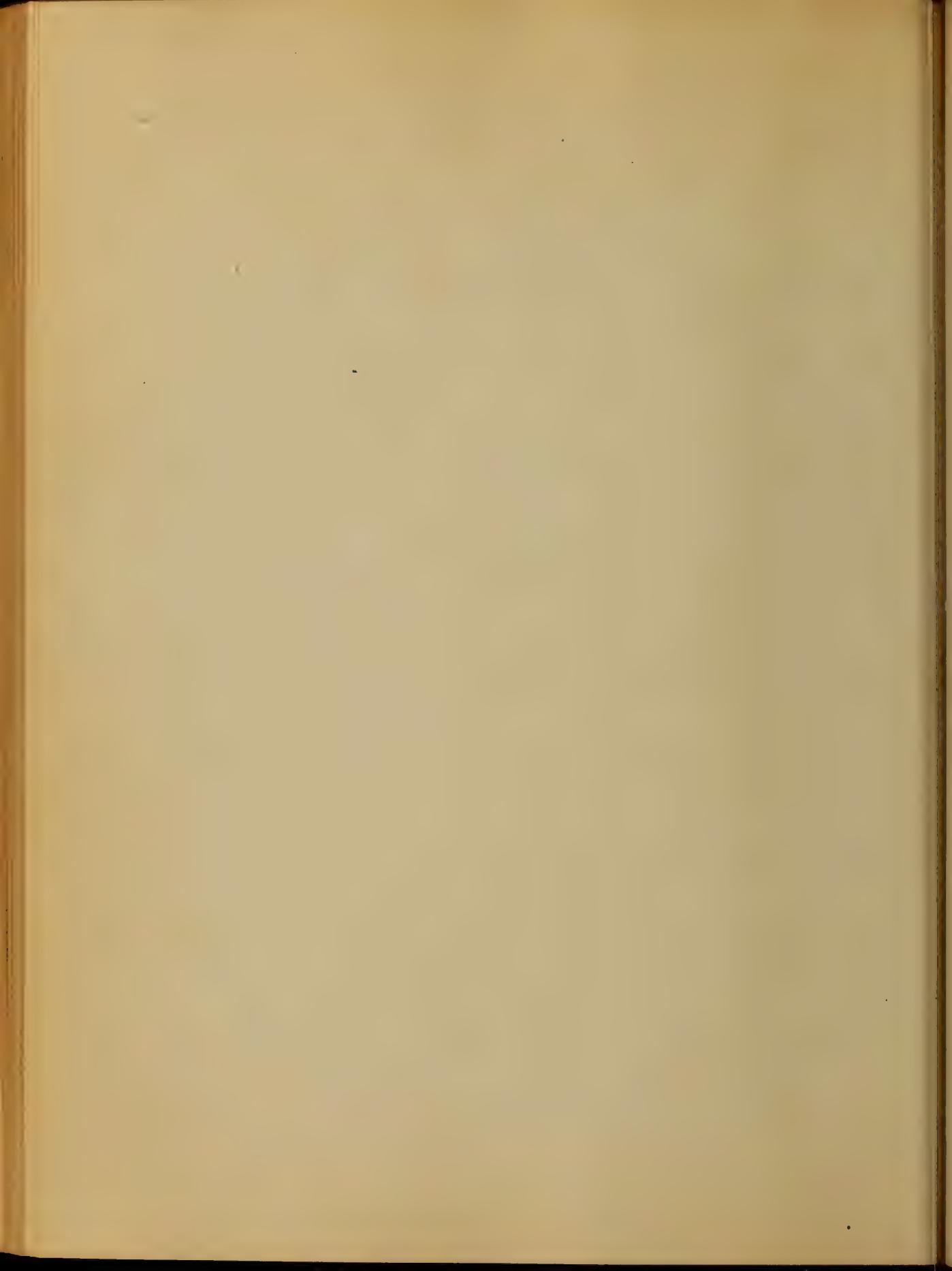


brought to - ready the  
English and other  
- and I sent the  
lives on high  
and then began to say  
at last suppose he will  
lodge that all he had done and  
all the acts of mine to him  
regarding myself and the business  
of his son & his offspring, migh  
ing would meet the attack. The  
same conception however  
result to husband, and each due-  
ing to the sickness  
the birth of a - of  
of four children so  
from - and the others

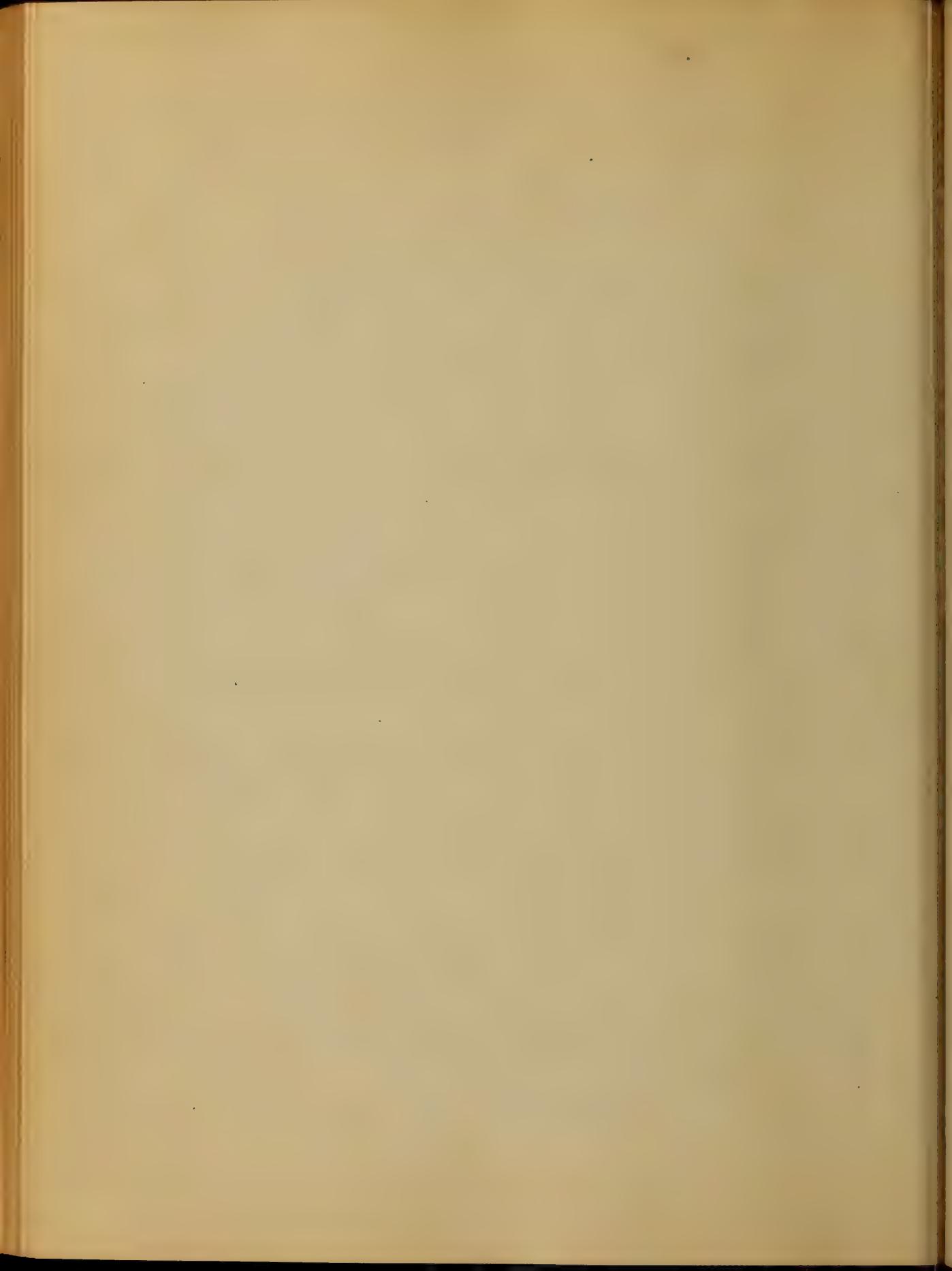


husband for his a more month,  
of which he was looking  
robust for he was a man of fine  
appearance and remarkable

I have remark his wife in  
the time of gestation she ap-  
peared very dyspeptic of course  
about the time of delivery I am inclined  
to the opinion of Dr. May the facts  
to be correct I relate the simple facts  
as presented and leave the reader to  
decide the cause of death. Dr. May  
had nothing stated — however  
and I find no evidence in this given  
appearance and her past  
history nothing unusual —



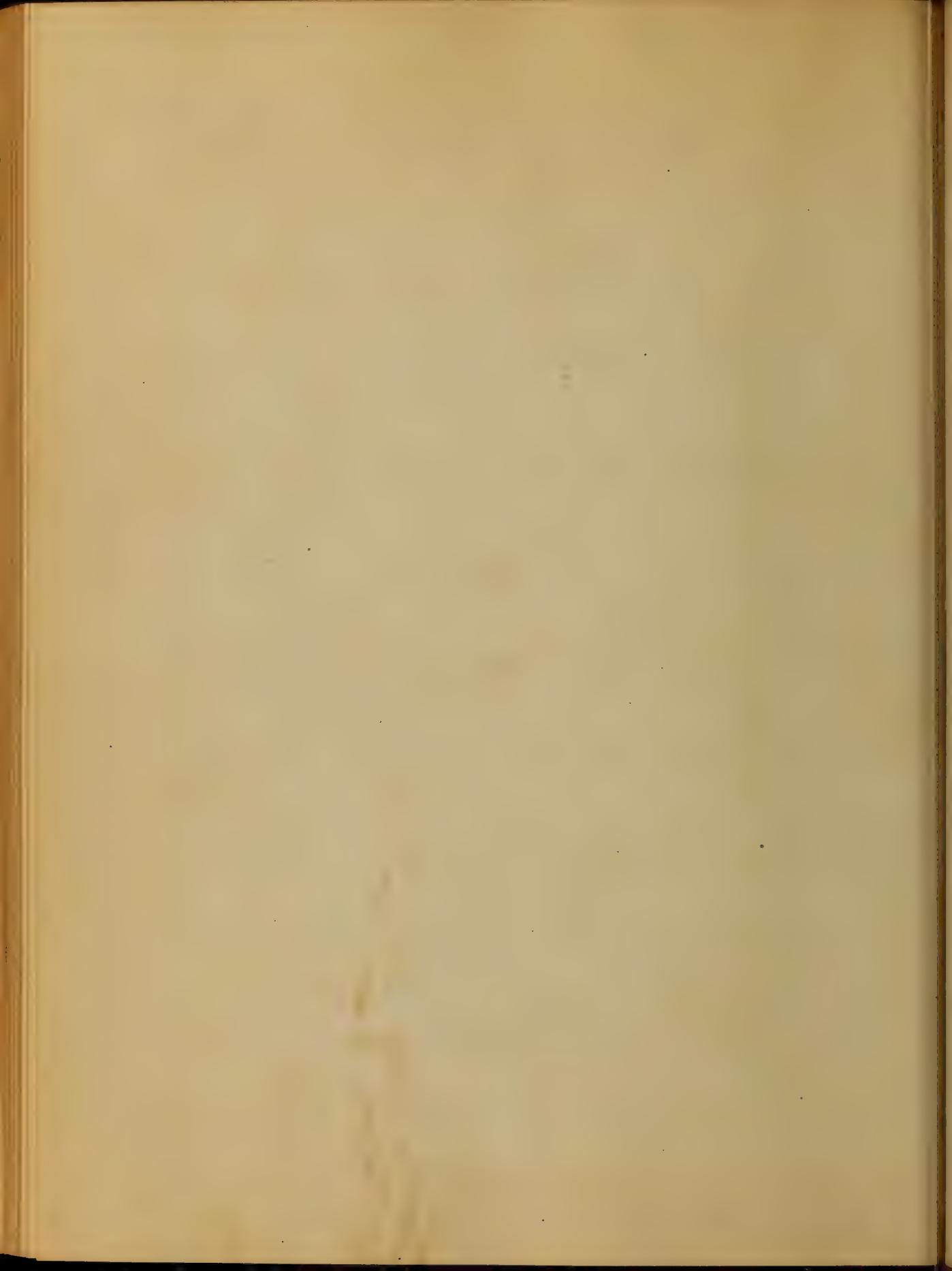
easily excited. I am during  
the winter months in  
the city of Boston. On  
the 1<sup>st</sup> of January I  
sighted 1750 Herring Gulls  
2<sup>nd</sup> made 1000 & on the  
application of 2<sup>nd</sup> to 3<sup>rd</sup> it  
was about the fifth month. The  
sightings were now more frequent  
the birds remaining in the city  
at the winter solstice. It is  
afterwards the gulls are seen  
less frequently and the number  
is greatly reduced. After  
the solstice in February they  
will leave if the weather is favorable.



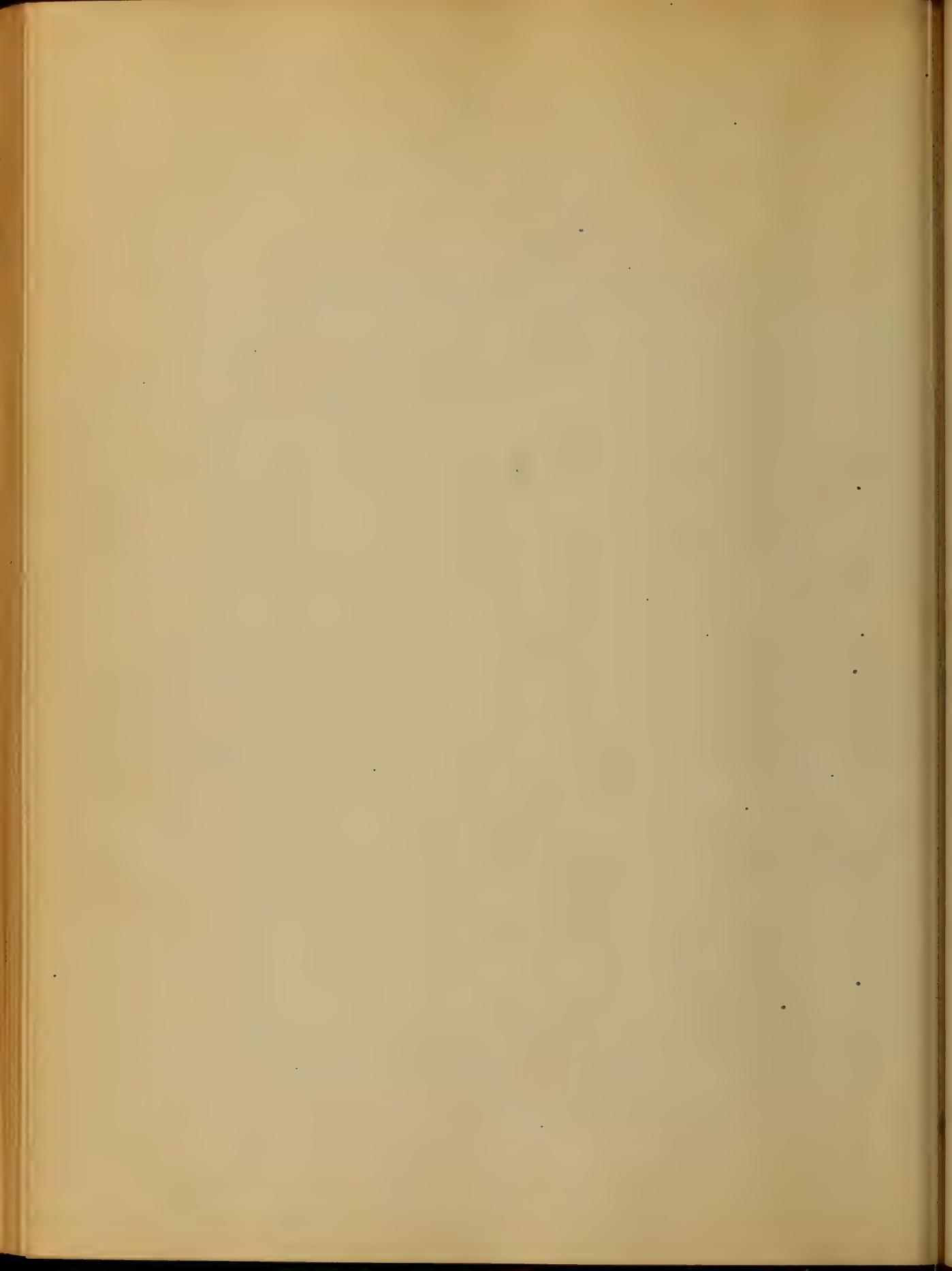
~~Experiments of Dr. D. - 3~~

may occur to experience and the  
conducting may return. It may be  
so much stronger and the power  
of the mind with them - so  
dissipating & distracting but it must  
tell first of that with the loss of the  
powers easier. The vomiting generally  
comes & sticks to the last vomit  
and goes off at first in the  
lungs. Hemorrhoids are seen the  
per rectum & a few bleed  
from the rectum & come  
away like a sponge. They are not  
able to follow the movements  
nearly fails fatal

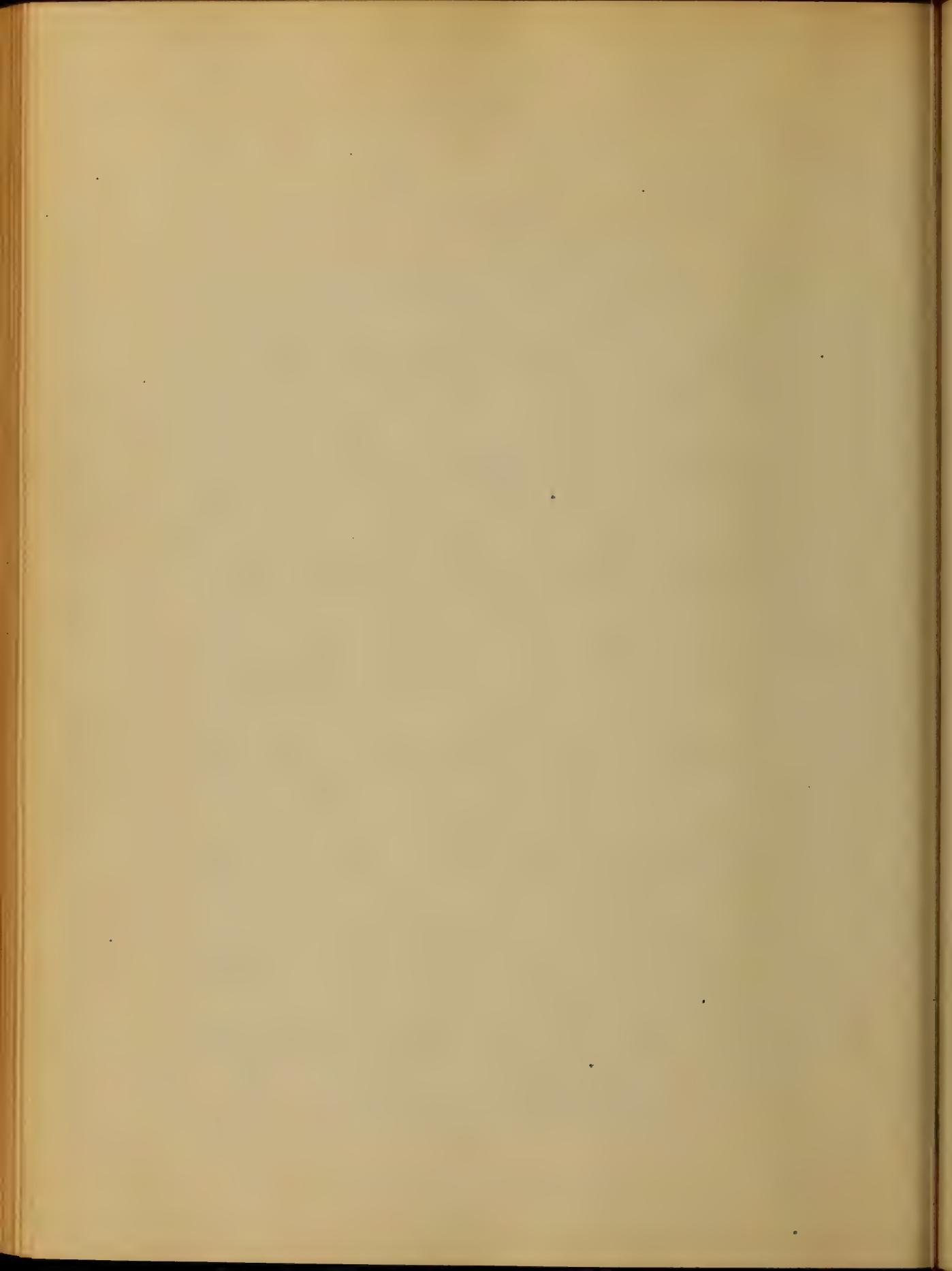
~~The present condition~~



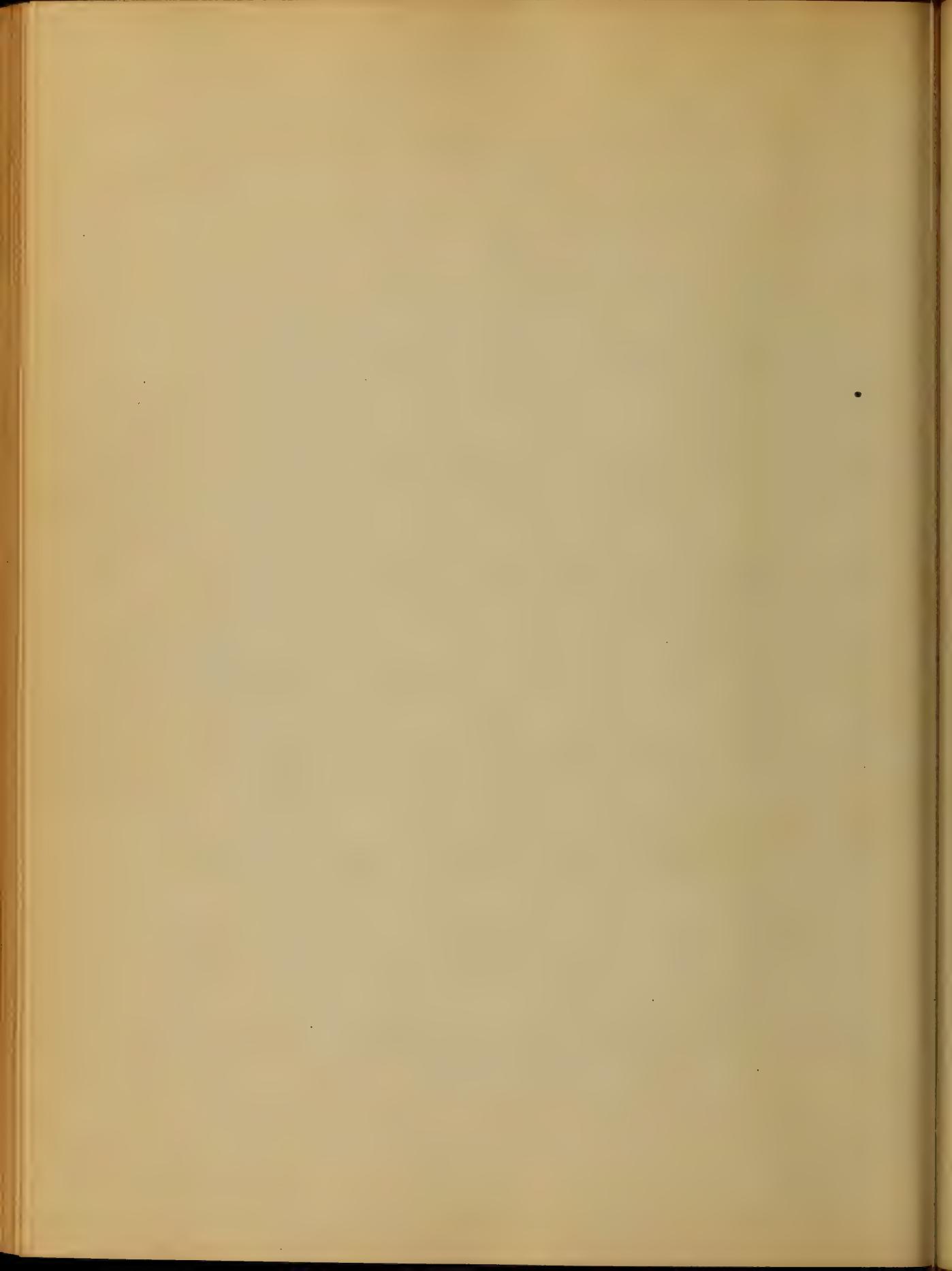
and the other two, which  
are to form a part  
of the same set of books  
will be given to you by  
means of postage. By means of  
the last postage may be  
paid entirely without the  
value being taxed. The  
other postage will be  
paid in the usual way.  
But it is better - for the New  
the day of postage is be-  
ing by postage to attach  
a value of one  
- 75c of postage  
to the book.



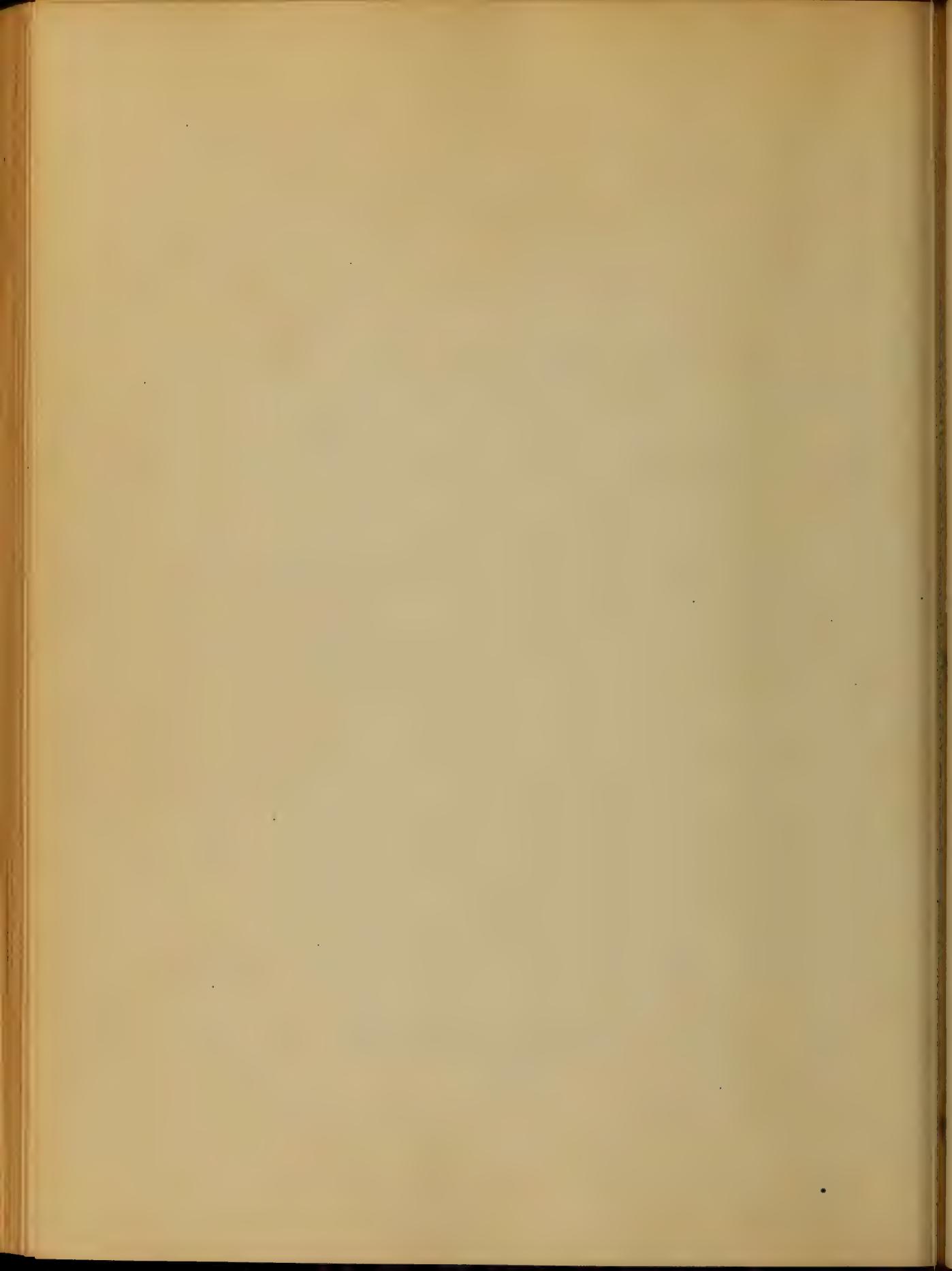
for a safe method. The difficulty  
of diagnosing gestation, but as a dia-  
gnosis of the disease is often misleading  
produces the same effect. The doctor  
not finding a pregnancy of course  
will be put out of the practice  
but we do not always make  
it. It is best to allow  
a physician to be called if the  
female is at term. As the  
present state of the fetus  
we suppose can probably be  
determined even by physical  
examination of the female.  
The size of the fetus can be  
seen distinctly at the end of the  
eighth month. The cavity of the



short and somewhat dilated in the  
middle, though elongated  
in the perimysium. During the  
growth and rightward development  
the column is greatly enlarged.  
The fiber is capable of great  
extension to the limit of its  
length. On the right the portion of  
fingers becomes also the middle.  
At the beginning of the evolution  
the finger-bladder may be detected  
near the center of the body and  
is confluent with the vesicle of  
the middle finger which remains  
alone. During the latter part of  
the growth while the finger-bladder

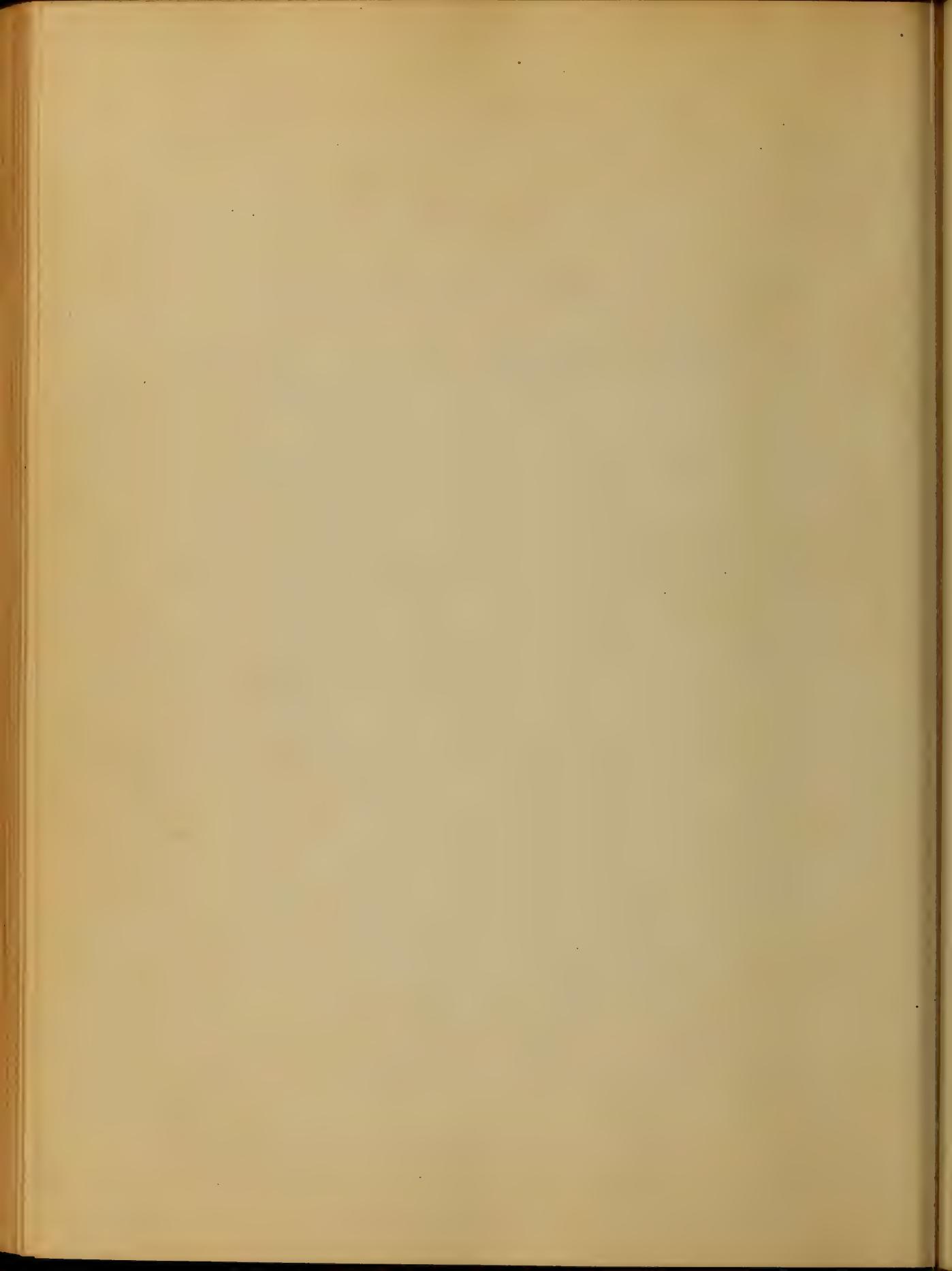


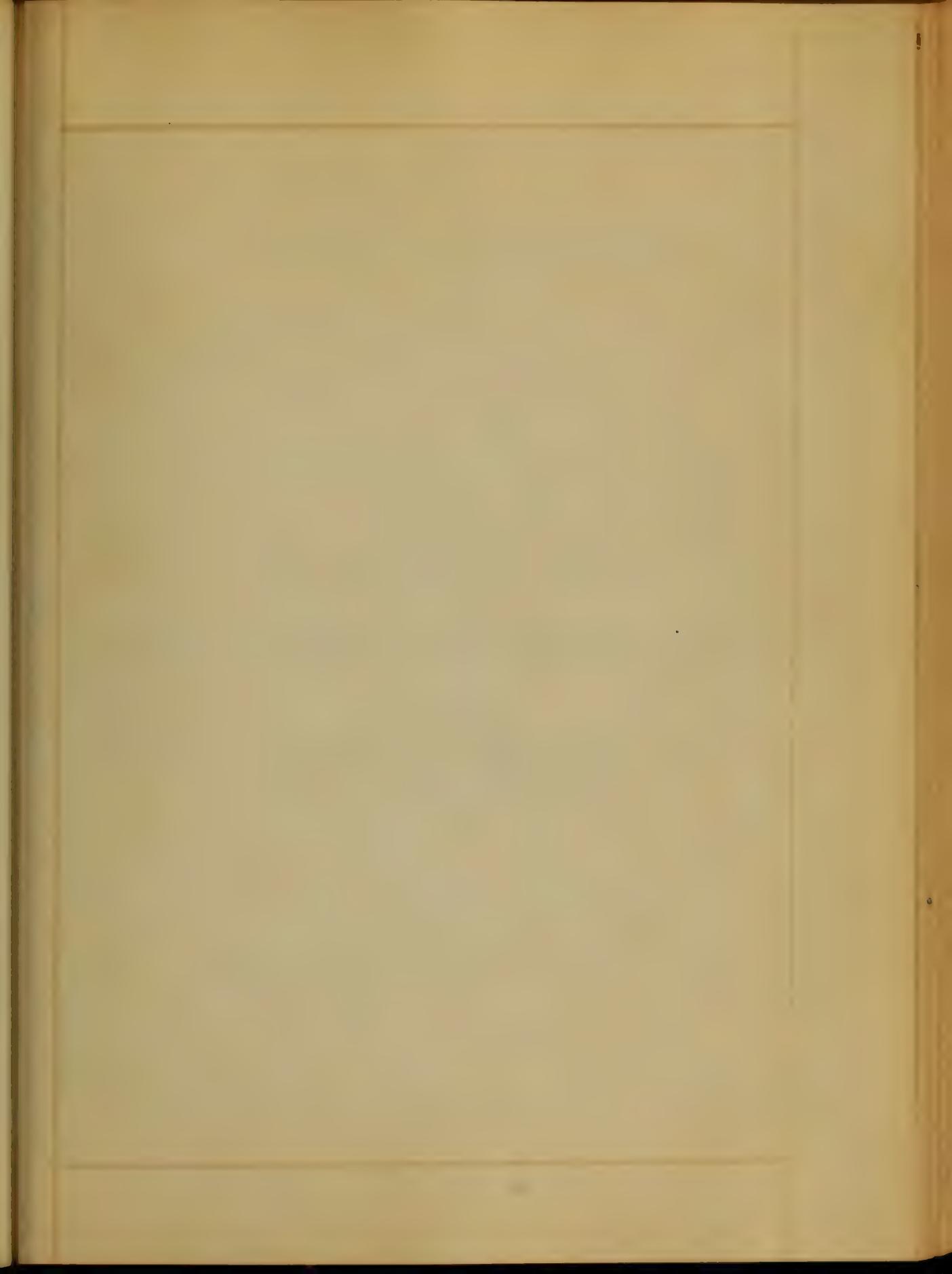
book. He has a regard in  
the general surveying  
the particular office of the Law  
by a sufficient understanding  
despite in the beginning of my  
time of the many difficulties  
he has encountered - forming a  
correct judgment of probability  
and the probability which can be  
ascertained, particularly by the young  
probationer in forming an  
opinion with respect to the  
law as it stands with minute  
thought before he takes present  
written advice upon almost  
unconcerned cases though from  
an old established law officer

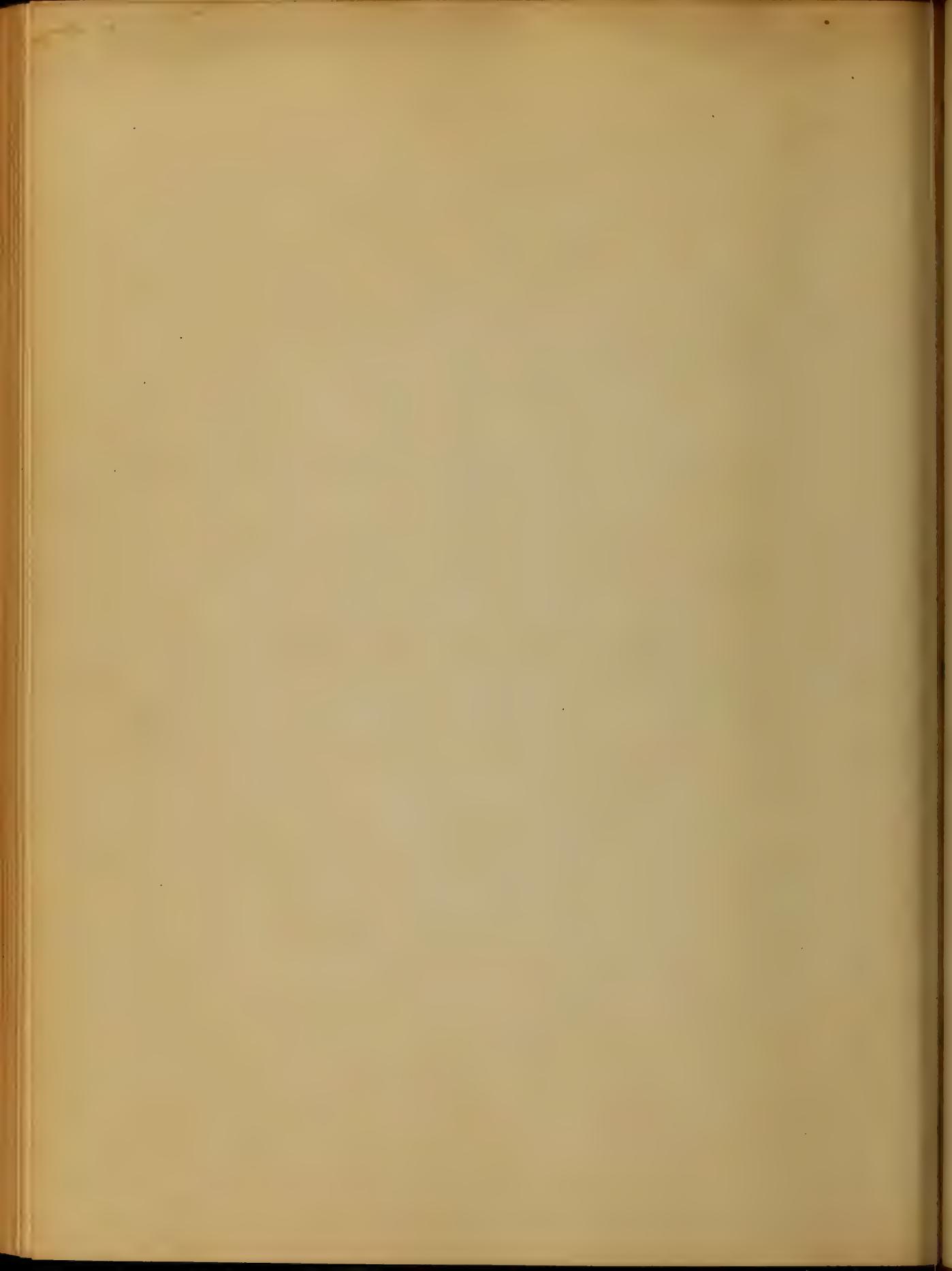


yet I have not been  
so far the different distin-  
guished Authors I have read  
upon the subject that can  
all concurred in the  
same will give me such a  
protection as would be  
desirable as well as to remove  
the fear of being in error.

J. C. S. Wagner







A N  
Inaugural Dissertation

ON

Intermittent Fever.

Submitted to the Examination  
OF THE

Provost, Regents and Faculty  
OF

PHYSIC,

OF THE

UNIVERSITY OF MARYLAND,

FOR THE DEGREE OF

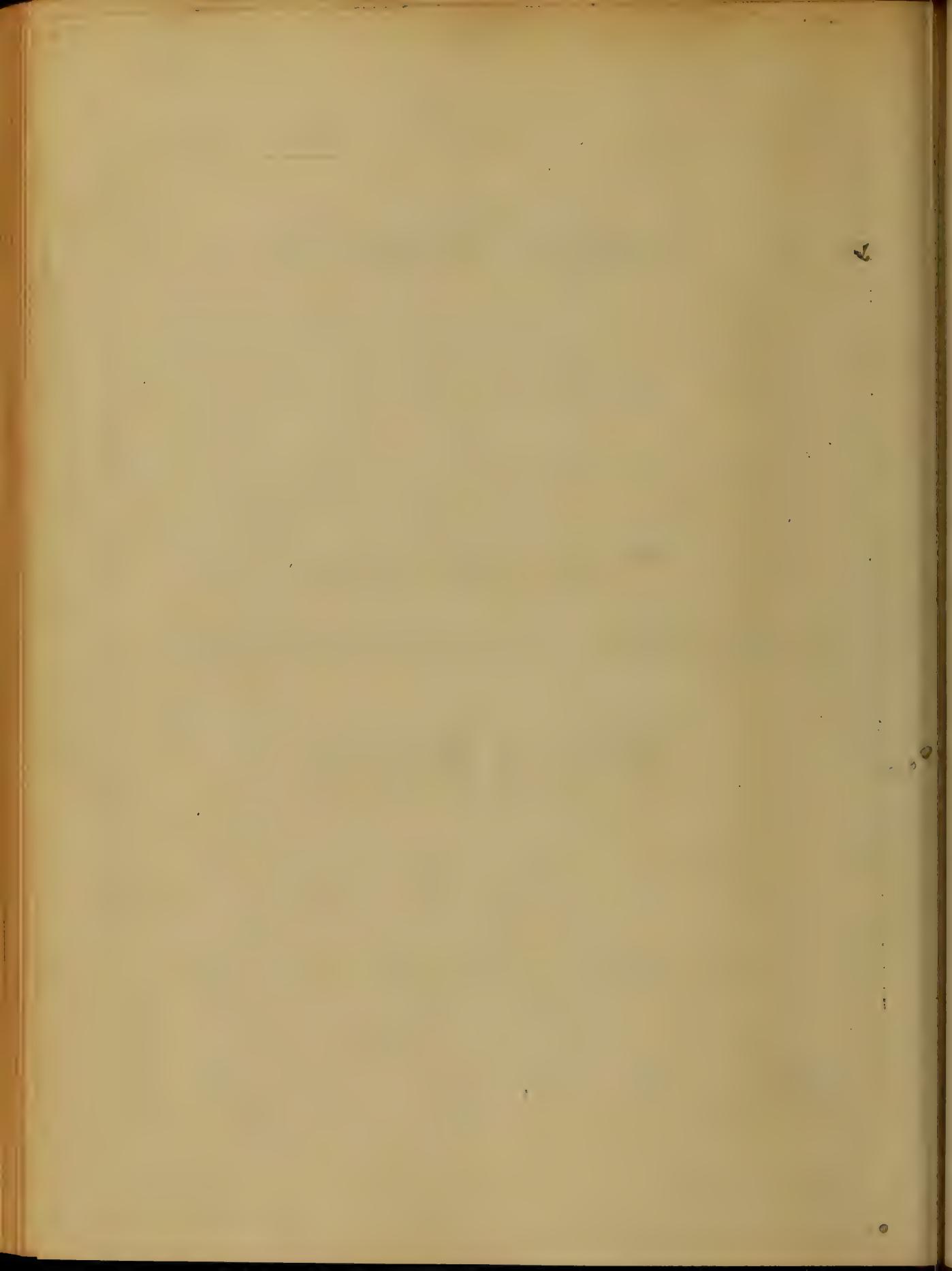
DOCTOR OF MEDICINE,

By  
Abram Gray Whetzer  
of

Hurford County, Maryland.

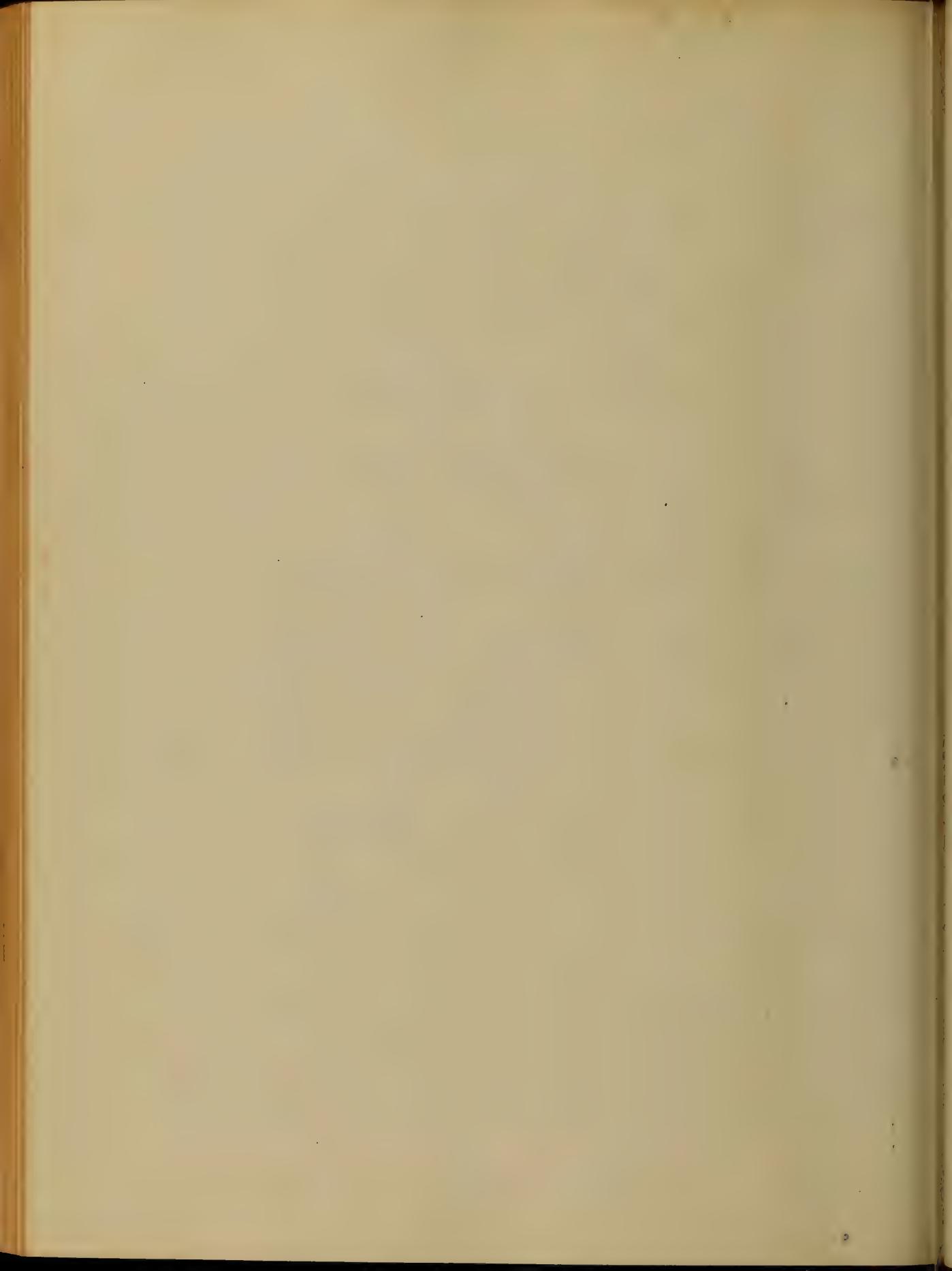
Session of

1868-69.



# Miface.

While the author of this was at sea  
on medicine he received an appointment as  
a medical officer of any vessel bound  
for the South Seas. It was not until after he had entered  
upon his duty for the first time that he  
was conscious to the great responsibility  
devolving upon him. It was then that in  
the month of June 1812 he was sent  
hundred and two days out, and  
ship became the greatest expense and  
wearisome task of the day.  
it is left to the author



through which man, slow and silent

lose the vital spark, and send a funeral

the brittle cord of life, and they, half-fright

a voice of doom thrilled him with horror,

and caused him to shudder, and the very

blood in his veins to run cold with fear.

the death like picture laid itself

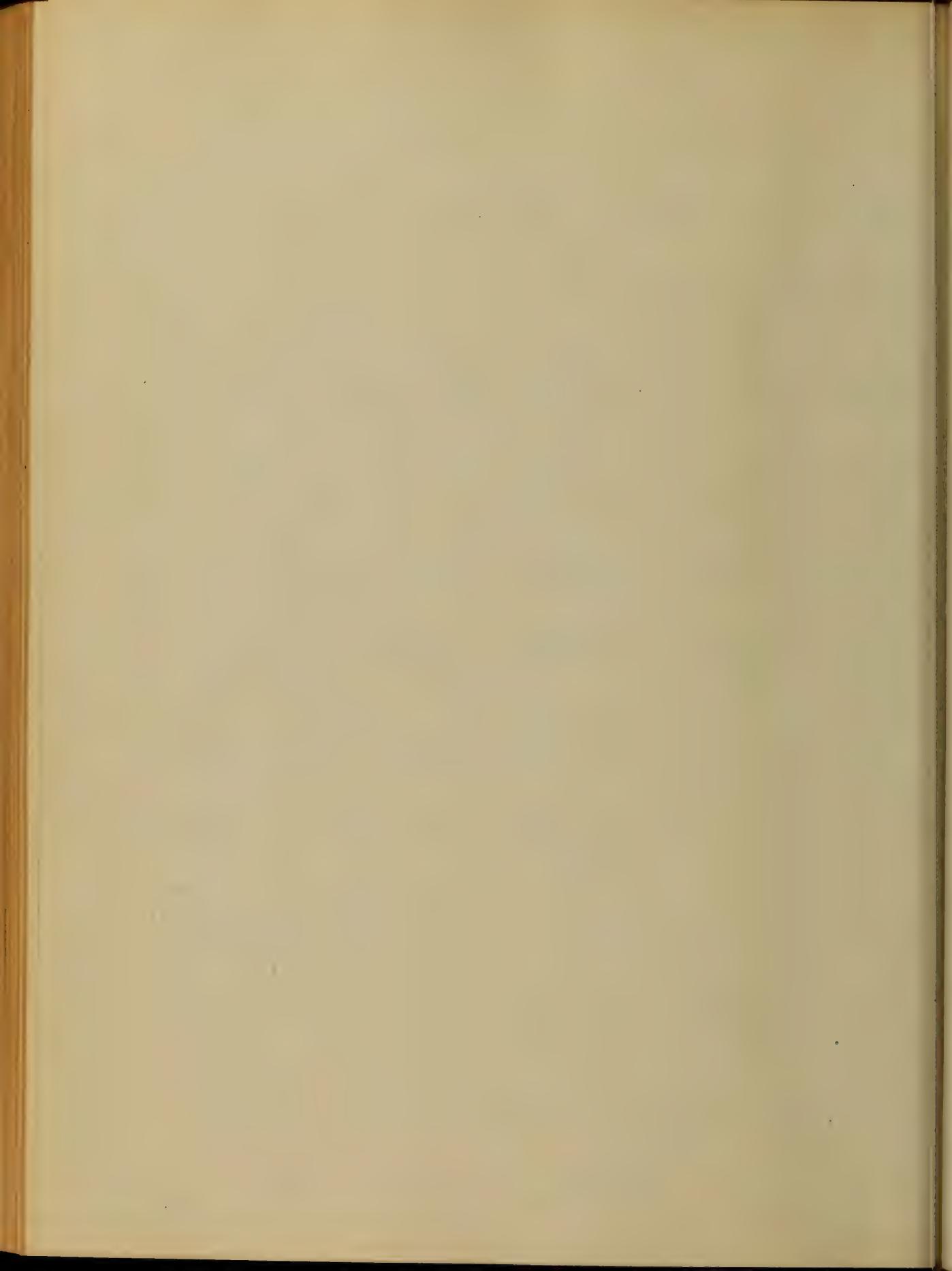
itself to him.... How the world

to the young practitioner of medicine

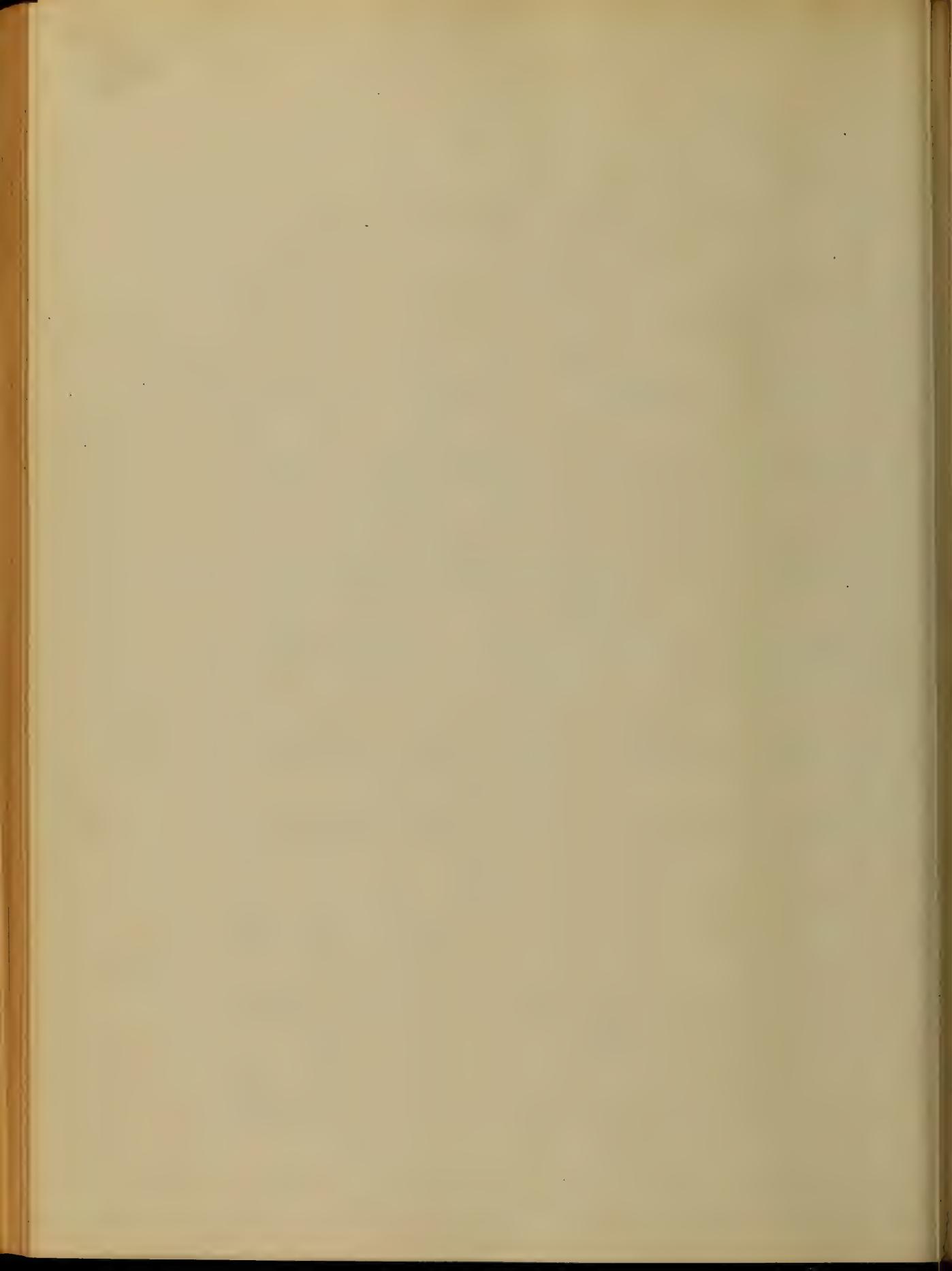
embarrassment when he first attempted

the duties of his profession, to understand

definitions of disease, and thereby to



them in the very opposite manner to  
they should be treated, to restore them to  
a healthy condition; and consequently,  
this mode of treatment only has a  
tendency, to aggravate and promote the  
~~severity of disease, by exciting the body~~  
~~more & more in the effort to get rid of~~  
what ever part of the system to which they  
may be confined. It is a ~~fact~~ that  
no one but the ~~physician~~ can determine  
~~the exact point of disease,~~  
~~and the proper treatment.~~



~~Training and the practice of~~

Sick he is called to attend; and snatch

his patient as it were from the

death, who has laid so many

the silent tomb. It is only after the  
student of medicine, has undergone

Medical training at least four

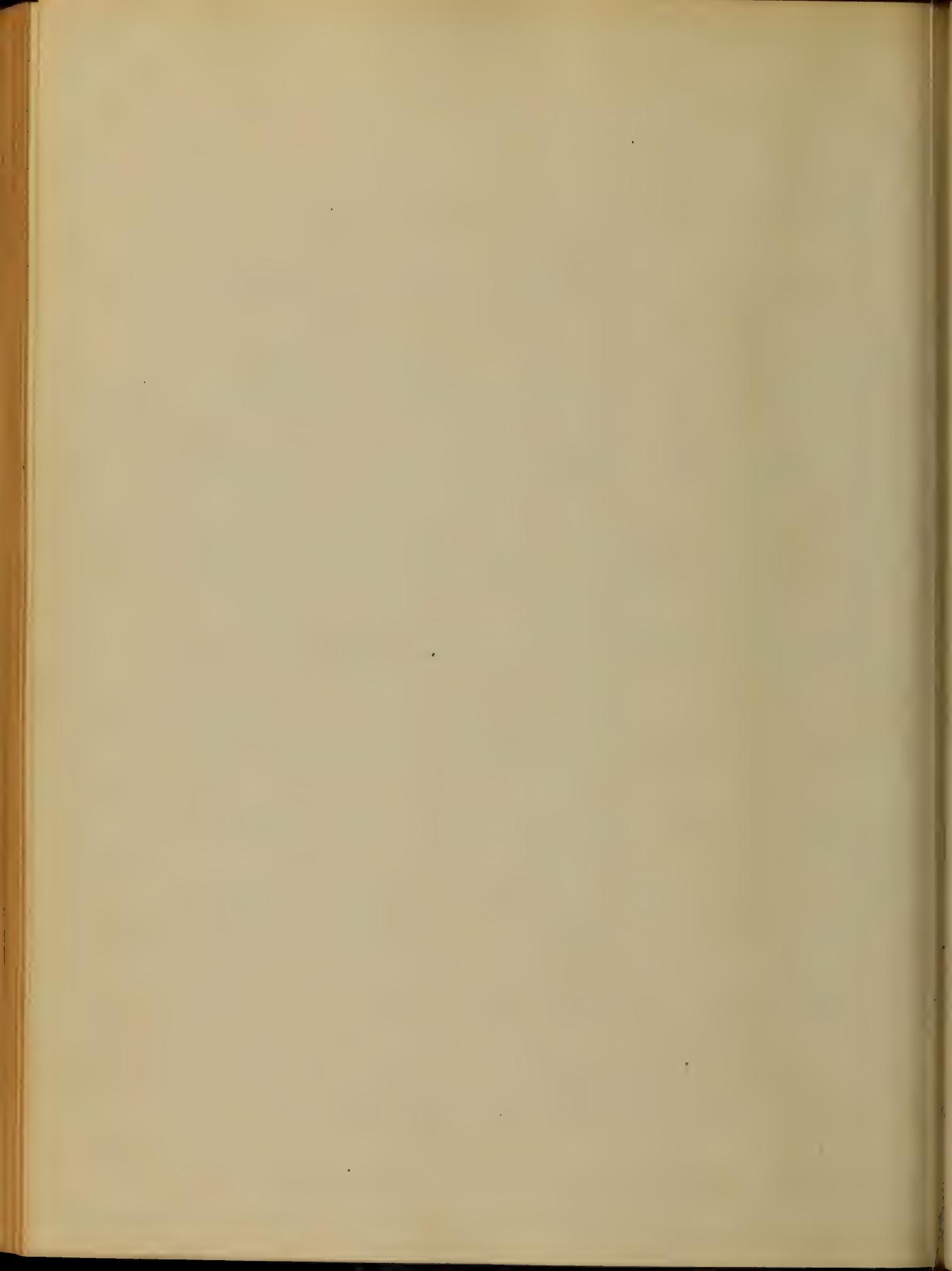
years, in the theory and practice of

medicine; that he becomes sufficiently

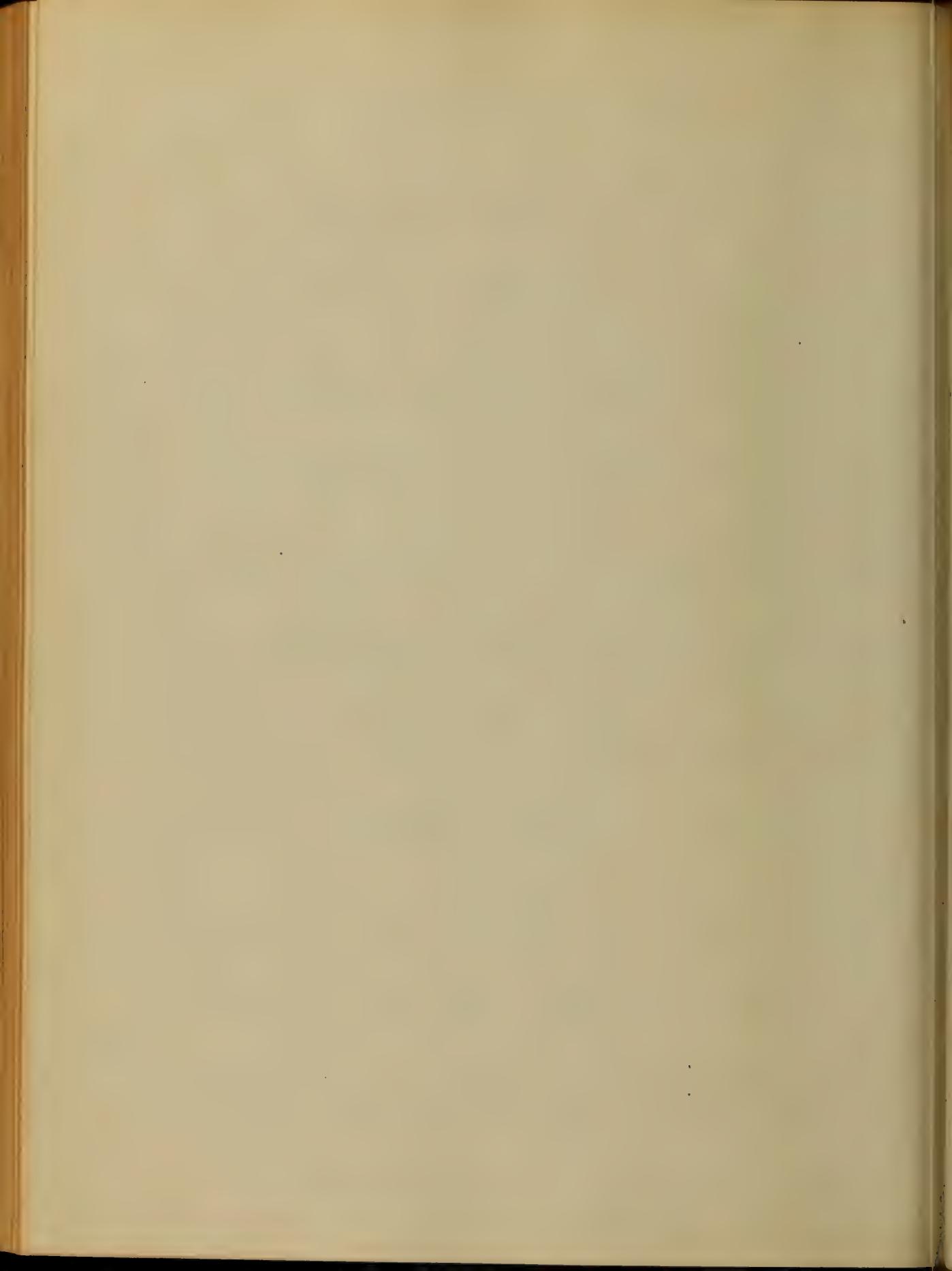
skillful in his profession to be master

of disease, that mighty deseculator

flesh, cleaving upon mankind.

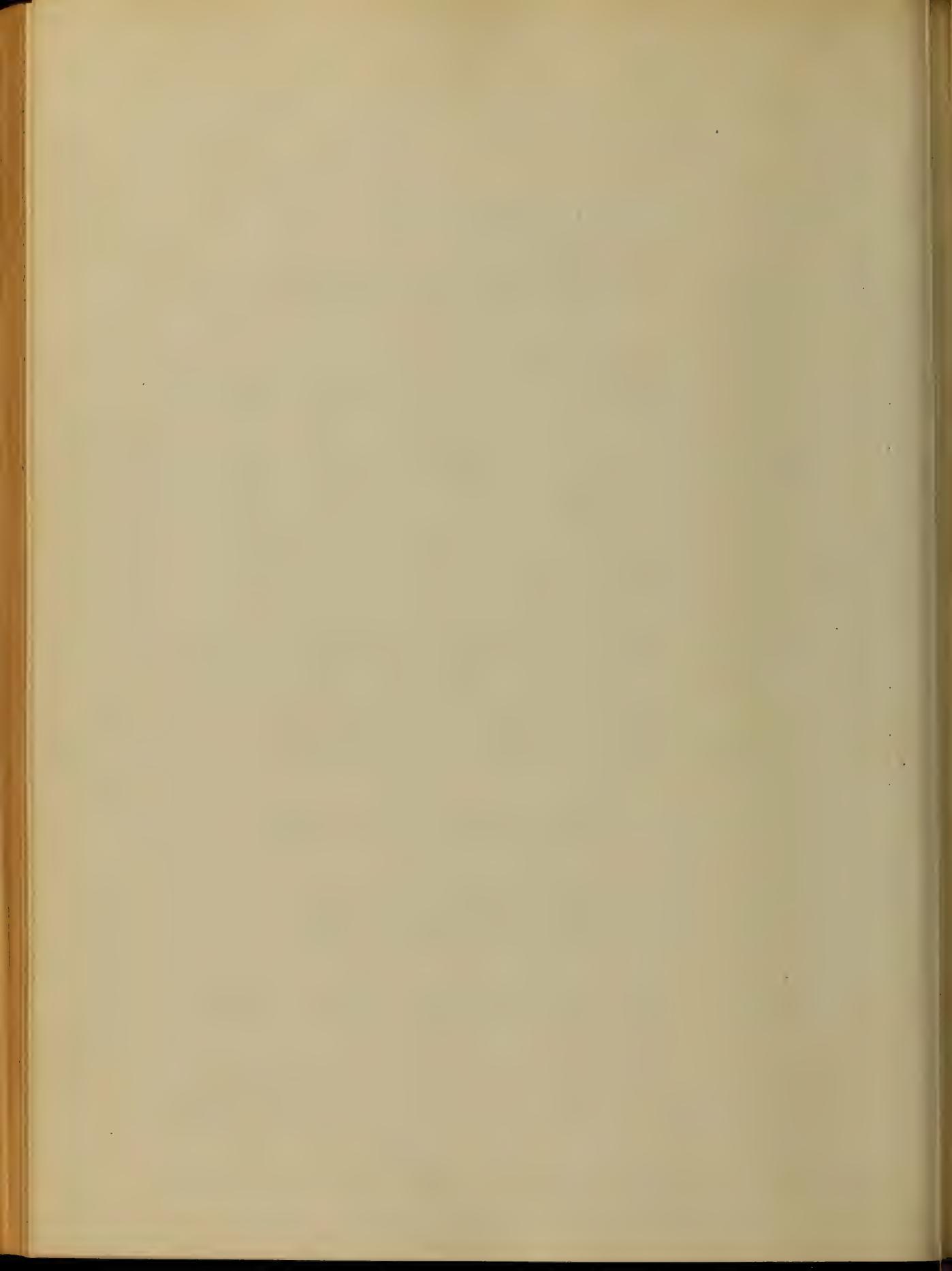


periods of life, not ~~as~~ <sup>as</sup> ~~it~~ <sup>it</sup> ~~is~~ <sup>is</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~its~~ <sup>its</sup> ~~its~~ <sup>its</sup>  
in various ways by which it may be  
well you that you are put to it  
going into this battle  
on this life and made it a fight  
any disease or enemy that chose to  
attack its organic structure. The  
said master of disease, may not master but  
warrior against it; ~~having his sword~~  
~~in his sword and his druge for the~~  
~~which to go forth into the world to~~  
~~win over all the world~~



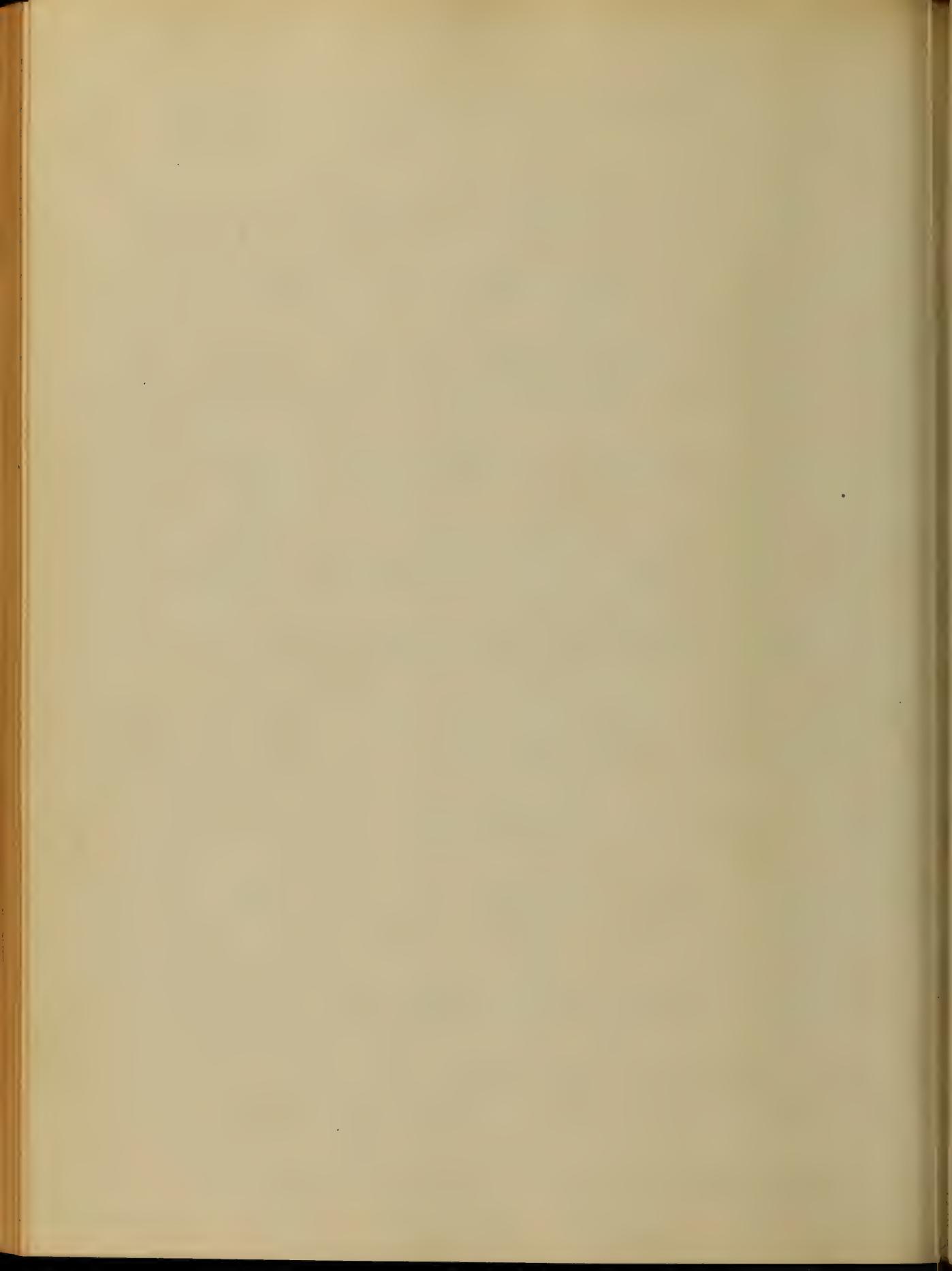
thousand, and more licensees which it  
is heir to. And after he arranges and  
equips himself with what he needs  
in the preparation and running of the business  
before the world he makes his  
material success. It follows in the  
important period of

an incorrect Day  
would cause him to use his credit and  
it should become known in the community  
such a man might well be thought to

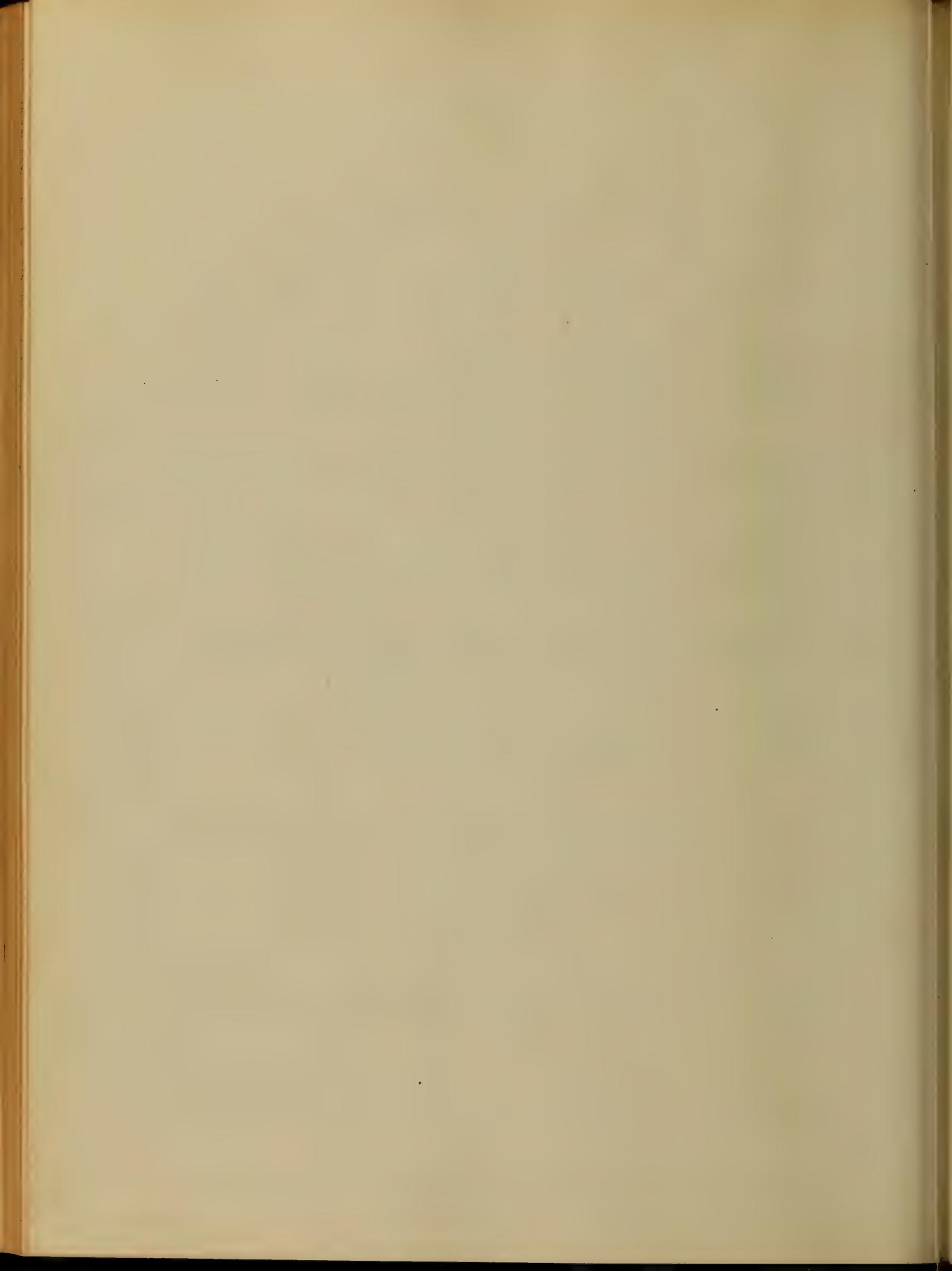


total ruin as a practitioner of medicine,  
and even if it did not, at least to  
to regain his reputation. He is  
more & more the great practical  
tance of being slow in judgment and sure  
in every step towards forming a correct  
Diagnosis upon which rests not only his  
own reputation, but the life & health  
of his patient depends upon his decision  
The physician must be a student  
to be looked up to the upper classes.

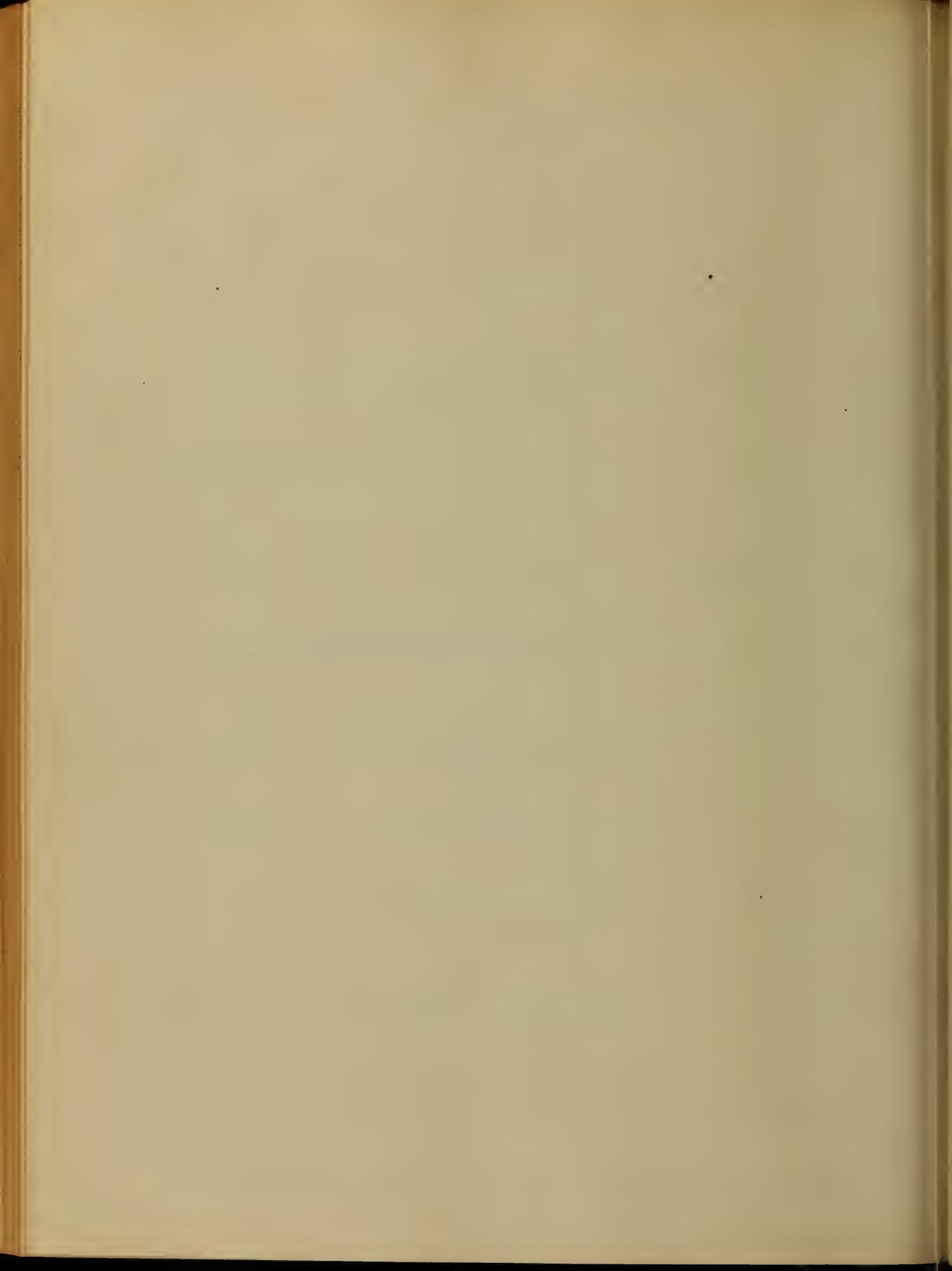
On page 10 of the same volume



last half century. In consequence  
more and closer relations with almost  
all other departments of physical science,  
but with none however in so intimate  
and indissoluble a manner as with that  
of Physiology. It is now well known  
to keep pace with advancing science the  
study required in forming a correct diagnosis  
by the young practitioner; as it relates  
particularly to Medical knowledge and  
practice, has become an absolutely  
indispensable study; for

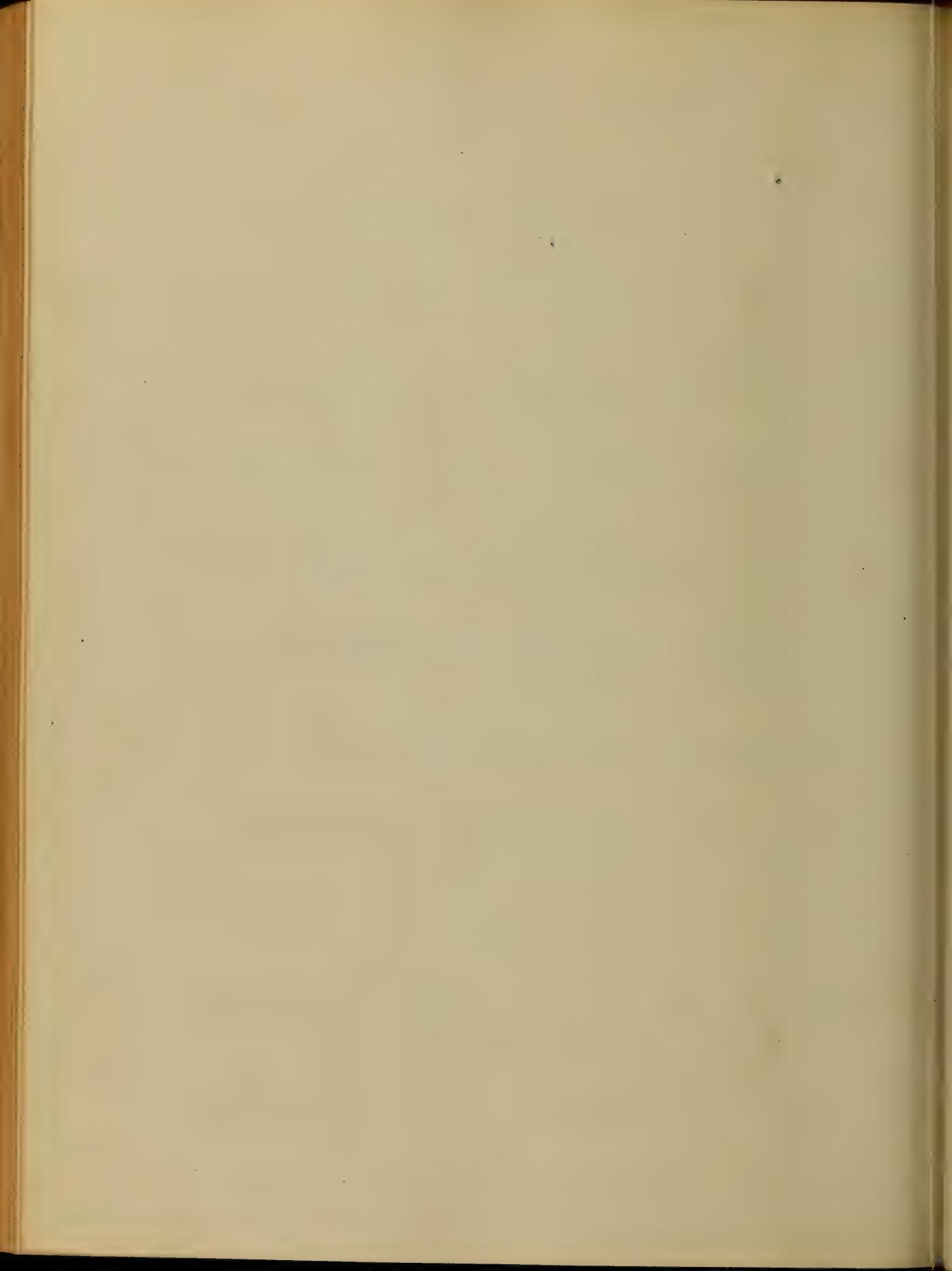


right to practice, teach, or in any  
cavalier manner claim, and to be  
successful in his profession, and meet  
all its required elements at the proper  
time, stretching down upon the last but  
it has been my good fortune to have  
in no instance violated the even dignities  
of the disease, and that in fact established  
a system of treatment based upon prin-  
ciples of erroneous and unfounded character.  
So now, to the treatment of the  
affection it should be left to the



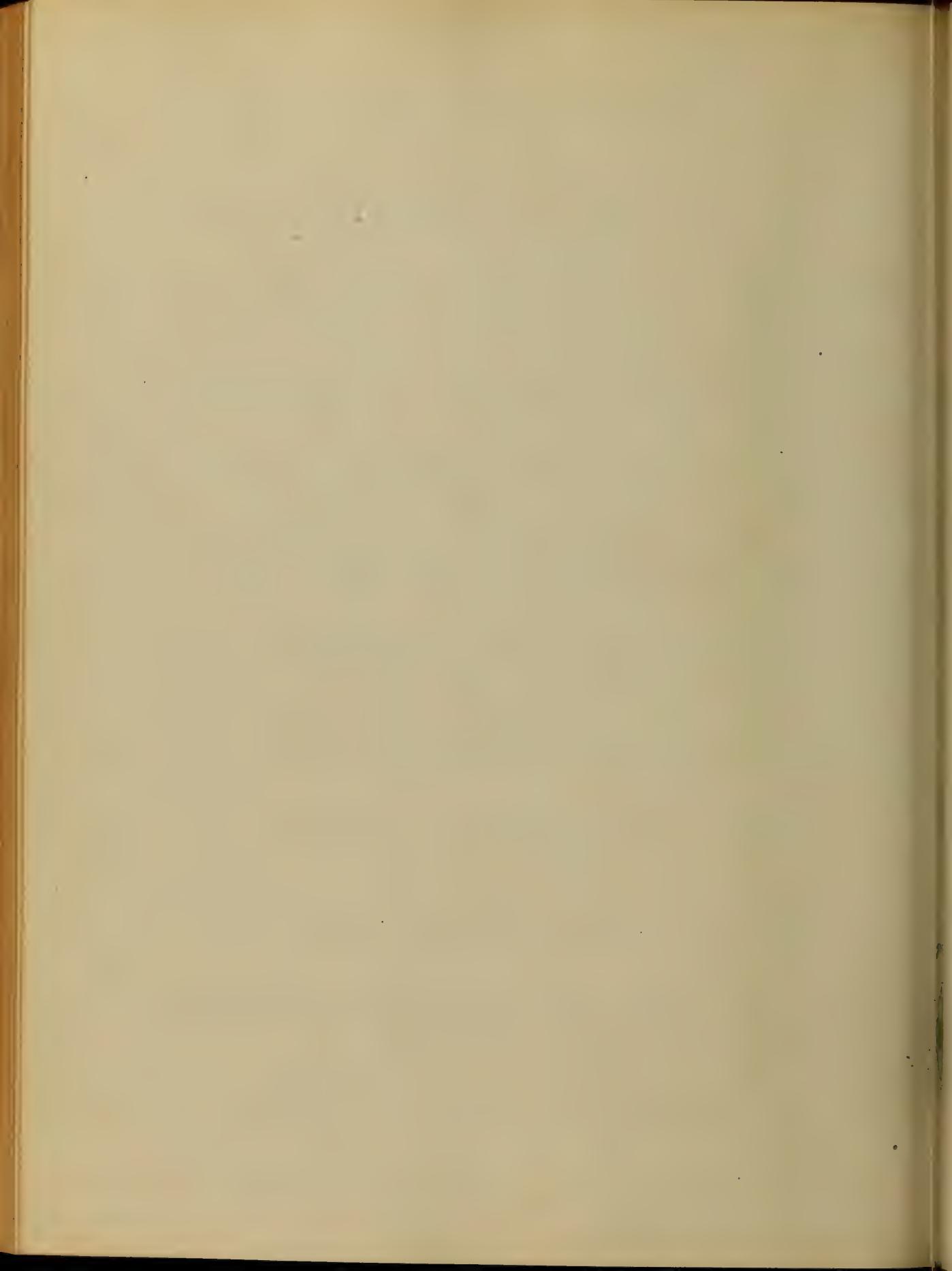
well as to the physician... all having  
and phenomena to deal with, and  
consequently each has need of becoming  
familiar with them. At least I have  
tried to do this. In my  
practice I have come in contact  
with the following subjects under  
Diagnosis, which subject therefore  
embraces more aspects than one.

It would not be difficult  
to get a list of every variety  
of treatment for many diseases, and



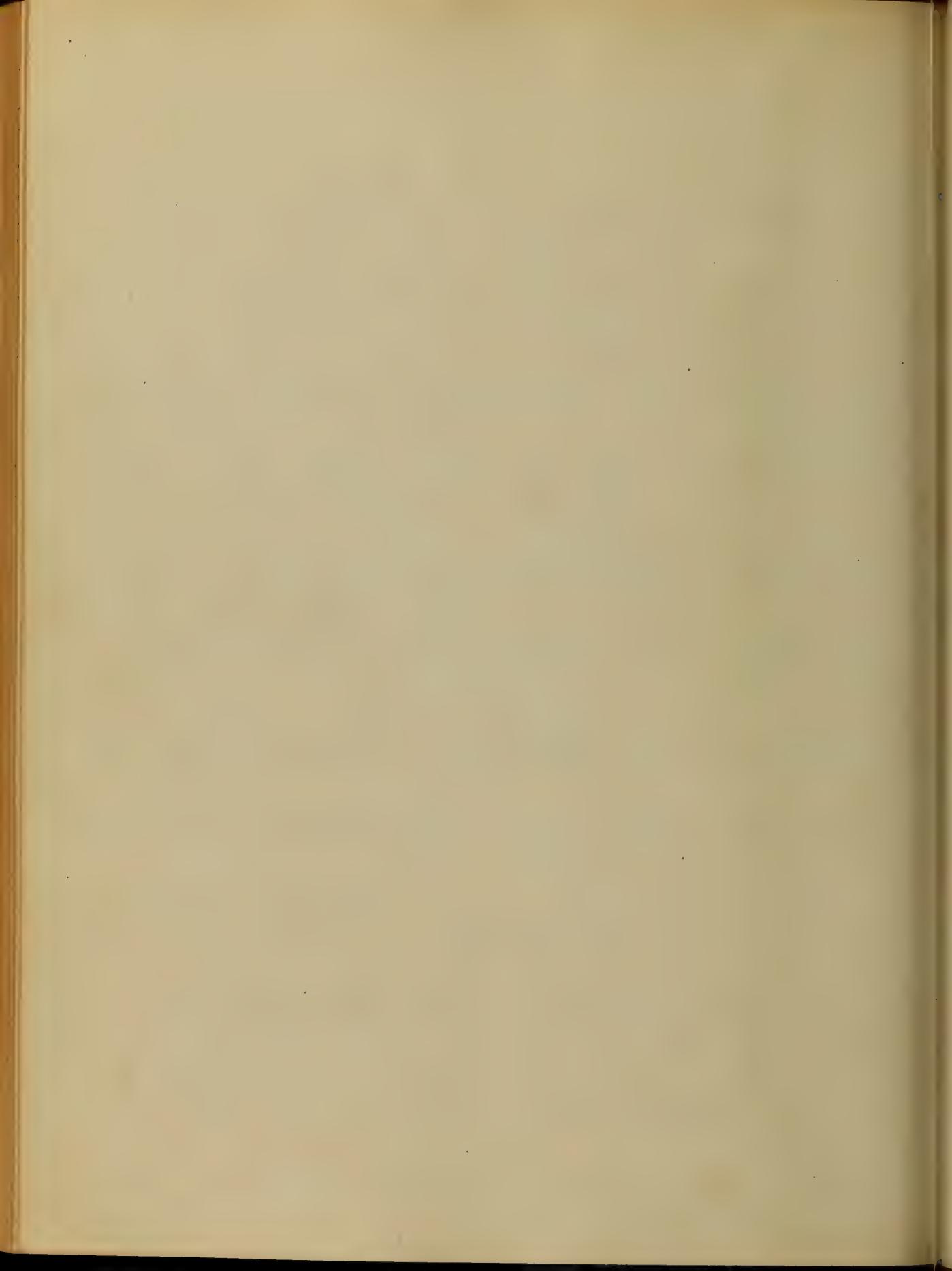
and becomes at first, in the  
five principal organs of growth, development  
and repair; in cause and cure, disease and  
soundness; and of nervous, muscular and  
particular, the following light on the  
whole scope of healing art. by studi-  
ing anatomy. Care and practical  
attention should attend over every step  
as students in this interesting depart-.

~~and of medicine, and surgery~~  
has ever stood the test of time -  
~~and of medicine, and surgery~~

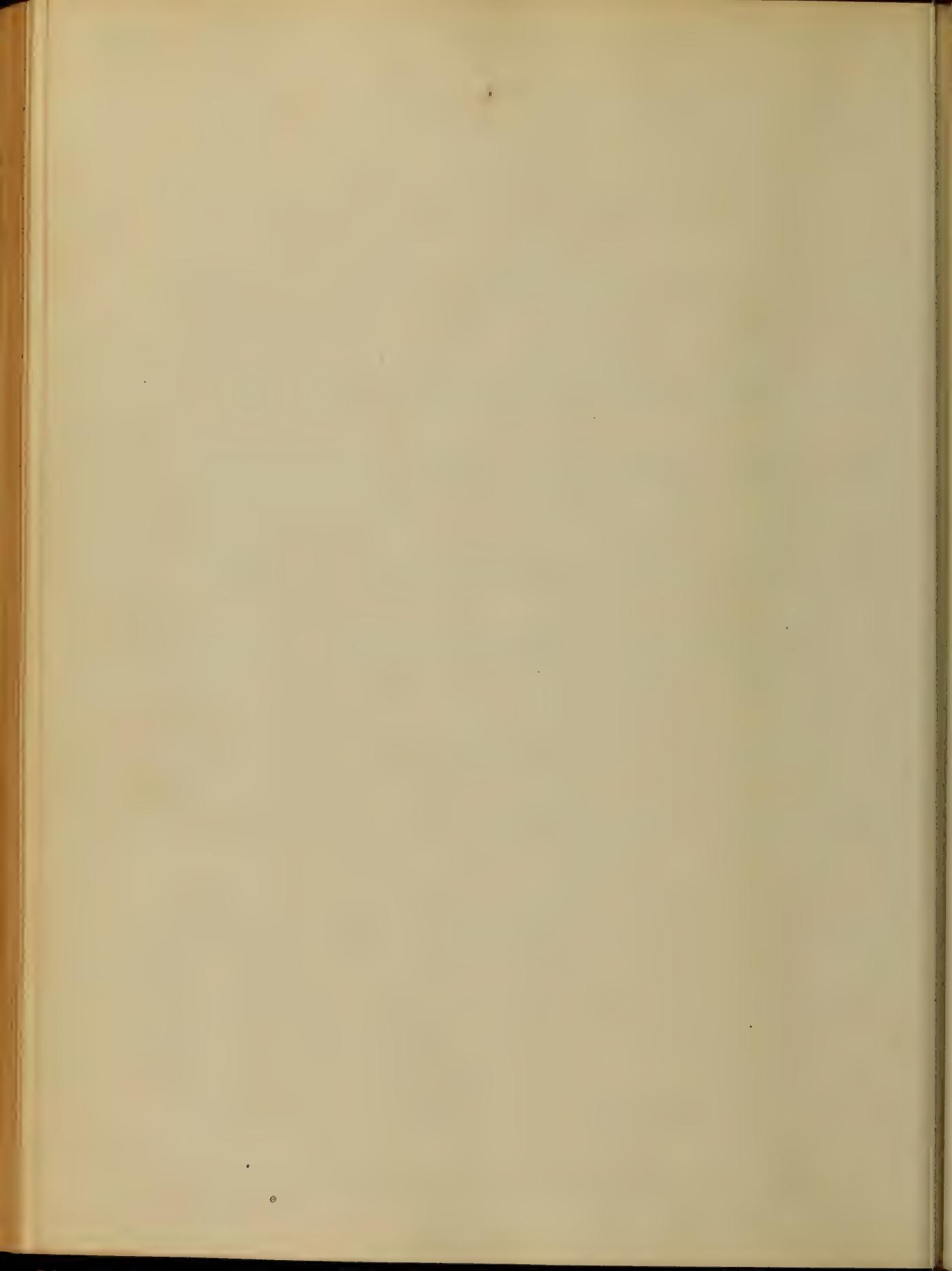


intelligent that it is not only in  
accordance with the law of nature  
and with the moral law of God.

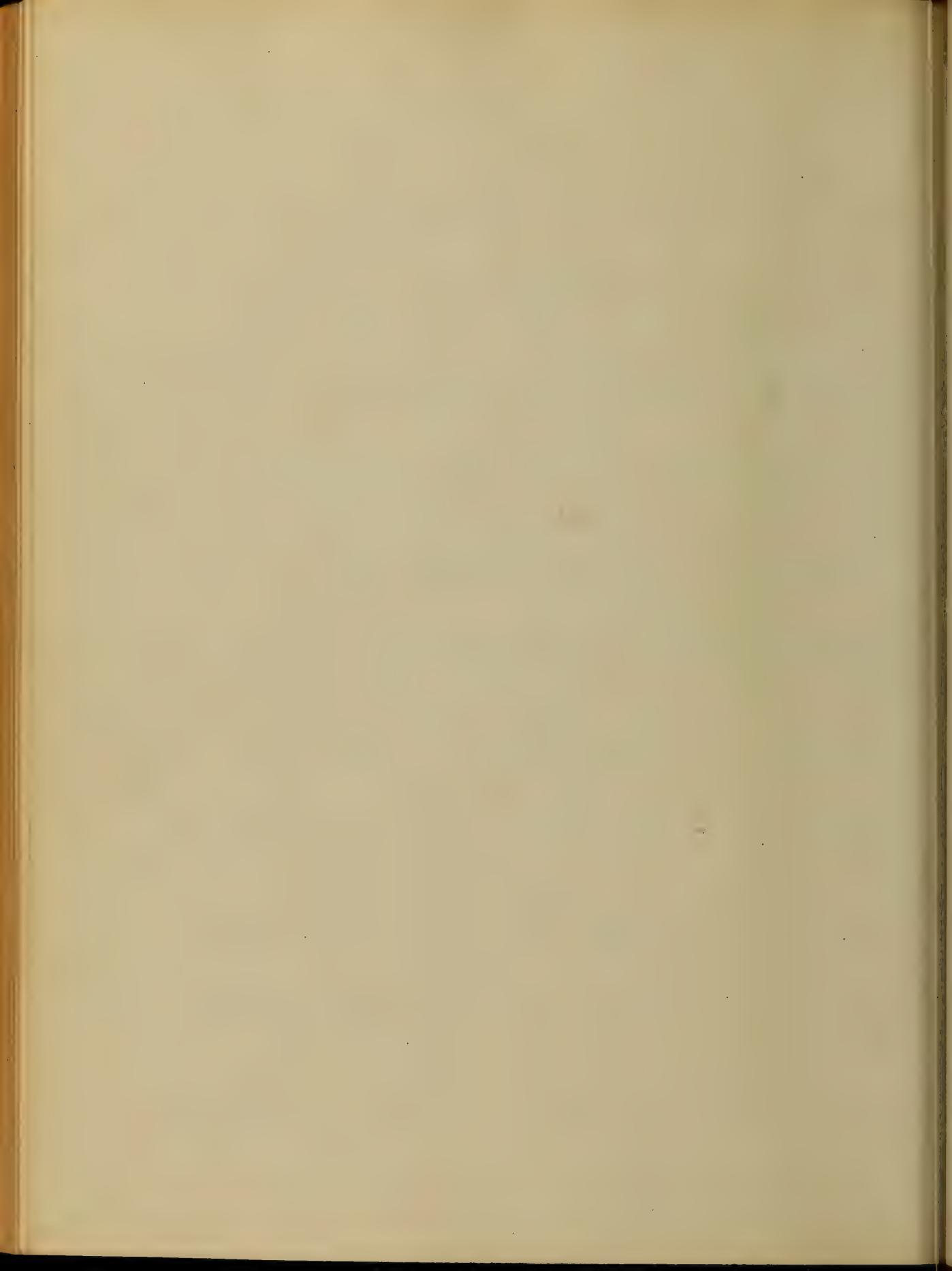
With regard to the medical  
partial reception for our American  
medical world, of what has already  
been mentioned by Dr. Humphreys  
is usually treated of as a science, and  
presented as a part of the foundation  
of thorough medical education that  
course embraces the whole of medicine.  
All classes of organized



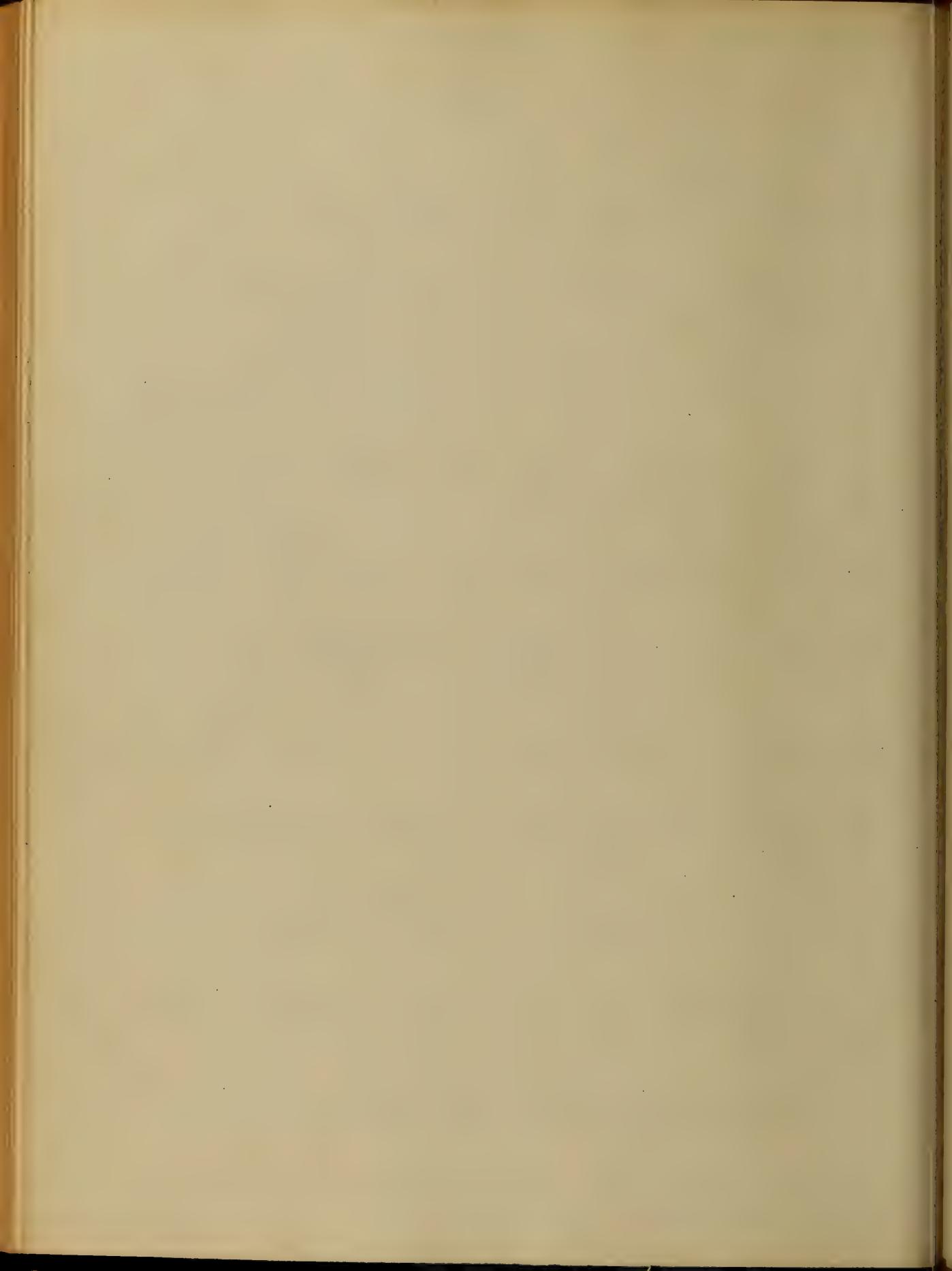
of mind in their appropriate craft  
according to the mode of development  
nutrition, and growth. But  
through organ they receive the art  
of divine intelligence, from their  
special function which nature has  
commanded them to perform, and  
they like the rest of animal creation,  
living or dead become organs of man  
which is required to be assimilated  
to earthly taxes to be paid by  
the body. At this important



the young practitioner is required to  
form a correct Diagnosis from acute  
warning symptoms and the character  
of the disease which they may be labour-  
ing under; of ascertaining the cause  
the origin of its progress and re-  
ducing them to a correct settled point  
by a decision of his judgment to pre-  
scribe the appropriate medicine required  
in special, and in general treatment.  
To allay or arrest the malignant pro-  
gress of the disease, and to restore the



sently condition of its members  
and thereby meet that process which  
is not in accordance with the law of  
nature in the living body. The other  
processes of disease and method  
of the administration and application  
of drugs are to be studied and  
be understood to be similar to one another  
at the proper time, and to the opportu-  
nity disease in order to get a true  
knowledge of the pathology of the human  
disease, and the catastrophe



as manifested by the culture

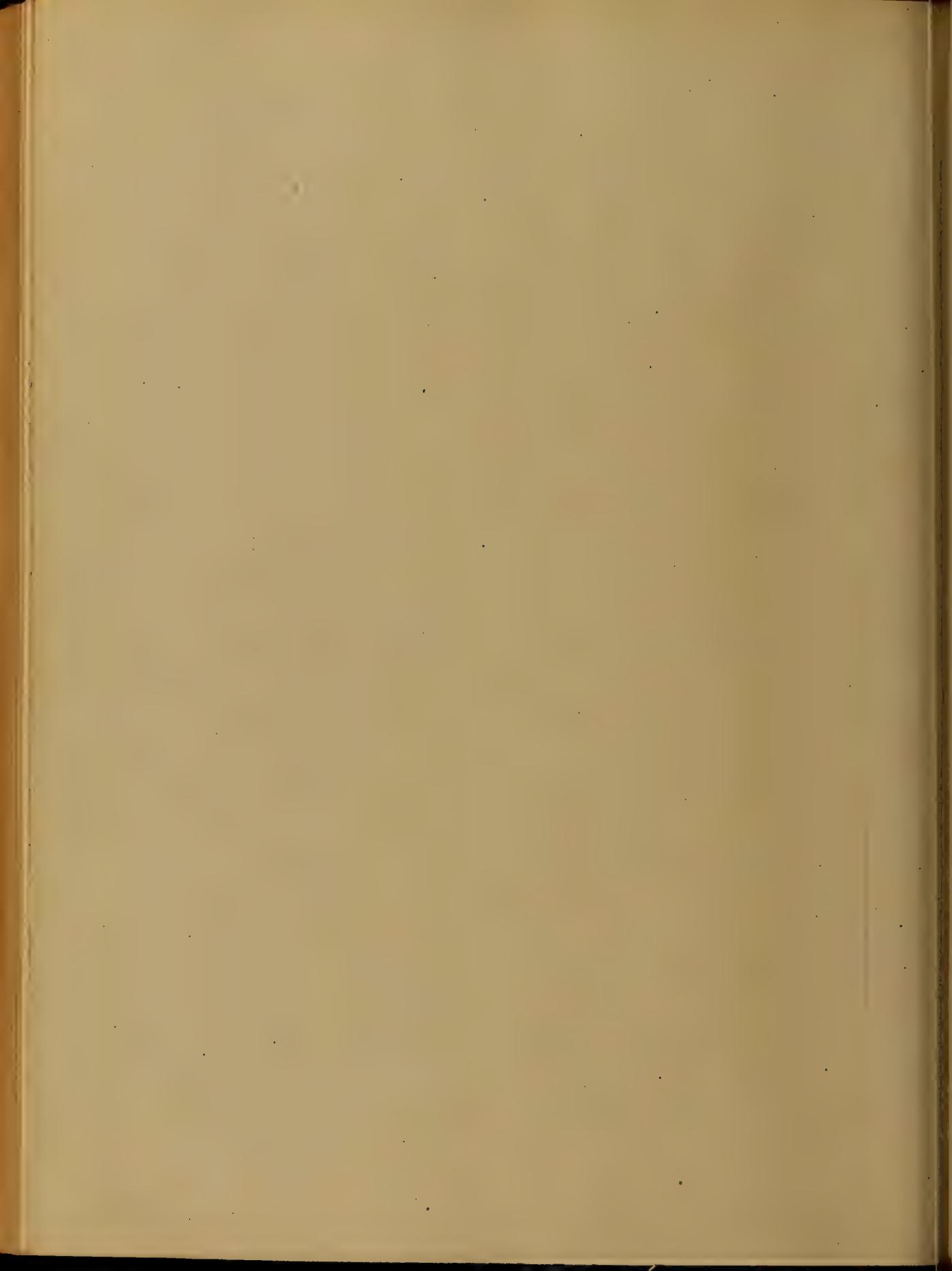
both natural and artificial  
cells, together with the genera

the fungi, and if you'll

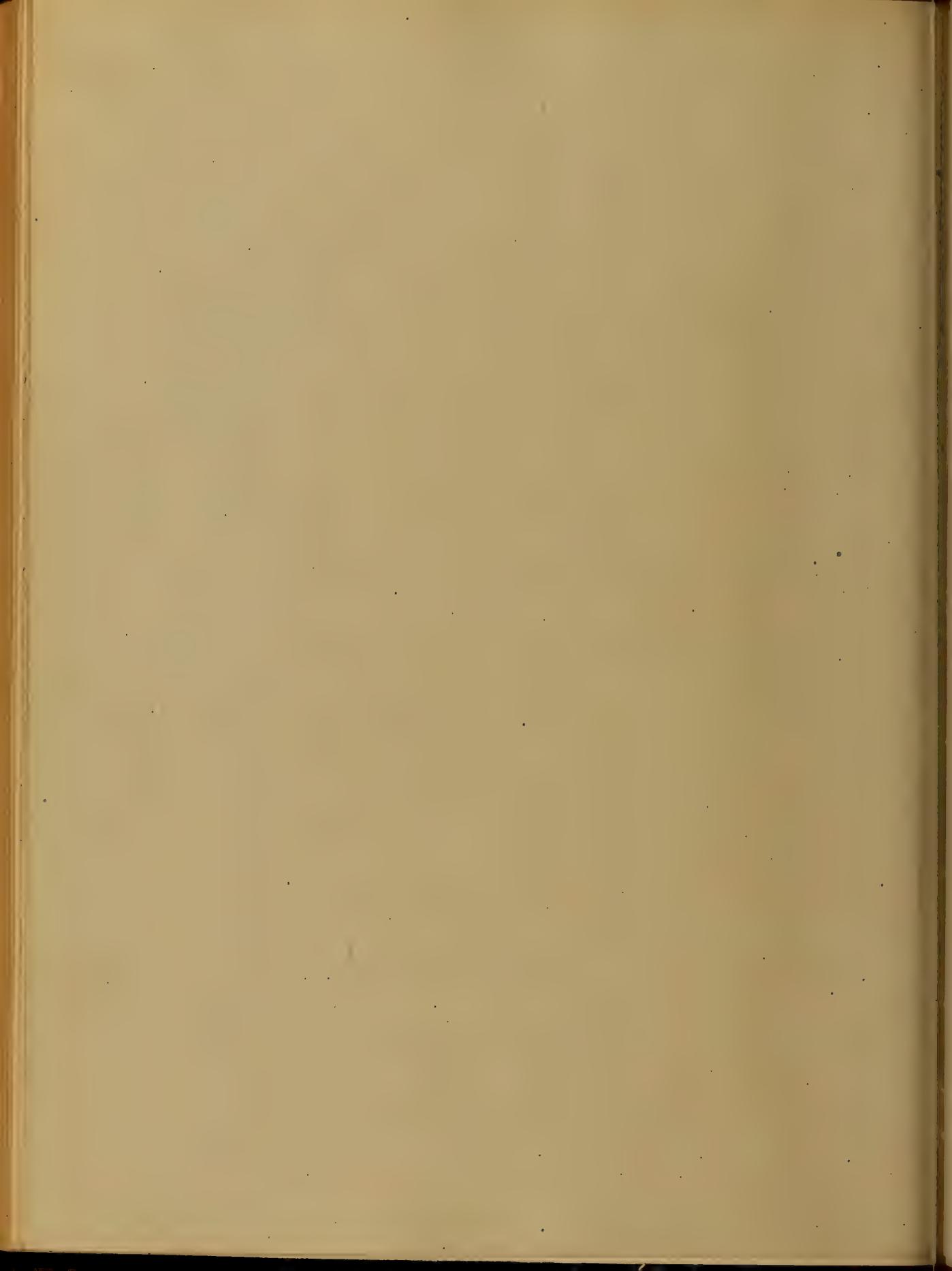
transmit some slides

of the normal and

tissues, in health and in disease.



in view of the  
various rules for the ratios  
of opium to  
alcohol, constant search for  
the best method  
in the broad sense  
of the word, did not  
by our American medical party  
and others, was called  
nervous action, and, in addition,  
And another large class  
Anaesthesia, as described above.  
The result of the operation



next in order come opacifying and  
storing of Midwives, Surgeons, &c &c &c

The special book of compound

Pharmacy, which is a drug book

in which drugs in some form or other  
must be administered, which

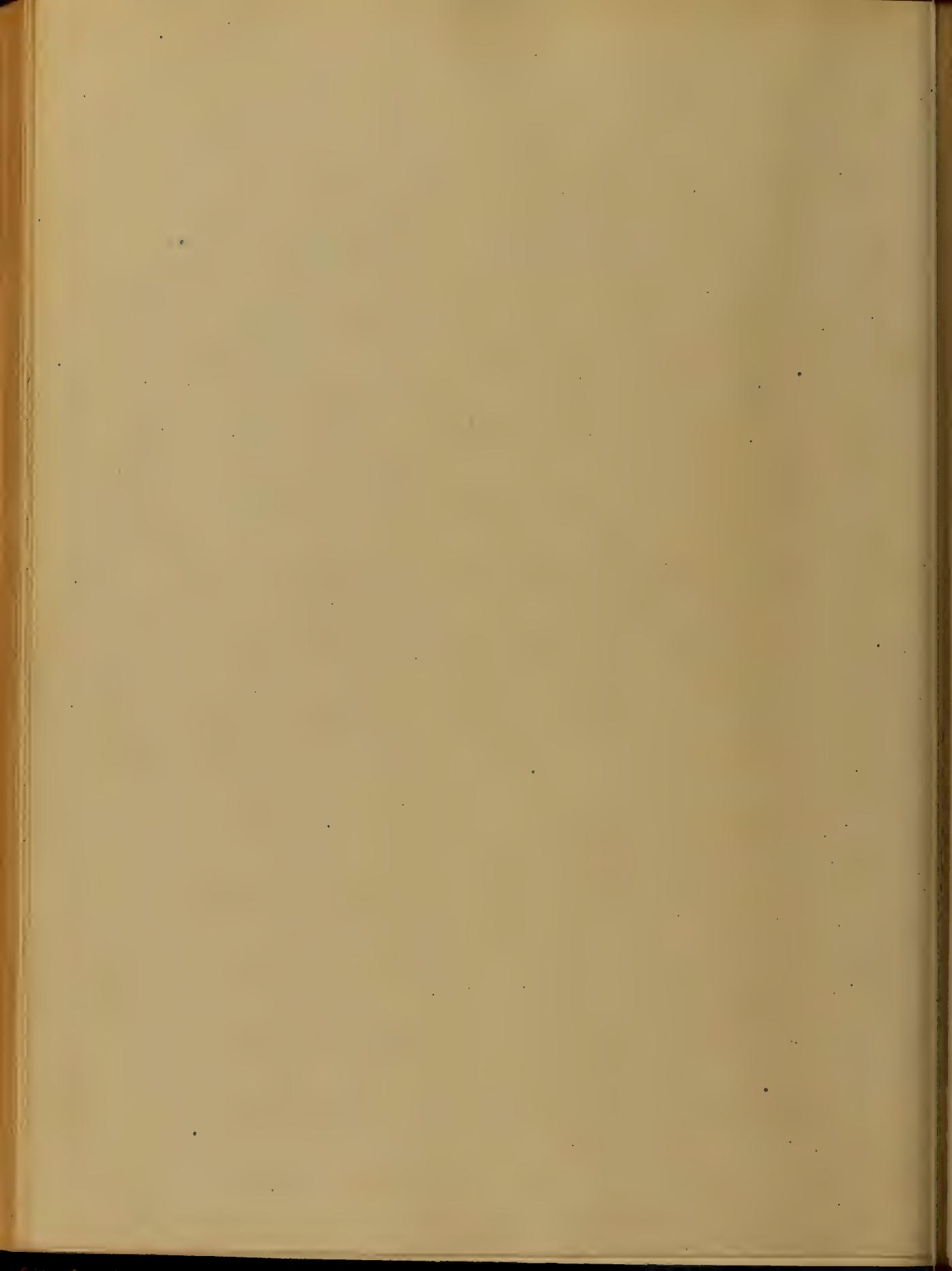
is a part of the student's first year

at the medical college

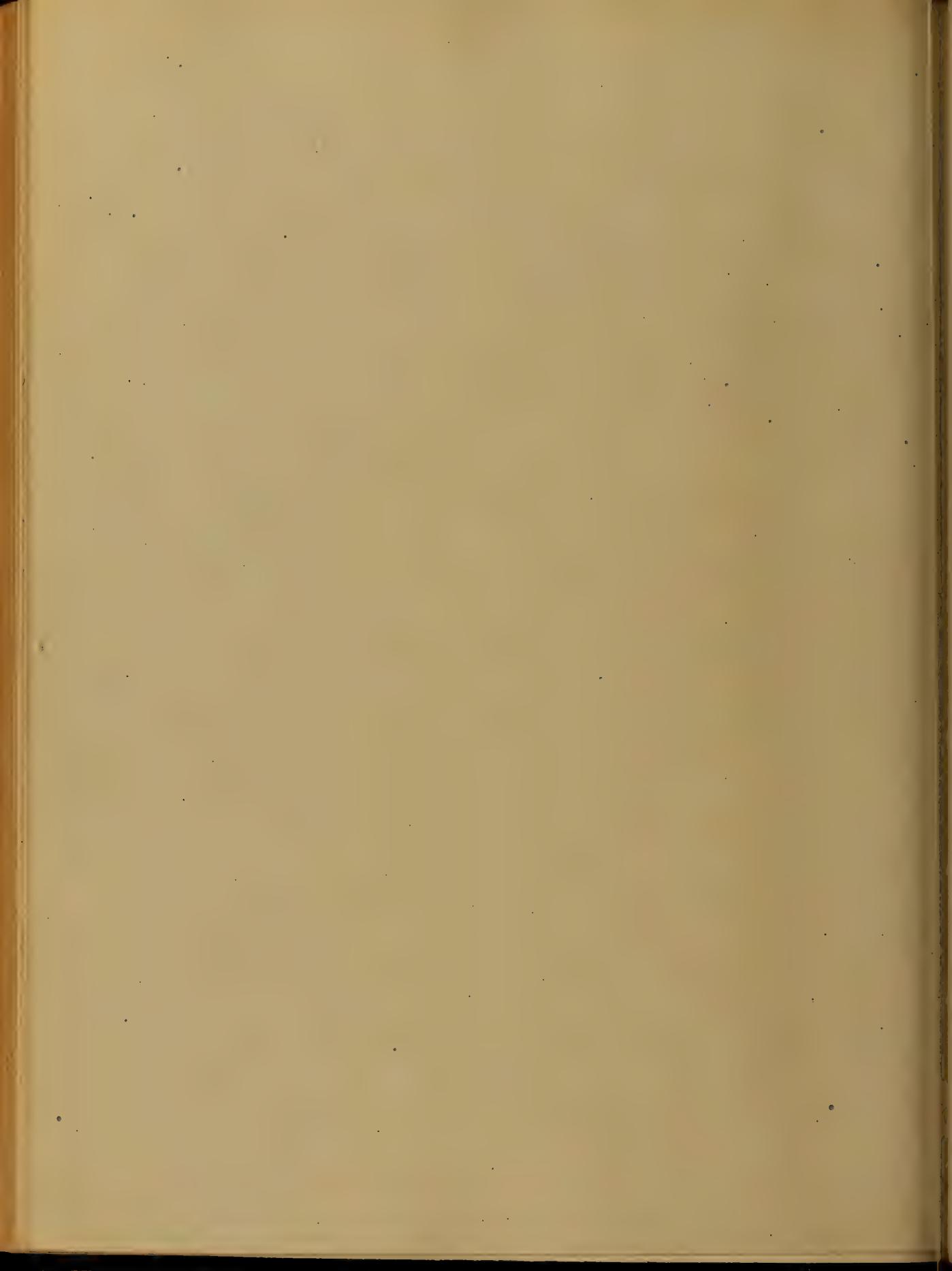
profession; we must do it with  
fuller sense of their importance in  
the initiation of us into the  
future medical career, and reputation

especially, will be of great value

in the study of the following subjects



the medical knowledge  
and skill of the physician  
and the persons who attend  
to the patient.  
I constantly keep in mind the  
great influence which the  
physician has over the patient,  
and the power which he has over his  
power; his hereditary affection  
whatever deformities may  
either physically or mentally.  
In every case he must consider  
medicines and all other means  
to certain cases of patients under  
particular disease.



the author. I will try to do  
so while on the top, & it  
has given for example that

"...you, do not  
forget meing the least

you it the least about

"...do not forget

"...do not forget

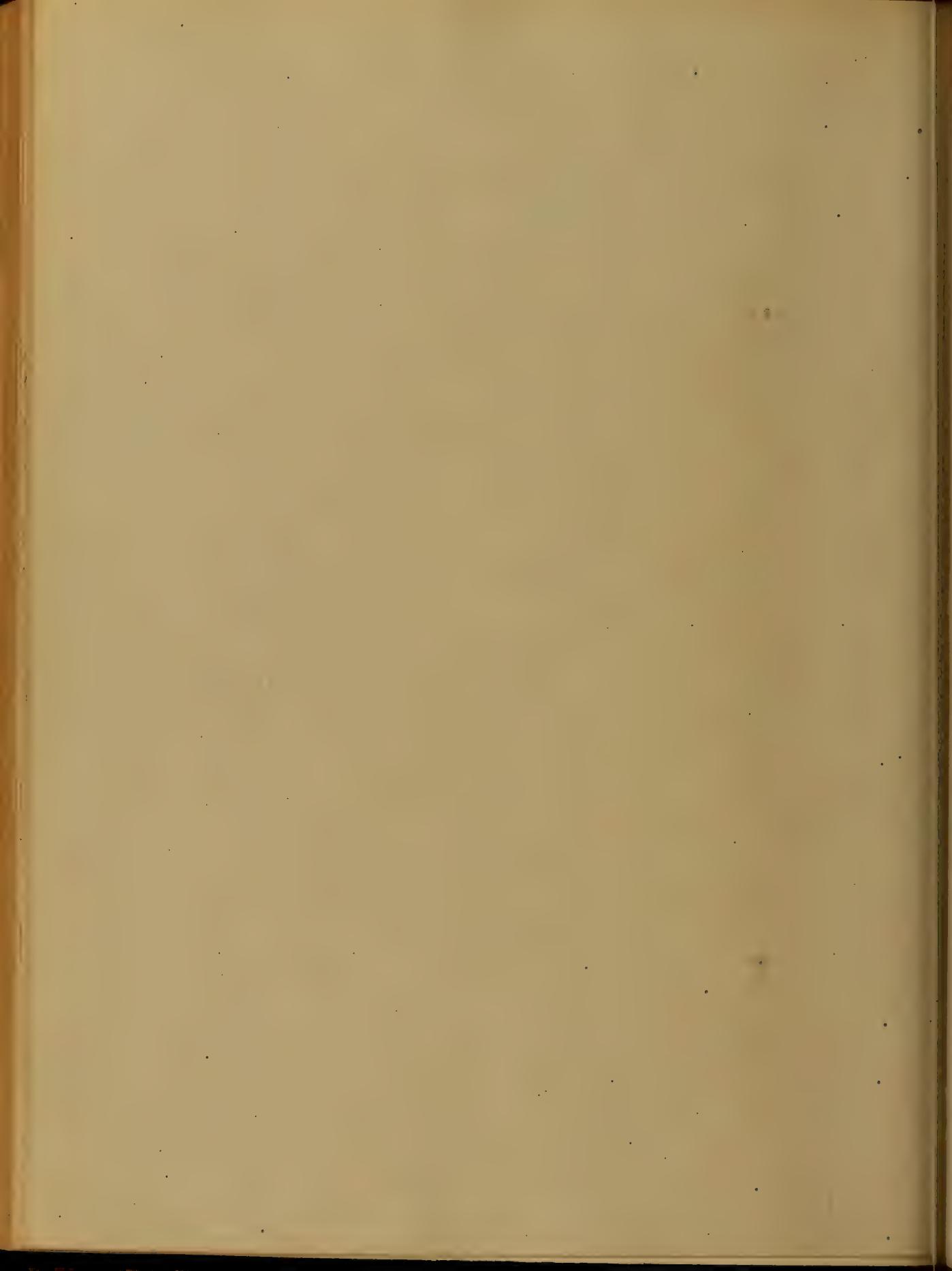
effect was the great  
climate. It is

"...do not forget

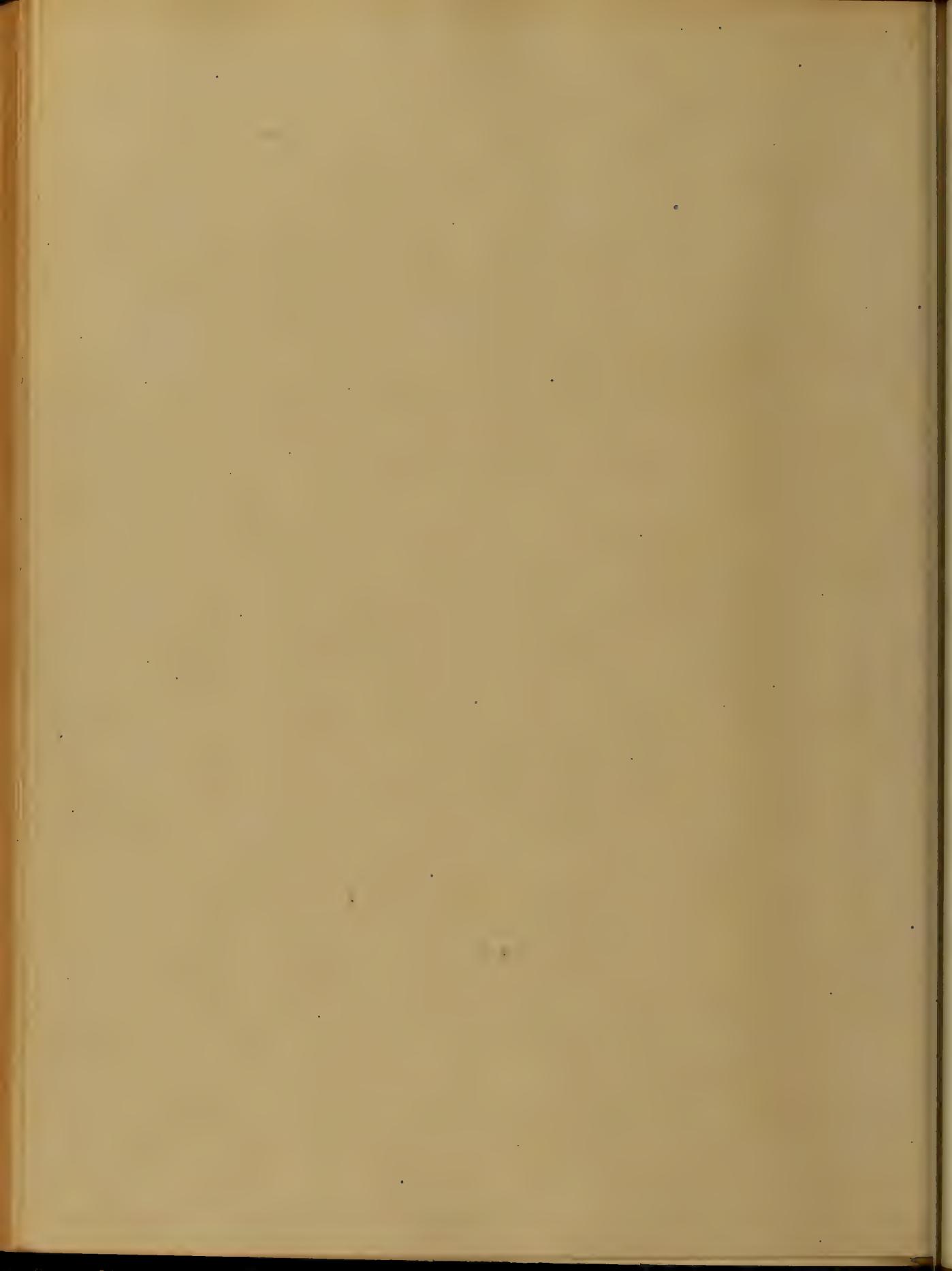
"...and the

"...but if they do not  
medical career

"...Physique, etc.



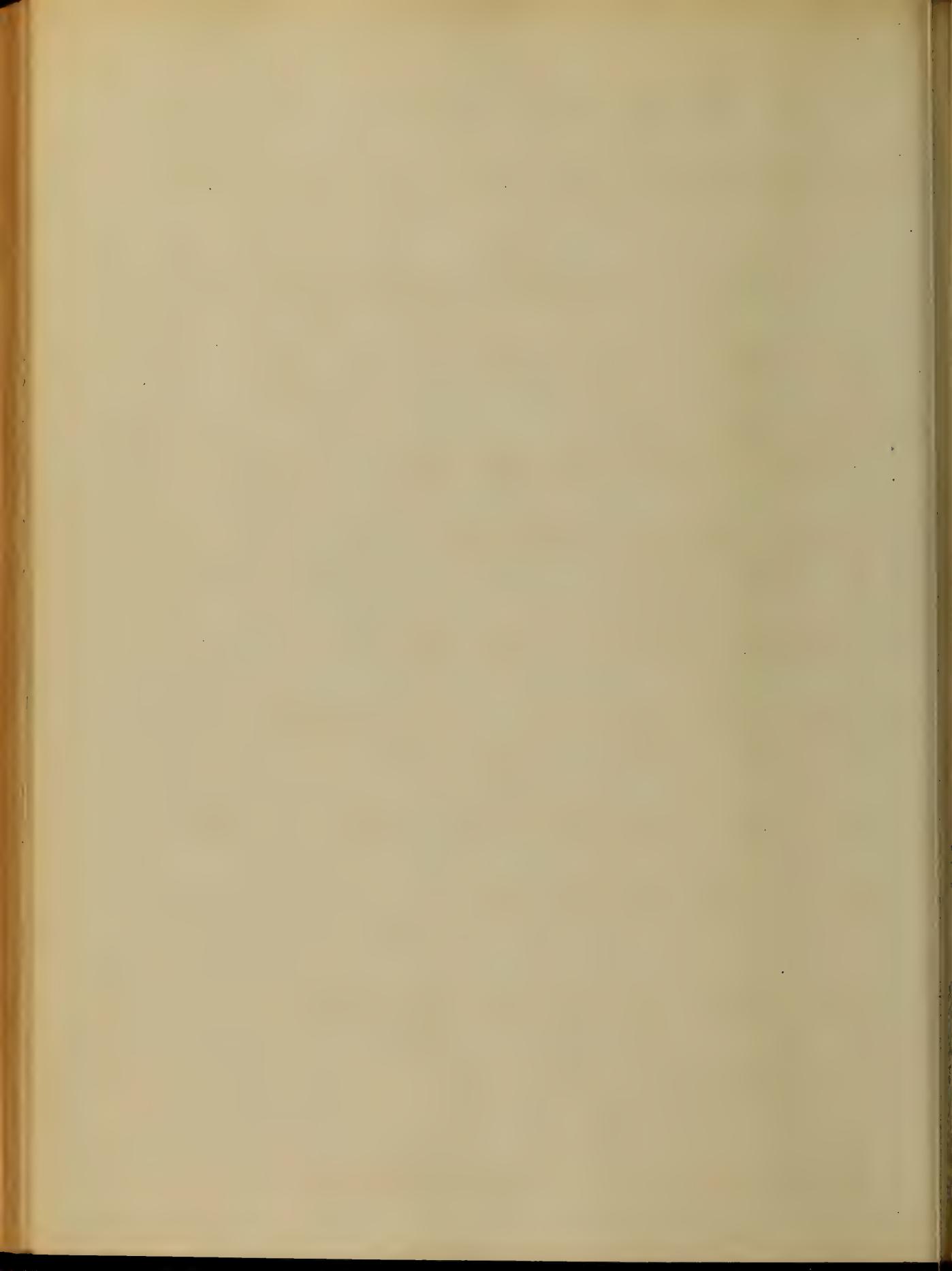
For a routine practitioner, new  
gains for money the general  
public, the community will be  
more receptive to the practice.



## Febris Intermittens

Intermittent fever, a term applied to fevers in which the paroxysm intermits and returns, usually at very regular intervals; which include three principal species, viz: tertian, the paroxysm of which returns every day; tertian, in which the disease returns every third day, that is on alternate days; quartan, in which it returns every fourth day, thus leaving two days between the paroxysm.

This disease is characterized by febrile



paroxysms, recurring at stated times,

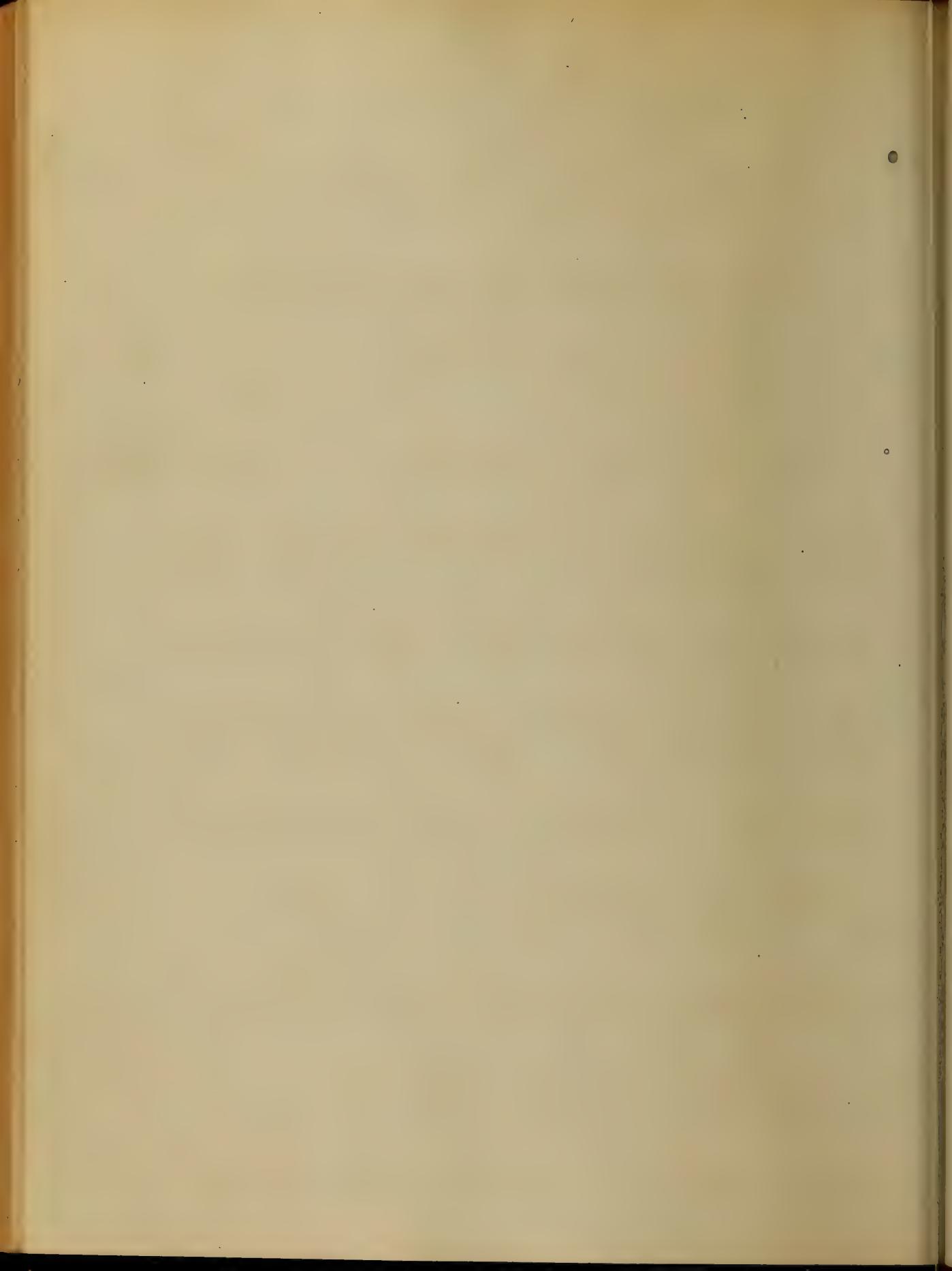
and by the absence of fever between  
the paroxysms.

The intervening period, from the end  
of one paroxysm to the commencement  
of the next, is called the intermission;  
the whole period occupied by paroxysms,  
and the succeeding intermission, will  
the interval.

The regular types above mentioned are

liable to numerous variations.

The tertian is sometimes double, being



two paroxysms every day.

There is a double tertian, with a daily

paroxysm, occurring at different periods,

or with different character, on successive

days; the paroxysms of alternate days mostly  
corresponding with each other.

Thus, on the first and third day, the

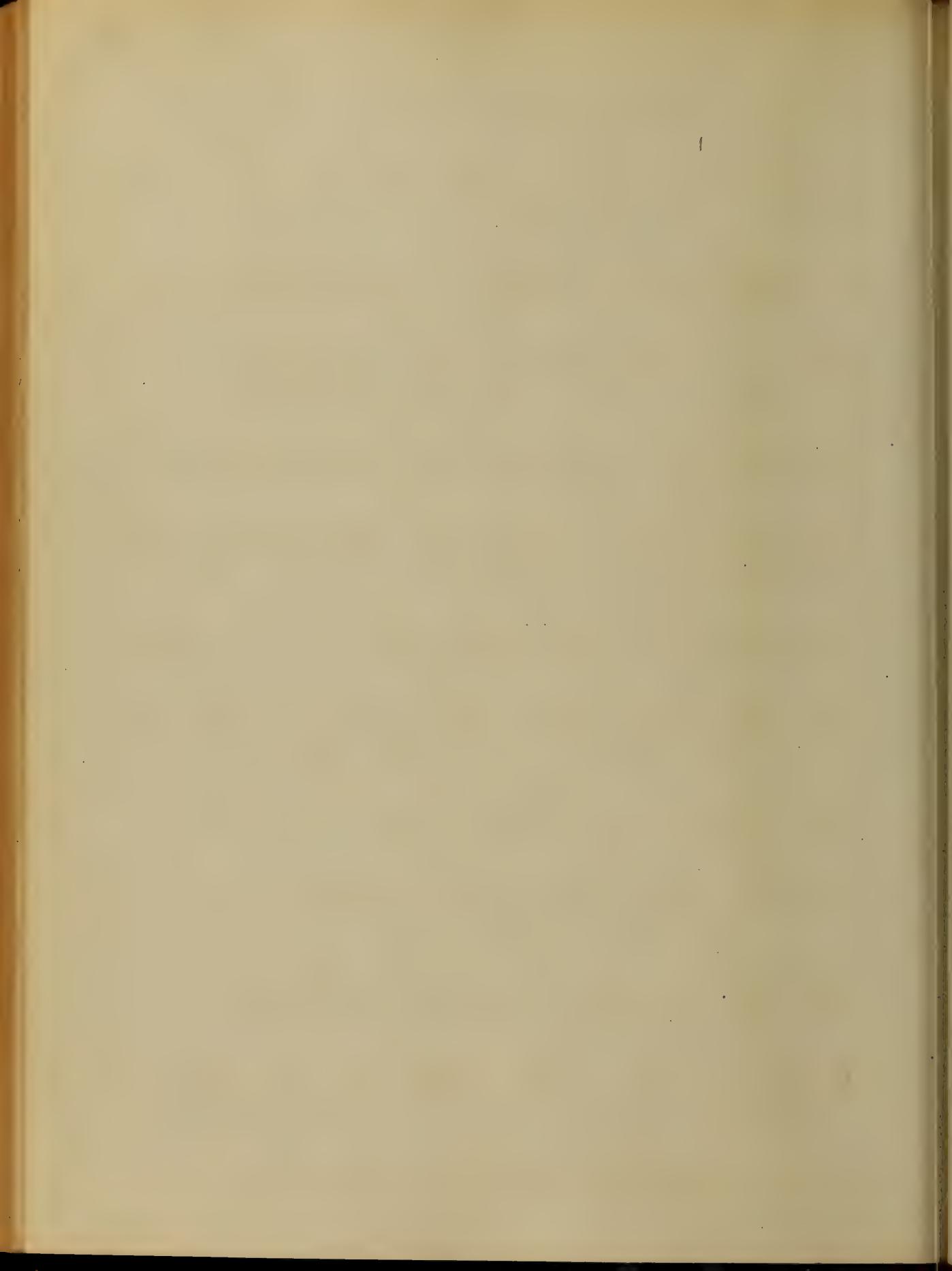
paroxysm may take place in the

morning, and correspond with each

other in grade and character; while

on the second and fourth day it will

occur in the afternoon, or even like

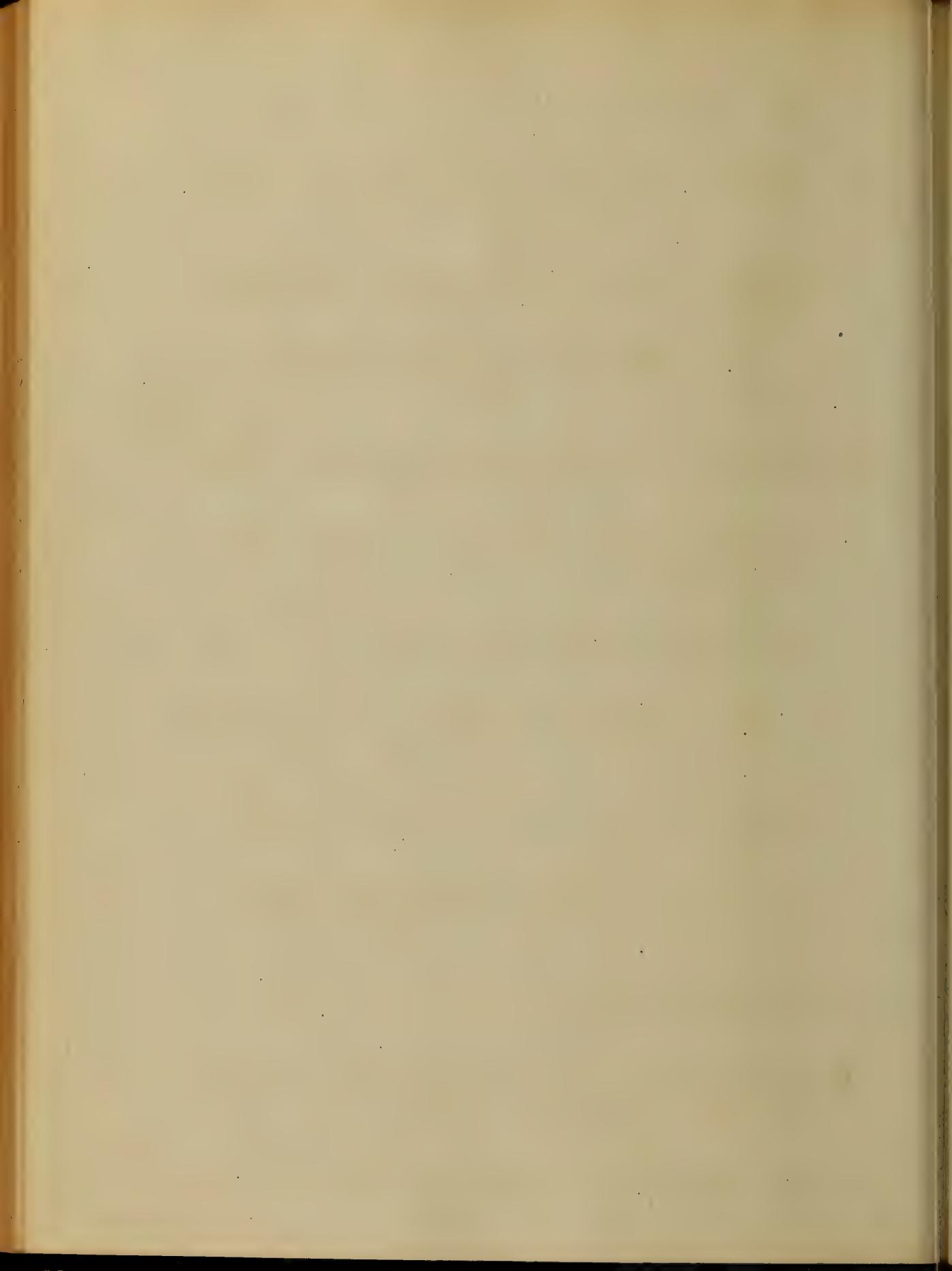


manner correspond with each other, but differ from those of the other two days. It thus appears that two tertians are going on together, but with paroxysms at different periods of the twenty-four hours.

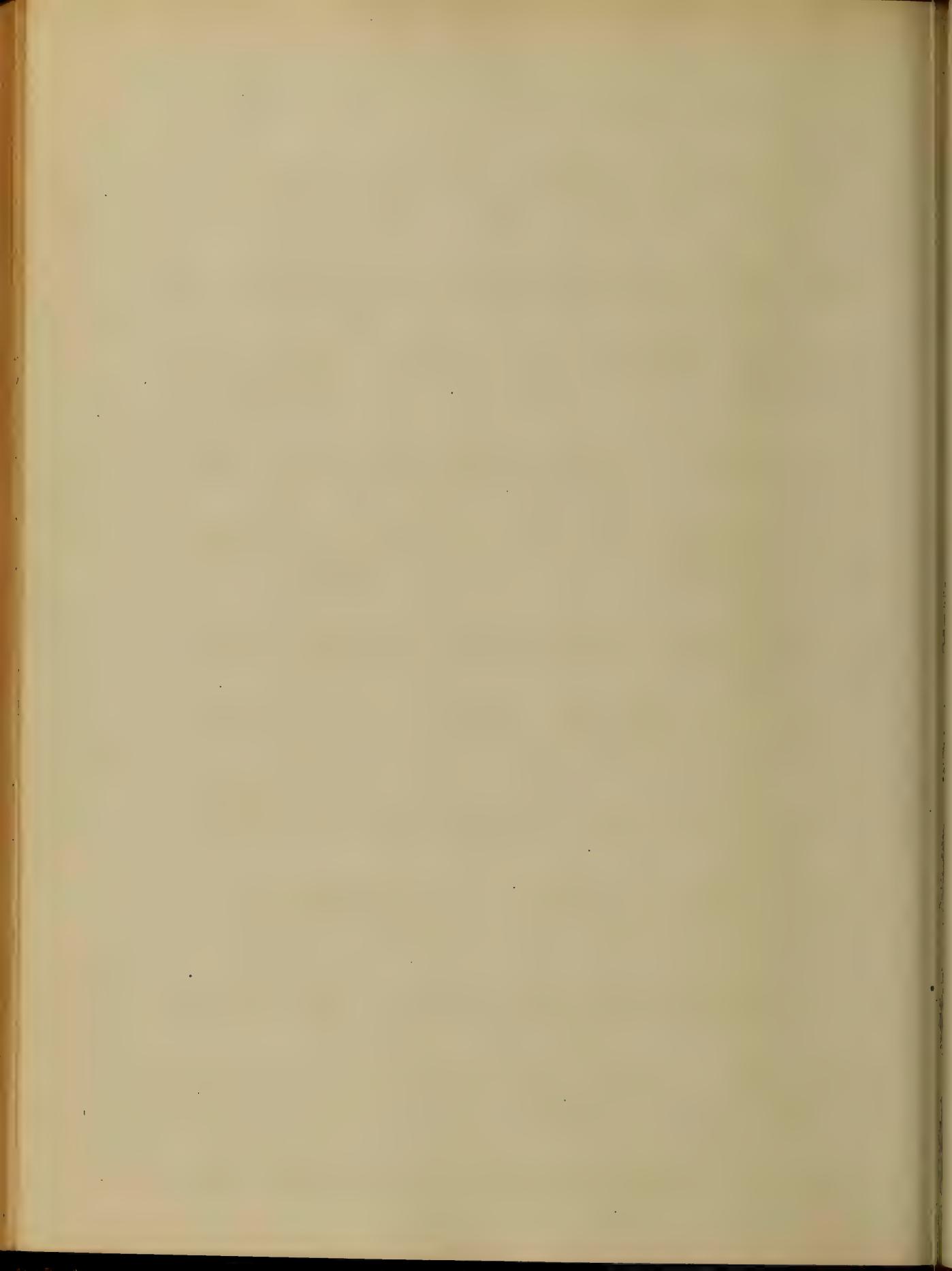
Sometimes there are two paroxysms in one day, and none in the next.

This variety is named diphasic or doubled tertian.

Other varieties are mentioned by either of the triple and the quadruple tertian.



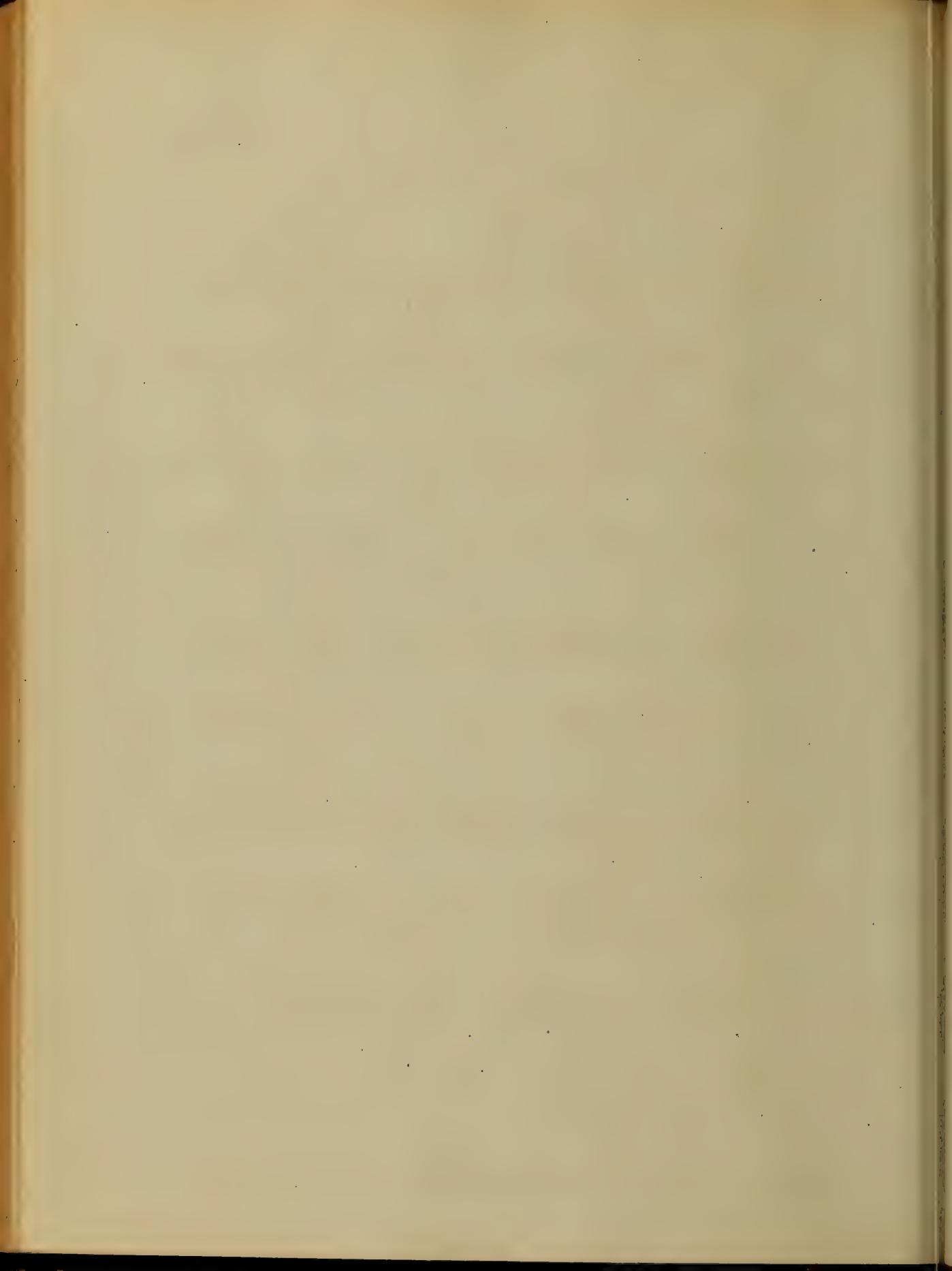
the doubled and tripled junctions,  
but these distinctions are mere trifles,  
of no practical value, and accordingly are  
in nature; if indeed they form the  
foundation than in the organization  
of observers. Of all the varieties above  
enumerated the last, i. e. <sup>the</sup> triplets  
are the varieties which occur most  
frequently. It is in the case  
have been noticed, in which the four  
joints are altogether impeded.  
<sup>as</sup> These are distinguished by the title of



erratic intermissions.

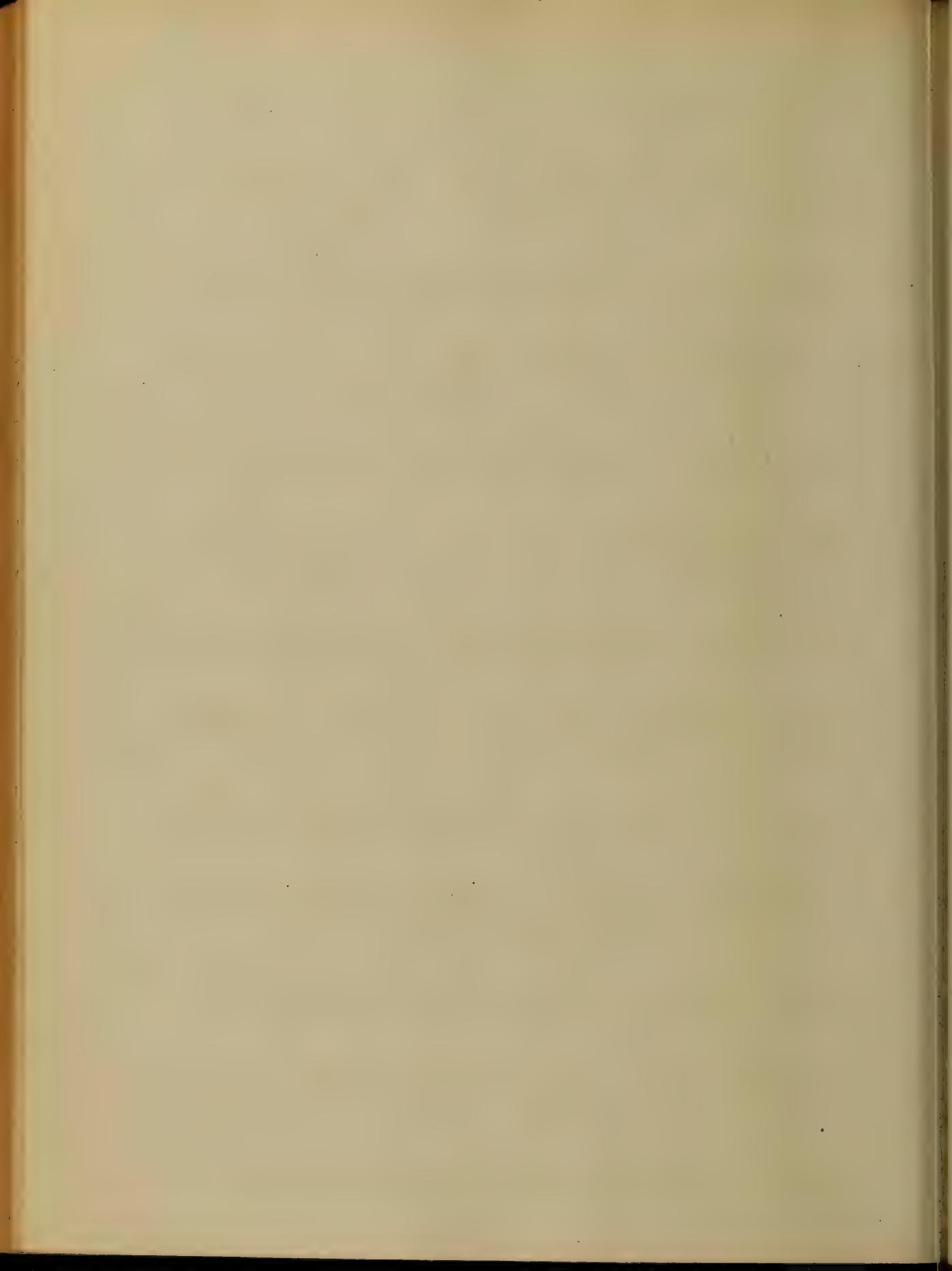
Sympathem. - Each paroxysm of an intermittent, when quite regular and fully formed, consists of three stages; viz., the cold, the hot, and the sweating, which usually succeed each other in the order mentioned.

Very often, the paroxysm is preceded by the ordinary preliminary symptoms of sever, such as feelings of languor or weariness, general uneasiness, painings &c; and occasionally there feelings



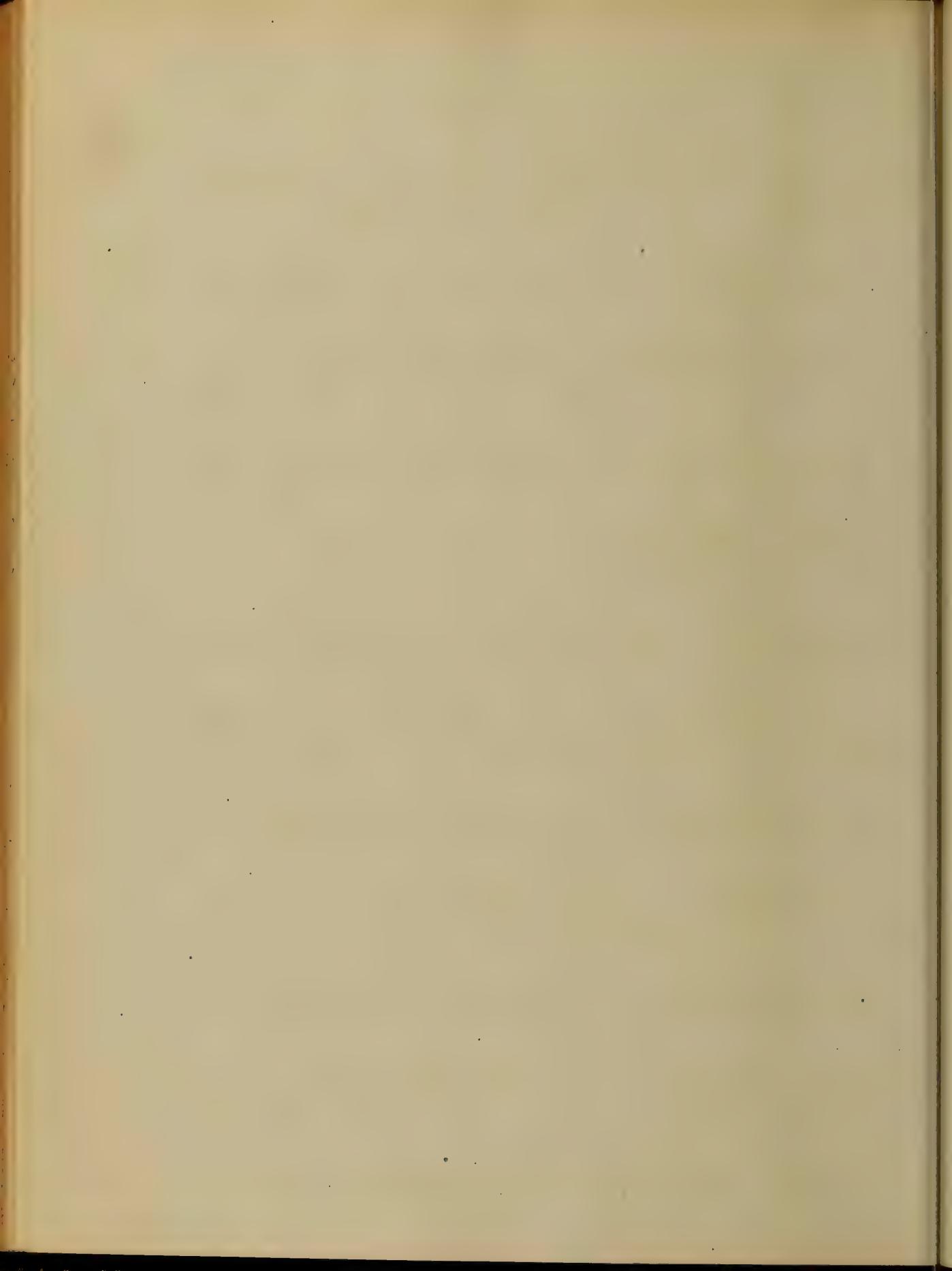
with perhaps some pain in the head  
and back, impaired appetite, and  
a scarcely observable degree of febrile  
excitement, constitutes the whole apparent  
disease for several successive paroxysms.

A person is seized with the above symptoms,  
or something like them, which often  
few hours pass, almost without notice,  
and are perhaps quite forgotten, whilst  
upon their recurrence the next day, or  
the day after, & upon a third occasion  
at the same interval, and each time



with increased severity, the patient is reminded of the preceding attack, and finds himself, or is informed by his physician that he is labouring under intermittent fever.

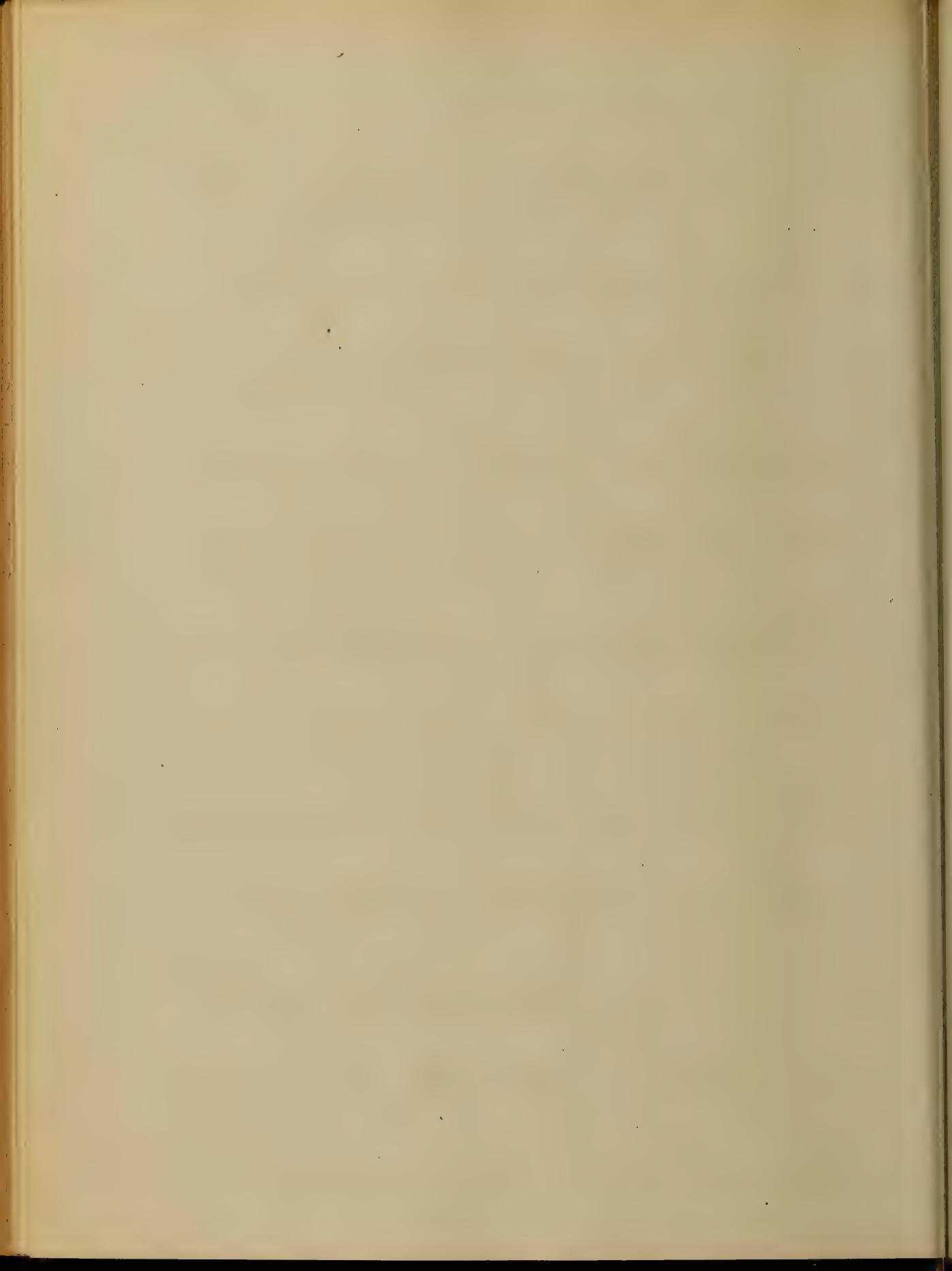
Attention to these imperfectly formed preliminary paroxysms is important; as the disease may be arrested by the adoption of proper measures at this early stage, and much subsequent inconvenience and suffering spared the patient. Sometimes however,



the first regular paroxysms seize the patient in the midst of apparently good health, and without warning.

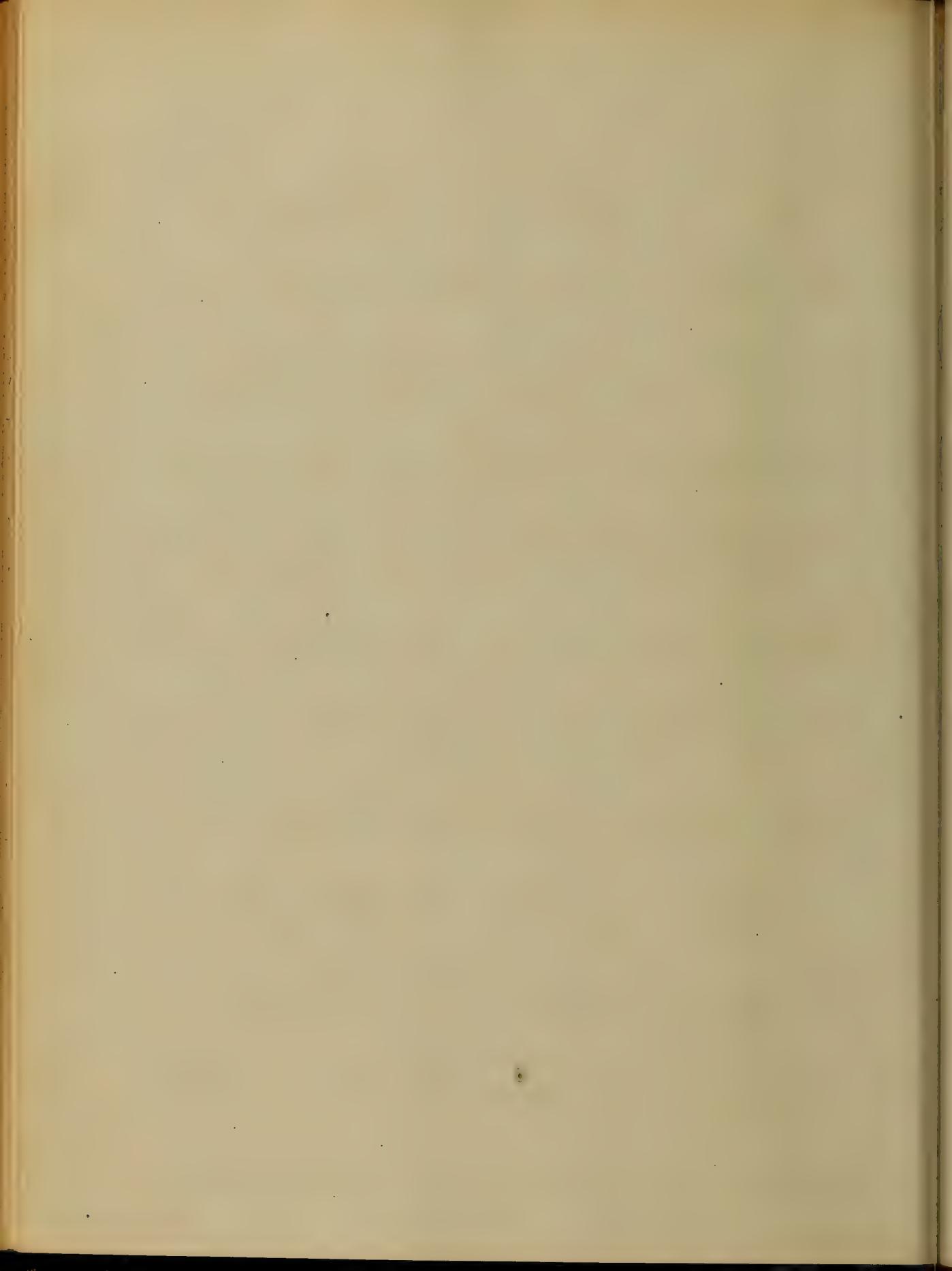
Cold Stage. - After some paroxysms, the patient experiences sensations of chilliness, especially in the limbs.

These increase, and gradually spread over the body, becoming often uncontrollable. Not uncommonly, the chilliness seems to run in longitudinal lines, with little strambots of ice cold water running down the back. Along with this,



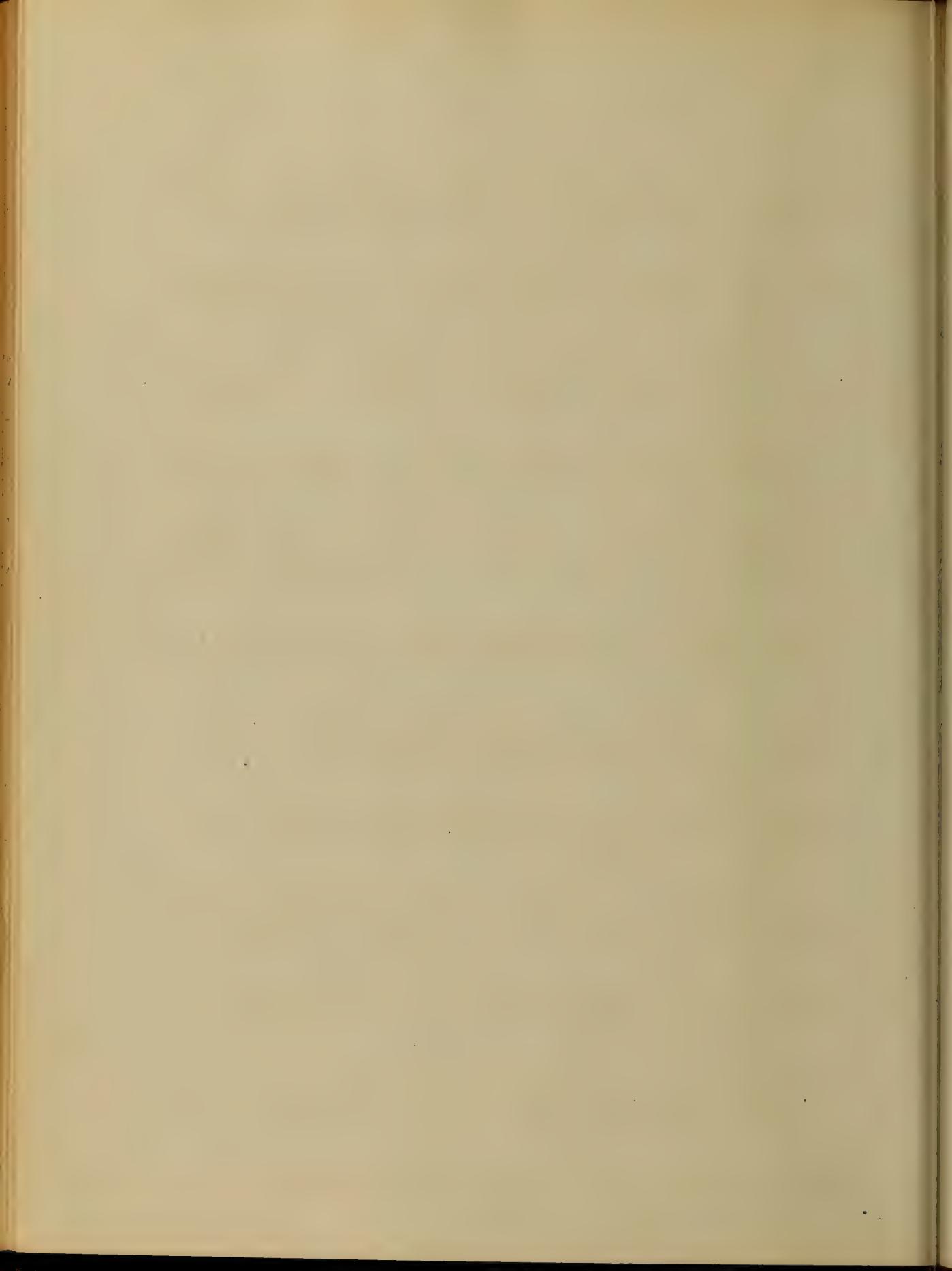
the patient experiences shivering or trembling; rapid and successive shudders run through the frame; the teeth often chatter, sometimes violently, and the bedstead is occasionally shaken with the violence of the involuntary movements. These tremors, in connection with the sweating fit, are technically denominated agit.

The body often feels cold too however, especially the hands, feet, nose and cheeks; but this is by no means uniformly

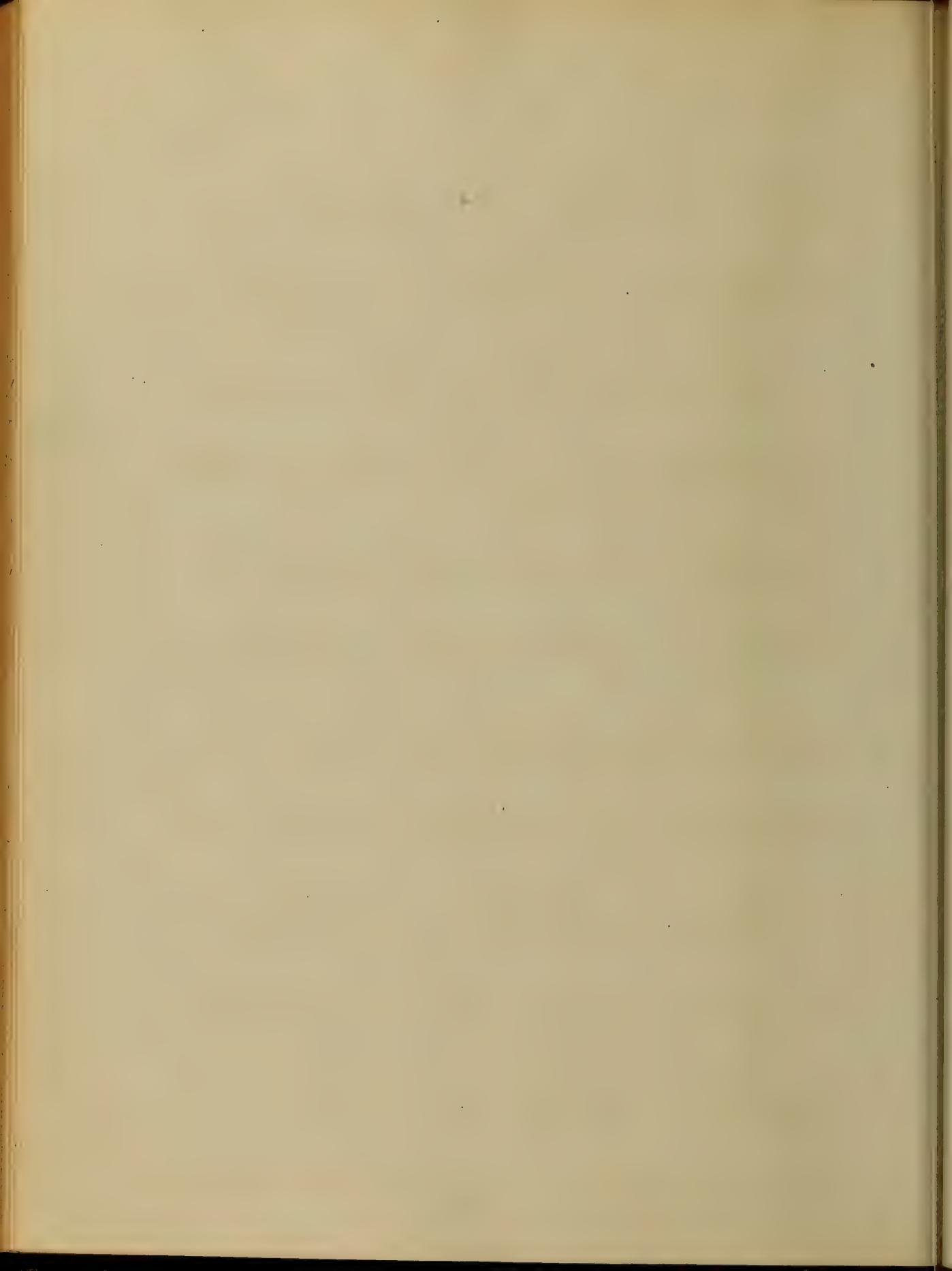


the case. Sometimes the surface is whiter  
than in health, even when the patient  
experiences a feeling of heat.

In connection with the exanthem, pal-  
ness, the surface is pale and contracted,  
and not unfrequently presents the rough  
appearance called gooseflesh, which is  
owing to the projection of the subaceous  
and capillary vessels, while the proper  
tissue of the skin shrinks. From the same  
cause, the hair sometimes bristles, upright.  
The hands are shrunken, the features



contracted, the countenance pale, and  
the lips and ends of the fingers often  
purplish, or sometimes livid.  
Though the tongue is pale and moist,  
there is often thirst; all disposition for  
food is lost, and occasionally nausea,  
and vomiting of food, mucus, or bilious  
matter, are experienced. The breathing is  
irregular, and often hurried; and the patient  
has a feeling of oppression or weight in the  
epigastrium or chest, which causes him  
to sigh deeply. There is sometimes a short



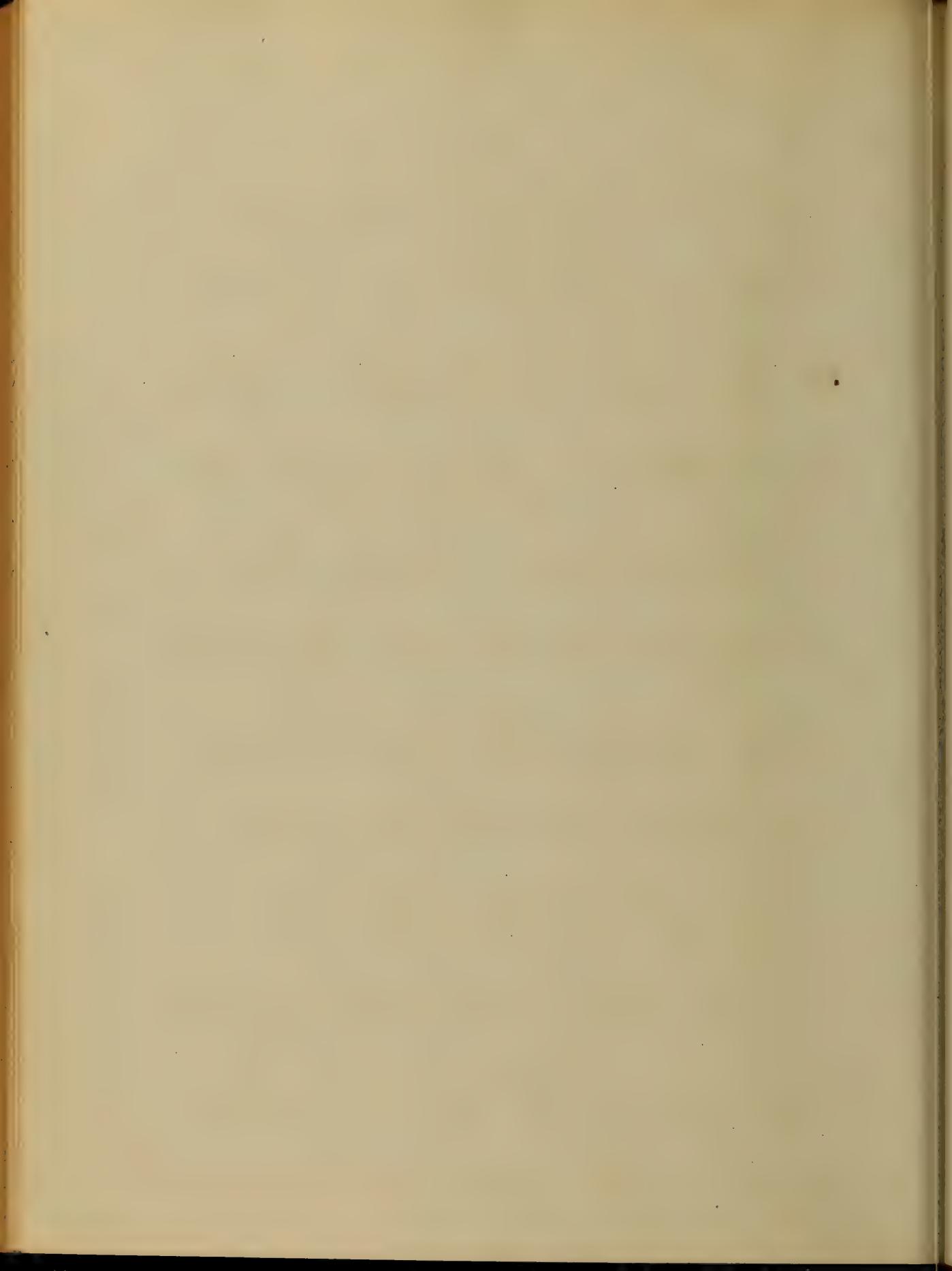
- dry cough. The pulse is small, in some instances accelerated, even very much so, in others slow, often irregular and feeble.

The secretions are generally scanty; but the urine is usually pale, limped and aquous.

The nervous system is much disordered.

Independently of the tremors already alluded to, there is often severe pain, of a neuralgic character, in the back limb and extremities and sometimes in the

The temperature is frequently subnormal, and the mind confused, fatigued and

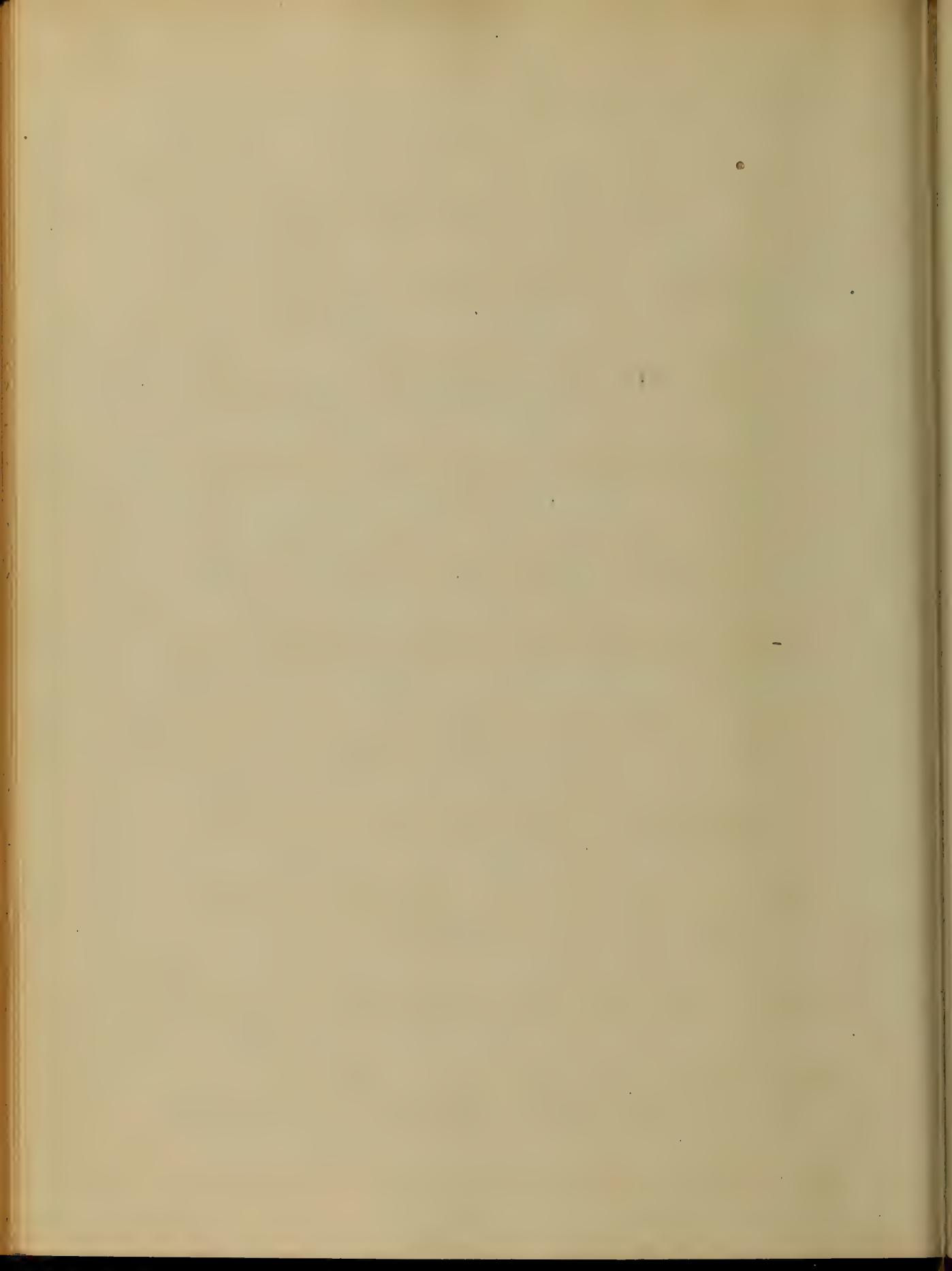


sometimes wandering. - Occasionally there is deliriousness, which, in some rare instances, degenerates into stupor, coma, and even symptoms of convulsions.

The duration of the cold stage varies greatly. At times it does not exceed a few minutes, at times extends to three or four hours or more. On the average, it may be stated at about an hour.

**Not Stupefaction** - The passage from the chill to the hot stage is not abrupt.

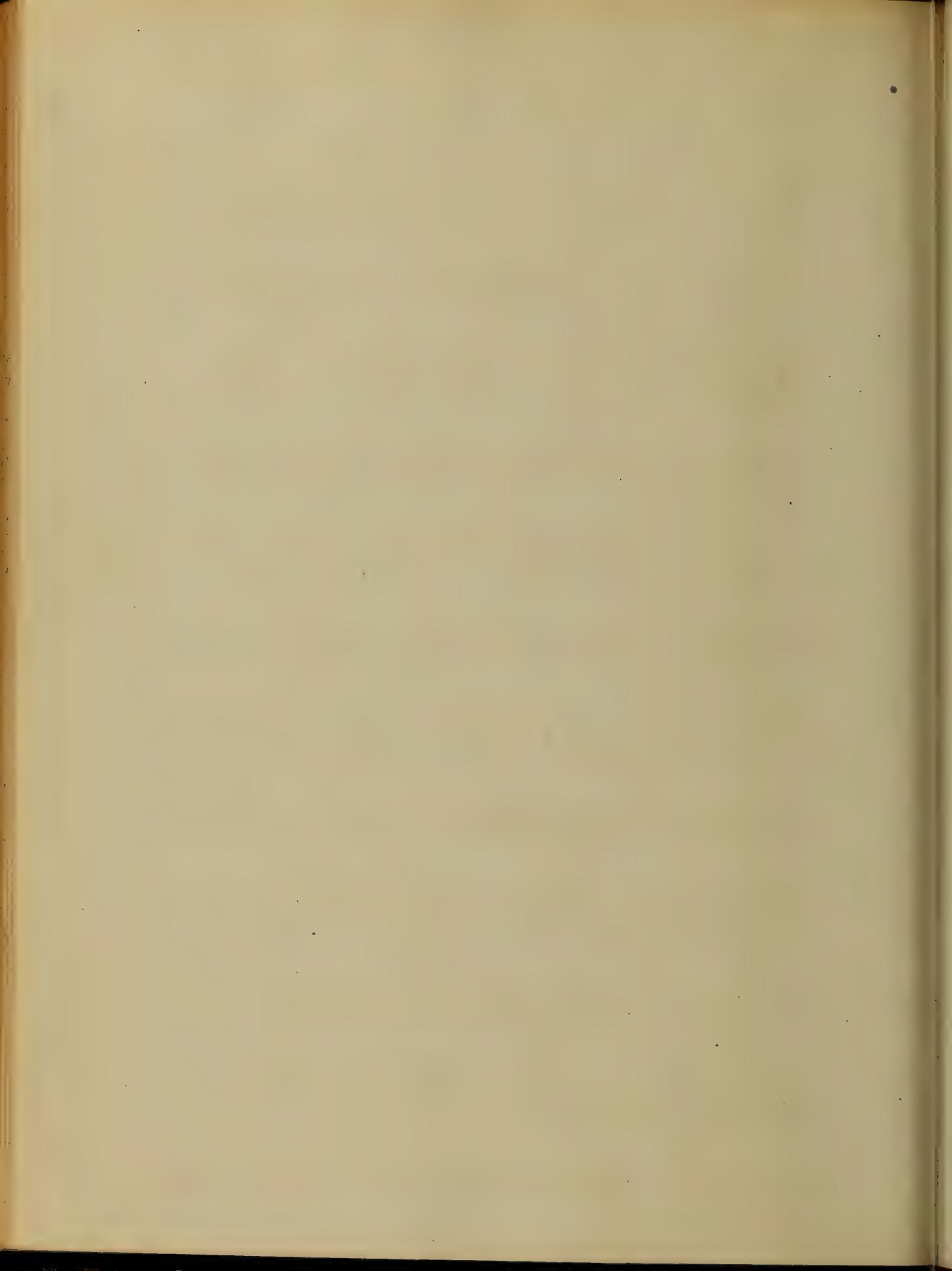
Rigors for a time alternate with flaccid



of heat. The first sensation of warmth  
are rather agreeable than otherwise.

A glow is felt about the face and  
temple, and the patient is conscious  
of increased heat of breath.

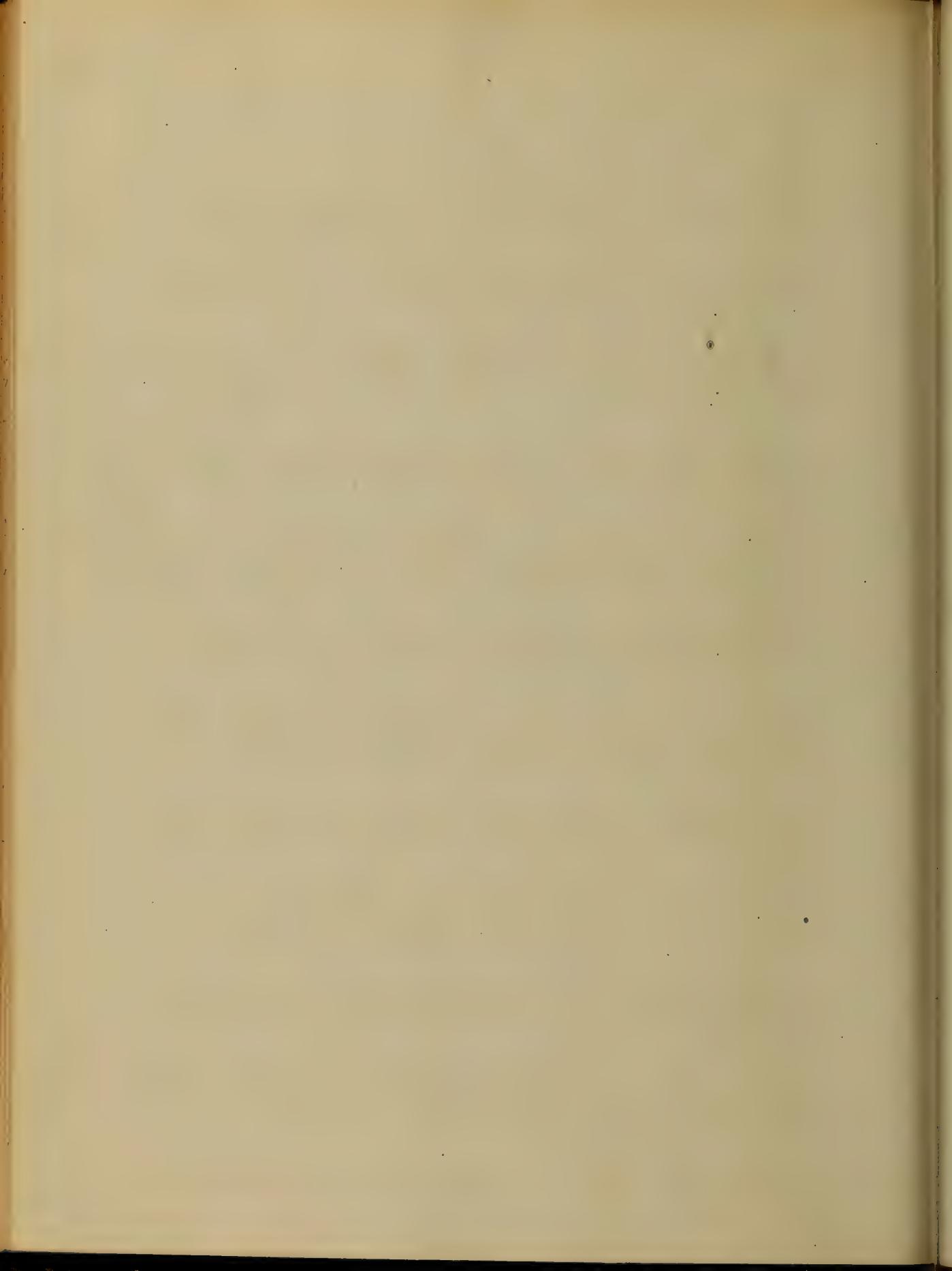
Gradually the whole surface becomes hot;  
but even now if a limb be moved into  
a cold part of the bed, sudden chills are  
felt, vibrating disagreeably through the  
frame. At length all traces of the cold  
stage disappear, and the patient is  
affected with a universal burning heat.



The cheeks are flushed, they are warm, the surface is everywhere reddened and the skin distended with blood. The evidence of increased heat is not confined to the sensation of the patient. The temperature of the body is positively increased.

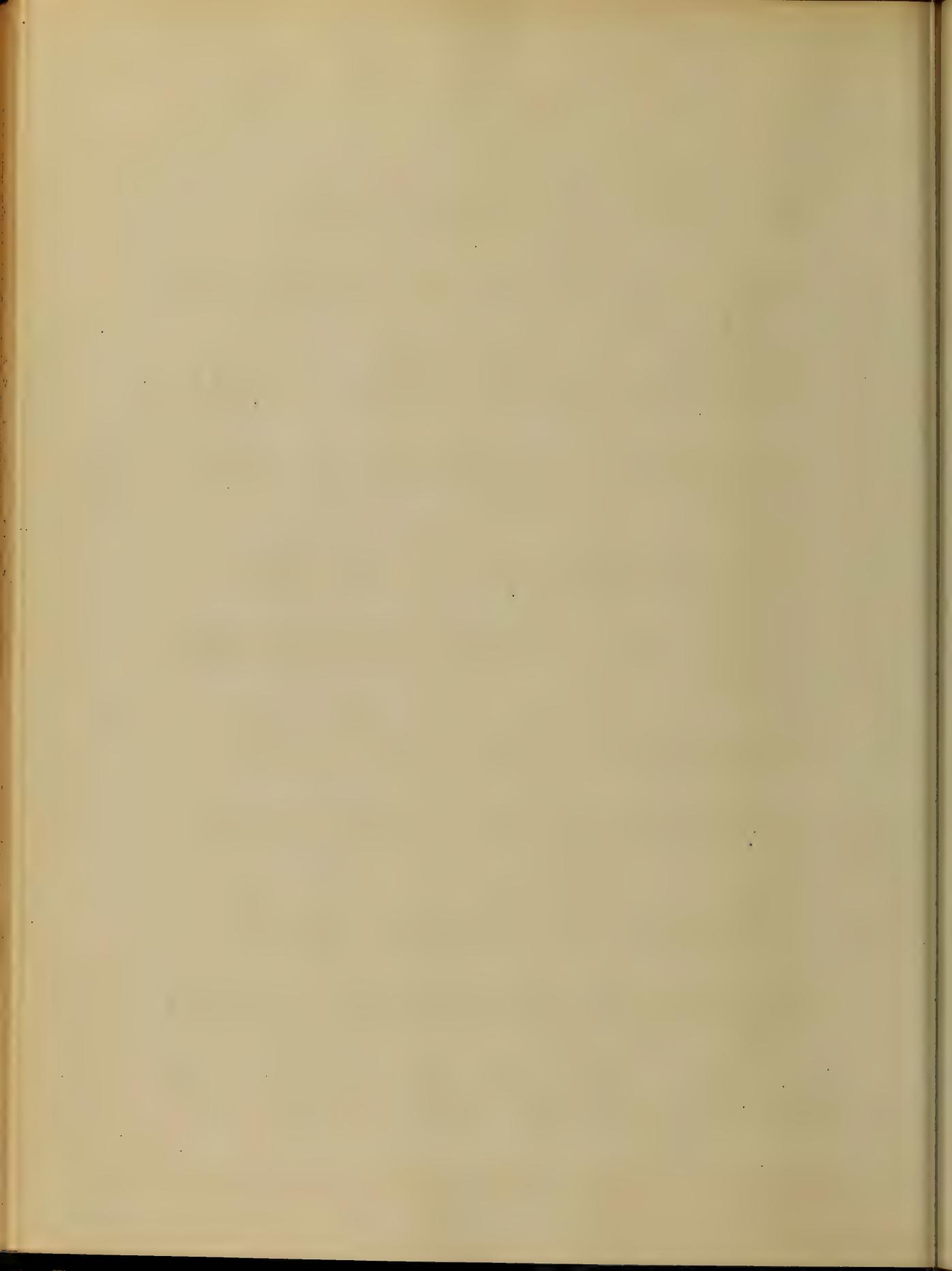
It has been found by the thermometer to range from  $105^{\circ}$  to  $112^{\circ}$  in warm climates.

The mouth is not very dry, the tongue usually warm; and the patient generally complains of great thirst, though this is not invariable. There is also a violent temper-



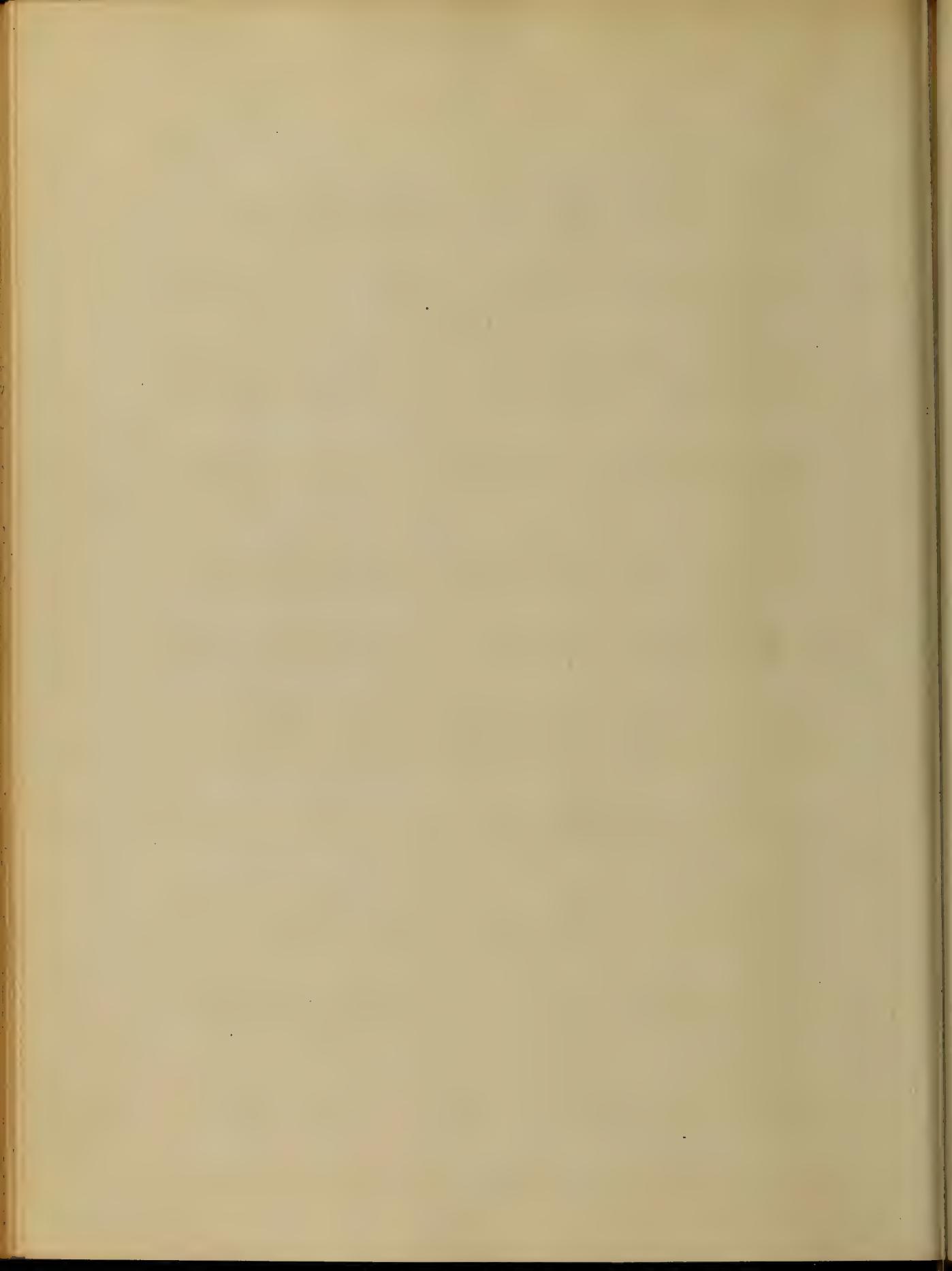
food, and consequently nausea and  
vomiting. The respiration is more regular  
than in the chills, but is still accelerated.  
The pulse is more frequent than in health,  
and is usually full and strong.

In some cases however, when the heat  
of the system is adynamic, it is not once  
frequent and feeble. At the sometime  
are diminished; the skin being dry as  
well as hot, and the urine scanty and  
often highly coloured. The head is almost  
always painful sometimes very much so.



and the suffering from this cause, as well  
as the general violence of the febrile reaction,  
is often greater than is usual in remittent or  
continued fever. The pain is frequently  
throbbing, with a feeling of distension in  
the temples, and seems to be deep in the  
head, unlike that of the chill, which is  
generally superficial.

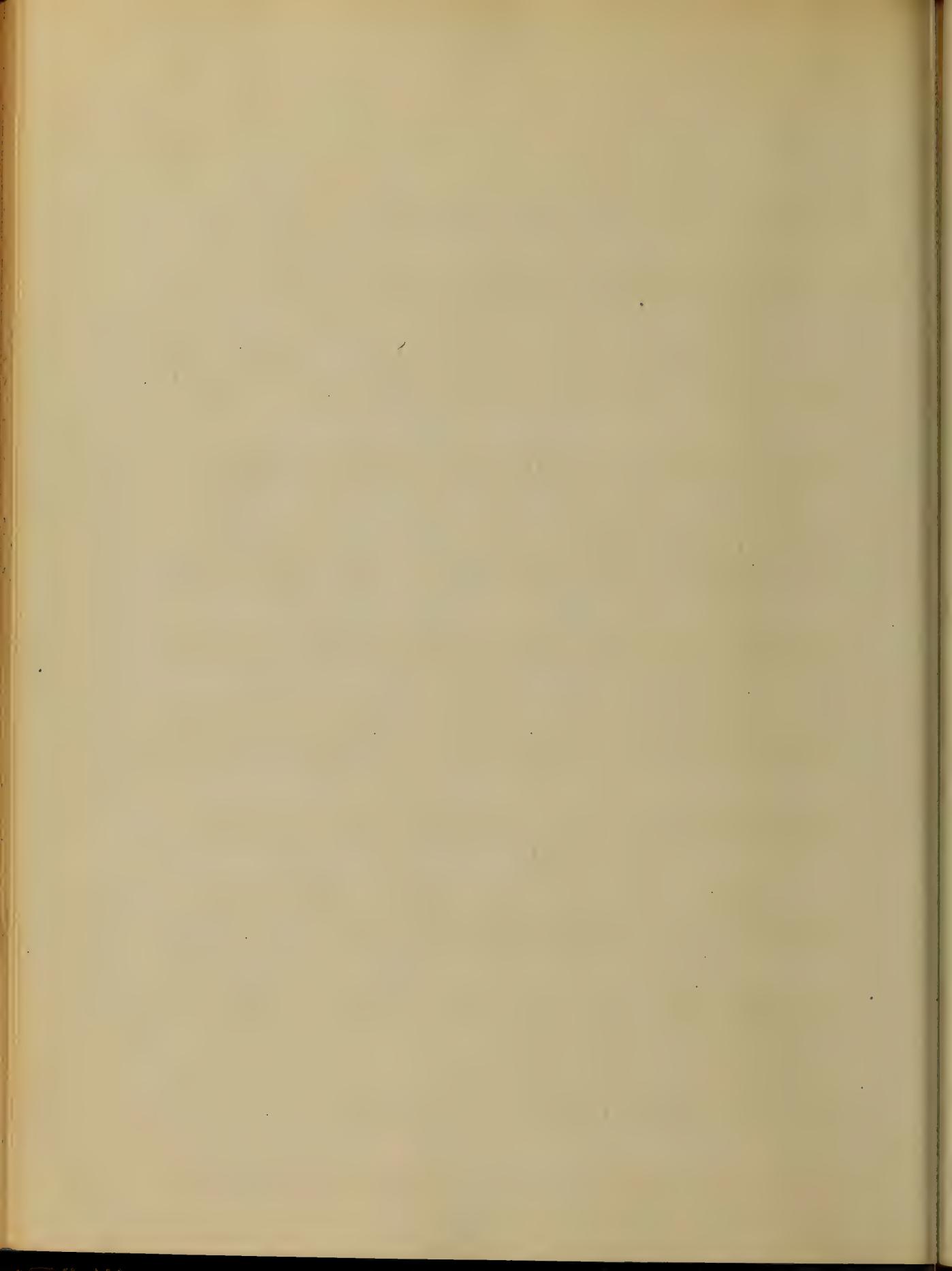
There is frequently also pain in the back and  
limbs. Convulsions are not uncommon  
in children at the commencement of the  
first stage. The duration of the first stage varies



from two to eighteen hours or more.

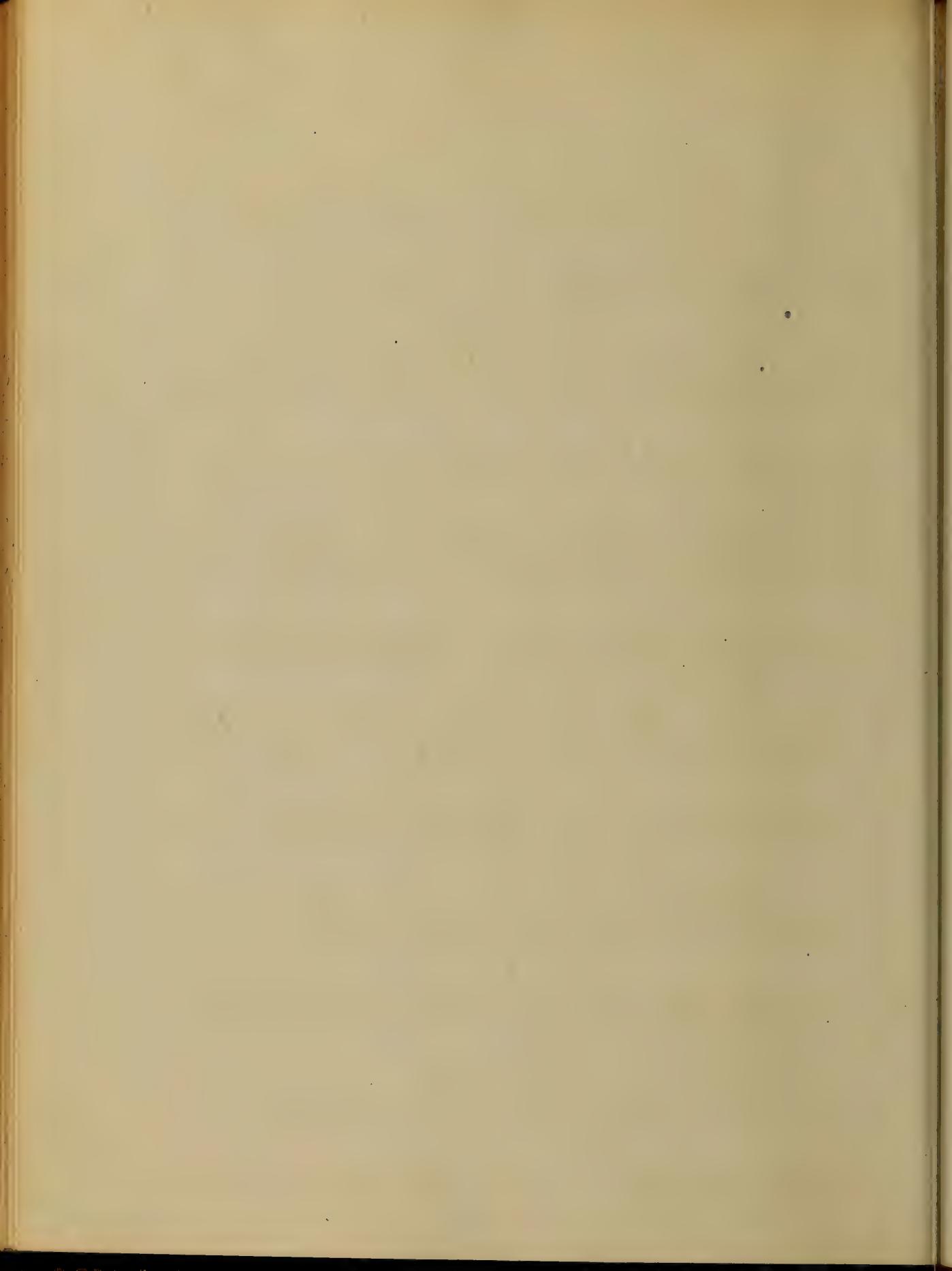
Sweating Stage.- Respiration generally appears first upon the face and breast, and gradually spreads over the surface; at times slight but generally copious, and occasionally very profuse.

Upon its first appearance, the patient begins to feel some relief, and the febrile symptoms gradually subside with it. The skin becomes cool, the excitement of the circulation subsides, the mouth becomes dry, the headache disappears, and the patient



frequently falls into a calm sleep from  
which he awakes free from fever.

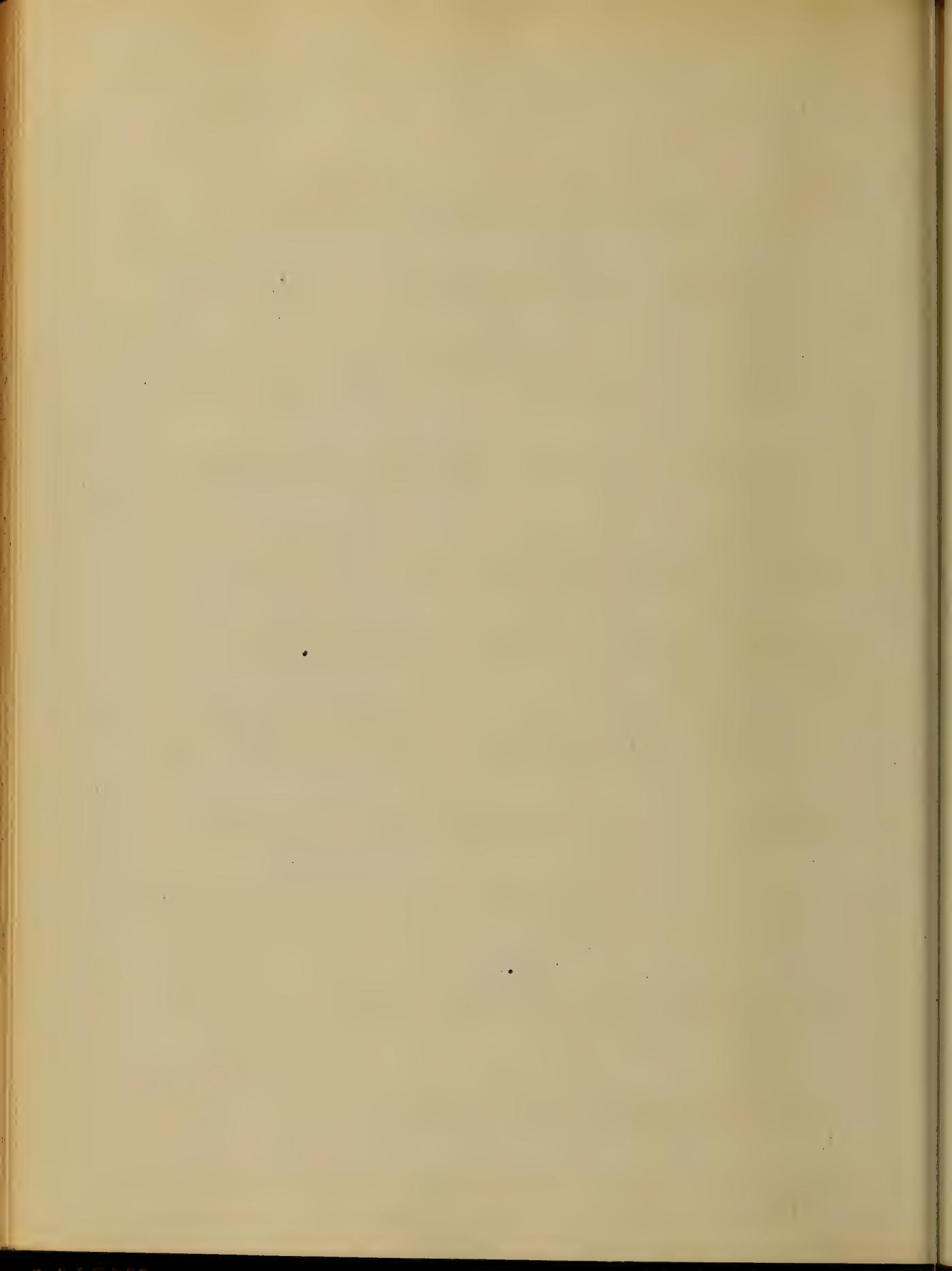
The kidneys now resume their functions, and  
the urine which is discharged, very often  
deposits a tertitious sediment upon  
cooling. It has been stated that the cold  
stage produces the hit, and the sweating;  
but this is scarcely probable, at least with  
regard to the two first stages, which bear  
no proportion to each other; a protracted  
and sever chill being frequently followed  
by less fever than a very slight one, and the



fever sometimes occurring without any  
preceding chill whatever.

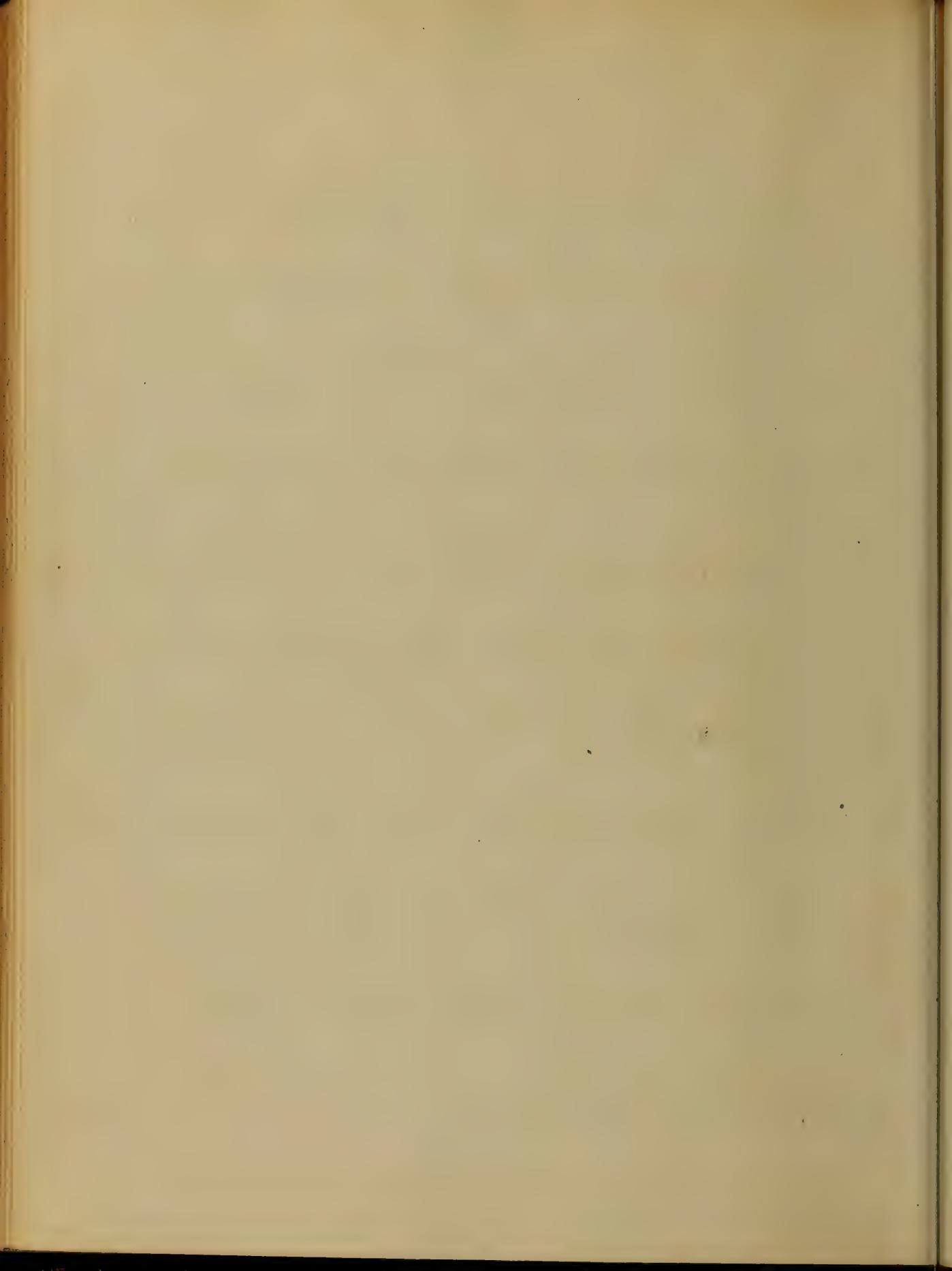
The probability is, that while the depression  
of the cold stage is naturally followed by  
some degree of febrile reaction, as a nec-  
essary consequence, the morbidic cause,  
whatever it may be, is capable of inducing  
the hot stage by a direct influence.

The whole duration of the paroxysm is pretty  
constant. - The animal is often a quiet  
morbific agent, commonly retaining  
materia. The production of the spasm



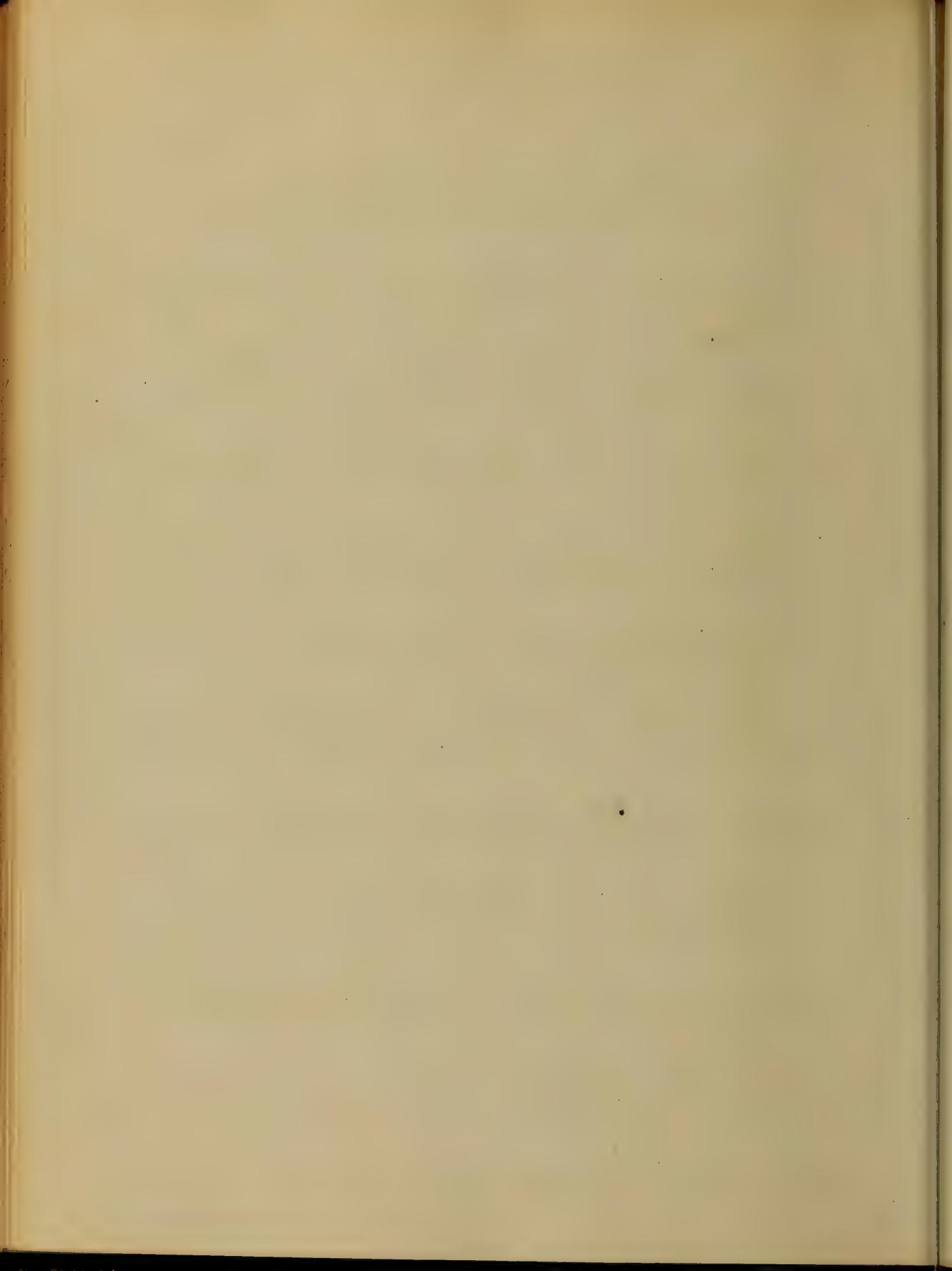
cause, was attributed to vegetative de-  
composition in marshy localities, and  
called Marsh Miasma. Observation  
shows that it is generated more espe-  
cially in marshy situations, but its  
production is not confined to such  
situations.

Diagnosis.—In well marked cases  
the diagnosis offers no difficulty.  
The type is to be determined by the  
duration of the intervale, and a com-  
parison of the paroxysms.



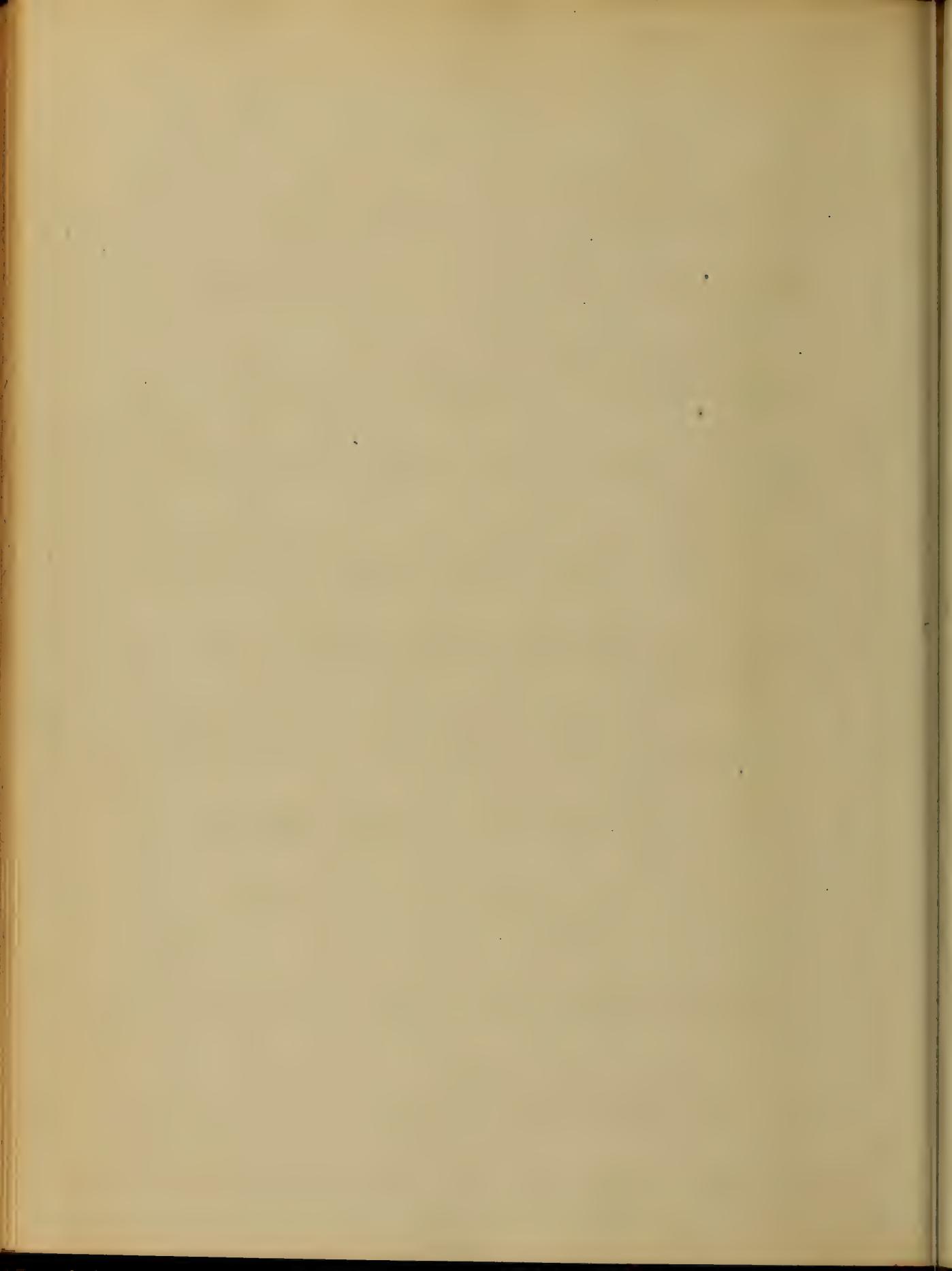
X)  
Prognosis.- Ordinary intermittent fever, as regards immediate danger, is not a grave affliction. Whenever the disease involves danger it is to be considered as not belonging to ordinary intermittent fever.

Treatment.- For the cure of intermittent fever, medicine possesses specific, and remedies are entitled to the appellation. This statement applies especially to the salts of Quinine, which the sulphate is the one almost universally used.



The sulphate of Quinia will promptly interrupt the recurrence of the paroxysms of intermittent fever, in the vast majority of cases. It is always ~~desirable~~ to arrest the disease at ~~specifick~~ <sup>its</sup> crisis.

As regards dose, the most effective plan is to give the remedy so as to produce evidence of cinchonism, as ~~specifick~~ as possible. It should be given in small and repeated doses. The most effective form of administering it is in solution, its solvency being secured



by the addition of a few drops of  
the Aromatic Sulphuric Acid. It may  
be given, however in powder, or pills.

Respectfully Submitted by  
Abram Fregd. Shertzer  
of Harford County  
Maryland.

