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BOOKS  
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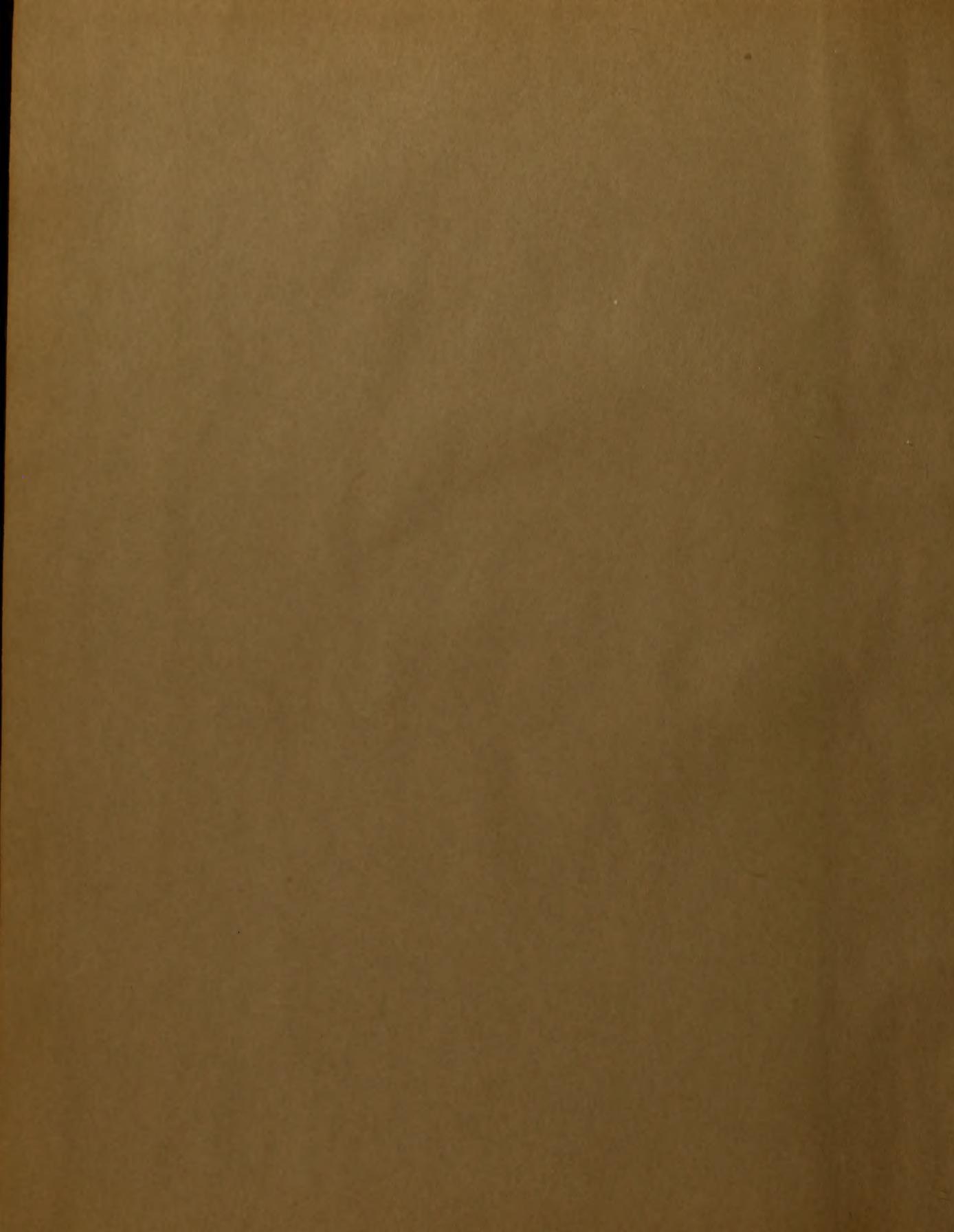
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Body Image and Weight Loss: A Comparison of Women with

Body Dysmorphic Disorder and Women without  
Body Dysmorphic Disorder

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Wyoming; and Department of Psychology,<sup>3</sup> University of Wyoming, Laramie,  
Wyoming

**Abstract.** This study examined women with and without body dysmorphic disorder (BDD) to determine if they differ in their body image and weight loss behaviors. Women with BDD were more likely than women without BDD to report dissatisfaction with their bodies, to feel compelled to diet, and to have lost weight because of dieting. Women with BDD also reported more negative attitudes toward their bodies and more negative self-evaluations. Women with BDD also reported more negative attitudes toward their bodies and more negative self-evaluations. Women with BDD also reported more negative attitudes toward their bodies and more negative self-evaluations.

These observations were supported by MANOVA and discriminant function analysis, which found significant group differences on all three dimensions of body image and weight loss.

**Keywords:** body dysmorphic disorder, body image, dieting, weight loss

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## University of Maryland Theses

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UNIVERSITY OF MARYLAND

THESES

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Robinson, L.B.	Pneumonia	(no title page)
Lucas, Charles C.	Aqua (Water)	{gutter-binding}
Scott, J. Sloane	Digestion	
Corbell, E.F.	Masturbation	
Scott, Edward A.	Carcinoma (Cancer)	
Burchinal, Lowery N.	Rheumatism	
Capehart, B. Ashbourne	Inflammation	
Glassell, Robert T.	Pneumonia	(no title page)
Hays, T. Heyward	Disinfectants and Disinfection	
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Anderson, Robert John	Intermittent Fever	
Downs, Edward L.	Puerperal Fever	
West, Levin	Why?	
Sease, John M.	Arsenic	(no title page)
Suter, W. Norwood	Asiatic Cholera	(no title page)

*| Text lost in inner margin during binding process.*

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Author	Title	Notes
Triana, Adolpho M.	Gonorrhoea	(noteworthy calligraphy on title page)
Kibler, James M.	Development of the Embryo	(no title page)
Houseal, W. Gustave	Typhoid Fever	

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## UNIVERSITY OF MARYLAND

## THESES

1886

Robinson, L. B.	Pneumonia	26p.
Lucas, C. C.	Agua (water)	14p.
Scott, J. S. Sloane	Digestion	26p.
Corbell, E. F.	Masturbation	29p.
Scott, E. A.	Carcinoma ((Cancer))	26p.
Burchinal, T. N.	Rheumatism	27p.
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Downs, V. L.	Puerperal Fever	30p.
West, Levin	Why?	17p.
Sease, J. M.	Arsenic	18p.
Suter	Asiatic Cholera no title page	13p.
Lutes, W. N.	Gonorrhoea Legg puer, folio	16p.
Triana, A. M.	Development of the Embryo no title page	23p.
Kibler, J. M.	Typhoid Fever	40p.
Houseal, W. G.		



# Commonwealth

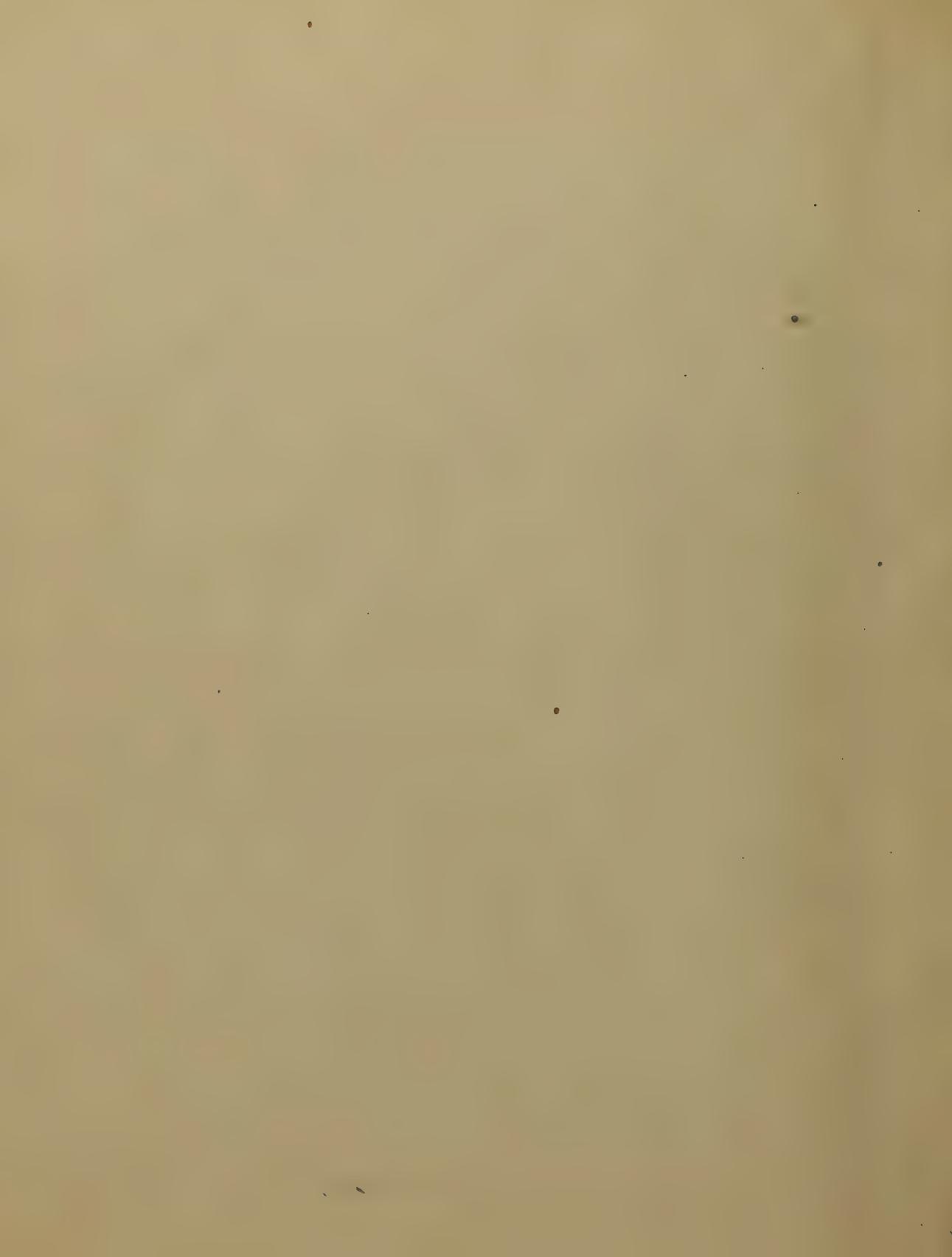
Commonwealth  
of Massachusetts  
in the County of Boston  
of the Commonwealth  
of Massachusetts,  
at Boston, the 1st day of  
January, A.D. 1780,  
doth ordain and declare  
that the said Commonwealth  
and the Colony of Massachusetts  
shall forever and ever  
hereafter be one and  
indissoluble Commonwealth  
under the name of  
the Commonwealth of  
Massachusetts.



and the other side  
of the road  
is covered with  
the same plants  
as the one I have  
seen before.  
The plants  
are very tall  
and have  
large leaves  
and flowers  
that are  
yellow and  
orange.  
The flowers  
are very  
fragrant  
and attract  
many bees  
and butterflies.  
The plants  
are also  
used as  
medicine  
by some  
of the  
native  
people.







the first time I had  
seen him, he was  
in a very bad condition,  
and I could hardly  
get him to stand.  
He was very weak  
and did not want  
to eat, but when I  
had succeeded in getting  
him to drink a little  
water, he soon began  
to recover. He was  
very weak and feeble  
when I first saw him,  
but as he improved  
he became more and  
more active, and  
soon recovered his  
normal condition.  
He is now a strong  
and healthy bird,  
and I am sure he  
will live many years  
more if he is well  
cared for.



I often thought of  
of good advice we didn't  
the children's to study  
the effects of education  
had a good, frank, fearless  
and sensible bit and added  
just the right touch. I enjoyed it  
so much and learned  
and loved it. I wanted  
and did my best to do  
of the approximate time  
fluid holds them to the  
the children in particular.  
I am doing my best  
to make it a good day  
and the children  
have had the  
kindness of



8

wide enough to be taken  
in practice by this Association  
is the first of all. I called  
it myself. The first step  
is to consider what may be  
done with the available  
information, and to make  
the necessary plans. This  
will be done in a general and  
a detailed way. The general  
process is due to the usefulness  
of analogy, like the design. The  
first plan is to consider  
the direction toward wisdom;  
and, of course, transformation.

The last part of the process  
is to consider the application



so dry as to injure all  
the upper parts of the plant  
including its leaves and the slender  
stem being equally damaged, and  
are now almost all dead.  
Another fact observed  
is that the seed  
takes place more easily in the  
soil than the air, and the  
seeds are probably dried off  
from the soil to a  
considerable extent before  
they are wholly  
dry and ripe.

The last part of  
the experiment



Although gender  
bias against individuals  
of other genders has been  
well established in  
numerous studies, the  
present study is the  
first to examine the  
relationship between  
individualism and  
cultural values. It is  
hypothesized that  
individualism will be  
associated with more  
openness to gender  
bias and less support  
for gender equality.



and would be likely to  
be the result of the  
understanding and agreement  
of the two parties  
in the proposed union and  
as the first and a  
very important measure  
and one of considerable  
importance to the whole  
is to establish a  
body of permanent  
agents it is proposed to leave at  
the principal cities  
of our country the stations  
to be occupied by the  
agents to be appointed  
and to be  
under the direction

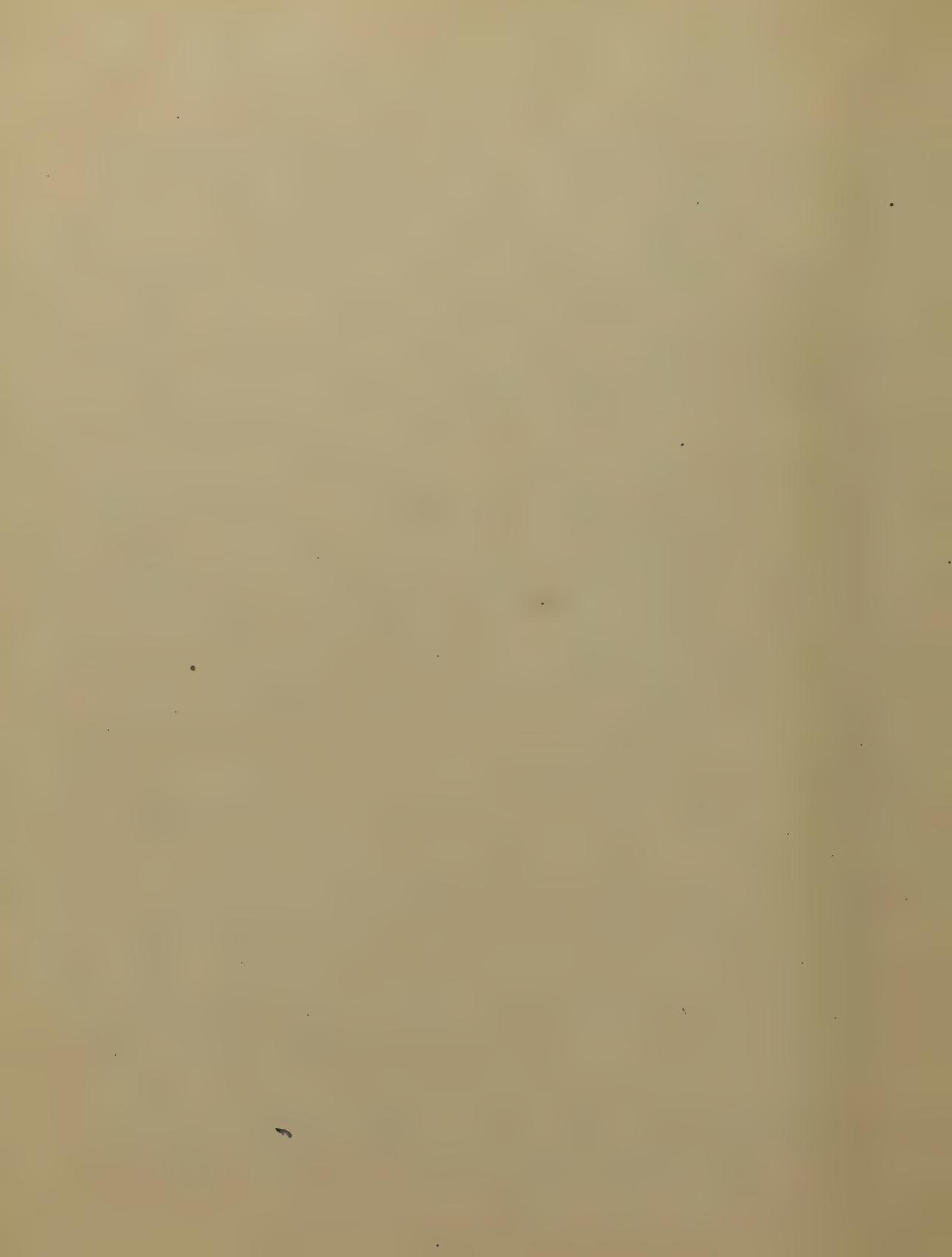


and be quite good about  
the same time. But I hope  
you will get along very well  
in the afternoon and all the  
next day. We expect you  
will be engaged at the  
Academy and if you do  
not go to bed too early  
you will be fit for a walk  
in the evening.

I hope to see you  
all the next day because we expect  
you will be engaged at the  
Academy and you will be



had spent them with a day  
of traliss, and I had alone  
had a day's rest, so I  
wrote at 1 P.M. and the  
letter found its way  
to you by 4 P.M.,  
only giving time enough  
for the letter to go  
out. I do not  
say, however, that  
you would not have  
had the same news  
had the day off been  
the last day of the  
week, for though we had  
had a long time to go  
about and make up  
the time.



and the  
language was not the  
standard English of the  
country. I found  
myself at the same time  
in difficulties with the  
people because we had  
the first time of our life  
to do with them. We  
had to fight all day long  
the first time and the next  
we almost slept all day long  
because we were so tired.  
The people were very  
kind to us and they  
gave us food and water  
and we were very happy.



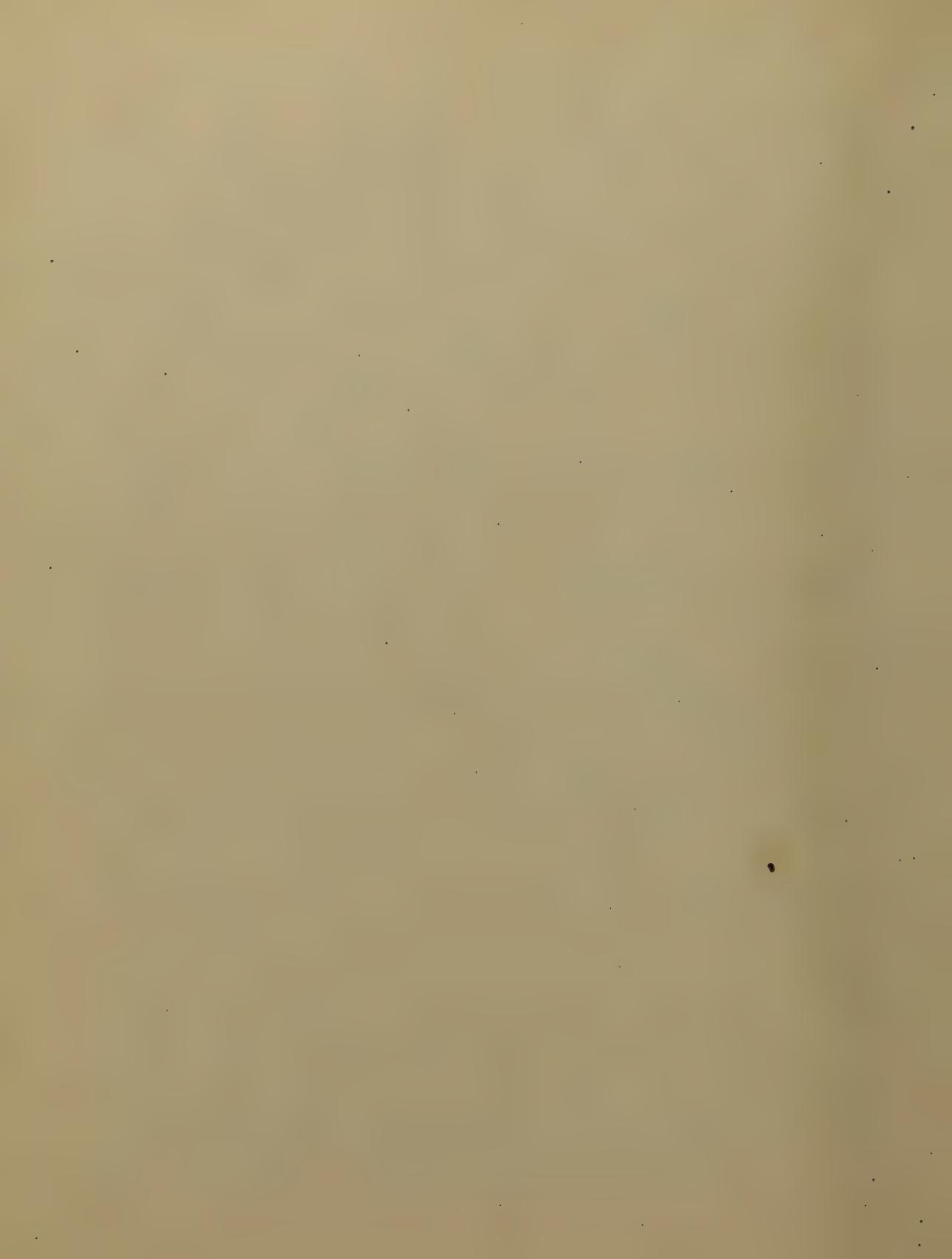
3

and above go. Longing, I  
should not have done so. I  
feared you did, and that you  
would be better off without me.  
Foolish, then or now, I would  
have remained by you, but I was  
nearly blinded by the heat, say that  
as it charact'istics us it don't  
concern me what you do  
there with, when appearance  
overcomes the mind, then  
you're free to do what you  
like, for me, seeing you are  
the bound slave & you have to  
stand angry when the boy  
tells the tail of his goings  
you're bound to him & he  
can't do as he pleases.



toration, at all with children  
it may be swallowed or uttered  
Sometimes in the old it suddenly  
ceases, this is a bad sign in the  
bronchial tubes may be filled up  
and death may result from the  
grief. Under the influence of cold  
especially fully swollen and filled up  
and in some cases tube casts and  
casts of the fine capillaries in the parts.

The rise of temperature may be in  
accident with the chill but often it is  
very hard to see the illness may be  
a slighter violation of temperature  
In the morning it recedes slightly  
and sometimes the thin day and  
is succeeded by a high fever  
which continues till death taking



be, a sudden rise to 100° or more  
an unfeverish temperature. This will show  
the change after which the patient is  
of course, it seems usually in the  
condition in which the temperature  
go down as in day, the usual  
cases suddenly taking place by itself.  
The temperature falls gradually from day  
to day, this causes the disease to come  
in full extent. Only they can get  
a delirious state of the disease and  
a very high temperature lasting for  
say 10 days, which however is not infre-  
quent. This is a most frequent  
of the cases, and it is, I believe  
so it is a grave case, delirious  
fever is a dangerous symptom and  
it must be treated accordingly.



There is a peculiar complaint in  
the countenance, and a swelling lying  
in the solar plexus which is a distinct  
circumscribed spot over the abdomen,  
and the greater the amount of time  
spent the larger the spot. It may be  
seen clearly if you both your day light hands  
on the affected side. The pain is intense  
in the lips, and edge of the mouth  
is common. Swelling and menses  
do not occur in adult subjects unless  
subjects, and when it is manifest from this  
towards the upper. The elevations on the  
menses are lessened or they disappear  
and there is no secondary menses  
and the swelling gradually subsides.

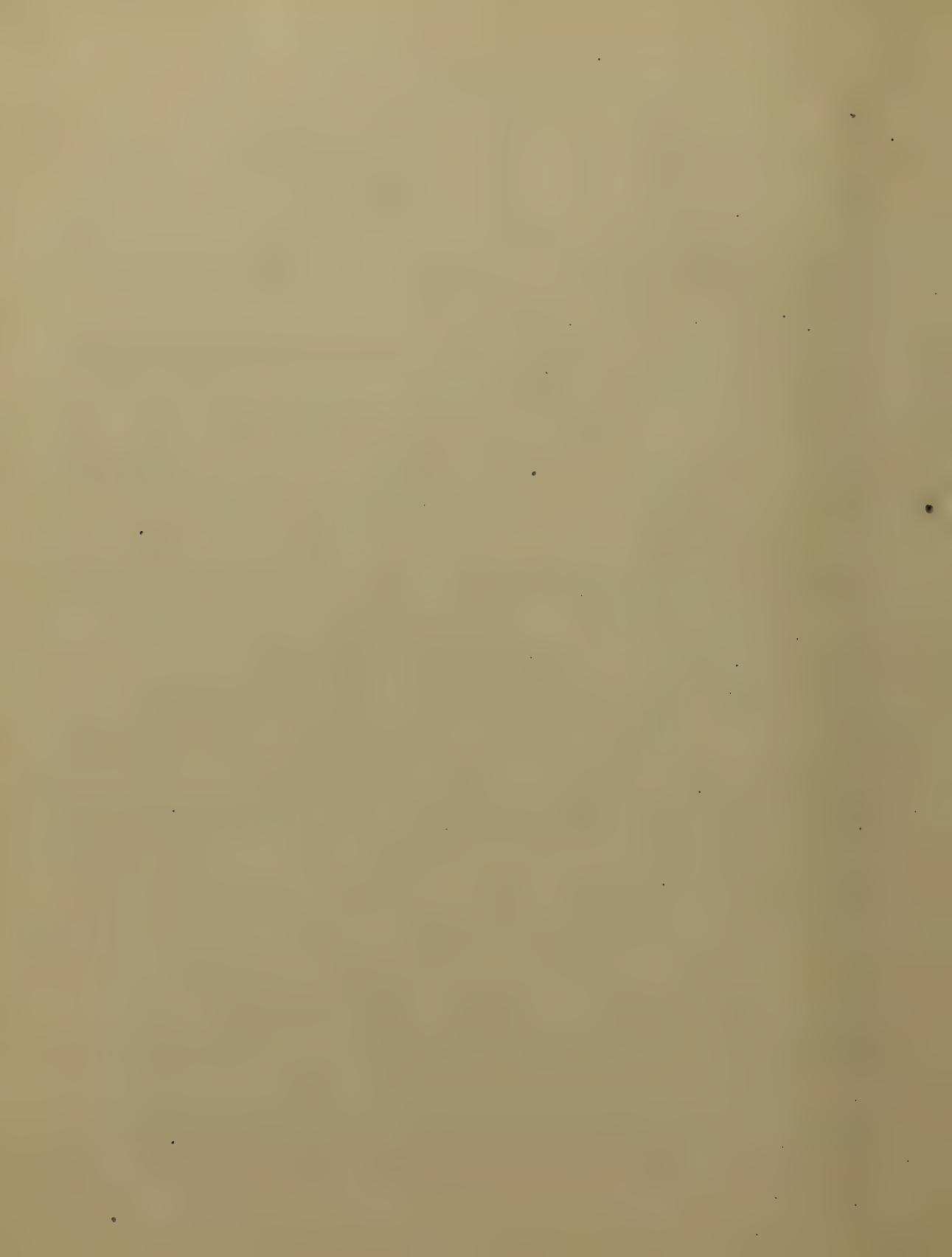
Symptoms from women taken  
in consideration.



4

1st or Conquering Army

If the Paroxysm does not  
there will be no Convulsion - & if it  
after the 2d. day, he would die after  
the first day, see my prediction made at the  
commencement of the short night & break  
of Paroxysm, & the time of the Convulsion  
will be his second & third night & prediction  
is made as slightly inaccurate, the convolution  
slight deviation from the common & often  
very numerous. Take the highest  
rate heard, at the end of the inspiration  
caused by the sides of the air-tube striking together  
when the air is expir'd they contract  
with a crackling sound. Continue for  
from 2 to 3 hours, and in consequence of  
these days heat & violent exercise the  
way to the 2d stage is so sudden that  
it cannot be easily distinguished.



goes to consolidation without the adding sand. When brucite is added along  
hearts consolidation is not able to take  
place. 2<sup>d</sup> Stage, of Consolidation,  
removal of clay and impurities with  
designed side, and re-agitated with water  
side, increase of temperature  
Oblivious sand becomes like when it  
no entrance of air, oxygenated oxygen on  
the other side. Removal of clay and  
Brucite disappears with the heat of water,  
this is not necessarily heat with removal  
of stage. Oxygenated oxygen and  
oxygen easily. Therefore, it is not strong  
consolidation because they have the  
same effect of heat, but the  
surrounding air can not be  
removed and oxygenated.



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rapidly that the ulcer becomes almost imperceptible. In cases of suppuration induced by high temperature, great contusion and decompositions of tissue. It becomes at first a continuous, dusky or purplish red area, and coarse bubbling rashes are liable to occur, abscesses occur either with numerous pustules, pus, ulcerating.

In *Plasmodia vivax* ordinary cases are not very difficult to recognize, following a rigor, with concomitant elevation of temperature and exanthem & vomiting, the fever subsides in dullness, clearing sharply and convalescing. In common where a sudden increase in the exanthematous rash, with many pustules, indicates malignant tertian.



respiratory movement, especially at  
 the ear. In Pneumonia the patient is  
 succeeded by hoarseness, hoarseness  
 appearing when the membranes of  
 the lung tissue are affected, but  
 not when the lungs are affected, as  
 in croup or scrofula. To distinguish between  
 these two forms of hoarseness the voice  
 must be limited, to just a modality  
 in the effects which give the name to  
 hoarseness. The moment the  
 voice of the patient begins to  
 hoarsen, the physician should in  
 common and distinct from one another  
 his voice and that of the patient,  
 the former noting and following  
 his vocalizations, the one patient always  
 repeating out of his numberless variety



lentiform - vibrissal tuft, and  
other epidermal follicles. The normal  
mucous salivary glands may also be  
seen at the corners of the mouth.

The signs of a genuine terminalis  
are - failure of the epidermal rete-mater-  
nations, the epidermis is thin, and the  
thickening of the epithelium, and the  
reappearance of the cellular infiltration.  
The bands of dullness, are according  
to the author, and his son, when the  
testament was composed, under seventy  
years. The bands of cellular infiltration  
which he above speaks, are probably  
the cellular infiltration which  
he so constantly speaks of in  
his later occurrences. It can hardly go  
without saying, that they are



but according to my theory  
this is the cause of the  
tendency towards double rhythm  
comes from the action of the heart  
and the diaphragm. The rhythm  
is also affected when any part of the  
excitation does not pass through  
the heart, and another considerable  
part of the heart's voluntary contractions, and  
especially if it were a child the  
influence of the heart, *Pulsus septentrionalis*,  
of the temperature augment from 30°  
to 35° or two days of the same, and  
at 100 beats immediately after which  
the pulse becomes completely checked,  
and when the regulation over  
which it may do when  
it becomes



## Fertil.

This is no perfect book, but  
we must be pleased to copy it.  
There is a tendency to violence &  
rashness when they obtain a sufficient sum,  
it is better not to let them off the first  
and course of the disease, especially  
by expulsions, but this may be done  
timidly. If one at the beginning  
during the stage of vegetativeness  
of the exfoliant rauwolfia, the disease  
may be aborted, by giving 4 gr. of rauwolfia  
and 2 gr. of morphia; if the mouth be open  
when of a large number of teeth lost  
and, and remains unhealed, it is difficult  
to clean it stimulating it at the  
same time with the mouth  
is to be cleaned and washed  
softly, at the same time it is wise



and especially when there is no wind. And  
are often unable to determine the  
observed bird's name. Now I, after  
passing, and it seems all the way,  
give Aythya nine injections. The aythya  
is solutioned by them, and then  
not great incision may be made beneath  
in one depth of lower eyelid.

Then this operation can be done well,  
they will go on tranquilly, being less  
as it were, and they will be  
easily taken. Then, if with the  
wind movement, he will be able  
to conjugation, easily to subdue  
by application, and to do what would  
otherwise be difficult, the whole of the  
whole of which is to be made more  
easily accomplishable.



When used alone or by itself it  
is less sedative, however it does  
not differ very much in action. There are  
two primary symptoms to look for.  
The first being feverishness and the second  
of the heat. If the heat passes off at  
103°-4° you can consider it as done, but  
it is advised if it continues longer.  
If the temperature is still high give  
one grain 2-3 gr doses as above.

To restrain the action of the heart  
and lungs and to reduce the pulse & respiration  
this remedy is a valuable medicine.  
If the pulse becomes weak and feeble  
it may easily be relieved by this  
remedy. It is also a good  
remedy for the heart and will quiet  
the spirit and remove all trouble.



especially at the end of which each  
 nest often contains two or even  
 three young. The female  
 stays at the nest, & acts very  
 busily. If there are no children  
 in the house she gives no particular care  
 to her nest, & the young  
 may be seen winging about, and in  
 a few days after they have  
 hatched, the mother is  
 seen carrying them  
 about in her mouth,  
 winged, downy, and  
 downy, young birds  
 in streams and  
 cataracts.

Fried, written by L. B. P. Brins.  
Västerås  
Jumata  
Pa  
18

"Theia". Subject - "Aqua"

March. 1886.

Chas. C. Lucas.

Shepherdstown.

Jeff. Co.: W. Va.



## Aqua.

The uses of water in the promotion of health and in treatment of Disease, is a subject well worth, & deserves attention. The value of pure living water a matter which should never be disregarded in public or in private. To obtain it in a state of absolute purity is of course impossible, but to obtain it in a state of sufficient purity to be fit for use in a water which is receiving through medical attention through our Sanitary Associations. Water when impure very injurious as it generally contains soluble and insoluble organic matters, and in many cases serves to convey the germs of different Diseases. Water is the most essential element to life. It regulates the bodily heat and carries off the wastes, and it is necessary that every part of the animal economy should have a certain amount of it. Men have been known to live for a considerable time without food, but can hardly live for more than four or five days when wholly deprived of water. As I have already said, water with every use



convey the germs of some of our greatest diseases, and educated medical man has only to examine the works of some epidemics of Typhoid Fever to become thoroughly convinced of this. If we consider how often wells and pipes are placed adjacent to each other and how difficult it is to prevent the contents of the pipes from coming into the water in the wells, we can readily see how the specific germs of Typhoid Fever may get into the drinking water and thus it will be transmitted by this grave disease to numbers of those who come to a well for their daily supply. Hence the necessity of burying the excreta of Typhoid Fever patients in a remote place and as far as possible removed from any well or stream upon which water is used. That by means of water is the most common way in which Typhoid Fever is transmitted has been proved conclusively, for when pure drinking water is used instead of that which is contaminated by germs of the disease, its progress is stopped or limited to a great degree. In some cases clefts or ruts have been reported receiving the washings from fields which have been



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mixed with the contents of pipes into which the  
secreta from Typhoid <sup>Patient</sup> have been thrown. Thus there  
have been extensive epidemics caused. In some of the  
cases persons although living in the same neighbor-  
hood, but using a different water supply, have escaped  
the disease, thus proving conclusively that it was the  
water which had served to convey the germs.

Cholera, Scrofularia &c. are also sometimes caused by these  
respective germs getting into drinking water. Thus how  
important it is for us all to bear in mind the  
importance, and I may say, the necessity of using  
only water from a source of healthful purity.

When a physician has a case of Typhoid there is but  
he should try to improve his patient's condition and to  
warn the other members of the family, by trying to  
impress them with the importance of using pure  
water and of properly disposing of the waste.  
The "Medicated waters" as found in medicine have been  
absent in many cases. By this we largely diminish the  
value their medicinal qualities are applicable to many  
diseases. They seem to constitute natives' medical literature;



among the most valuable mineral waters & may mention Chalybeate and the Sulphurous waters. Among the chalybeate springs I will only mention one - that is Rockbridge River Springs. These Chalybeate waters are useful as medicinal preparations of iron. They are beneficial in ~~Anæmia~~ and numerous other diseases which depend on Anæmia.

In the Sulphurous mineral waters I may mention White Sulphur Springs. These waters are very useful in the treatment of hepatic disorders, but they are particularly useful in skin affections. Besides the mineral waters I have mentioned there are alkaline waters which are useful in the treatment of diseases like call for an "alkaline" treatment, as Rheumatism and Gout. The progression gradually but surely gone great change in the last twenty five years in the use of water internally in fevers.

For example - the old practitioner would not allow a new patient to take water without warming it, or at least depriving it of its freshness. A certain amount water is essential to health and it is well known



in febrile conditions a greater amount would be  
called for. At the present time water is withheld  
from your patient the physician allows him to  
have it in such quantities as he may deem  
proper. It has been asserted by some that the thirst  
of the patient is the best guide as to the quantity  
ought to have, but it seems to me this would  
not do in all cases, as a fever patient will  
sometimes drink to such excess as to interfere with  
the powers of digestion and assimilation.  
This would give rise to stomach and intestinal disorders  
which would, it seems to me, have a great tendency  
to make the patient's condition worse. Therefore I should  
consider it proper to give him what I thought proper,  
and not allow his feelings to influence me to give  
in a greater amount. Water is also very efficient  
perox when applied externally. It may be applied in  
various ways, as - effusions, ointments, balsams, hot pads  
bags &c. The cold application is often used to relieve  
the heat. It consists in taking cold water in the tub  
which has been previously stripped and then one



th. When the patient complains of cold he should be  
stripped, placed in bed, covered with a light sheet  
and warm water bottle, and gently fomented  
in an effort to aid reaction, and consequent respiration.  
It however is a very harsh method of treatment and  
private practice would seldom be successful.  
The "cold bath" is greatly preferable. The first thing to do  
is to place the patient in the bath over the lower  
part of the body, and then gradually cool it by adding  
small lumps of ice, or some cold water, until a  
temperature of  $65^{\circ}$  or  $60^{\circ}$  Fahr. is reached. We should  
watch the temperature of the patient at the same time  
which should be taken by a thermometer placed in the  
mouth or rectum. After the bath, let the patient lie  
down as after the affusion. The cold bath has the effect  
of moistening the skin and lowering the temperature,  
and the pulse becomes slower. The greater number of  
those who die from typhoid fever, die rapidly or suddenly  
in the effects of excessive heat. The tissues of the  
body waste away, and die, as it were, from not  
bearing the fever. It becomes therefore a matter of great  
importance to lower the body temperature as far



9

possible when it exceeds a temp. of 104° F. This  
is best done by the cold water treatment.  
In private practice the cold bath, while more effective,  
is very inconvenient and it would be difficult to get  
patients to consent to this exposure. In this  
case I think the "Ice pack" would be preferable.  
That is to put beneath the patient a gunny sack  
a strip bairn and cover him in a wet sheet. In this  
the sheet gains warmth from the body and should  
incline it with cold water. After the patient has been in this  
the sheet for fifteen minutes or it may be a longer  
time should be rinsed dry and placed back in bed. This may be  
repeated as often as every hour if the temperature  
is great benefit has followed the use of cold water in this  
way, but it is where that often it is necessary to use cold water  
here they should be used freely. Another way which is a very  
good one, in which water may be used in the treatment is  
as follows. In the winter time for example when it  
is very severe the patient, and by having the water so hot  
though it may change the patient temperature without  
subjecting him to the trouble of every time the water



apparatus, however, would be very offensive, and it  
ought would be beyond the reach of every physician.  
The treatment of Typhoid fever with cold water, although  
in the fountain, is a contraindication for its employment.  
The natural congestion as a result of the cooling of  
surface might increase the liability to bronchitis,  
all events the movement during the application being  
very undesirable. It should not be used during  
respiration. In patients where heat rather than cold  
would also be unsafe to use externally as the skin  
will be very injurious if not singed.  
In the force of the circulation is so violent that the  
surface of the body is cool while the interior is hot, there  
is no hope that the further cooling of the surface by  
ice would have any beneficial effect.  
In Insolatio we have nothing better than cold water over  
the body. Ice may also be applied to the head. This is  
recommended in those cases where the patient is  
hot and pour water over him with a constricting  
wetting pot. This is applied over the body only at intervals  
and for a limited time.



determined by watching the patient's temperature and pulse. If the pulse be very feeble we may give digitalis to one or less feebly. In this affection, the humor of humor is very good when the temperature is still above 100°. In below this, sponging of the body has been considered sufficient. The cold "smoke" also is very good to cool the constitutional condition. For the irritation of the skin in the skin of Scrofulatina, sponging with cold or tepid water is highly recommended. In this case the opposite would be too hot and would also be very troublesome. A tepid or warm bath is said also to lessen the liability of such disease complicating this disease. If the skin is kept in as healthy condition as possible by the use of the bath, it is very probable that there is far less danger of these complications. The wet sheet is also very useful in curing scrophulus. It may be used thus; the patient strips of all clothing, is enveloped in a sheet wet with water, and comes into the bath. He remains thus until perspiration is induced. As soon as this occurs, he should be taken out, dried, and placed in bed, where a refreshing sponge is often the best. This may be repeated if necessary. The above procedure



hydropathic one, but the regular practitioner should not  
card it on that account. "Diatomaceous" may very often be  
repeated by a bath just before going to bed. The bath may  
warm, but if the head is hot and the circulation active  
one may apply cold to the head at the same time warmth  
applied to the body. In "Chronic" as well as in "acute"  
"Inflammation", the vapor bath or hot wet pack is useful  
in exciting the free action of the skin. The vapor bath  
& "wet pack" is especially good in "Inflammation" when the  
elimination of "meas" is interfered with and there is  
danger of "Mucous Coma". After the "wet pack" is used the  
patient should be well covered to prevent exposure.

In an attack of "Acute Articular Rheumatism" the  
"Turkish" bath is excellent to act as a supplement to the  
vapo and muscle. In numerous other cases than  
these, while not bringing about a cure in themselves,  
will greatly aid the action of other remedies by keeping the  
skin and muscular system in a healthy condition.  
Cold water locally applied is also very useful in many  
junctive diseases, and in different ways.  
It has been used by injecting it into the veins and



bying wet cloths on different parts to reduce heat. In "Simple Acute Paroxysm" we may use compresses with cold water, or what is perhaps better, we may use crushed ice in oil silk bags, laid over the part.

This has been highly recommended, Prof. Chev. esp. having it in his lecture upon that disease.

"Gastrorrhagia" may in many cases be greatly relieved by taking ice water or by swallowing small lumps of ice. In very urgent cases as a means of ~~relieving~~ <sup>to stop</sup> hemorrhage, it may also be placed in bags and laid over the stomach. "Pulmonary" hemorrhage is also sometimes relieved by placing ice bags around the chest.

In the local application of cold, water may be very well used coiling a rubber tube around the part and passing cold water through it. Of course this may be used for the application of heat by using hot water. These may be used when dry cold or heat is desirable.

One of the most useful applications of ice is the ice cap in "Brain fever". This is often of great benefit. The ice is crushed and placed in a bag or cap made of cloth which is large enough to cover the entire brain.



The effect is sometimes seen to be immediate when this is applied. Ice has more "latent" heat than water and is hence a far better cooling agent. It is not best to use recklessly, as it may produce "shock" and thus act as a castringent by contracting the capillaries.

Using water -  $70^{\circ}$  Fahr. is usually as low as is good. Old "effusions" have been found beneficial in "Chorea" when applied to the head or spine.

Hot water is very beneficial in acute inflammations when applied locally. Inhalations of steam are recommended in bronchitis - acute and chronic. It may be used in sufficient force - the patient may be kept in a close room and a vessel of hot water kept constantly steaming over a stove. The steam is filling the whole apartment, or he may use an inhaler. This is an exceedingly efficacious remedy. Howard recommends hot water injections in chronic bronchitis. In this case a good and plentiful injection should be given & should be thrown into the region with a strong hand. Hot water dressings are used for wounds, carbuncles etc. The cure of acute inflammation is said to be very difficult when hot water is used in these cases.



In the use of "Carranchis" bandage in amputations, there is  
sure to be a good deal of "Capillary oozing".

Then, both hot and cold water have been used, but the hot  
water is best as its effects in stopping the oozing are more  
permanent. The "poultice" is useful chiefly on account of its  
oisture and warmth. In many cases there is no especial  
value in the meal &c. of which the poultice is made, and  
in these cases hot "compresses" may be equally as good if not  
better. The effect of the cold bath in health is also well worthy  
the attention of every one. When a healthy person gets into  
cold bath, the first effect of the cold is to contract the  
capillaries of the skin. This gives the body a white, pale hue.  
In this comes "reaction"; when the capillaries are dilated and  
the body is in a glow. The bather should leave the bath before  
second contraction of the capillaries takes place, as this  
second "contraction" is permanent.

A cold bath is very good in persons of robust health but in  
those who are weaker it is not to be recommended as the  
effect of the cold water might be injurious.



the foregoing pages I have tried to mention some of the  
most important uses of water "therapeutically";  
one treats the subject very imperfectly, but to mention all  
uses of this most indispensable element, and its compara-  
tive worth in different diseases, would require a longer  
and a much longer article, than is allowed by the  
limits of a college "thesis."

Very respectfully

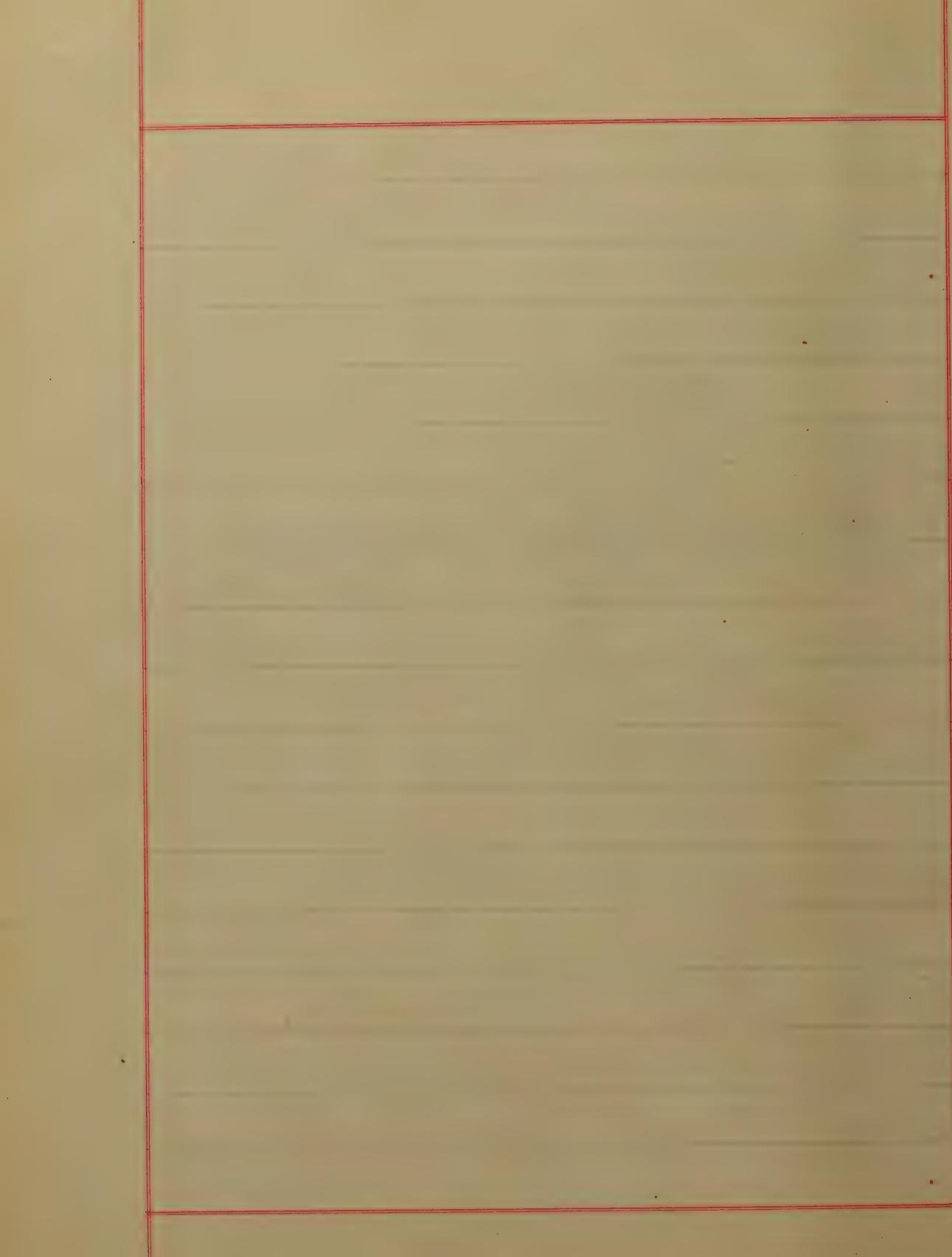
Chas. C. Lucas.



# Digestion

J. Horne Scott,  
Leicester  
Es.

1886.



## Food & digestion

In treating this subject I will endeavor to be as clear and simple as possible, for no one during the short time they spend at college can by any means do such a vast and important subject the justice it requires. Many have written, and much has been said concerning this subject and yet there remains room for much to be said. Men will as the subject becomes more clear express their different views. I will endeavor in a brief way to lay down and describe the process of digestion as it is carried on in the human stomach. We are all compelled to take some kind of nourishment to keep the vital forces at or in working order.



and the nourishment must have something  
of an apparatus for conveying the food to  
the stomach where it is distributed to the va-  
rious parts of the body to sustain this force.  
As the animal body increases in size  
and weight from birth to manhood  
during the whole of life there is an  
incessant change going on in the body.  
It is a law made by the creator at the  
beginning that life cannot continue  
long in animal matter. The atoms  
which compose the living body re-  
ceive the principle of life when they  
enter their appointed places and re-  
move the body. They however retain the  
principle but a short time and  
while they retain it they perform their



work. Food is not living matter  
much that we eat. Bread, vegetables  
and fruits do not bear any resemblance  
to flesh. Yet these matters life  
less as they seem are converted in  
to living flesh and not only our kind  
but several and various kinds which  
enter into the composition of the humanity.  
The digestive apparatus effects a  
change in the food. First it grinds  
it in the mouth, dissolves it and  
converts it into a mass of material  
fit to supply the blood and send  
the nutritious materials to the heart.  
The blood vessels carry this blood to  
all parts of the system and with this  
they supply the waste and growth of



the different organs.

This digestive apparatus consists of a mouth and pharynx the oesophagus or gullet the stomach and the intestinal or alimentary canal. At the upper end of this apparatus is the lip which prevent the substances which are taken in the mouth from dropping out. The teeth and tongue which assist in grinding up the material, these are also assisted by the salivary glands which pour out saliva and moisten the substances and make the task of swallowing <sup>more</sup> easy for without the aid of these glands it would be a difficult task to perform. The嘴的唾液 effects two objects



For coated over with glairy substance or juice the crushed or mired substances are much more easily passed along the aæsophageal tube into the stomach, but there are certain other changes which take place in the mouth. Food undergoes a chemical change which is completed in the stomach and this is of essential importance in aiding the process of digestion

The oesophagus is a tube commencing at the mouth and connecting <sup>with the</sup> stomach and is about eight or ten inches long. It is made up of three coats, muscular, cellular

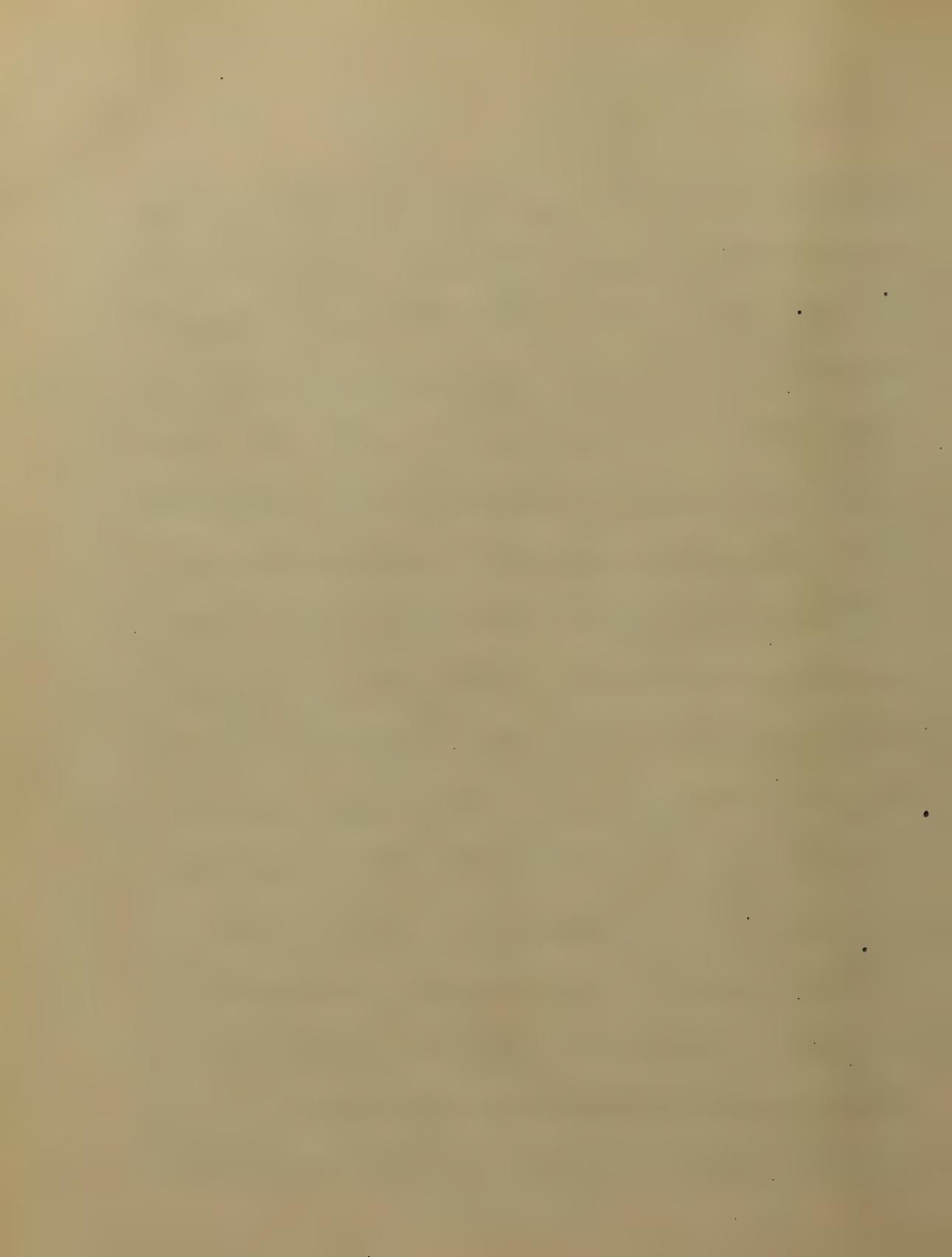


and mucous. the muscular or  
outer coat being somewhat  
thicker than the others

The stomach is a long round  
and somewhat irregular shaped  
sack It is placed on the left side  
of the abdomen just below and  
within in the lower ribs and runs  
crosswise toward the right side. It  
has two openings one toward the  
left end where the gullet ends  
and the other at the right end where  
the stomach opens into the alimentary  
canal This organ is very elastic  
and varies much in size in  
accordance to the amount of food  
taken into it. It has been so much



distended at times to be able to hold  
two or more quarts this is apt to be the  
result after one has taken a hasty  
meal or when a great amount of  
liquid has been taken into the stom-  
ach. At other times the stomach  
has been so reduced as to barely  
hold a pint this condition is gen-  
erally found to take place in per-  
sons who do not get enough to sat-  
isfy the cravings of nature. It us-  
ually contracts itself down to  
its contents however small.  
The stomach is never completely  
empty there is always some  
fluid substance remaining  
in it. The size of the stomach



is said to vary with the habits of men and the kinds of food used. It is claimed to be larger in those who confine themselves strictly to vegetables than in those who live on animal food. The vegetarian gets less nourishment from his food and is compelled to take a larger amount to supply the wanted nourishment to starving tissues while the man who uses animal food can get more nourishment from a smaller bulk. Men who are in the habit of overindulging have larger stomachs than those of temperate habits.



The texture of the stomach is of a fleshy character very soft and flexible and consists of four coats each of which has a distinct part to perform in the digestive process and each is subservient to its own function, the outer coat gives support to the whole the middle coat expands and contracts to give due size to the sack it also produces motion in the stomach which agitates the food and helps promote the work of digestion and aids in expelling the contents when they are digested The inner coat exudes upon its surface a slimy mucous sub-



stance which protects it from all substances which would irritate it and also prepares the gastric juice a powerful fluid which dissolves the food. It exerts a powerful action on all natural sorts of food. It dissolves certain important elements which form a part of nearly all our food. By the aid the finely divided mass is reduced to a condition fit for the absorption of the nutritious portions into the blood and by the blood carried throughout the whole system replacing the waste and supplying nourishment to the growing tissues.



as soon as food is swallowed  
some gastric juice is poured  
out upon the lining membrane  
of the stomach, and the more  
comes softened the more com-  
pletely the food has been masticated  
the more readily the gastric  
juice is absorbed. At first it  
only mixes with the minute  
particles and these being unso-  
red more particles are exposed  
and so the work goes on until  
all the food has been wet and  
softened by this powerful acting  
agent. The stomach is not al-  
ways full of gastric juice there  
is usually none of this fluid



to be found in the stomach except when there is some thing irritant to excite and cause the lining membrane to secrete and pour it out. The Gastric juice is not poured out with a rush but it oozes out slowly (very much like the perspiration which oozes from the forehead) until there is enough to mix with the new morsels which are taken in to the stomach the juice commences to flow as soon as the food reaches the stomach and continues to flow if stimulated by new morsels this flow is now ever not with out end



This liquid cannot like saliva  
in the mouth be made to flow  
as long as we desire. It flows then  
not in proportion to the amount  
of food we eat but in propor-  
tion to the amount of nourishment  
which the body needs therefore  
only a much of this juice is  
poured out as will dissolve  
what food we needed at one  
time. Therefore the stomach may  
be likened to an acute meas-  
uring machine as it measures  
by the gastric juice the amount  
of food the stomach is able to di-  
gest with ease and when there  
is enough food taken into the



body the stomach seems to give  
the signal that it has had enough  
to supply its demand. By being  
careful we can supply the exact  
amount to the wants of the stomach  
and stop as soon as this  
want for food ceases for it is  
nothing more than natural to  
feel the pangs of hunger. It is  
through this medium the stomach  
makes its wants known. The  
time required by the stom-  
ach varies according to the  
amount and kind of food  
taken in to the stomach. Many  
of the foods that are taken in the  
stomach are more readily acted



upon by gastric juice than  
other digestion however  
commences as soon as food  
reaches the stomach and con-  
tinues from one to four or more  
hours. When the stomach has fin-  
ished its work the food is con-  
verted into chyme and to us  
it seems to have the same ap-  
pearance throughout there seems  
to be no traces of the meat and  
vegetables which entered the  
kind and this was the science  
that was taught by the old teachers  
But now the microscopists have  
seen this have set aside this mode  
of teaching and what other modes



is not all the same but that  
this mass is submitted to further  
digestion in the small  
intestine where the stomach has  
finished its operations on  
the food it is then turned over  
to another agent of digestion  
namely the duodenum, by less-  
ening the pyloric opening with this  
other passing along comes here  
it undergoes another change -  
and is acted upon by a fluid  
known as the intestinal fluid  
or juice and also by the pan-  
creatic fluid this latter fluid  
enters into combination with  
all the elements of food but



now especially the digestives  
which have not been acted  
upon by the gastric juice  
and prepared them for the  
use of the blood. These three  
digestive fluids constitute a  
milky fluid known as Chyle  
which is yet in the alimentary  
canal Chyle is a milky white  
fluid which coagulates soon  
taneously and on standing sepa-  
rate more or less completely  
into a clear part

The nerves carry the feeling of  
hunger from the stomach to the  
brain where it is felt and recog-  
nized as such sensation is



felt and no feeling of hunger  
is manifested if the person is  
diseased the appetite is always  
felt in the brain but is not  
perceived unless we can give at-  
tention to it - the appetite is affect-  
ed by the state of health both in  
the body and mind in fever &  
and certain digestive states  
the stomach craves little or no  
food, so in sorrow & mental  
distress and may also be af-  
fected by the announcement  
of the death of some member  
Hungarian according to Prof  
Miles consists of a two-fold  
meaning, one when the



system requires food and  
the other is a local feeling of  
the stomach. In older times  
hunger was thought to be the  
rubbing together of the walls  
of the stomach, but different  
views have been advanced  
from time to time until  
now it is thought to be the  
contracting of the stomach  
upon itself which produces  
this feeling of hunger.

The feeling of hunger is es-  
sential to the maintenance of  
life for food is required to  
give power to the glands  
and muscles and to supply



the growth of the various parts  
with nourishment. The gen-  
eral feeling of hunger is an  
important one and should  
never be overlooked. Some  
times just before death  
you will hear a patient  
complain of a feeling  
of hunger.

The appetite may be  
aroused by the smell of some  
good thing cooking and we  
all know how our mouths water  
when we smell some dinner  
good and how we long for  
some and the salivary glands  
secrete freely although we



is nothing in the mouth to  
cause them to do so. When  
the food has been digested  
the nutritious particles are  
then taken into the body by ab-  
sorption. In the process of ab-  
sorption the fats etc. that have  
been taken into the body are  
acted upon by the Bile and  
pancreatic juice. The fats un-  
dergo two changes when taken  
into the body exactly how the  
fats are absorbed is not clear  
most of the fats get into the fae  
trails as oils and not soluble  
soaps as was once thought to  
be the way. The blood vessels are



also thought to have some  
part in the function of digestion.  
The nutritious part of the digested  
food is carried from the digestive  
organs in the blood stream through  
the absorbent vessels and the  
capillaries and the great lacteal  
vessels direct to the veins near the  
heart where it is mixed with  
and becomes a part of the blood.  
This blood is then carried to the  
lungs where it undergoes  
triple changes and then is dis-  
tributed to all parts of the body  
in view of repairing and building  
up of the tissues. In digesting  
and digesting of food leaves



other object in view than the suspending  
the wants of the blood. This fluid moreover  
has an apparatus for the transportation of  
this fluid from one part to another and  
is known as the circulatory apparatus.  
But a lengthy discussion of this sub-  
ject would be out of place here.

From this examination of the fine  
line and uses of the various digestive  
organs of the human system we  
learn that the stomach performs  
some of the most delicate oper-  
ations and effects some of the  
most wonderful changes in the  
body. in these operations it requires  
the aid of the intelligent hand  
to supply its wants and fit the sub-



ply - There is no human intellect  
like our reasoning guide and to  
direct us how much we need  
and sink the living machinery  
within and the dead material without  
our bodies are prepared for our use  
and the law of nature is sufficient for us  
for our government. But this  
law we are required to understand  
before we can conform our body with  
sustenance of our frames. This is  
not a law of absolute that directs  
us always to take food when we  
are hungry and take such  
kinds of food and as much of it  
as the palate bears nor is it a  
law of convenience that allows



such food as chance or law  
may place before us. His law is  
founded upon the structure  
of the digestiv apparatus  
and the wants of his frame.  
temperament, age and his  
habits & exercise do not allow  
different rules and laws laid  
down for the government of all  
men. I even omit temperament  
and habit and location and which  
attempt to sustain all men  
with one absurd and foolish  
every man or every class of men  
has their peculiar power  
and peculiar wants and  
if they disagree and differ



and endeavor to supply  
life by any other means  
or rule they will not fully  
accomplish this purpose. That  
is, as the mind needs the body  
for its earthly home so the body  
~~needs~~ the mind for its director.  
This responsibility for the care of  
the body and mind comes upon  
every one in every condition of  
life and whosoever discharges  
it with intelligence and  
faithfulness will increase  
his powers and his enjoy-  
ments and has length of  
days on earth.

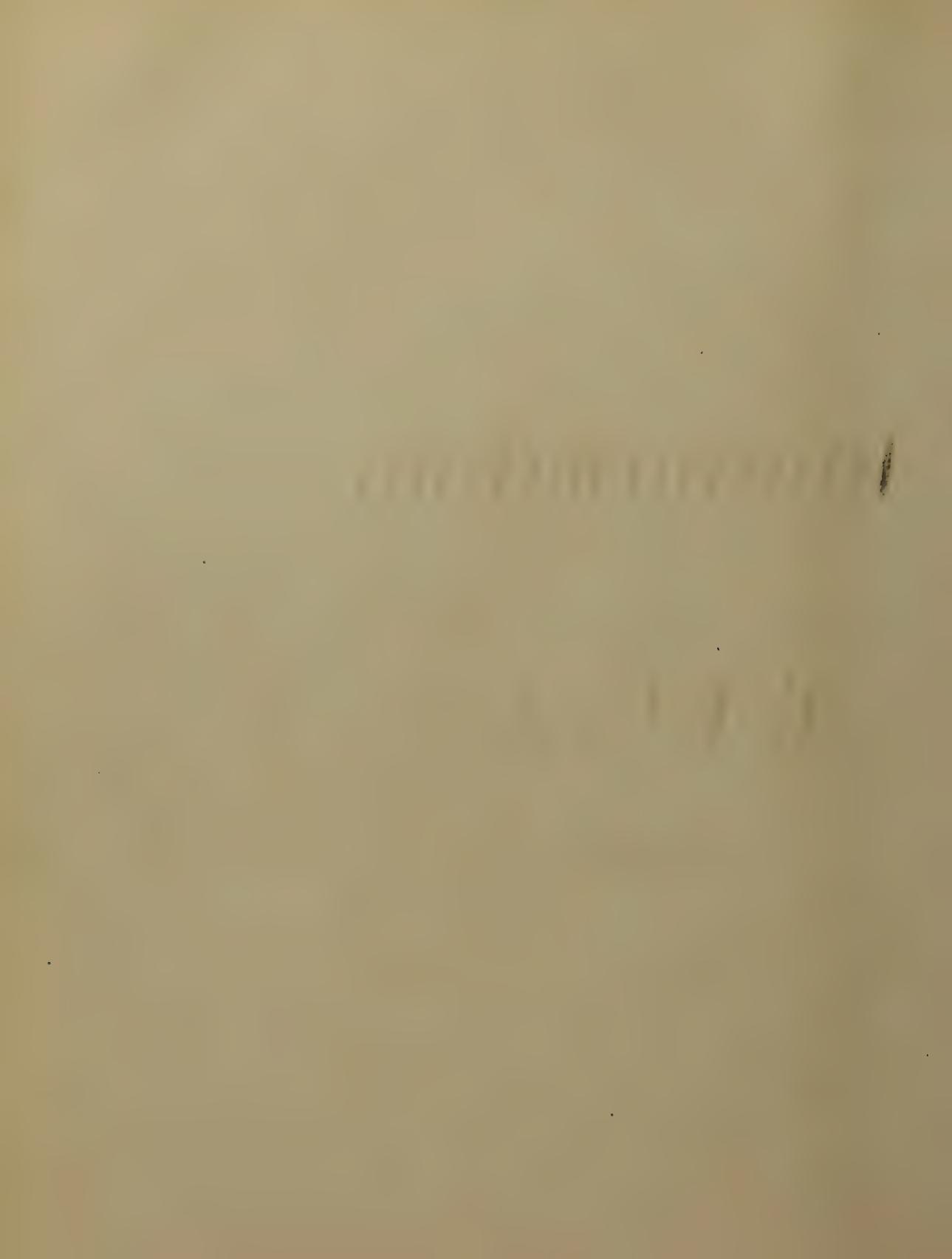


# masturbation.

By

E. F. Corbell

- 1886 -

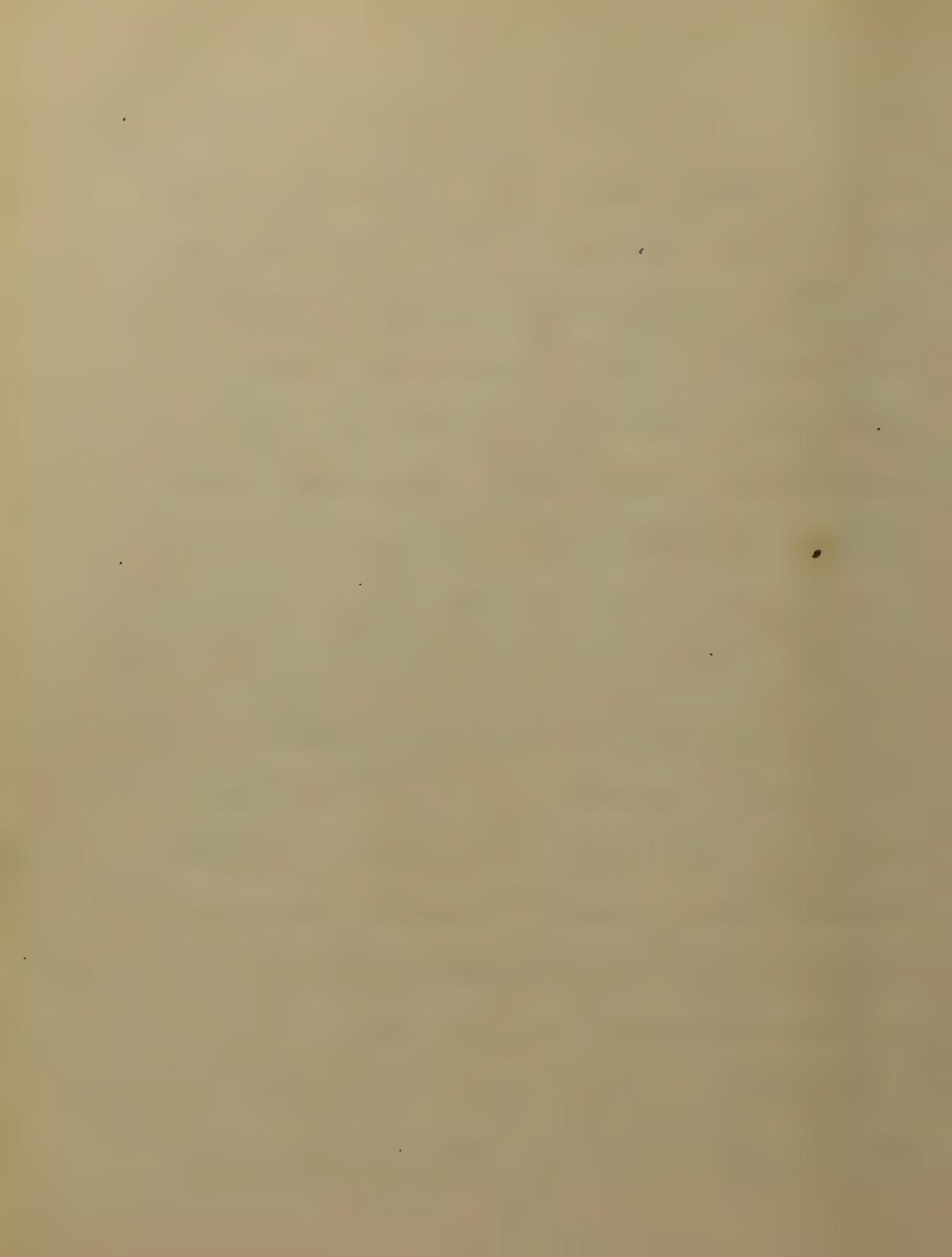


## Masturbation:

This evil is also termed Solitary indulgence, Self abuse, Onanism, Venereal debauchment, voluntary pollution. The functions of the sexual organs are greatly impaired by the unnatural excitation of the genital organs by friction with the hand. It is a deplorable fact that this vice is sometimes acquired by boys, before they reach their sixth year. In some instances the habit may be attributed to foolish or vicious nurses, who quiet children when they cry by licking their sexual organs. These willless persons may not know how dangerous such a practice is to health and morals, or how easily the child is overcome by



his propensities. It is wrong to commit  
these important trusts to the keeping  
of those who may easily transform a  
naturally healthy desire into a  
precocious morbid sensibility that will  
eventually ripen into a degrading animal  
lust. Misery ate the miseries which  
arise from masturbation. Self-abuse  
is one of the most prolific sources of  
evil, since it leads to degradation of  
body and mind. It is practiced  
more or less by both sexes, and the  
habit once established, it is with  
the greatest difficulty that it can  
be overcome. It is the source of  
numerous diseases which deranges  
the functional activity of the organs



and eventually impairs the mind & constitution. This solitary vice is mostly practiced by those ignorant of its dangerous results, and diseases are incurred when it is too late to redress the broken down constitution. Immoderate indulgence in any practice are deleterious to an individual. Emphatically true is this with regard to sexual excesses. Not unfrequently does the marriage not cover a multitude of sins. The abuse of the marital relation produces the most serious results to both parties, and is a prolific source of some of the gravest forms of disease. Prostatorrhœa, Spermatorrhœa, Impotency, Hypochondria & general



debility of the productive organs,  
arise from sexual excesses.

Boys seem to regard the practice of  
this vice, like the vice habit of  
smoking and chewing tobacco, as  
a manly accomplishment. It is  
evident that they act under the  
impression that the practice of self-  
pollution indicates their near approach  
to maturity, and thus they vie with  
one another as to who shall first  
succeed in awakening his sexual  
sensibilities sufficient to give an  
unmistakable evidence of his masculine  
attributes. One boy may inherit a  
predisposition to this practice, or  
his sexual feelings may be awakened



at an early age, and his bad example be imitated by many others. In this way a dangerous habit is early acquired, and when the sexual propensities are habitually indulged to the exclusion of the cultivation of higher and nobler pleasures, if not rendered impotent by these abuses, he will transmit the same desires to his offspring, so that the propensity and habit becomes irresistible. A physical as well as a moral reck or disease. The earliest account of man reveals the fact that his creator did not design him to live in seclusion; for we find him with his "helpmate".



in his Eden Home. History shows  
that when a man has been  
deprived of the society of woman  
he has become reckless, vicious,  
depraved, and even barbarous  
in his habits, thus illustrating  
the sentiment: It is not good  
for man to be alone. Good as  
associations promote mental and  
physical development physically  
because the body can't be perfectly  
developed unless the mind be  
cultivated. The development  
of a person implies the unfolding  
of every power, both physical &  
mental. Nothing so regulates &  
restrains passion as a healthy



condition of the organs through which it finds expression - and every organ of the body is powerful in proportion to its soundness.

The propensities play a prominent part in the education of the child. When properly disciplined and held in subordination to the higher faculties, they constitute an important factor in the economy of man. Boys are more liable to be morbidly excited when excluded from the society of girls, and vice versa. Again, when the sexes are accustomed to associate, the passions are not apt to be aroused, because of the natural



an antagonizing physical elements.  
The influence of one refines, energizes  
and enables the other children  
should be taught to understand  
their natures; and knowing them  
they will learn self-government  
It has been truthfully said, 'As  
man rises in education and morals  
feelings, he proportionately rises in  
the power of self restraint; and  
consequently as he becomes  
deprived of this wholesome law  
of discipline he sinks into self  
indulgence and the brutality of  
savage life - The passions may  
be aroused by the language, appear-  
ance or dress of the opposite sex -



A word spoken under the impulse  
of purity is often rendered in a  
very different version by one whose  
passions color the thought, and  
made to convey an impression wholly  
unlike that which was intended by  
the speaker. So, too, the dress may  
be of such a character as to excite  
the animal nature. The manner  
in which the apparel is worn  
is often rendered so conspicuous  
as to become bawdy, thereby appealing  
to the libidinous desires, rather  
than awakening an admiration  
for the mental qualities.  
Literature is a powerful agent  
either for good or evil. If we would



improve the morals, choice literature  
must be selected, whether it be  
that which realizes the ideal, or  
idealizes the real - Obscene books,  
or literature written for the express  
purpose of intensifying sexual  
desires in the young goads to an  
elicit gratification of the passions  
and ruins the moral & physical  
nature. It not unfrequently  
happens that a child is born  
with a vigorous mental organism  
which gives promise of a  
brilliant future, but manhood  
finds him incompetent, debil-  
itated, - and totally incapacitated  
for mental or manual labor.



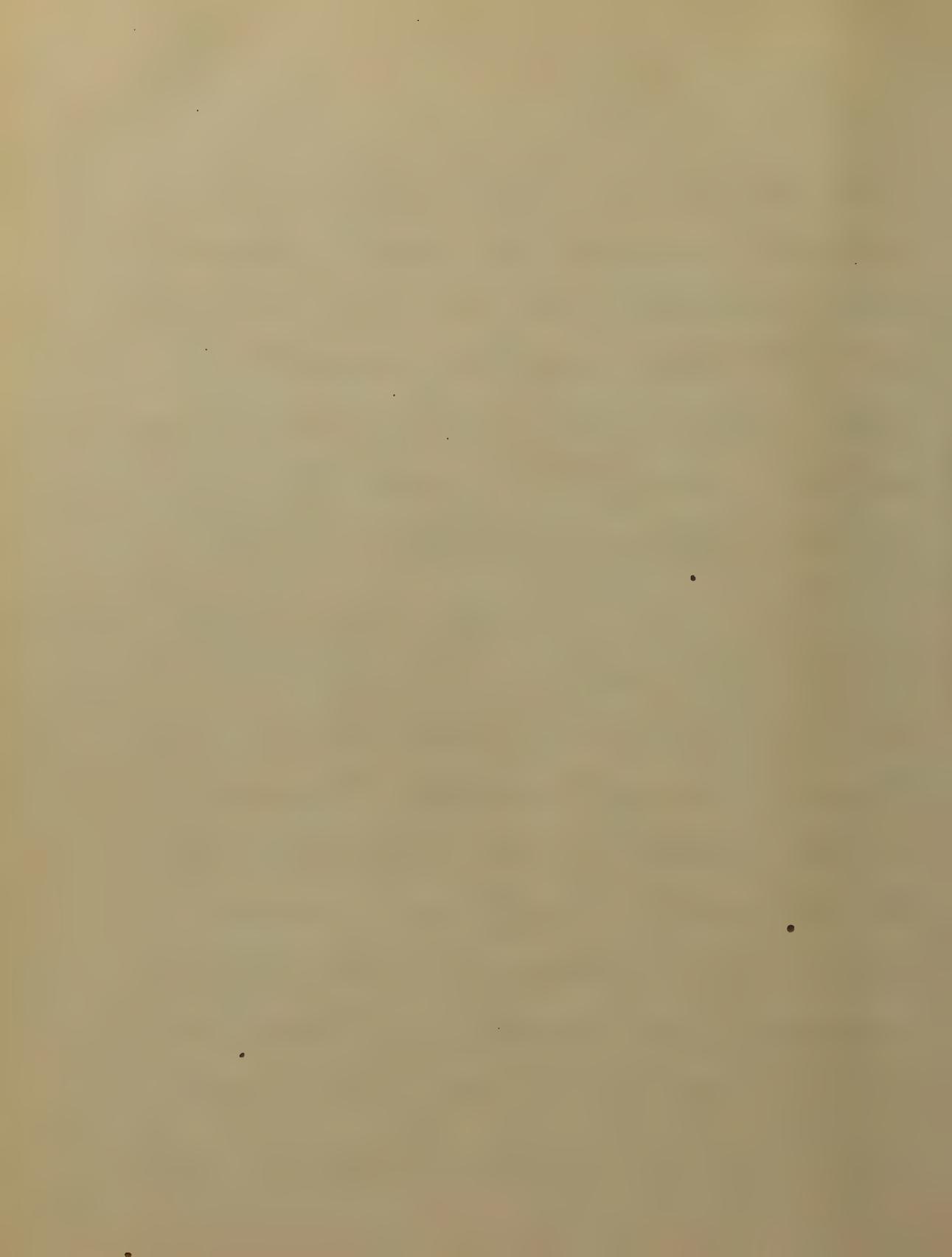
This may be the result of youthful indiscretion, ignorantly committed, but not unfrequently it is the effect of a pernicious literature which inflames the imagination, tempts as upon reason, and pictures to the youth a realm where the passions are the ruling deities. Many persons are born into the world with disordered organizations for which they are not responsible - such are entitled to the sympathy of humanity. Dyspepsia, Scrofulosis, consumption, and a thousand ills to which mankind is heir, are transmitted from parents.



the results of ill-assorted marriages. Children of healthy parents, who have good constitutions temperamentally adapted, are usually healthy and intelligent. Frequently in a family of children, who have the same parents, there are marked varieties of characters. One manifests great precocity, another is below the average in mental attainments; one is amiable, the other irritable in disposition; indeed, there are often as great differences in children of the same, as of different families.



This is due to the physical & mental condition of the parents, more especially the mother, not only at the time of the genesis, but also during the period intervening between conception and the birth of the off spring. We are told that the ancients regarded courage as the principle virtue, but as purity is so esteemed. Personal purity is an essential requisit to the growth and perfection of the character. Purity is inward, secret, self-sufficient, thoroughly & intimately personal, in proportion as one resists temptation, is he virtuous. The practice of anismus



squanders the vitality & bankrupts  
the constitution. Indigestion, innutrition,  
emaciation, shortness of breath,  
palpitation, nervous debility are  
all symptoms of this exhaustion.  
Subsequently, the yellow skin  
reveals the bones, the sunken eyes  
are surrounded by a leaden  
circle, the vivacious imagination  
becomes dull, the active mind  
grows insipid, in short, the  
spring, or vital force, having  
lost its tension, every function  
waues in consequence. Excessive lustful  
enjoyment produces feebleness, and  
finally terminates in disease &  
and impotency. Masturbation



perverts the excitability of the nervous system and sexual organs and causes debility, which is indicated by the premature discharge of semen during sexual intercourse. These premature emissions indicate not only partial impotency, but also that the nerve-centers have become morbidly sensitive by the practice of solitary vice, or marital excesses; at length the powers of the erectile tissues are diminished, and there is weakness at the root of the penis when erect, thus preventing the act of copulation.



or the erection may be slow and not last long enough, on account of a faulty functional condition of the spinal chord. This condition is sometimes associated with a morbid irritability of the urethra, which, being inflamed, may become sufficiently constricted to prevent the emission of semen when the penis is erected, causing it to pass back into the bladder. The inflammation may extend downwards to the prostate glands, and cause a discharge of thick, soft, viscid slime. Masturbation provokes and finally destroys the secretory



functions of the testes. It sometimes causes chronic inflammation, which may result in obliteration of the minute seminal canals, or obstruction of the conveying ducts. The sperm is imperfectly elaborated & totally unfit for procreative purposes. Sometimes the spermatogonia are entirely absent, and, when present, are very few in number, incomplete in structure, diseased, and deficient in power as well as in organization. The husband may appear to be healthy, and his inability to procreate may be erroneously considered a defect in



his wife - Symptoms: Irritability, impatience and restlessness, loss of flesh, pallor, and a timid downcast look - There is loss of memory and the intellect becomes enfeebled, They are depressed in spirits, easily discouraged, and prefer solitude - They do not retain what they learn, the general health fails, and the nervous system shows serious impairment, The symptoms are too significant to deceive the experienced eye - The short irritable replies of the boy & his general sensitiveness and nervousness are indicative of the loss of nerve power, occasioned



by this bad habit Various complications: are likely to arise in the progress of this terrible malady. Tumors, which sometimes degenerate into cancerous disease of the testicles & finally result in death are not uncommon.

Stricture of the urethra, Hydrocele, Varicocele, are all common complications. Sequelae, which are of the most consequence are, Spermatorrhoea, Seminal weakness, Nocturnal and Diurnal emissions and frequently act as the cause of spinal affections. Treatment: The best is prophylactic. The child should be forewarned



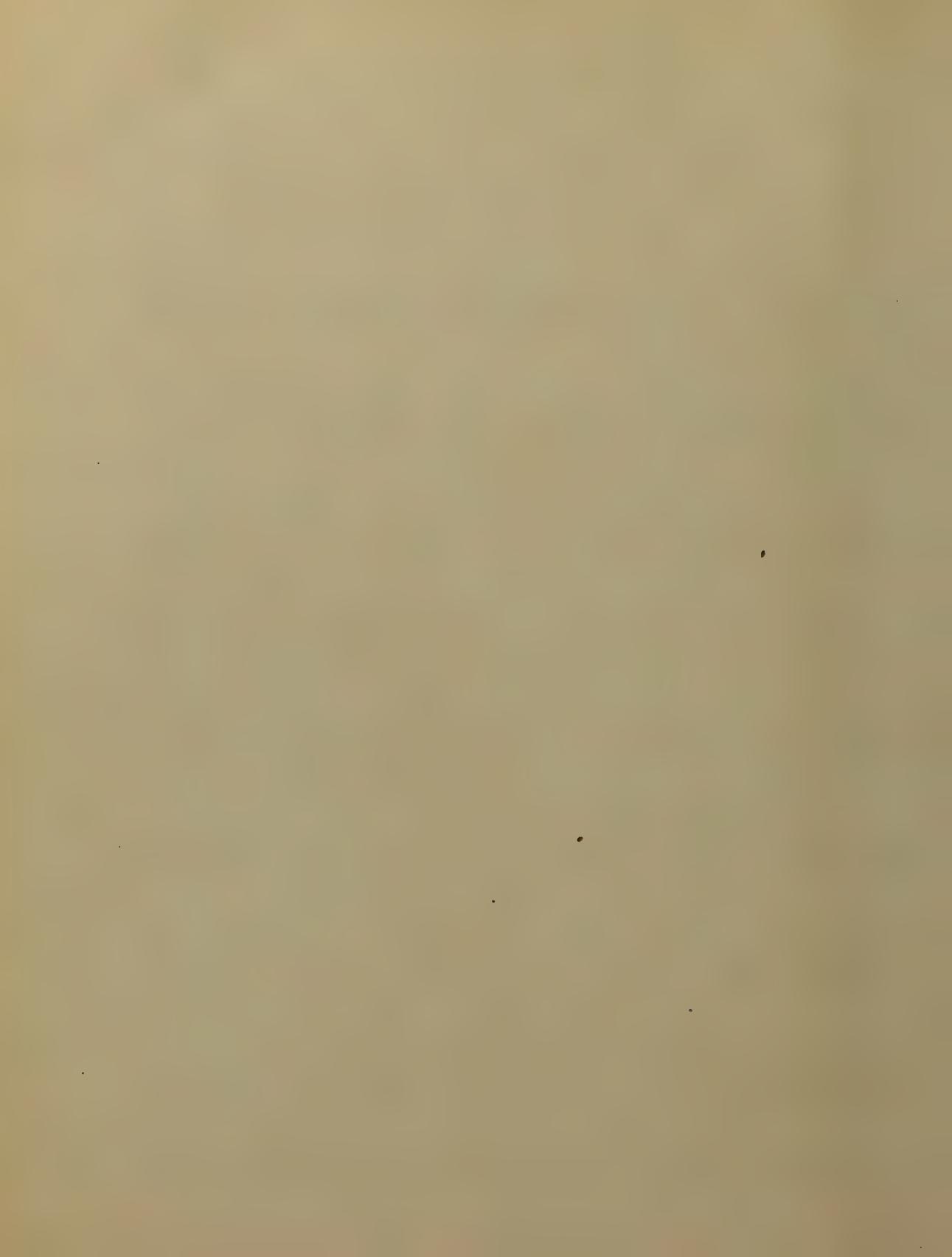
by its parents of this desultive  
liver tendency & that such a prac-  
tice results in calamities that  
will embitter the whole life.  
Parents hesitate to talk to their  
children, because they fear ful-  
ling impure ideas into innocent  
minds. Their hopes are strong  
that their children will never  
indulge in so degrading a  
practice. If however the habit  
has been formed, the first  
thing is to see that the child  
quits it, for if he or she  
continues it nothing will be  
of any avail. Hygienic Practice:  
Daily physical exercise and regular



habile must be established.  
It is important that the mind,  
as well as the physical powers,  
be directed into active and whole  
some channels, there must be re-  
straint and discipline. It is  
useless to begin medical treat-  
while the patient continues to  
read exciting, amorous stories  
and obscene books, which are  
suggestive of evil thoughts.  
Something practical ought to  
occupy the thoughts and engage  
the hands. Regular and vigorous  
physical exercise is necessary  
to assist the circulation of the  
blood and compel its determina-



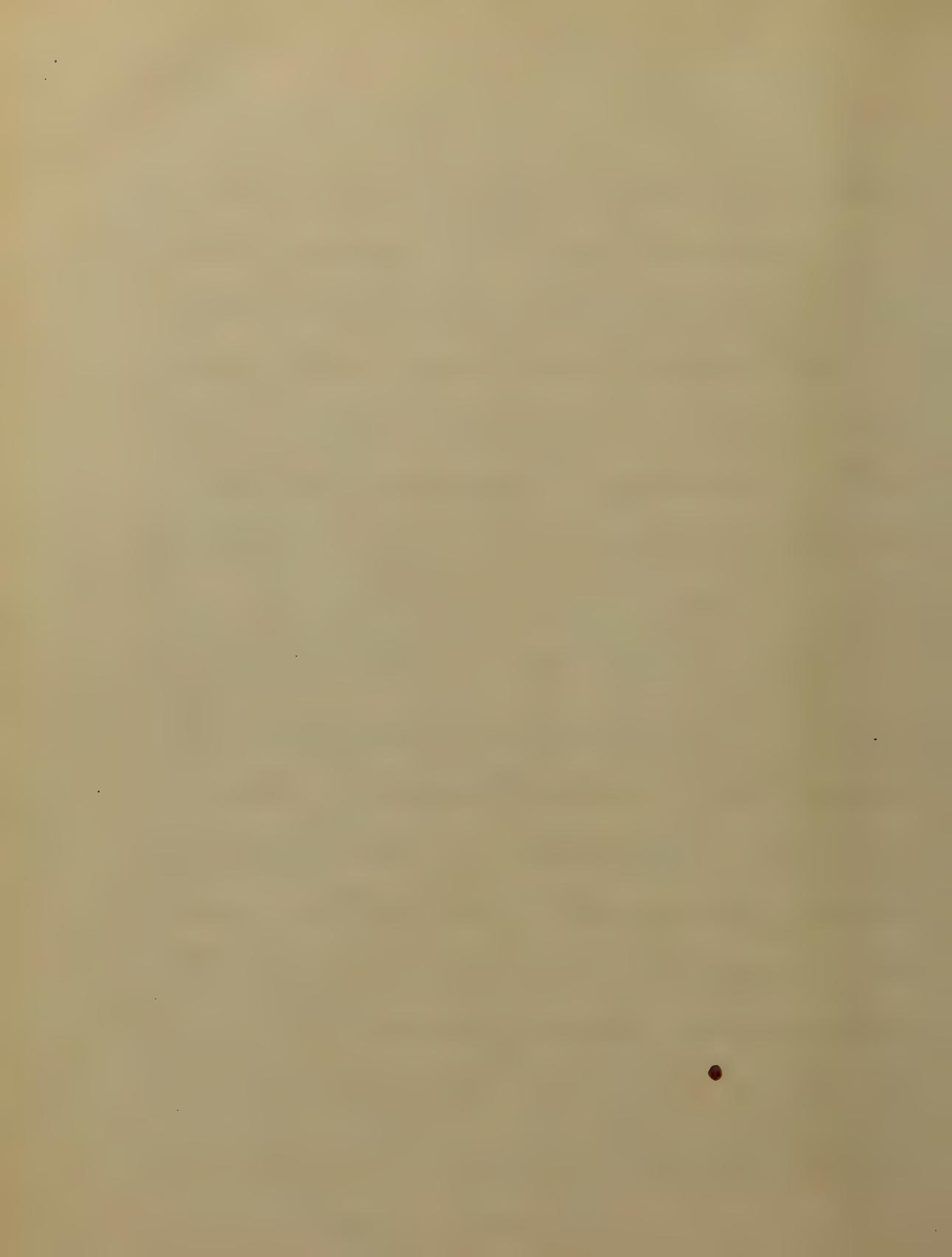
lion into the minute and extreme parts of the vascular system. When blood is thus directed, nutrition is more vigorous & the activity of all the functions is augmented. Not only should there be regularity in eating, but sound discretion should be exercised in selecting a plain wholesome diet, consisting of such articles of food as best favor a daily & free evacuation of the bowels. All of fatty, spiced food, stimulating drinks, and tobacco in any form should be excluded. At night the patient should merely take a little



ice milk, and should drink  
very sparingly, since fullness  
of the bladder is apt to  
produce erections. The patient  
should sleep upon a hard  
matress & pillow, be lightly  
covered, and not assume the  
dorsal decubitus; he should not  
sleep too long, & must avoid  
taking a siesta during the day.  
Early rising and cold baths  
are very beneficial: after bathing  
rub the surface of the body  
well with a rough towel  
until reaction is established.  
Douches, or showering the genital  
organs with cold water over



or twice a day is very beneficial,  
but should not be done just  
before going to bed, it is well  
to bathe the head in cold water.  
Horse-back riding, climbing and  
all exercises which rub, chafe, or  
excite the genital organs should  
be avoided - even the clothing  
should be loose, so that walking  
will not produce friction or  
cause any excitement of these  
organs. The calls of nature should  
receive prompt attention, and  
the urine be voided at any time  
when there is an inclination.  
If there be any irritation of  
the bladder & lower bowels,



injection of cold water into  
the bowels will be very bene-  
ficial, as it will reduce  
heat and subdue irritation.

### Medicinal Treatment:

This must be both local and  
general. Among the internal  
remedies or general treatment.  
Quinine and iron are use-  
ful in anaemic subjects.  
Camphor; lupulinæ alcorsina  
(in dose 5-10 min.) morning and  
evening. Good effects are also  
obtained from belladonna  
(administered in the form  
of extract, internally or in  
suppositories) and atropine



(the dose being cautiously increased)- Fowler's solution is an excellent sedative of the genital functions. It may be given for a long time, in v gts. doses, before going to bed. Bromide Potassium stands at the head of the list of the remedies for lessening the sexual power. It acts as a sedative upon the secretions. Gallemard recommended cauterization of the prostatic portion of the urethra by means of a stick of <sup>s</sup>vibrat<sup>e</sup> of silver, concealed in a catheter two or three cauterizations,



repeated after an interval of  
two or three weeks, will  
generally suffice. Dittel (*inflamm*)  
recommends a less painful  
and more certain remedy,  
consisting of the introduction  
with the caustic holder of a  
urethral suppository of butter  
of cacao and nitrate of silver.  
This position, being determined  
by the rectal touch we may also  
resort to the intermittent in-  
-troduction of caustic or wax  
bougies, coated with belladonna  
ointment. The urethral canal  
is almost always hypera-  
-sthetic. Painting the prepuce



with churchills Fine h. rodins  
repeatedly will render the  
penis too painful for the  
patient to handle; and in  
this way it will do good.  
Employment of electricity  
is often resorted to, and with  
great good resulting from  
its use, the anode of the  
battery of moderate strength  
is placed upon the lumbar  
regions, - and the cathode is  
applied for three or four  
minutes - along the spermatic  
cord, the perineum, and penis.  
Too prolonged or frequent  
sittings are injurious.



In women who indulge in  
the deplorable habit of  
delectation or self-abuse,  
There is only one thing that  
will produce a radical cure  
and that is excision of the  
clitoris, (and all surgeons  
recommend it). - The treatment  
of this disorder is rather in  
the direction of moral means,  
keeping the patient somewhat  
under restraint; and medical,  
such as the internal use  
of bromide pot. Then the clitoris  
may be lulated with caustic  
or cantharides; or T. iodine so  
as to render it too painful.



for the patient to handle

E. A. Corbell.



## "Carcinoma" or "Cancer"

Carcinoma is a malignant epithelial growth, having a definite anatomical structure, therefore every tumor that possesses the signs of malignancy must not be called cancer simply from its malignancy.

Cancers according to the older writers, were divided into Scleromatous, Colloid, and Cystic fibroid, each of which contained as its material elements, fibers, fluid and siccum. The fibers are made up of connective, nervous and fatty fibers, joined together, and are composed of four parts, in which the connective tissue will be red, the nervous will



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the Stone. The fluid is called serum. The cells are larger than white blood corpuscles and can not be confounded with them, even though the older authorities supposed that cancer always developed from a morbid growth in the impenetrated white blood-corpuscles. The division of leucocytes into Leucine, Leukine and Leucophae and must be regarded as a difference of degree and not of kind since they all contain the same chemical elements - but in different proportions. Leucines are composed mainly of a fibrous tissue with little fluid and compacting granules. Others in the same class



lesions, and this hardness is due to the connective tissue blunt that permeates in the mass in the other varieties.

Encapsulated is the highest development of carcinomatous formations, it consists of an abundance of abnormal multi-form cells and a peculiar fluid. Encapsulated is one of the kinds of soft cancer, grows more rapidly and is more apt to penetrate than the other varieties, occurs in many forms other cancer may develop.

The softness of this variety is due to the small amount of bone and the excess of cancer cells.



there also are usually a collection  
on the other side of some  
thin cavity or sinus and not  
than the other and its size  
may depend upon the size  
and condition of the cancer cells  
of which it is composed.

Collord cancer bears a remarkable  
amount of fibrous tissue arranged  
as a sinatrix containing a jelly-like  
substance; cells are also found in  
it but in a less proportion.  
It may simply be regarded as one  
of the other varieties which have  
nothing in common with the others  
but a secondary growth, it is less  
acute and not so malignant as the  
other varieties and may be a good



as an effect on the first few  
rows to which the plant.  
Another division of leaves has  
been into leaves and  
Epithelial ones. It was referring  
to effects on the glandular  
and hypophloic systems &  
including the three varieties al-  
ready mentioned. Now I  
have several very good  
specimens developed on the  
one side of the ground, &  
the membrane is found placed at  
the junction of the two sides  
of the ground.

tissues of the epithelial  
cells owing to the small amount  
of stroma, which they are some-



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times even destitute of they are more malignant than the other varieties. Flint believes that carcinoma is firmly local in its origin and is not produced by any disease, the common cause following the development of the primary and secondary growths.

The cells of carcinoma resemble gland cells but are larger, they are said to be distorted and are interdigitated with other cells found in the body yet they are of quite few as the most normally belong to the part, being produced by morbid alterations of its natural elements. The difference in shape between

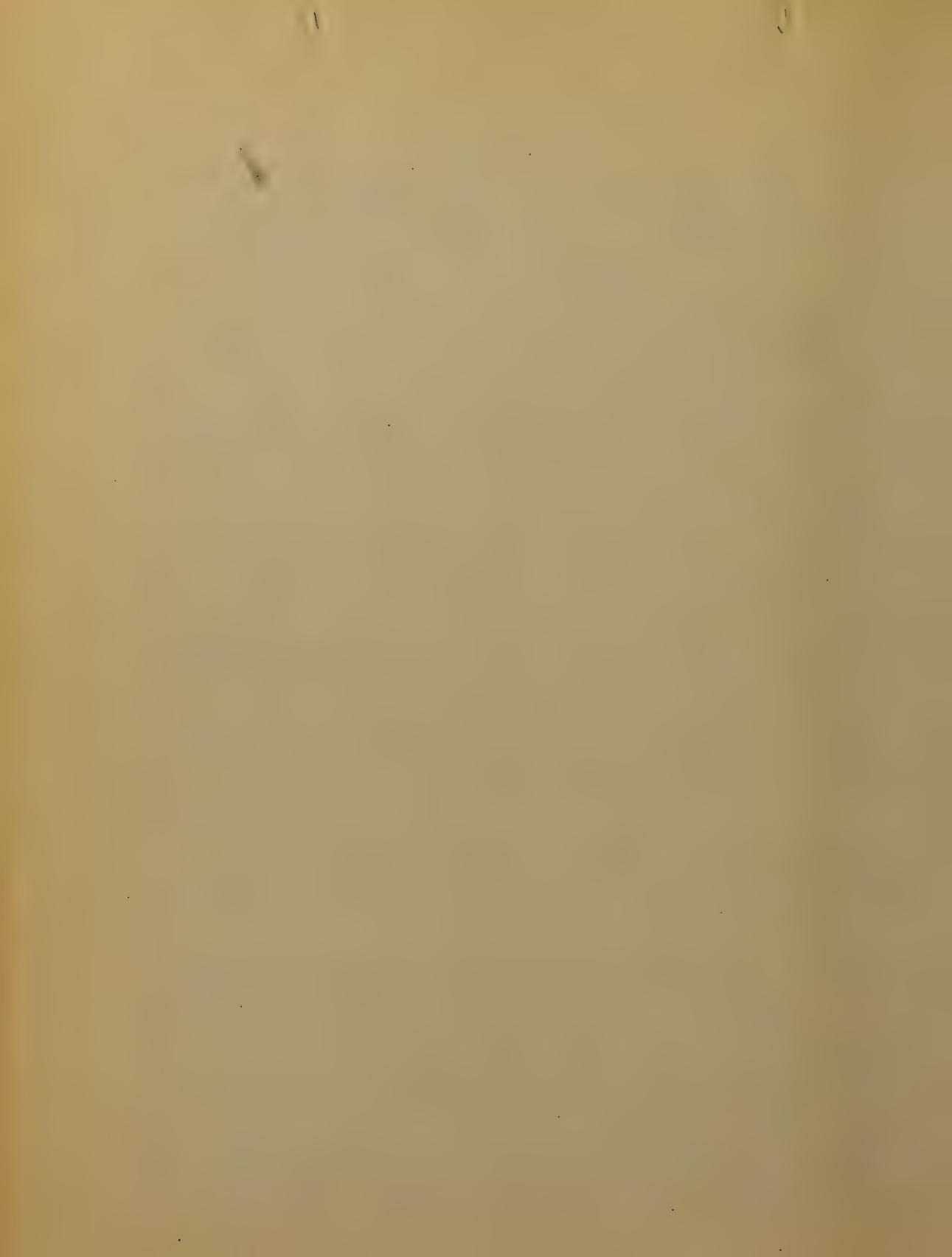


found in cancer cells in numbers due to the unusual pressure that they are being crowded together and their development and upon each other. Thus we find them in almost any form, and each having its nucleus and nucleolus. These cells are crowded together abnormally in the mass due to an unperfectly and irregularly distributed connective tissue.

Glasson expressed it as his opinion that cancer in animal always originate in a morbid development of migrated white corpuscles, but this has not been substantiated by later Pathologists and that which would



to be pretty generally agreed upon  
in that these porphyries are due  
to a modification in the all-  
multiplication of ordinary spe-  
ckled brown, but whether the speckles  
were originally created as spe-  
ckles or were developed from  
cells belonging to the connective  
tissue is a question still per-  
plexing. Lamez of the uterine and  
testes might at first form some  
to contradict this theory of the  
epithelial origin of the fine black  
spots, but when we con-  
sider that the uterine and some  
of vessels are lined with epitheli-



him we still see that the  
theory holds good.

Primary columns of tissue just  
distilled of epithelium in a  
cavitated part by the suppuration  
of the body or other cause,  
namely, that some Epithelial  
rudiment in foetal life has  
been nipped off and enclosed  
in the mesoblastic develop-  
ment and here it remains until  
some lesion or over nourishment  
to the part causes an increase  
in the cells of this rudiment,  
and they breaking down the bar-  
rier or restraint and growing in the  
direction of least resistance set  
up inflammation and pro-



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rise to cancer. Growing in this way the carcinomatous tumor becomes encapsulated, but infiltration of the surrounding tissue and no focus of hemorrhage being found, since the great difficulty in dealing with this kind of malignant growth. Granting this theory to be correct the infiltration must be due to the crowding together of the cells, and that every thing must give way before the neoplasm.

In this way a nodule may become carcinomatous. Within the stroma are contained the blood vessels which are often very numerous and form a dense



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network around the vessels, these blood vessels never pass into the epithelial masses but are limited to the stroma. This distribution of the blood vessels is important as distinguishing carcinoma from sarcoma, though there are some varieties of sarcoma which are exceptions to the rule. The changes that take place during carcinomatous growth are numerous, among them may be mentioned, fatty degeneration, fataceous deposits, and formation of scar tissue. Fatty degeneration is one of the most common changes in carcinoma and this change takes place principally along the edge



of the tumor have the more  
raped the parts the greater the  
degeneration. The cancerous deposits  
are made in the stomach.  
We often hear scar formation in  
one part of the tumor and the  
disease go on unchecked in another.  
The natural tendency of the  
disease is to extension by  
means of the Lymphatic vessels  
and to enormous and un-  
healthy formations, which  
unless it and the glands involv-  
ed be removed must prove on  
later prove fatal by the extension  
of the disease to some vital  
part, or by making such a de-  
monstrable upon the patient's system

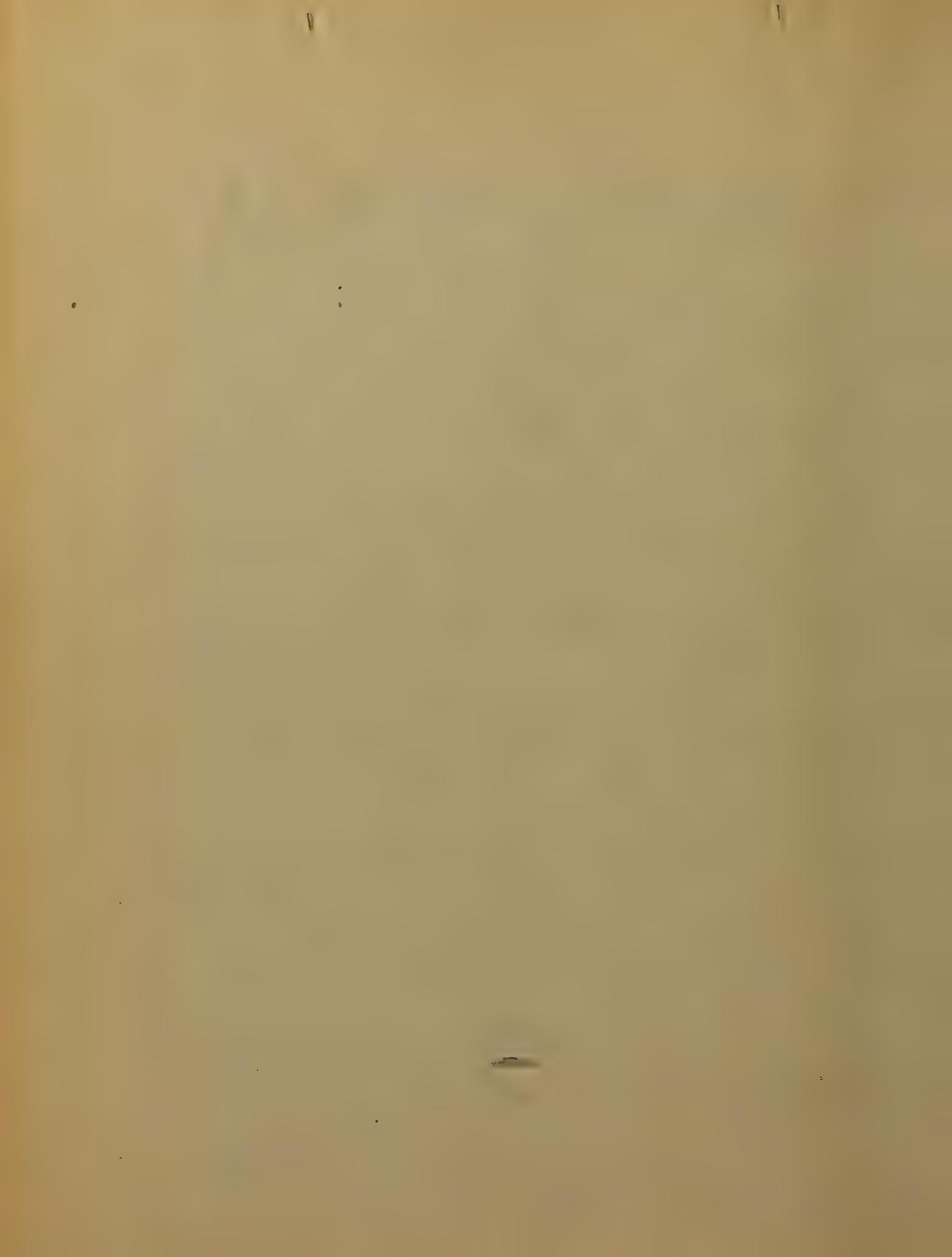


that her vital powers gradually fade away and her days from exhaustion. Though the natural tendency of the disease is to extension by means of the lymphatics, still in the uninfected cavity fatty degeneration may take place to such an extent as to destroy the connective tissue enveloping the blood vessels and the vessels themselves becoming ruptured offer little or no resistance to the cancerous infiltration, and the matted cells becoming detached get into the circulation. Getting into the blood they are carried along by it until they meet with some obstruction to their onward pro-



sage and thus undergoing cell multiplication they set up the disease.

One of the great difficulties will be found in being able to recognize all the tissues involved in the growth process and again having recognized them not being able to remove them. Hence after the removal of the growth one is liable to have the disease along itself in another part of the body usually in the right or left of some gland. A favorable termination can only be hoped for. It is often difficult to differentiate carcinoma from



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I have met with some of the  
bad growths here which have been  
microscopically cut by a  
qualified person. There are  
are accustomed to operate for  
the removal of such growths  
well often before they are  
by mere inspection and palpation.  
One case that I have in mind  
was brought me to the clinic at the  
hospital and the surgeon in  
charge of the clinic expressed the  
opinion that it was a cancerous  
from its general appearance being  
excavated and crater-like and  
bleeding, and from the edges of  
the growths projecting out over the  
skin, though platting off the same.



time that being unable to detect  
any glands involved might lead  
to the opinion that the glands  
were diseased. The surgeon  
who operated for the removal  
of the prostate called it cancerous.  
When operating he was  
unable to find any enlarged  
glands; the microscope however  
showed the prostatic to be cancerous.  
As a general rule cancer will be  
attended with little or no  
pain, but if there is pain  
it depends upon the extension  
of the disease to tissues well  
supplied with nerves.  
Through Flint does state that  
the origin of Cancer is Family.



local, yet we certainly recognize  
in many cases an hereditary predisposition to  
it and this would lead to the  
conclusion that in these cases  
at least it was constitutional  
in origin. It is even stated  
by some authorities that a can-  
cerous cachexia is recognized in  
many cases, even before the de-  
velopment of the primary or  
secondary growths, and that its  
most obvious sign is a sallow-  
ness of the skin.

As regards the local signs of can-  
cer, scar tissue is a favorite place  
for its development and in the  
majority of such cases we can  
obtain no family history of cancer;



and the patient otherwise apparently in the best of health, in such cases surely the disease is local in origin.

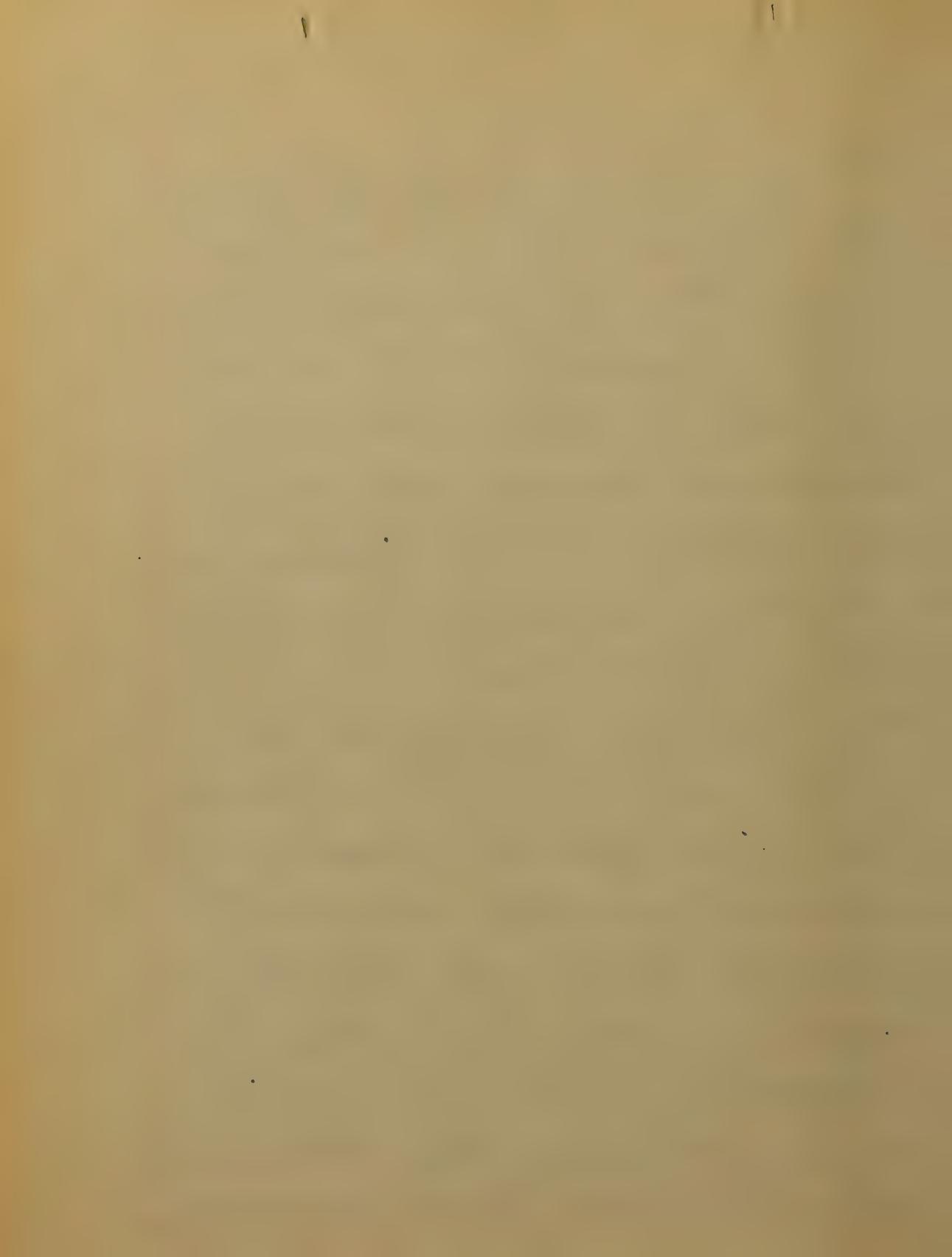
Carcinoma is much more frequently found in women than in men, and in the latter women more frequently than in any other organ.

Cancer usually develops after 40 years of age but may occur at any age, especially if the kidney which is more frequently found in the young and especially in boys before the age of puberty. The choice of two different parts seems to be up at and the following order, viz., uterus, mammary,



Stomach, Rectum, Lymphatic Glands,  
Liver, Bones, Skin, Brain, Eye,  
Testicle, Ovary, Tongue, Esophagus.  
A large majority of the cases  
of cancer of the uterus are  
found in women who have  
born children, hence supposed  
to be due to injuries sustained  
during parturition.

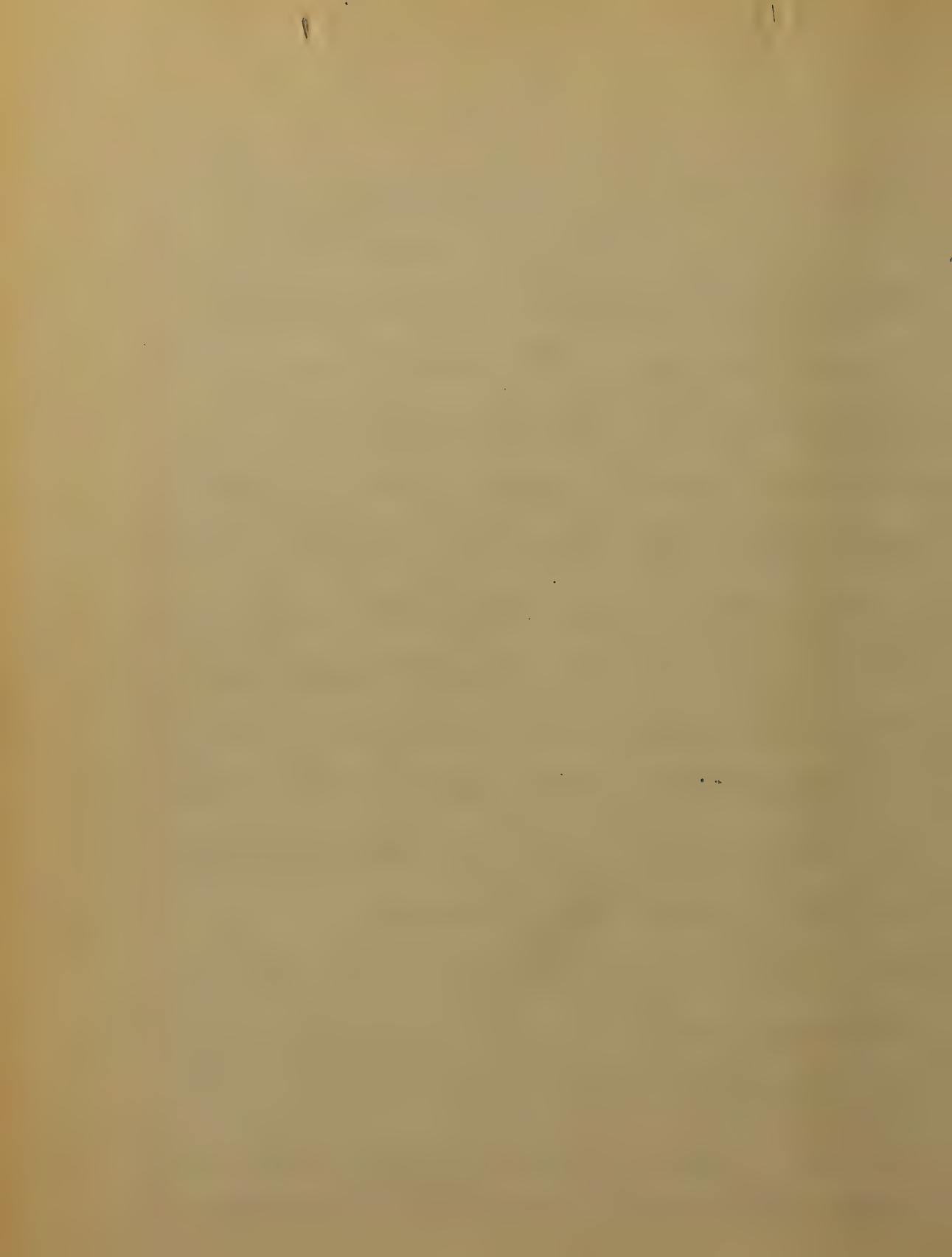
Cancer of the mammae is more  
in women who have born children.  
I have seen quite a number of  
malignant growths about the  
Mammae and with but two  
exceptions they have been car-  
cinomatous; these two are one  
Saromatous and the other doubt-  
ful. All that I have seen open



ated for have been of the  
Scirrhous variety, and this is  
the kind that most often  
comes under the notice of  
the general practitioner.

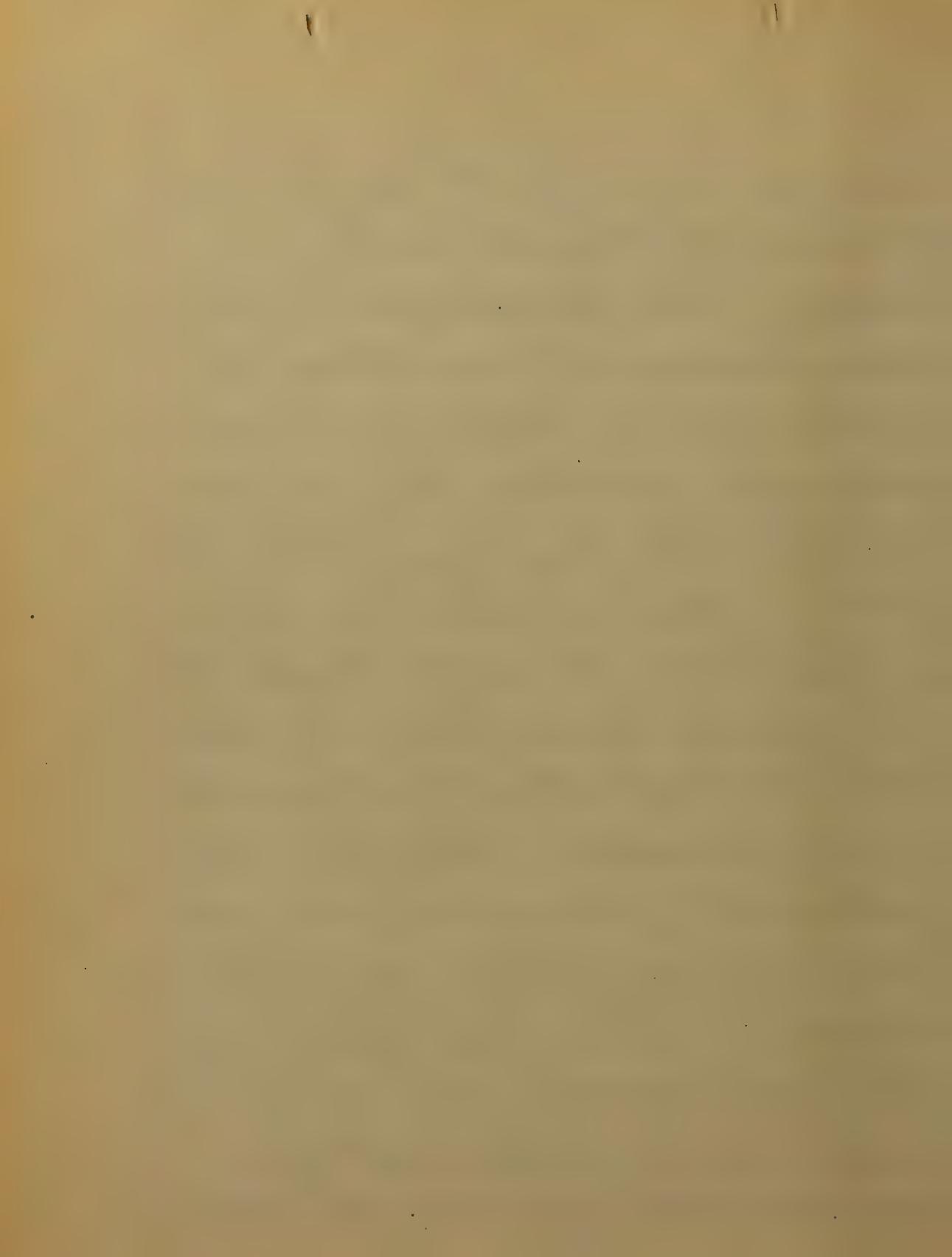
Scirrhous cancer seems to prefer  
especially the Mammæ, Stomach,  
and Intestines; Colloid, the  
Stomach, Rectum, and Peritoneum,  
while Encephaloid may occur  
in any organ, it alone attacks  
the Liver, Kidney, Lung, Testicle, Eye,  
and Lymphatic Islands.

Carcinoma of the liver is always  
fatal and usually runs its course  
in a short time. Cancer of the  
internal organs is largely due to  
scars from Syphilitic lesions.



Each sex seems to be alike liable to cancer of the Stomach.

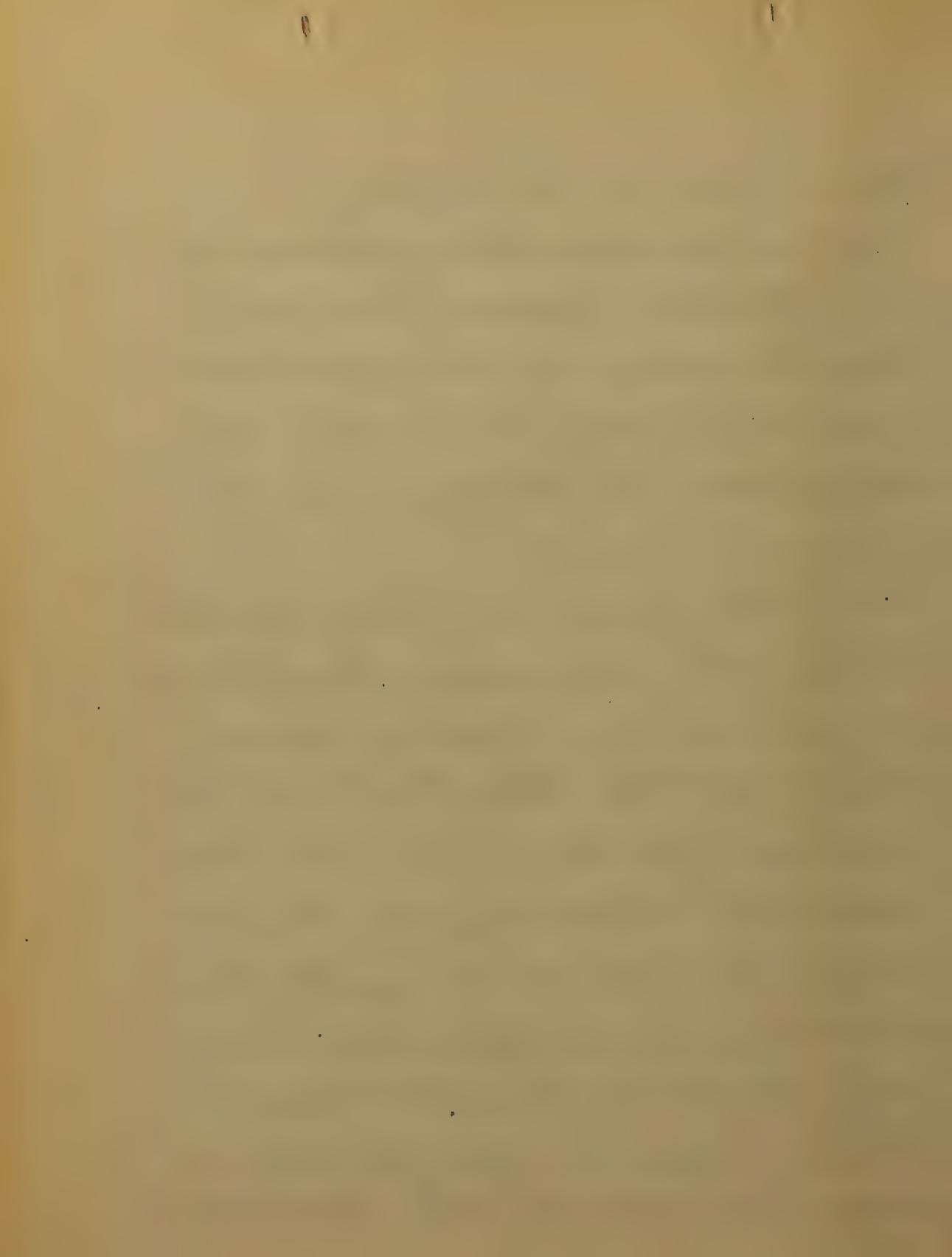
Cancer of the Oesophagus is much more common in men than in women, though it occurs at an earlier age in women than it does in men. The frequency of the affection in this situation in men is supposed to be due largely to the irritating drinks taken by them which being swallowed by them set up inflammation and this being followed by ulceration we will have a scar formed and the disease will be developed in the scar tissue again we can due to cancer of the Oesophagus, cancer being also more common in



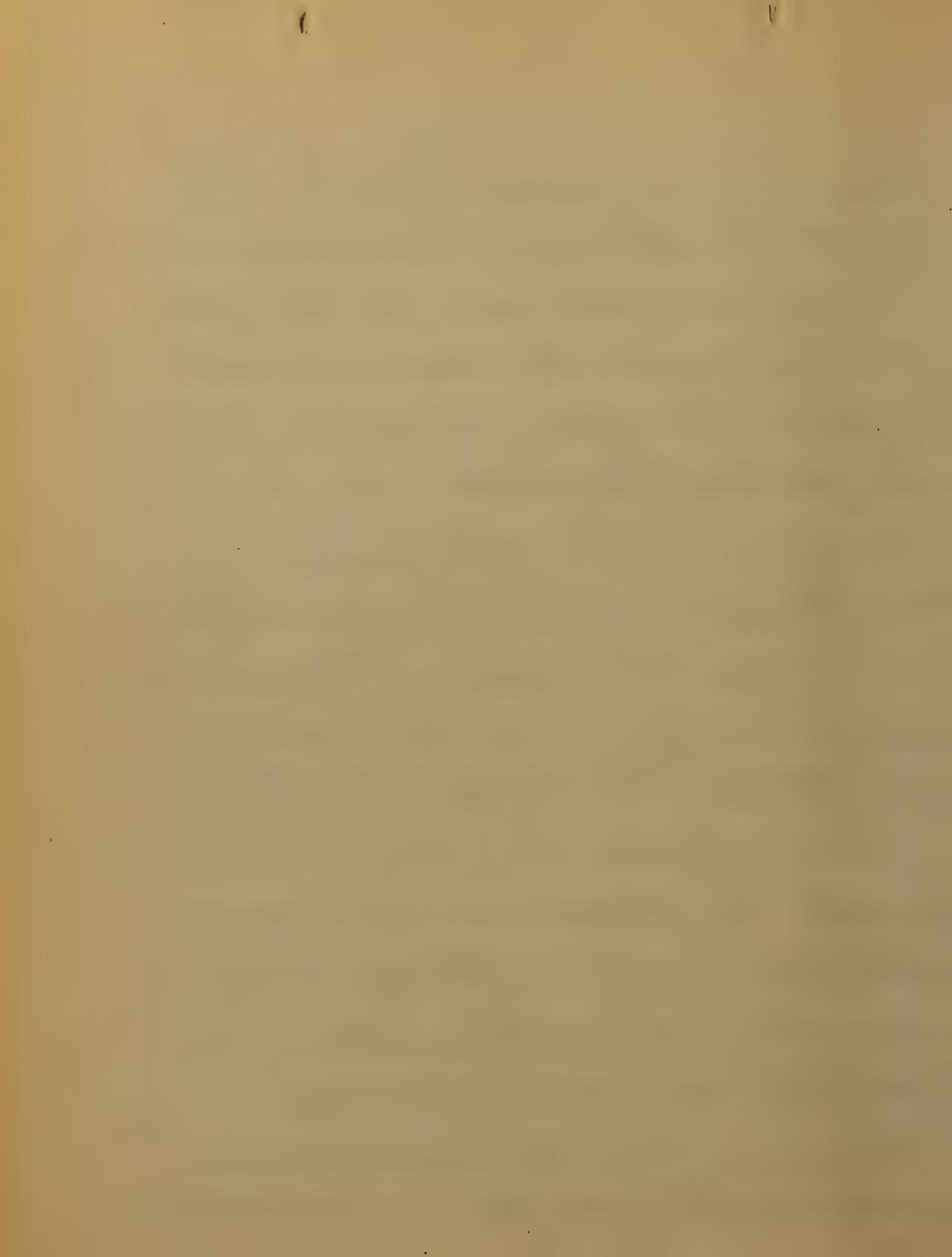
men than in women.

Carcinoma may disappear by spontaneous degeneration, but this however is very seldom seen. When once it makes its appearance the tendency is to become worse.

The only hope we have for cure is in the surgeon's knife and even it in very many cases fails; yet even though it may fail as far as a cure is concerned, still it may give the sufferer a period of immunity from the disease in which he or she may be in comparative comfort. Thus, Mrs. — aged about 60 was brought into the Monday



Clinic for recompensation of the  
breast for Scirrhous Carcinoma.  
Three years previous to this time  
she had had the same breast  
operated on for the same trou-  
ble, at that time she was suf-  
fering intensely with pain in  
her breast, after the operation  
she went for nearly three years  
suffering no inconvenience  
whatever. Other cases of this  
kind might be cited but as  
a rule the operation for cancer  
should not be attempted un-  
less there are hopes for the  
patients ultimate recovery.  
The time for operating is as  
soon as the growth is recognized

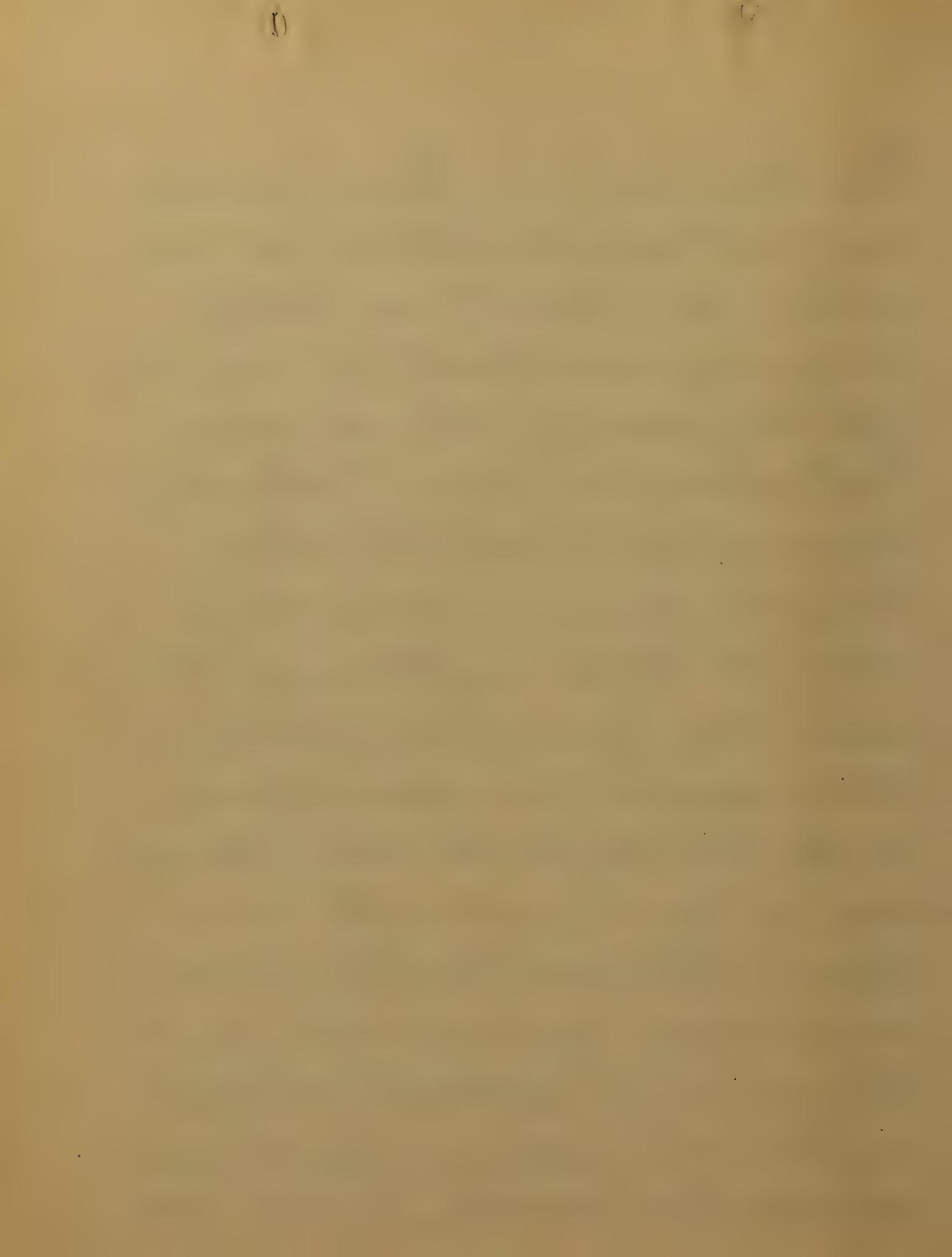


and the patient's system at large is in proper condition, as however those growths that are within reach of the knife usually make their appearance in those who are otherwise in good health the time for operating ~~too~~ on them is as soon as they are recognized. In general however if the neighbouring glands are found to be very much involved an operation is hardly to be thought of.

In operating the surgeon should not be too sparing of tissue as they may be involved beyond what he can appreciate by merely feeling them.



For the relief of pain poultices  
and hot applications are not  
to be thought of as they  
tend very materially to hasten  
the progress of the disease.  
Belladonna or Opium Jelastus  
however give marked relief.  
Caustics have in some cases  
when the knife could not be  
used done good, but they are  
to be regarded as secondary  
to the simple, and they do not  
seem to have met with much  
favor. The local treatment may  
be regarded as removal, and  
the general as addressed to the  
system at large, good food, fresh  
air, cheerful society, Tonics &c.



When it is not proper to operate  
then the patient should have  
the same constitutional treat-  
ment, and anodynes for the  
relief of pain, specially the Opium  
or Belladonna plaster, and a  
plenty of raw cotton for pro-  
tection, remove as far as prac-  
ticable all sources for irritation,  
and render the patient as comforta-  
ble as possible

Edward W. H.

Vol 1 Ch

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Alimentism

W) Burchinal  
1886



## Acute & Peculiar Rheumatism.

The term rheumatism is derived from the Greek word, *rheuma* which literally means "to flow." Ordinarily employed, it is a broad, general term that includes many affections and covers much ignorance. Properly defined, as a specific inflammation affecting the fibrous structures of the larger joints, and other fibrous structures of the body with a peculiar tendency to involve the heart. Locally manifested by heat, redness, pain and swelling in the affected joints. It is accompanied by intense pyrexia, and constitutional disturbance. The acute form very rarely becomes



Chronic. It is a systemic disease  
and is self-limited.

~~Chorbid Condition.~~ Death rarely affords us the opportunity of making an examination of the affected parts - the joints.

It is said, that, when symptoms are well marked in life, but little change is noticed after death. But by inference, we believe there is thickening of the synovial membranes from the hyperemia and serous infiltration.

The synovia is increased, more or less turbid mixed with fine-cells. There is an excess of fibrin-factors in the blood, as shown by tests.



Instead of having three or four parts  
of fibrin to the thousand parts of  
blood, as in health, It is increased  
to eight, or ten parts to the thousand.  
This increase of fibrin-elements pass-  
ing through the heart has a tendency  
to deposit some of it on and  
around the valves of the left heart.  
As the valves are in a state of in-  
flammation - being fibrous in  
their nature. These deposits are  
found on post mortem as vegetations  
which are agents of a very serious  
nature in many cases.

Why it is that the left side of the  
heart is alone affected by these  
deposits of fibrin, is not known.



## Clinical History.

The attack may come on gradually, after some days of indisposition. But this is not the rule - rather the exception. In most cases the onset is sudden and at night. Chilly sensations or a distinct chill with high fever which in many cases precedes the attack for some time. The temperature may be out of proportion to the severity of the other attendant symptoms.

It usually ranges about  $103^{\circ}\text{F}$ . The pulse is full and bounding, but rarely exceeds ninety beats per minute in an uncomplicated case.

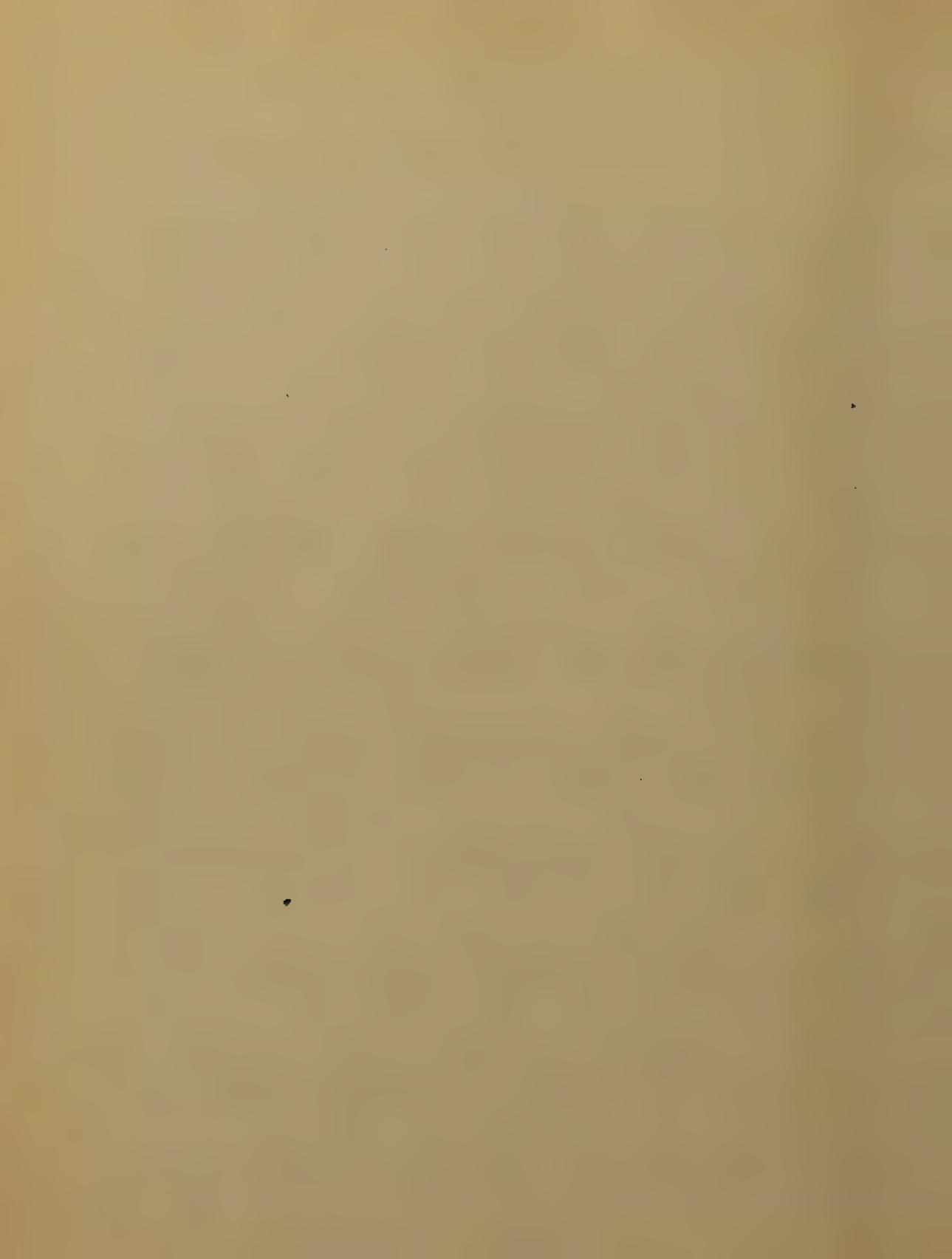


The disease is now locally manifested by intense pain in one or more of the larger joints.  
Usually the knee, while wrist, elbow, or metacarpo phalangeal joints are first attacked.  
There is increased heat and redness in the part. It is swollen sometimes extremely so.  
The affected joints are very sensitive the weight of bed-clothes causing pain, and patient will keep one position for hours in order to avoid pain which results from motion.  
The swelling is due to an increased amount of synovial fluid and effusion into the structures around



the joints. It is most prominent  
in those not covered by muscles,  
as the knee, elbow, wrist etc.

One striking peculiarity of articular  
rheumatism is its tendency  
to leave one joint and attack another. It will leave one part sud-  
denly and attack the first corre-  
sponding on the other side of the  
body. Sometimes parallel joints  
are affected - hence known as the  
"rheumatic law of parallelism".  
If the attack suddenly leaves a hand  
we may expect the other hand to  
take on inflammation in a short  
time, or it may go to the elbow,  
a joint similar to the knee.



This fever is almost inevitable.  
In our analysis of 31 cases which  
presented 18 instances, there was but  
a single exception to this rule, as  
reported by Dr Austin Flint.  
The tongue is furred, but is soon  
covered with a thick creamy coat-  
ing, more or less brown.  
This coating is almost character-  
istic and lasts throughout the dis-  
ease. The thirst is increased, and  
appetite greatly impeded, even-  
tually lost.  
Pain in the head and delirium  
are not common and where  
present denote some cerebral  
complication.



Sweating is a peculiar feature of this disease, and lasts during the whole course of the affection.

It has a sour disagreeable odor and is most abundant at night. The sweating differs from that of many other diseases, in that it does not alleviate the suffering in the least.

The patient feels as badly after as before it had occurred.

Sudamina may occur on the neck and trunk, produced by the moisture. The urine is scanty and high colored, and deposits water on cooling.

Owing to an increase of the



figment the deposit of which is  
of a "brick-dust" color.

The saliva becomes acid.

Sleeplessness is a source of dis-  
comfort and more or less frustra-  
tion from the pain and frequent  
perspirations.

The bowels are usually constipated.  
In general, the strength is well pres-  
erved. Anaemia is produced early  
in the disease; as indicated by the  
yellow skin and the blood mur-  
mers heard with the systole of the  
heart and with greatest inten-  
sity over the 2<sup>nd</sup> intercostal space  
on the right side of the sternum.  
In other words at the base of the heart.



The anaemia is due to the peculiar poison circulating in the blood.

Ultimately, the most important feature of this disease is, the liability of the fibrous structure of the heart to take on inflammation.

The inflammation is usually limited to the Endocardium and Pericardium of the left side.

Endocarditis is the more frequent.

It occurs in about 20 per cent and Pericarditis in about 14 per cent (of each one hundred) attacked by acute articular rheumatism.

The immediate effects of the heart complications are not serious, but after some years they often



cause most disastrous consequences. Endocarditis is the one, most to be dreaded.

The general symptoms disappear gradually, but there is a sense of uneasiness in the joint with neuralgic pains for some time afterward.

The effusion is slowly absorbed, but the ligaments seem to be softened and the motion of the joint is interfered with for some time. It is usually only temporary, and soon the function of the heart is fully restored. This impairment is a result of the inflammation.



## Etiology.

The causes are predisposing and exciting. A distinct heredity can be traced in about 30 per cent. It may be congenital inherited or acquired. Be this as it may, the rheumatic diathesis is present. Age is a predisposing cause, as it rarely occurs before five or after forty years. If it occurs after the latter period - it is not a primary attack.

This disease occurs usually between fifteen and thirty years of age. It may attack persons much earlier. Prof. Elliot relates a case of a little child who died



from it at the age of eight mo's.  
The two sexes males are more liable  
as their avocations necessitate more  
exposure than that of females.

Again, it is most apt to attack  
the weak, and broken-down who  
live in dark damp and ill-  
ventilated houses.

Exciting causes, are cold and  
damps. These, act by checking  
the secretions of the skin, thereby  
retaining the peculiar and sub-  
tile poison, which lights up  
the attack, as cold does a fire-  
work.

The proximate cause however,  
is undoubtedly the specific



toxins circulating in the blood.  
This poison is almost univer-  
sally believed to be a form of lac-  
tic acid. This has been shown  
clinically in the production of  
acute rheumatism, in the ad-  
ministration of lactic acid to  
Diabetic patients.

The acid is partly generated in the  
muscular elements of the body,  
hence it is called "sarco-lactic acid".  
It is in combination with the  
acid phosphate of potassium.  
Experimentally the presence of this  
acid has <sup>been</sup> demonstrated, but  
in therapeutic management of  
the disease based on the presence



of an acid in the blood is more  
effectual than any other method  
known at present."

### Diagnosis.

A typical case cannot be mis-  
taken for anything else, however  
it may be confounded with either  
of the following affections, viz:  
Gout, Pyaemia, hysterical Gout  
Pain, Simple Synovitis or Gou-  
rinal Rheumatism.

To distinguish from Gout

The essential causes of both depend  
on an acid in the blood.

In Gout it is uric acid, while  
in Rheumatism it is lactic acid.  
Gout is a disease of advanced life



and is excited, and brought on  
by luxurious living and especially  
drinking malt liquors.

Rheumatism is a disease of early  
life, and influenced by cold and the  
vicissitudes of weather.

It involves the larger joints,  
but the smaller, usually confined  
to the metatarso-phalangeal joint  
of the great toe.

Lastly, there is the absence of the  
profuse sweat in gout and  
is usually confirmed by a  
gouty history.

Pyrexia, - is usually confined  
to one joint, characterized by  
 hectic, great prostration, irregular



sweat and the joint tends to suppurate. This order of things is reversed in acute rheumatism. The history should never allow any one to mistake these diseases.

Kystenical Joint Pain - is differentiated by absence of synchia, also of heat, redness and swelling in the part. Pain is only aggravated on examination and where patient's mind is directed to it.

Acute Arthritis (Simple Synovitis) When confined to one joint is fixed throughout the disease, has slight fever no prostate nor heart complications; and recovery is more slow than in rheumatism.



Synorrhonal Rheumatism is relieved by the absence of fever and the attendant gleetish urthal discharge which is the exciting cause.

### Complications and Duration.

The most common complications are: Endocarditis, Pericarditis, Bronchitis, Pneumonitis, Pleuritis, and Central Endarteritis.

The duration is governed entirely by the presence or absence of complications. Uncomplicated cases recover in from ten to twenty days; however it may be prolonged six or sixty weeks.

Cases recover within six weeks, on an average without treatment.



## Prognosis.

Recovery is the rule, the mortality being only about 3 per cent. When death does occur it depends upon the hyperpyrexia, cardiac complications or cerebral endarteritis.

## Treatment.

As most every other disease acute rheumatism has undergone a revolution in the way of treatment within the last half century. Bloodletting, blistering, mercury to salivation and colchicum to the extent of producing vomiting and purging, etc., etc., have all fallen into disuse, as more effectual methods are known.



Rheumatic regulations are very essential. The room should be kept warm and at an equal temperature all the time.

Avoid all draughts of cold air and it is very necessary that the parts affected should be kept covered with flannel, or cotton wool over which is spread oiled silk.

Rheumatic subjects should wear flannel the year round.

The texture of the garde must be varied as the seasons indicate. Get in bed in inspiration, and all sheets should be taken off and supplant by blankets.

The sit must be simple, and easy



of digestion, milk being the best.  
Since it is believed the prime  
cause is dependent upon an acid  
in the blood, we would naturally  
try to remove the cause  
in order to cure the disease.

Now the chemical antagonists  
of acids are alkalies.

And we do not look to these in  
vain, for it is a well establish-  
ed fact that the alkali not only  
antagonizes the acid - but cures  
the disease.

The alkaline treatment was first  
systematically employed in this  
disease by Dr Bright in 1841, and  
on a larger scale by Dr Currie & Tuller.



I have reports fifty cases treated  
this way which showed an aver-  
age duration of only six or seven days.  
In no case was any heart com-  
plication developed after the patient  
had been under treatment 24 hours.  
By these statistics and thousands  
of others which might be numer-  
ated, it is beyond doubt that the  
alkalies lessen heart complication.  
Can as much be said of any other  
remedy which has up to this time  
been used in this dreaded disease?  
It can not be said of the so-called  
"specific" of narrow-minded men  
the Salicylates. Salicin and its  
compounds (rather) tend to rather



than frequent heart complications.  
The influence of Salicylic acid and  
Salicylates on acute rheumatism  
was communicated to the Medical  
World by Dr. H. MacLagan in 1876.  
Salicylic <sup>acid</sup> has much utility in its  
place to diminish the pyrexia  
and lessen pain for its anaesthetic  
properties are undoubted.  
It is, ~~at~~ however to produce gas-  
tric disturbances if continued any  
length of time, and last but not  
least, it does not prevent the  
marked inflammation about the  
valves of the heart.  
Hence from a logical standpoint  
it would seem that better results



would be obtained by combining  
the two most usual remedies of  
the alkalies and salicylates.

The bicarbonate of potassium bicar-  
bonate of sodium and lithium  
are the alkalies principally used.  
It is necessary to give the alkali  
in large doses and bring the sys-  
tem speedily under its influence.  
Commence with bicarbonate of  
potassium gr. xxv-xxx and repeat it  
at intervals of three hours until the  
urine is alkaline. When the urine  
is decidedly alkaline, the dose  
may be diminished, or the interval  
of administration prolonged.  
But the urine should be tested



from day to day, and when it becomes acid increase the dose of the alkali.

For the furuncle give the Salicylate of Soda 1/22 it is a less noxious salt than XX-XXV three times a day or often if required but it must be discontinued after two or three days at most as it is a great cardiac and respiratory depressant and weakens the patient rapidly. The salicylate can be given in large doses for the alleviation of pain as well as the antipyretic effect. It is always well to combine the alkali with quinine in doses of prav-vy every



three hours. Better to give it intermediate the time of giving the alkali, which would make the interval between giving the quinine and the potash one and one half hours.

Lay the patient on the alkali for some days or even weeks after the acute symptoms have subsided. For the acute pain hypodermics of morphine. Begin with a small dose as will relieve the suffering. Decrepit slaps by chloral hydrate if the patient is full and strong, otherwise use an opiate.

Quinine and salicylates for the hyperpyrexia. Do not use the cold bath as it is dangerous.



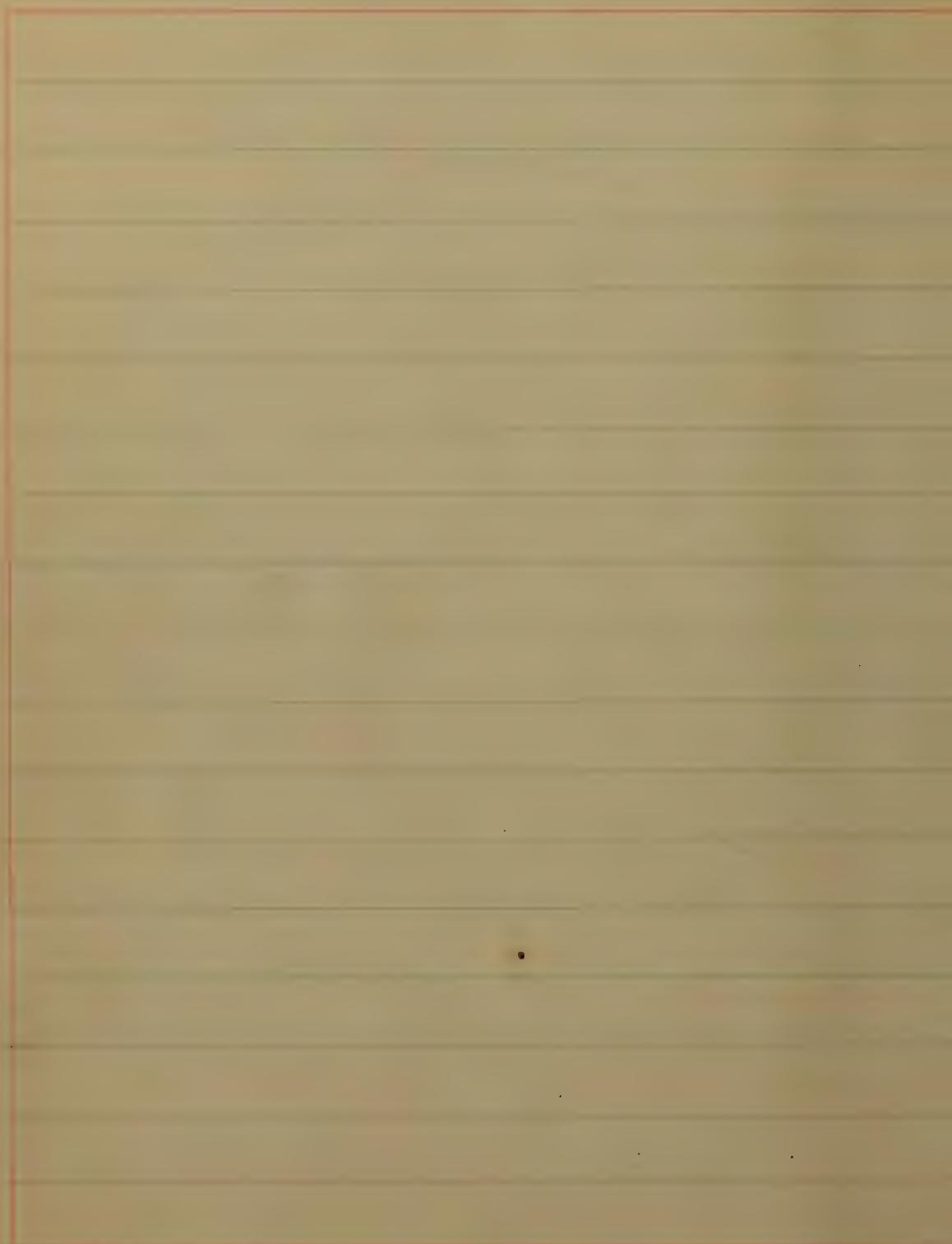
Where delirium, drowsiness and convulsions are present they indicate grave cerebral trouble and you can only treat the symptoms. Treat the complications as they arise as would be necessary in a primary affection.

Locally. Keep warm to the part. Use some moderate liniment. Let the effusion tamis too long. Protect it with "flying blister." Wrap the joints in flannel saturated with a solution of zinc tannate & alum and subacetate of lead. Keep the parts covered with silk with some non-conducting substance.



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C. L. E. M. A.



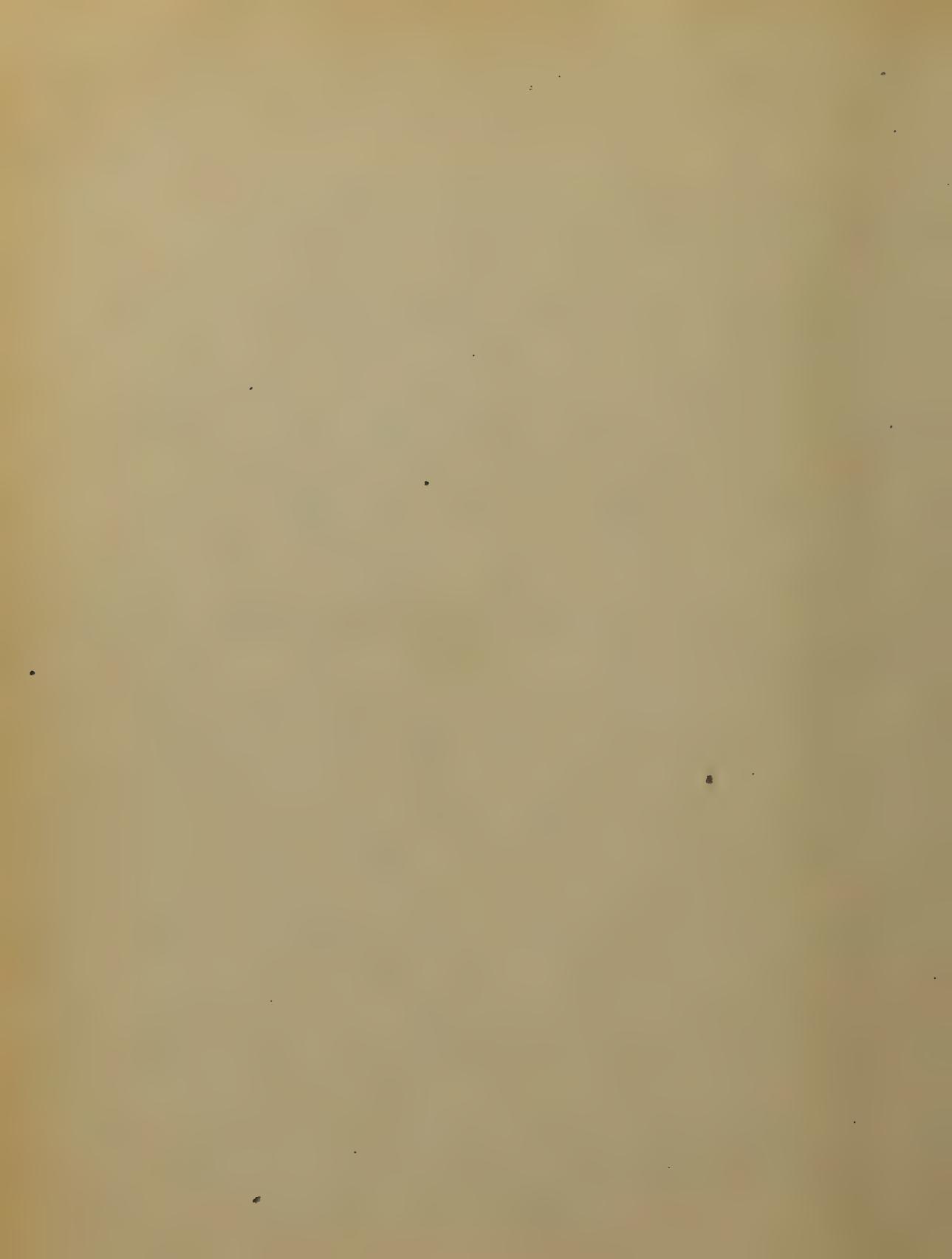
## Inflammation.

Inflammation is a local irritation or a part characterized by redness, heat, swelling, and pain, with disturbance of function.

The phenomena of inflammation.

The redness is due to the dilatation of the vessels. The heat is due to an over amount of blood, and it is doubtful whether the blood itself increased in heat.

The swelling is due undoubtedly to the excretion



of the blood, and also  
to the exudation of serum  
from the vessels. In the  
cellular tissue: from  
the stagnation of the blood  
in overloaded capillaries.

Pain, which varies  
according to the intensity  
of the stimulus, partly  
due to the pressure on  
the nerves. In loose  
tissue the heat is great,  
swelling rapid, and  
pain slight. In con-  
nective tissue, situated  
beneath fascia, reduces  
and swelling necessarily  
slight, but pain pro-



on account of tension.  
Inflammation is acute  
and chronic.

When acute all of these  
symptoms develop rather  
quickly; when chronic they  
manifest themselves &  
more slowly.

With these local symptoms there will always  
be associated some  
disturbance of function,  
and what is of equal  
importance there will  
be some constitutional  
disturbance which is  
known as an inflammatory  
fever. This fever



depends upon the severity and character of the inflammation and its seat.

Causes are predisposing and exciting. The former are such tendencies as make the patient liable to the recurrence of inflammation; as heredity, and previous attacks of inflammation.

Exciting causes are those which produce the actual outbreak of the disease, as irritation,



substances, and, wounds.  
Inflammation spreads  
about the system in  
several ways, by con-  
tact, by contiguity  
by reflex and by the  
blood current, (as in  
cases of embolism).

Subacute inflam-  
mation lies between  
the acute, and chronic.  
The two terminations,  
a return to health, by  
resolution, or ab-  
sorption, of the in-  
flammatory deposit  
and the second, by  
the death of the part.



Death may occur  
moleculately, when  
it is called ulceration,  
in the soft tissues,  
and caries in the  
bone tissues.

Inflammation, which is  
called mortification,  
in the soft parts, and  
necrosis in the bone  
parts.

The pathology of inflam-  
mation. It

The process of inflammation  
comprises changes  
in blood, vessels, and  
circulation, exudation  
of fluid, and of blood



corpuscles from the vessels, and changes in the inflamed tissue. Changes in the blood vessels, and circulation are essential to the existence of inflammation, both in vascular and non-vascular tissues. In the latter which comprise the cornea and cartilage they take place in the adjacent vessels from which these tissues derive their nutritive supplies.

It has now been de-



mined that no increased activity, no multiplication of tissue elements occurs as a part of the process of inflammation, but that on the contrary the process leads everywhere to depression of vitality, degeneration, and death.

Pus is made up of pus-cells and fluid. Cells are made up of dead white corpuscles.



## Treatment.

Remove the cause, and  
rest the part at rest.  
The treatment depends  
on a knowledge of the  
phenomena.

Whenever possible, con-  
fine the part actively,  
as by applying  
a Tspirit. Elevate the  
limb above the heart,  
if possible. Irrigation  
always pro-  
vides for carrying

off water by oil cloths,  
as always to have  
the patient neat.

By irrigation, lacer-  
ated limbs may often



be saved, which would otherwise be inevitable, lost, but care must be taken not to apply too much cold to inflamed parts. Never apply cold when pus is present. The sensation of the patient must be the guide. If he feels chilly, elevate the temperature of the water. It is often difficult to say from inspection whether heat or cold, is required. As a general rule, in frank, open, energetic inflammation, a sturdy



constitutions cold is better, and in subacute, inflammatory occurring in weak persons, warm applications. In all cases let the sensation of the patient be the guide!

But how do heat and cold, being opposites, act favorably in the same disease? Cold is sedative, reduces temperature, and circulation, and acts favorably on nutrition.

When the tissues are tough, heat molifies.



and takes off the pressure, thus allowing the circulation to go on, relieving the irritation and pain.

Heat also favors exudation. Heat with moisture is indispensible when inflammation is in the act of recurring with subsidence. Yeast or "porter" for a fermenting poultice. Flax seed makes the best poultice, charcoal may be incorporated with flax seed, as a deodorizer. Sometimes well regulated



pressure may do good.  
Vesication is performed  
a two fold work, it attracts  
blood from part, and  
attracts serum, and thus  
diminishes pressure.

Vesication is usually  
produced by caustic  
bodies.

Tiffey

In treating in-  
flammation don't  
treat simply the name,  
but treat what you  
have before you. Use  
common sense. Well  
regulated pressure is  
good, in some stages.



Pressure such as plaster = paris coats with cotton between it and the skin. It keeps the blood vessels from dilating and becomes congealed. Wrap the part with rubber tubing and pass ice water through it, is very good, when the vessels are dilating, but not when pus is present. When pus is present let it out.

Give the patient enough opium to make him comfortable. If one preparation will not



agree with him, give him  
such a preparation as  
he can take.

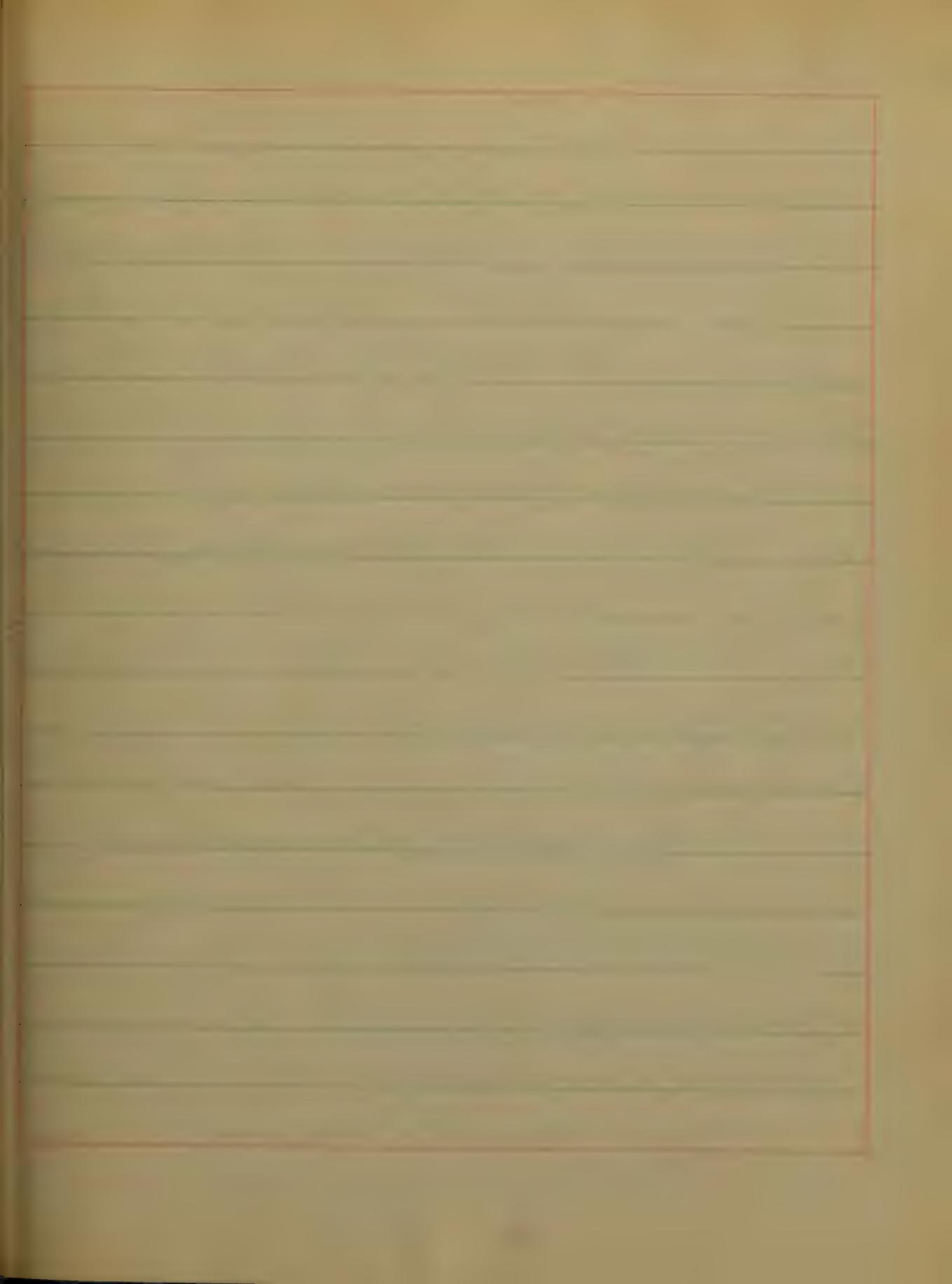
Fluctuation is a sensation  
appreciated by the pa-  
tients when there is a  
fluid in a sac under  
them, and you tap the  
part or press on it.  
You can get fluctuation  
across the belly of a  
muscle very often. So  
don't make a mistake  
and open the belly of  
a muscle for an abscess.  
It is not generally  
proper to wait for  
an abscess to get ripe.



before you open it.

When the middle of an abscess is soft, stick a knife in it, and pull it out the pus. When this is done the patient gets rest. When you open an abscess, open it freely - never make a small puncture. After this, small blood vessels begin to look and look until they meet or break so they run into the abscess cavity, and this is called granulation.







University of Ind.,  
Dec. 26<sup>th</sup>, 1885-6.

Pneumonia-Pneumonitis-Inflammation of the lung  
Causation—It is an inflammation  
of the substance of the lungs, like bron-  
chitis, is generally due to the influence  
of cold and wet. It is also caused by  
spread of inflammation from other  
parts, as, from the bronchial tubes, in  
pertussis, bronchitis, measles, influenza,  
diphtheria etc.; from the lining surfaces  
of pleuritis; or, if the pleural cavity be oblit-  
erated by adhesions, from the chest wall,  
or the surrounding viscera. It may be  
developed by the direct action of mechan-  
ical and other irritations; as, the inhala-  
tion of irritant gases, particles of carbon  
metal; or it may be caused by emboli  
in the branches of the pulmonary artery,  
or by tubercles or coils in the walls of the

All. 9 Silver

lungs. It is more prevalent at certain seasons, especially those seasons when the temperature is liable to decided variations. In the British Islands winter is the season of greatest prevalence; on the Continent, spring: in this Country, winter multiplying the former especially - hence the name winter fever. Persons who have a constitutional tendency are more liable to it, and there will be the diathetic states concerned in the production of pneumonia, bronchitis, gout, rheumatism, the eruptive fevers, especially chronic alcoholism. But constitutional, i.e., pneumonia occurs quite often amongst those who seem to be in the best of health. It is met with in both sexes, and all ages, but is more common in men than women.



because in their evolution they are more exposed.

Morbid anatomy.—It is generally divided into two forms; namely lobar and bronchial pneumonia, or it may be termed by Guernsey writer, cropper and catarrhal; the type of the former variety being furnished by the catarrhal affection, that of the latter by the condition which is secondary to the disease of the air passages. The two varieties however, have intimate relation.

Lobar pneumonia begins with inflammation at the small vessels in the walls of the air cells and bronchial passage; with proliferation of the epithelial cells in these parts and circulation of lymph, and circulatory element of the blood. communicating with these vessels are microvilli and fine



sages which become gradually distended with exuded matter, and the air they contain is expelled and this portion of the lung becomes solid. The dilated vessels are more or less plugged up by their carbonaceous contents, and the alveoli filled with cells; these cells are modified epithelial cells, some granule-cells, and others involving the characters of histiocytes - all are blended together by a glutinous material, or fibrillated network. During the affection the contents of the circulatory vessels, and receive more and more the microscopic characters of the lung. The fatty degeneration may become general throughout the accumulated cells, which may be either expectorated or absorbed. Fibrosis is sometimes formed



in the lungs by - conversion of the inflam-  
matory irritation into heat, and sometimes  
by the occurrence of venous. Inflam-  
mation of the lung like inflammation  
in other parts seldom occurs without serious  
exudation into the surrounding tissues  
and, incunovic inflammation, like  
other inflammations, tends to spread.  
Pneumonia is divided at least into three  
stages; first is the stage of congestion or con-  
gestment, the second that of red reha-  
bilitation, and the third that of gray destruc-  
tion. In the first stage the lung  
contains serous air, it is congested, looks  
more moist and is easier lacerated  
than a normal lung, and is also more  
feeble. This is the period of congestion or the  
beginning of rehabilitation, and at this



time it is difficult to distinguish the condition of the lung from that of myostatic congestion. In the second stage the lung is consolidated; it has lost its air and its cavities are filled with cells; it is distended and its lobules can be distinctly seen; and presents a mottled appearance. Blood is sometimes disseminated into its tissues. The lung-tissue is easily torn and readily floats in water. The third stage differs from the second, mainly by the lung-tissue being of a perfectly uniform grayish color, yellow and greenish tinge, and in its increased friability, and in the formation of a thick, tenacious film over its surface. In some cases the blood is scanty, and in others very abundant.



The oedema generally extends beyond the part of the lung affected. Inflammatory exudate is often deposited on the surface of the inflamed part of lung, and also where the parietal pleura. Since pneumonia tends to spread, we occasionally find its stages all present at the same time in the same case. Inflammation may be limited to small patch, or it may involve a whole lung, or even both lungs may be affected. The right lung I believe is easier to be affected than the left, and the liver larger than the spleen.

Lobular pneumonia is an affection of young children especially, but it is not uncommonly incident



persons. There are pneumoniae patches in the lungs, varying from the size of a pea to that of a tumbler, and involving one or more lobules, and separated by a network of epithelial, and perhaps healthy lung-tissue. These patches may be singular, if such be the case it may be difficult to recognize their character; sometimes they present the ordinary features of red or gray hepaticization. Much of the lung-tissue may become involved by these patches extending and coalescing; and this is the way lobular and lobar pneumonia pass into one another. The lobular pneumonia is always secondary to the blocking-up of air-passages, especially the



capillaries; it may be excited by the gradual extension of inflammation from the tubes to the air-vesicles, or inflammatory products may enter the air-vesicles during inspiration which act as irritants and, consequently, are also exciting causes. Epithelial, granular or embryonic cells are found in greater or less proportion, according to the stage of the disease. The disseminated pneumonia is closely allied to lobular pneumonia, it is due to obstruction of the small branches of the pulmonary artery, either by embolism or thrombosis, or in the course of hydropsia. In these cases the affected patches are, also, usually of small size. Lobular pneumonia is usually



but marked towards the base of the lung. There is a tendency to the development, in all forms of pneumonia, of bronchitis to a greater or less degree. In the beginning of pneumonia, a transparent viscid fluid, stained with blood is effused from the air-cells into the tubes; sometimes this fluid accumulates in the bronchial tubes, and thus they become filled to a greater or less extent with casts. Pneumonia often proves fatal; and sometimes passes into a chronic state or consolidation. Pneumonic abscesses are generally small and irregular in form. Gangrene rarely occurs in suppulsive pneumonia; but is principally met with in cases of septicemic pneumonia.



is secondary or a complication of another affection! When the lungs become gangrenous their tissue break down into a fetid greenish yellow pulp, and the discoloration of the firm surrounding tissue is more or less greenish; and this solid tissue is sometimes ulcerated. Gangrene may involve a large portion of the lung or several patches, or even one small spot. The margin of the gangrenous cavity, if a host morulae exanthemation be held, will be found in some cases ill-defined, and in others well-defined. Besides illaving and bronchitis, we often meet with an hepatic condition, on or near the right; more or less jaundice; inter-



tinal congestion, and inflammation of the bronchial glands. During pneumonia other organs besides the lungs are sometimes involved by the inflammation; as the bowels, kidneys, pericardium and brain. Typically, generally the left side of the heart is contracted and nearly empty, and there is a clot of fibrin in the right side of the heart which projects into the pulmonary artery.

Symptoms and progress.—Inhalative pneumonia is ushered in with a day or two of feverishness. The invasion of the disease is generally marked by a sudden and severe rigor, a succession of rigors, and in children by an attack of convulsions; these



is also considerable elevation of temper-  
ature. The specific signs of the pul-  
monary affection usually show them-  
selves immediately or in about  
twelve hours; very rarely are  
they delayed for a longer interval.

These signs are rapid breathing;  
dorsal pleuritis; cough which is  
soon attended with viscid sputum  
stained with blood; some-  
times pain when a deep breath is  
taken; and according to the stage  
of the affection, fine exhalation, or  
dullness with tubular breathing,  
and increased bronchial noise and  
vocal murmur. The patient's respi-  
ration is rapid; his skin is hot and  
dry or perspiring; his tongue furred;



his pulse accelerated; jaundice and diarrhoea are apt to occur; his urine is scanty and albuminous, and delirium occurs especially at night. In mild cases after two or three days of illness, the temperature falls, and the other symptoms subside gradually until convalescence is established. In favorable cases convalescence may be delayed for a week or fortnight, and then the patient may recover indolently or gradually. Death may occur in fatal cases at any period of the disease, and is due generally to asthenia or asphyxia, or both of these conditions. The respirations are usually shallow



and hurried, and run up from the normal to 50 or 60 and even more in the minute, and where rapid the alae nasi expand, and there is usually a sucking sound in the mouth, and more or less dysuria.

Cough, which is sometimes very troublesome and even haemoptoic, is almost always present. It is a dry cough at first, but is soon attended with expectoration of thin, transparent and viscid mucus stained with blood. This sputum is usually described as having a rusty color, it often has, but it varies in color, and is sometimes a bright crimson, when it may be taken for pure blood. After a few days the



expectoration becomes opaque and greenish, and in fact acquires a moco-purulent character; and then gradually diminishes in quantity. Sometimes it acquires a deep purplish or reddish-brown tint and a watery consistency. This form of sputum is also likened to prune-juice, and is a sign of increased congestion and escape of blood. It is also a sign of the humor of the third stage, and a fatal issue. The presence of pulmonary gangrene is indicated when the expectoration is purulent, or is attended with odor. The quantity and quality of the expectoration vary in different cases. In some there is none; in some the



patient never expectorates more than one or two rusty-colored sputa; in other cases the sputum never presents the characteristic tint. The expectoration contains sodium chloride, mucus and albumin. Sometimes the patient complains of no pain; sometimes of a sense of heat; and there is a stitch sometimes when he coughs or draws a deep breath. This pain is a sign of the coexistence of lassitude. The most characteristic respiratory phenomenon during the first stage is fine capitation, which can be seen during inspiration, and sometimes during expiration, and frequently at the end of a deep inspiration. On percussion there may be no change,



or there may be high-pitched resonance or cracked, hot sound. The second stage is marked by dullness over the consolidated portion of lung, with increase of vocal fremitus; instead of fine crepitaculum, we get tubular breathing, and the corresponding whiffing character of cough and voice; and bronchophony. A metallic crepitaculum is also sometimes present. There is almost an absence sometimes of respiratory sounds and bronchophony over the affected region, due probably to obstruction of the bronchial tubes leading to a portion of consolidated lung. During the coexistence of pleurisy with pneumonia we get friction sounds, and, probably, other pleural



nomena indicative of pluviisy. When resolution takes place, or the lung-tissue begins to break down a coarse crepitatio takes the place of tubular breathing, to which the name, crepitatio reditus has been given. When the lung is consolidated, the movements of the thoracic walls in relation with it become impeded, and the resistance on percussion increased. Pneumonia may be deep-set in the lung, or confined to the inner surface, and thus escape detection by auscultation or inspection. Some dullness on percussion usually persists long after the local signs of pneumonia have disappeared. The cardiac pulsation



always increase during the febrile stage, but rarely increase proportionately to the respiration. This ratio instead of being about 4 to 1, sinks to 2 or  $1\frac{1}{2}$  to 1. The pulse in adults may range from 80 to 120; in children may reach 200 or more. When the pulse is very rapid, it is an unfavorable sign, it is generally associated with febrile heat. The pulse is frequently a little; somewhat full and strong, but sometimes full, soft and debonoring; later on it is always more or less feeble and circulatory. There is always an excess of fibrinogen in the blood. The tongue is coated, and in some cases becomes dry and brown, and



sordes accumulate upon the teeth. There is always loss of appetite; and thirst is pretty constant. The bowels vary, sometimes are not particularly affected; sometimes constipated; and at other times there is more or less diarrhoea, and this may be entire in character. Jaundice is said to occur more frequently when the right-lower lobe is affected; but there is no more connection between right pneumonia and jaundice than between left pneumonia and it. The urine is scanty, dark-colored, and of high specific gravity; contains less sodium chloride than usual and an excess of ureic acid and urea.



with a tendency to deposition of mucus. It contains sometimes albumen with hyaline, granular, or epithelial casts. It gets more abundant, pale, and of lower specific gravity during convalescence; and the mucus diminishes, while salt increases. The face is flushed in the early period of bronchitis, and may be somewhat livid; the skin is hot and dry, but there are often profuse sweats during the disease, and this greatly aggravated its decline. An eruptive eruption about the lips and nose was almost pathognomonic. In the beginning of this affection the patient complains first of headache and joint pains. He-



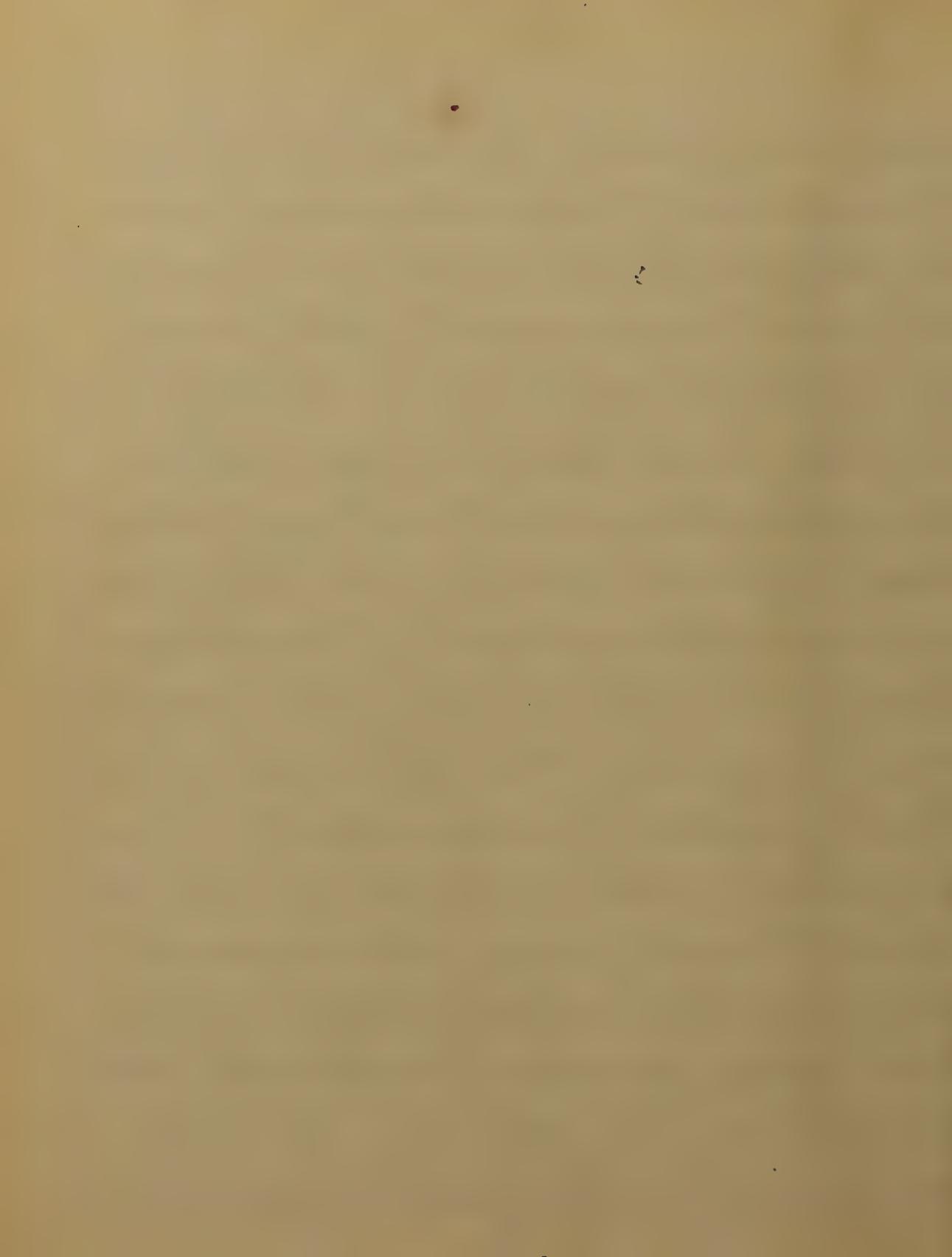
brain passes gradually into coma  
in fatal cases. Subsulting mus-  
cular terrors, and loss of control  
over the bladder and rectum some-  
times occur in some cases. The  
temperature varies from  $100^{\circ}$  to  $106^{\circ}$  or  
more; and attains its maximum  
in a few hours. There are num-  
berous remissions and evening exac-  
erbations in the temperature, until  
convalescence begins. Heliopathic  
pneumonia might be confound-  
ed with typhus and eruptive fevers;  
but generally its symptoms are so  
characteristic that it is almost  
impossible to mistake their  
significance. Sometimes these  
affections are complicated with



secondary pneumonia. It is different, however, <sup>in respect of</sup> ~~with~~ the various forms of intercurrent or secondary pneumonia, and with the tubular variety of the disease. These occur generally insidiously in the course of other grave affections, which have already probably produced some pulmonary symptoms; such as dyspnoea, cough, expectoration of sputum, mucous or bloody sputa, lividity of surface, carbonic acid poisoning; but their onset is not usually attended by rigor, or high fever which characterizes the icteric variety; and they are not often accompanied by labored respirations, or faintness; and often there is no increase of delirium.



exerting towards the close of the disease.  
These forms of pneumonia can only  
be positively determined by careful  
physical examination of the condi-  
tion of the thoracic organs. But lobular  
pneumonia may be present to  
considerable extent without diffi-  
culty, tubular breathing or other specif-  
ic signs of the disease. The phenomena  
of auscultation and percussion  
may differ little if any from  
those of capillary bronchitis. The  
breaking-down of lung-tissue in  
the latter stages of pneumonia  
does not reveal itself by any spe-  
cial sign, unless the cavities be  
of such size or position, to cause  
characteristic auscultatory phe-



monia. These abscesses sometime open into the pleura, or perforate the thoracic walls, and sometimes form sinuses running down behind the pectoral muscle, and they finally open into the colon or some of the hollow viscera of the pelvis. When gangrene is present there is a distinguishing fetor of the breath. When gangrene appears there is also depression of vital power or collapse. Pneumonia is always a disease of considerable gravity. The idiopathic form is seldom fatal, unless a large portion of the lung be involved, or both lungs be attacked; and it can - in old persons, or when patients have irgend



Their constitutions by bad habits, over-work or disease. Lobular pneumonia is very fatal.

Treatment.—The treatment must be governed according to the conditions of each individual case. It is well not to employ medicines that interfere with the normal course of the disease. In nervous irritability, pain, rapid breathing, etc., administer morphia. Give twice six minims of Magendie's solution with a third of a grain of the sulphate of atropia added to it. The morphia may be administered by the mouth in doses of a sixth or half a grain. When medication has taken place from two or three days, the lobular, but



if the treatment is begun at the earliest  
 of the disease, it can be done by the  
 administration of large doses of opium  
 combined with aconite.  
 Tincture of aconite may be given  
 in the earlier stage provided the  
 pulse is rapid. but it is a sensible  
 consequence it's almost need to be  
 watched. Sedatives after consolidation  
 occurs, should not be used,  
 because the heart wants all its  
 strength to drive the blood through  
 the lungs. Opium no should be  
 given very cautiously, when the  
 patient is suffering from hypo-  
 tension and insufficiency of circulation  
 of blood. In the second stage the  
 same insufficiency will continue



the weak pulse and to treat the high temperature. For cooling, boric acid, nine, or the hydronitrate solution may be used. If febrile, the temperature is to be reduced until the crisis occurs, when naturally it begins to abate. If the pulse is full and intermittent, alcohol may be given. The amount must be regulated by its effect; if it seems to be doing good continue it, or if not stop it. Carbuncle of bromonia may be given in fine or in grain doses with the ricinol, if it causes inflammation. Do not use ricinol if the skin has become blisters; nor may give bilious but water in slight or if it is scalding.



Turpentine also is given sometimes as a stimulant excretant, in doses of ten or fifteen drams in the third stage, when resolution takes place slowly, a blister may be put in the axillary space but if held too long enough to produce a diffused redness; after its removal intend bay-sod poultice. Rose, quinine and cod-liver oil are the best agents to be employed during convalescence. Some physicians think it well to keep the affected limb immersed in a large tub filled with a bath of camphorated water, the application of ice-bags or cold compresses.

Robert S. Glazell, M.D.



# Disinfectants & Infection

by,

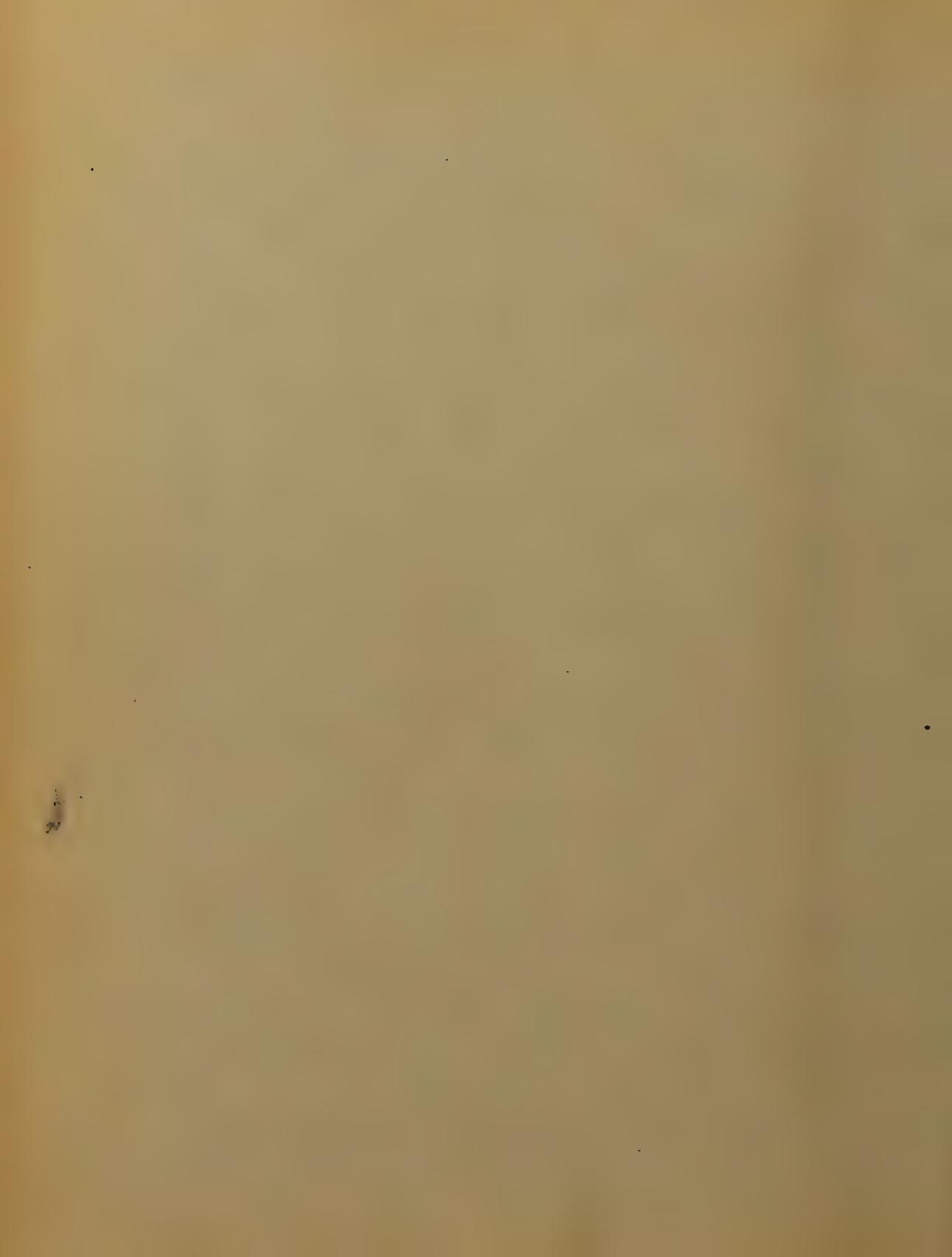
R. Edwards, F.R.S.  
Class 1885, & 1886

Owing to the prevalence of cholera in Southern Europe during the past year or two, a greater attention has been given to the subject of disinfectants, in order if possible to abate in some measure the terrible ravages made by this and similar contagious diseases, whose origin is supposed to be due to living organisms. The literature on this subject is very extensive and the results arrived at during the last year have indeed been flattering and bids fair, at a near period, to solve the question:



There is the most obvious remedy  
to the destruction of these organisms?  
I will not attempt to answer the  
above question in this article, but only  
wish to give the result of my long  
experience in the handling and  
using of those articles commonly  
used as disinfectants.

By a disinfectant is meant, first,  
a substance either in the liquid,  
solid or gaseous state, which destroys  
or renders inert, that which probably  
would produce disease, whether of an  
infectious or contagious type, and  
secondly, a substance which arrests  
those putrefactive changes in decom-  
posable materials, which foster or



produce those germs, viruses, or bacteria, that induce disease in the human system. An antiseptic on the other hand is a substance which prevents decay in material that is liable to decay, and thus it may seem that disinfectants act upon materials, that produce those death giving germs etc., while antisepsics act upon those substances, which enter into that state, but have not as yet done so. The use of salt, sugar, vinegar, and the employment of heat, are well known examples of household antiseptics. Mercury chloride and arsenic are extensively used in embalming and in the preservation of medical specimens. Thus it will



be observed that any substance classed under the head of disinfectants, may also be used as antisepsics, and if large quantities of antisepsics possibly will also act as disinfectants.

Since the masses of material which we are called upon to disinfect, are usually larger, it becomes necessary to seek out the smallest quantity of material necessary to decompose the decaying matter, or destroy the germs, gases, etc already formed, and it is necessary to find also the cheapest article possible for such purposes, for usually the localities that call for a vigorous disinfection are the barns and



surroundings of the very lowest  
on population. The disinfectants  
now in use or more or less poisonous,  
and some of them or even dangerous  
to handle. The safest plan  
is the destruction or removal of the  
excreta or animal refuse, but this is  
not always practicable in a household  
or community. The question is now  
can the putrid fermentation be arres-  
ted and destroyed? To answer this  
the process of putrefaction should  
be understood, and the causes and  
most favorable conditions for this  
process studied. A certain amount  
of moisture is necessary, and a  
temperature not exceeded 100 degrees.



Fahr. or lower than 55. will give us the necessary conditions to set up putrefactive changes in animal matter. If the temperature is carried beyond 100 degrees, and the process of driving out the moisture by driving the putrescible matter, decomposition will be arrested, and the process for a time suspended, a like result will be obtained if the temperature is lowered below 55 degrees Fahr. but it has been proven without a doubt, that in such cases, where the dried and frozen material are again placed in the same favorable conditions, a like result will be ob-



stained, dessication can only be regarded as an anti's etic process which suspends the vital force of the organisms taking part in the fermentation of the animal matter, the same remarks are applicable to a low temperature, which suspends animation for a time, but are brought again into activity by the application of warmth. Heat on the other hand when carried to a high point, has been shown to prove fatal to such organisms; a short exposure to a high heat, and a long exposure to a low temperature has been found to destroy infections or putrefactive organisms. Another factor in the putrefactive



process is the presence of a small amount of Oxygen, although it has been advanced by some that oxygen is not an essential element to the process but it is said to retard the change. the investigation however of this theory requires more time and attention, together with considerable outlay which is beyond my power to give or bestow upon it. The subject cannot be settled by the use of those materials that will ~~give up all the oxygen in~~ ~~sufficient amounts of oxygen.~~ As these agents completely inactivate the coagulation of the albumen but it will supply and excess of oxygen that will and does disinfect



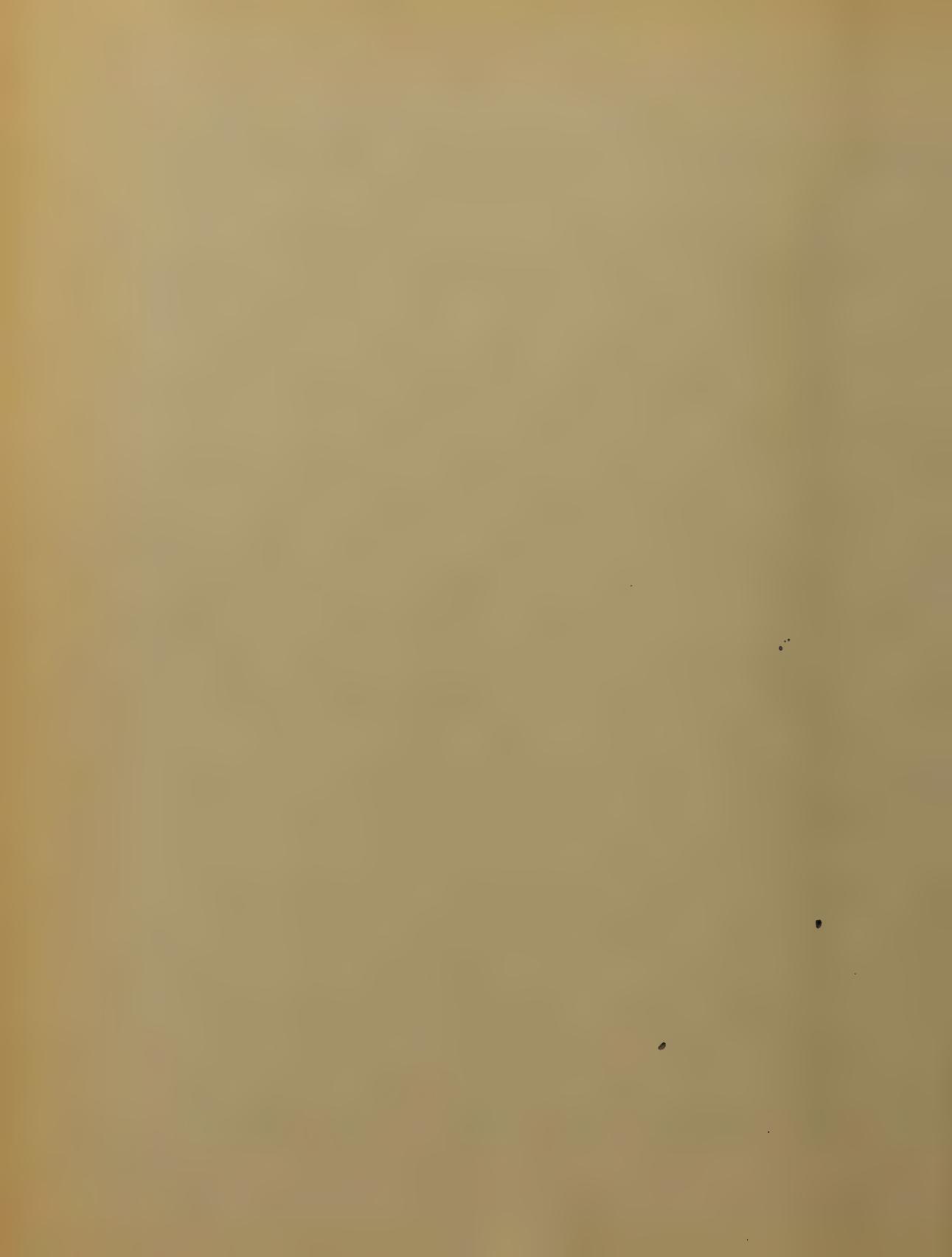
So the process is in itself stages in the oxidation of the elements of the constituents of the decomposed matter. If then we supply them with a larger amount of oxygen, especially in a condensed and active form, aside from any direct action actions on the organisms present, the organic matter is rapidly carried through these stages, to a greater or less extent according to the amount supplied, and is converted into compounds less favorable for the development of such organisms. A number of substances used as disinfectants act in this way as ozone, Hydrogen peroxide, Nitrous fumes, Chromic acid, Potash, per



Salts iron, Chlorine, Bromine, or substances which can be made to supply chlorine, as Leblanc's Lime, which by combining with the hydrogen of the water or of the organic materials sets oxygen free, various substances disinfect in a way which is not fully understood, but which seem to have something in common with their power of coagulating albumen, That is all these substances have the power of coagulating albumen, though their power of disinfecting, are not proportioned to their power to coagulate, and in the case of some it has been observed that a disinfective power exists even when so.



diluted that they fail to coagulate albumen, at any rate the nitrogenous matter in organic substances is the chief source of nutrient for putrefactive organisms, and this explains why the decomposition of animal matter, (which contains a large proportion of nitrogenous matter represented by albumen) is more dangerous than vegetable matter and some action not clearly understood is made upon the nitrogenous matter by certain agents. The agents which produce this change are the so called coal tar products: as carbolic & creosolic acids. He will now consider briefly-



by the several agents used as disinfectants

### Sulphurous Acid

This acid stands at the head of the list and the power of its ability for destroying diseases which are dependent upon the germ theory is almost universally known.

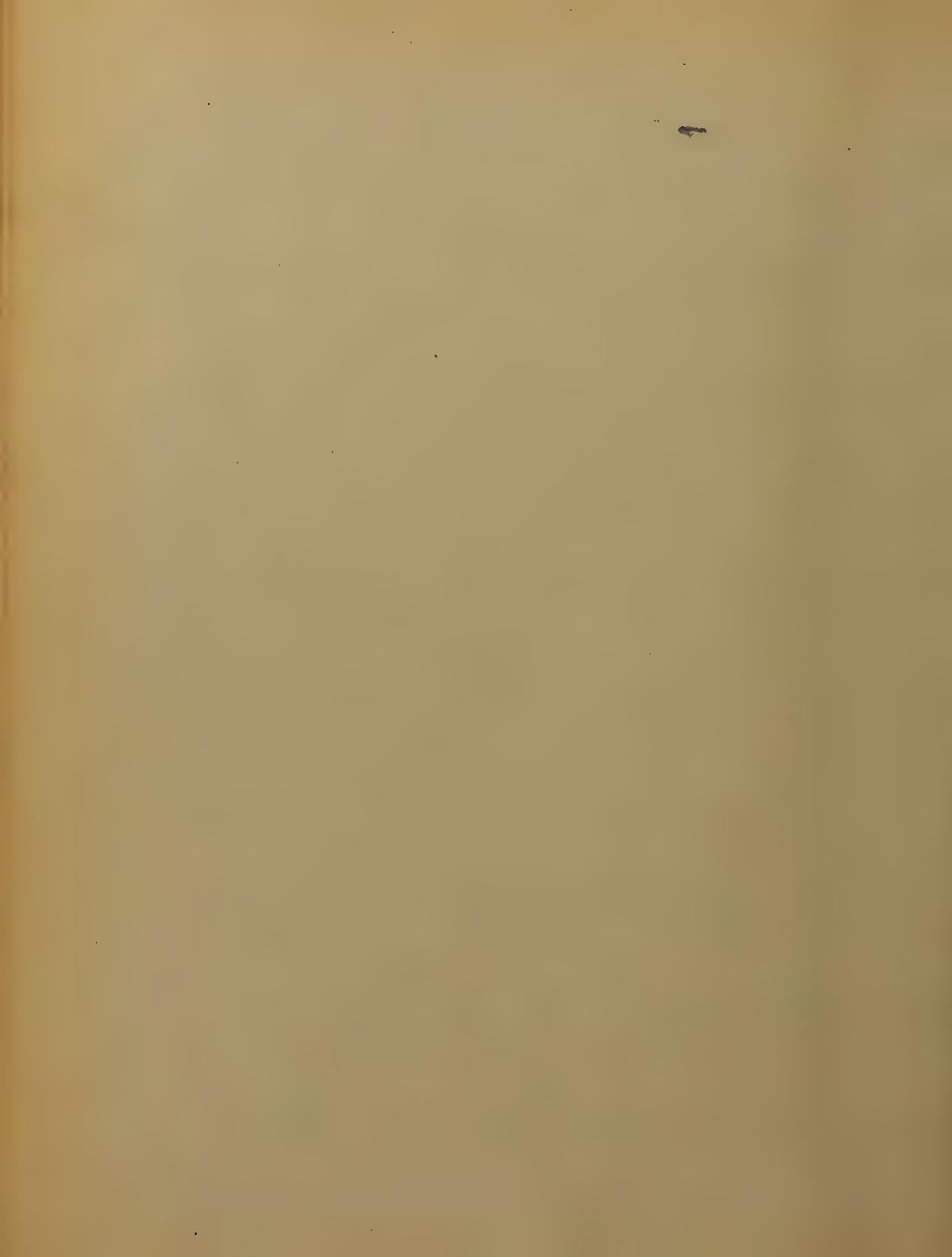
It is used by sanitary authorities with the greatest confidence, especially in destroying the infection of small pox, scurvy & yellow fever. It has been known to possess these properties for a long time, even as early as 1771, it was used by the Russian authorities during the pest at Moscow. It has been said that



a number of criminals condemned to death were made to wear the garments of soldiers who decreased with small pox. the clothes being previously subjected to the action of sulphur dioxide for several hours. The result of this experiment was successful as none of the condemned men contracted the disease. The acid is even yet used extensively and with the greatest confidence in disinfecting ships, hospitals & public institutions. but recent researches have shown that it is not the powerful germicide that some claim for it, and that its use on a large scale may eventually be abandoned. and some



other agent, from which more positive experimental results may be obtained adopted. Sulphur Dioxide may readily be obtained by burning sulphur, it is two and a half times heavier than air and soluble in water, but it deteriorates if kept in the aqueous state, and for experimental purposes should be freshly prepared. It is very extensively used for its bleaching properties, owing to its exceeding bad fungous odor, it cannot be used where human beings are exposed to its effects, so small a quantity as one part in ten thousand of air will produce <sup>dis</sup>comfort. Sulphur dioxide should not be used to



gather with chlorine as one neutralizes  
the other. In disinfecting a room  
from one to two ounces of sulphur roll  
or flowers should be used for every  
hundred cubic feet of space, this  
is placed over sand or water to pre-  
vent accident, and then ignited, the  
apartment should be kept as air  
tight as possible and left from  
four to six hours exposed to the  
gas, as already intimated there  
has risen a doubt in the minds  
of scientific men as to the true  
position of Sulphur dioxide as a  
disinfectant, it having been dem-  
onstrated by carefully conducted  
experiments that the gas has not.



the power of destroying the potency  
of some organisms, while its efficacy  
in destroying bacteria, and the mi-  
crooccus from a vaccine vesicle, with  
a five per cent solution, yet it utterly  
failed in spore containing material.

In an able article written recently  
by Dr Geo M Steinberg, Surgeon U.S.  
A., he concludes his paper in these  
words "My experiments show conclu-  
sively that it does destroy the spe-  
cific infecting power of vaccine virus  
dried upon ivory points, when present  
in the air of a disinfecting chamber,  
in the proportion of one volume per-  
cent, and that aqueous solution it  
destroys the vitality of various mi-



coccoci in comparatively small amounts. It is even practicable to destroy these organisms dried upon pledges of cotton or long exposure in a gas-tight receptacles. But the conditions of success are such that it appears almost impracticable to count on them on a large scale, and it is evident that much of the so called "disinfection" with this agent is a farce"

### Heat

The effects of heat have already been noticed. Dry heat is considered the most efficient for disinfecting purposes. The articles contaminated should be exposed



from five to six hours to a temperature above  $212^{\circ}$  Fah. In Great Britain dry heat is much used by the sanitary authorities, this is applied to clothing etc. in a large oven constructed for the purpose, and the heat carried from  $212.$  to  $300$  degrees Fah. Such an elevation of temperature would seem to effect the material, but it is shown that woolen goods exposed to this temperature do not deteriorate, but in cotton and silk goods the fibres are more or less damaged.

### Blowing

This gas like Sulphur dioxide has



also been long known and accepted as a disinfectant and is extensively used in the form of chloride lime. Chlorine may be readily obtained by the spontaneous liberation from bleaching powder, or solution of sodium hypochlorite, or by the action of sulphuric acid on bisulphide of manganese and common salt. In disinfectant purposes it should be generated in large quantities. The most convenient method in generating it is to use for every cubic meter of space to be disinfected fifteen grains of dry lime. It should mix it with g.s. water to make a thin paste. This to be divided in several portions



and placed in different parts of the room and to each portion add the same quantity of common chlorohydric acid as it contains time. the same precautions in reference to windows and doors should be observed as laid down in the use of Sulphur dioxide. The most thorough experiments with Iodine were made by Fisher and Proskauer, the material tested consisted of the spores of *Bacillus intracis*, *micrococcus tetragenus*, *micrococcus prodigious*, *bacillus of septacemia of mice*, *bacillus of septacemia of rabbits*, *aspergillus nigerescens*, and *aspergillus ruber*, and bacteria of *soil cholera*, and



micro-organisms, their conclusions seem to justify the statements that chlorine is an efficient disinfectant when in the proportion of one part in one hundred. but the air and objects to be disinfected should be in a moist state and should be exposed from two to three hours. chlorine being a powerful bleaching agent all fabrics will undergo more or less change when exposed to its influence

### Lodine & Bromine

These two substances though differing in physical appearance, seem to have about the same value as disinfectants, their effect on the



various non-pathogenic microorganisms are of equal value. Iodine may be used by gently heating in a flame over a water bath. Bromine may be placed in an open dish and allowed to evaporate, the extreme unpleasantness in handling Bromine has in a measure been overcome by an invention in Germany which consists of a block of porous material, preferably made of industrial earth saturated with Bromine. Held in this form it may be handled with perfect ease.



## Barbolic Acid

Barbolic and cresylic acids may be said to have been used as disinfectants since 1834 when discovered by Bunge. They are distilled from coal tar. and the articles made by Laevens & Co. have a universal reputation for purity etc. Barbolic acid is the basis of Professor List's antisette surgery, and was brought prominently to the attention of the scientific world through this channel. and thus led to an investigation as to its disinfectant properties. Prior to this it was used in Europe as a disinfectant and was also held in high es-



## Barbolic Acid

Barbolic and bresyllic acids may be said to have been used as disinfectants since 1834. When discovered by Runge, they are distilled from coal tar, and the articles made by Leibert & Co. have a universal reputation for purity etc. Barbolic acid is the basis of Professor Lister's antisепtic surgery, and was brought prominently to the attention of the scientific world through this channel. And thus led to an investigation as to its disinfectant properties. Prior to this it was used in Europe as a disinfectant and was also held in high es-



term in this country for similar purposes, but of late years its use as a disinfectant has been called in question and has led to the most careful & practical investigation by Dugall, Baxter, Strubing & others. It was demonstrated by them that Carbolic Acid could not be relied on as a disinfectant except in special instances, and especially in the bacteria of putrefaction it was inefficient. The large per cent of carbolic acid in the liquid form for disinfectant & germicidal purposes prepares us for its failure in the gaseous form so that the popular idea shared by



a great many physicians that an order of carbolic acid in the sick room, or in a foul privy, is an evidence that the place is disinfected is entirely unfounded, and in fact the use of this agent as a volatile disinfectant is entirely fallacious, and impracticable because of the expense of the pure acid and the amount required for this purpose, it being estimated that in order to disinfectant a room twelve feet square and twelve feet high, it would be necessary to scatter 17 lbs pure acid or 84 lbs common acid. \* even this would not entirely destroy the bacteria, but as an antiseptic this article has few superiors.



## Mercuric Iodide

During the last four or five years this agent has been brought prominently before the public as a disinfectant. It is claimed, however by Prof Storring of Goettingen, and in a paper recently published in the "Centralblatt fuer Chemie" that he has used it in the form of vapor with uniformly satisfactory results during the last twenty years both in hospitals and in private sick rooms. It has also been known as a parasiticide and as an antiseptic agent for the preservation of animal tissue for a long time, but it is only recently been demonstrated that Bi Iodide Mercury occupies



a leading place among germicidal agents. The iodide has also been put forward as an antiseptic and, a germicide, but owing to the heat-resistance and solubility of the iodine's it will doubtless be accorded the first place. Experiments were performed in the anthrax spores *B. subtilis*. The spectrum of tuberculosis, &c and Dr. Sternberg who performed the above mentioned experiments was justified in forming the following conclusions: Mercuric Iodide in aqueous solution in the proportion of 1: in 15,000, is a reliable agent in the destruction of micrococci and bacilli in active growth not containing spores.



~~spores~~, and in the proportion of 1 in 1000 it destroys the spores of bacilli; provided that the microorganisms be exposed fairly to its action for a sufficient length of time. A standard solution 1 in 1000 may be safely recommended, for the disinfection of bedding and clothing, which can be washed, for washing the floors and walls of infected apartments; for disinfecting the hands of surgeons and gynecologists, and as a disinfectant wash for superficial wounds or mucous surfaces. For continuous application to wounds, a solution of 1 in 10,000 or less, should be effective."



In few practical remarks on  
carrying out the application for  
ordinary disinfecting purposes we'll  
conclude this paper. Blotting  
bedding &c which will not be  
injured thereby should be expos-  
ed to a temperature not exceeding  
300 Fahr. for two hours. Blotting  
may also be disinfected by immersing  
uncolored material in a solution  
of lime in the proportion of one  
part in thirty. Blotting that can  
be washed should be boiled for  
a half hour no delay should occur  
however for as soon as the soiled  
clothing & bedding is removed it  
should be transferred to the laundry



A Solution of one part of Lubanque  
Solventum in five of water is excellent  
for washing the bodies of sick persons  
or attendants when soiled with  
infective discharges, the excreta  
of small pox, scarlet fever &  
Cholera should also be disinfect  
with a solution of Bihinde Lin &  
in the proportion of one in four  
of water. or if the odor is disagree-  
able to patient use a solution of  
Bichlor Mercury and Permanganate  
Potash in the proportion of two  
drachms of each to a pint of water.  
To disinfect a room containing a  
patient suffering with an infective  
disease, the room should be vent.



titrated and the strictest cleanliness  
 observed, and noxious odors may be  
 neutralized by the use of calomel.  
 the walls, floor, window ledges & furniture  
 should be washed with a solution  
 of corrosive sublimate of the strength of  
 one part in one thousand. the walls  
 should be whitewashed, after the vom  
 is evacuated by the patient, it should  
 again be subjected to the same treat  
 ment. and sulphur may be burned  
 to destroy those organisms upon which  
 it is supposed to act. for privies, cess  
 pools etc, use one pound of lith. man  
 to every hundred lbs fecal matter. estimat  
 ed in the vaults or one lb. of lith. lime  
 to every thirty pounds, walls of vaults



should be washed down with the same  
solution, during yellow fever, cholera  
or other epidemics. Lime should  
be sprinkled in walls every day.  
All water for drinking or cooking  
purposes during an epidemic stage  
should be boiled and filtered before  
use.



Thesis  
John McLaughlin.



## - Arsenic.-

Arsenic is sometimes found in nature, but more frequently combined with other and also chiefly with iron, nickel and sulphur. It is also contained, in very small quantity, being in many mineral springs. To separate it from the metallic ore in which it occurs, the ore is roasted in a reverberatory furnace; the arsenic combines with the atmospheric oxygen forming arsenic trioxide, or commonly called white arsenic, which is carried in the slag.



of vapor from the furnace  
into long chambers or flues  
in which the arsenic trioxide  
is deposited. Metallic arsenic  
may be prepared from this  
oxide by mixing it with  
charcoal and sodium carbon-  
ate, and heating in a closed  
crucible; the upper part of  
which is kept cool; arsenic  
condenses in the cool part of  
this apparatus as a solid  
with a brilliant luster.  
The vapor of this arsenic  
possesses a remarkable garlic-  
like smell.

Arsenic in the middle state



is inert unless it is oxidized  
and forms arsenic trioxide,  
and act with unexpected  
violence. When brought into  
water it forms an acid.  
It is therefore an anhydride.  
It is best in solution for  
internal administration.  
The dose of arsenious acid  
is  $\frac{1}{3}$  to  $\frac{1}{4}$  of a grain.

Iodide of arsenic is an orange  
red, crystalline solid. Dose is  
 $\frac{1}{4}$  to  $\frac{1}{2}$  grain. Arsenic in solution  
with the alkalies are all  
soluble in water.

The best preparations of arsenic  
are the following:



Liquor Arsenii et Hydriargyri  
Sodidi; known as Sloane's  
solution, dose viij to v  
Liquor Potassii Arsenitatis; known  
as Fowler's solution. Sloane's  
Liquor Sodii Arsenitatis; known as  
Parson's solution. Sloane's xx.  
The strength of the preparation  
is one hundredth of the arsenic  
of all the solutions mentioned  
above. Fowler is said to be  
the best. Arsenious acid ad-  
ministered may act with  
unprecedented violence.

When a course of arsenic is  
begun, large doses should  
be prescribed, and the quantity



administered should be regular reduced. In this way arsenical poisoning is avoided. When continual increasing doses is kept up for a length of time the arsenic accumulates and toxic symptoms are quickly instate. However when the idiosyncrasy of the subject is unknown it is better to make experiment with a few small doses before you begin with larger doses.

The chemical incompatibles of arsenic are the salts of iron, magnesia, lime and all the astringents.



The chemical antidote to arsenic  
in solution is the sesquioxide  
of iron freshly prepared.  
It is harmless and should  
be given in teaspoon doses  
over two or three minutes.  
However the first thing to be  
done in arsenical poisonings  
to evacuate the contents of  
the stomach.

In the absence of the sesquioxide  
of iron, magnesia  
chalk and lime water may  
be given freely.

After the acute symptoms  
has pass off you may in  
diluent drinks milk slowly



alkaline water to promote  
elimination of the poison,  
and opium to subdue  
inflammation.

All those agents which promote  
constructive metamorphosis  
are synergist to arsenic.

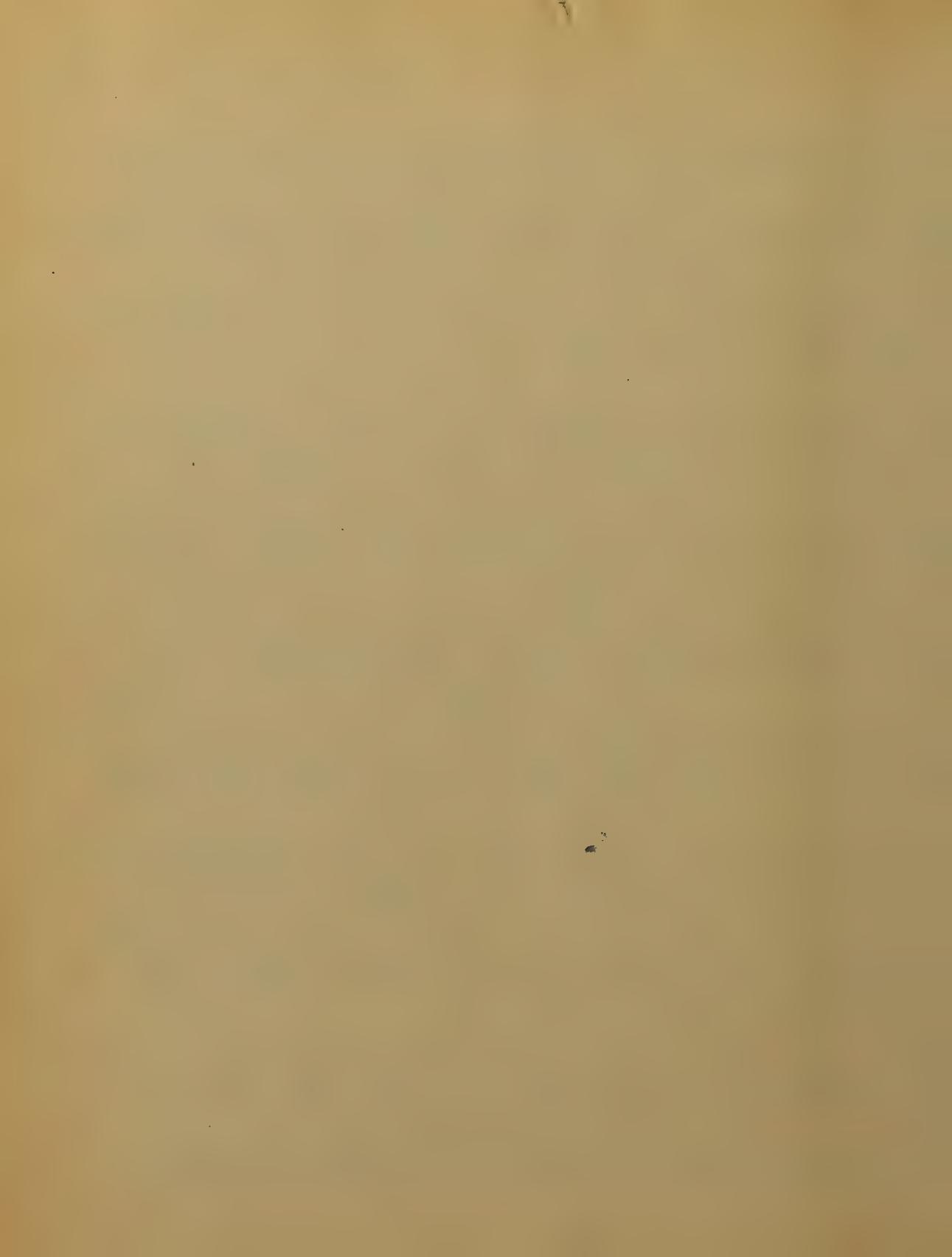
Pathological actions.  
The compounds of arsenic  
are powerful socharotic, and  
will produce sores on those  
who work in the arsenic  
preparations. Applied internal  
it absorbs and produce sym-  
toms as though it were taken  
by the stomach, redness, sores  
& pain, is a curious fact.



The effects of the administration of arsenic depends on the amount administered and the way in which it acts.

In medicinal doses, it promotes appetite, digestion, function, and improves the body nutrition. It increases the secretion of the gastro-intestinal secretion, and hastens the intestinal peristaltic movements. Arsenic diffuses into the blood with facility and probably enters into the red blood globules.

It certainly lessens the excretion of carbonic acid and



probably also of urea, or perhaps  
the retrograde metamorphosis  
it stimulates the cerebral func-  
tions and in some subjects  
mental exhilaration.

In larger doses, short of acute  
poison, administered for a  
lengthened time there is a  
metallic taste; nausea & vomit  
of glairy mucus; epigastric  
pain and soreness and af-  
ter a time diarrhoea of mu-  
stools. The heart is full and  
palpitation, depressed breath-  
ing. The skin shows its  
self by itching of the eyelids  
urticaria and pruritis.



As regards the nervous system: disordered motility - trembling stiffness and contractions of the joints, disorders of sensibility. However it is true notwithstanding the above effects that a certain degree of tolerance may be established as witness by the arsenic eaters of Southern Australia, who become habituated to enormous doses taken twice in themselves with impunity. They find it serviceable by improving the bodily condition become stronger gain in breathing power.



As a proof of this bodily improvement brought about by the use of arsenic, we have by that they can perseist in long runs ascending high mountains, and great bodily exertion without much fatigue compared to those not using arsenic.

When arsenic is taken in sufficient quantity to produce symptoms of acute poison the phenomena produced are of two kinds: one gastro-intestinal and the other cerebral. The gastro-intestinal form of arsenical poison are burn-



ing at the epigastric, violent  
vomiting, great dryness  
of the mouth and fauces,  
intense thirst, bloody stool,  
retracted abdomen; suppression  
of urine or bloody urine  
palpitation of the heart,  
oppressed breathing, hunk-  
en features and cold breath.  
The other or cerebral form  
without the characteristic  
abdominal symptoms, the  
patient is suddenly put in  
a condition of profound insen-  
sibility, similar to that  
of opium narcoisis, profound  
unconsciousness abolished reflexes

1980-1981

Recovery from acute arsenic  
al poison is rarely complete.  
Gastro-enteric irritability per-  
sist for a long time and life  
may be lost by continued sus-  
pension on the function of the  
lungs found after death  
are due to an irritant, dry  
redness erosion. More or less  
redness of the tracheal and  
bronchial mucous membrane  
and perhaps congestion of the  
lungs. Death from the cerebral  
effect there is no antemortem  
change except redness of  
the intestinal tract may be  
observed. Tatty degeneration



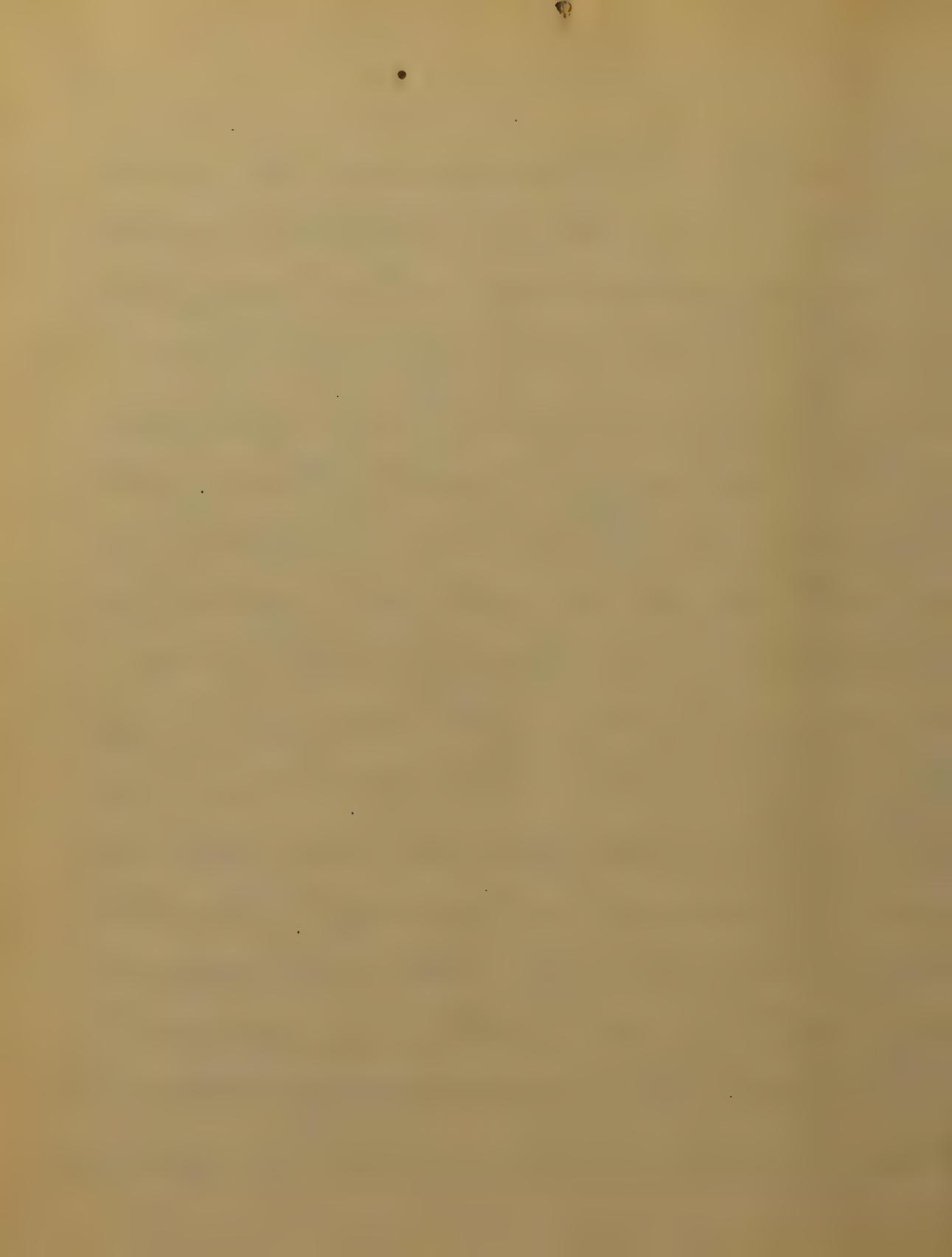
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of the liver, kidney and spleen  
is produced from arsenical  
poison, perhaps by lessening  
the amount of oxygen to that tissue.  
Paralysis of certain limb or  
more frequent palpitation.

The dust from arsenical wall  
paper, which contains a large  
amount of arsenic, have pro-  
duced a cachetic state accompanied  
by headache, vertigo. Garments  
dyed by arsenic have excited  
ulceration of hand and  
nails and anaesthesia and  
paroxysm of the extremities. In  
fact sleeping in a apartment lined with  
arsenical paper may produce poison



Therapy:- Acrenic is very beneficial in the so-called irritative dyspepsia. Best adapted by the following symptoms: red, <sup>tongue</sup> poor appetite, distress after meals, and pain; two drops of Fowlers Solution with a few drops of Laudanum. It is very beneficial in some forms of vomiting of pregnant. In vomiting of chronic gastric catarrh and chronic ulcer of the stomach, cancer of the stomach by relieving the morbid state of the mucous membrane on which the vomiting depends.

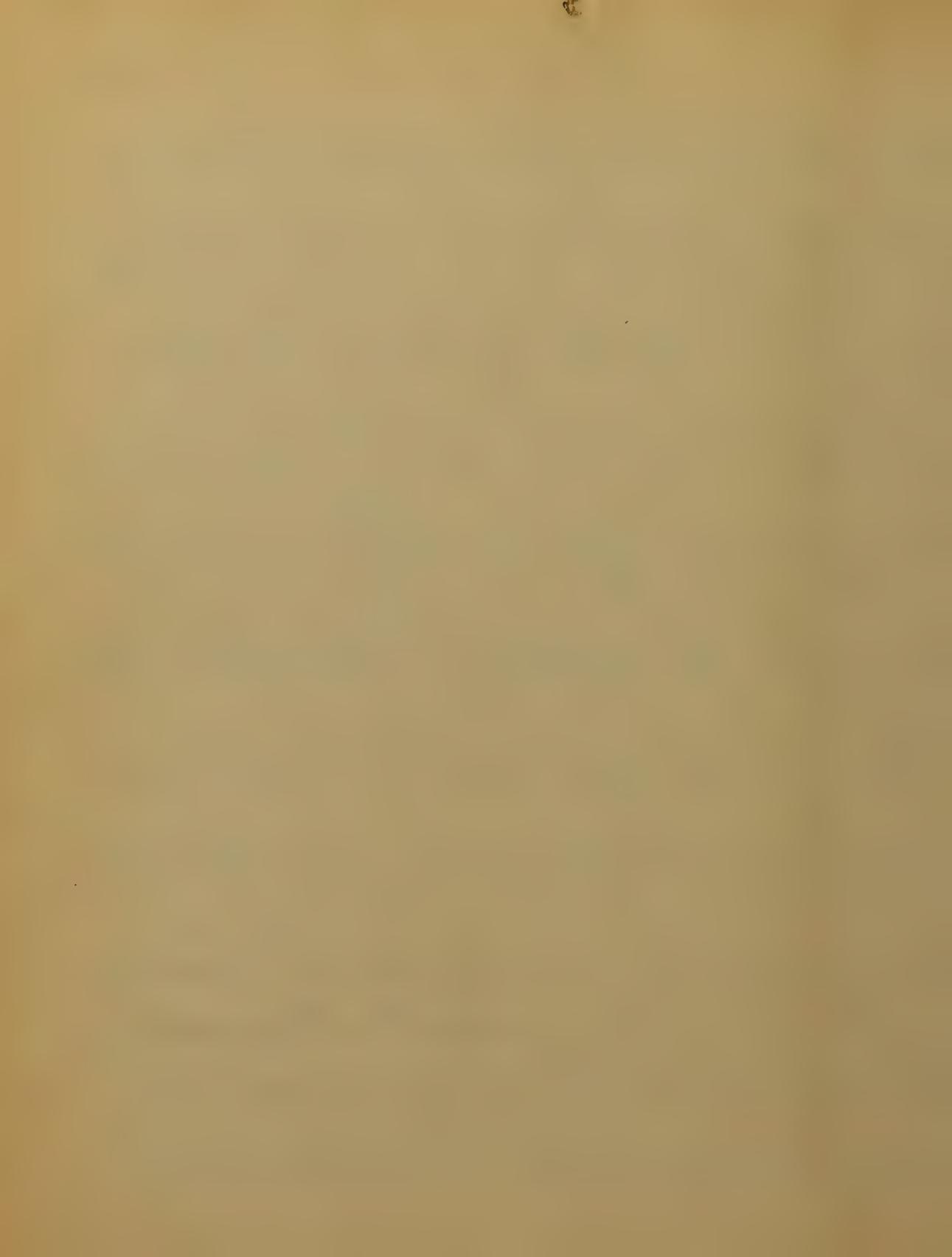


In all states of stomach disorders only small doses of arsenic is required. Large doses by creating an irritant of the gastric mucous membrane will only defeat the end in view. Jaundice due to catarrh of the bile duct, succeeded to catarrh of the duodenum. It is better <sup>admit</sup> jaundice depending upon malaria origin. Constipation due to deficient secretion dry faces is overcome by small doses of Fowler's solution. In chlorosis and anaemia where iron does not agree, arsenic with iron more efficient.



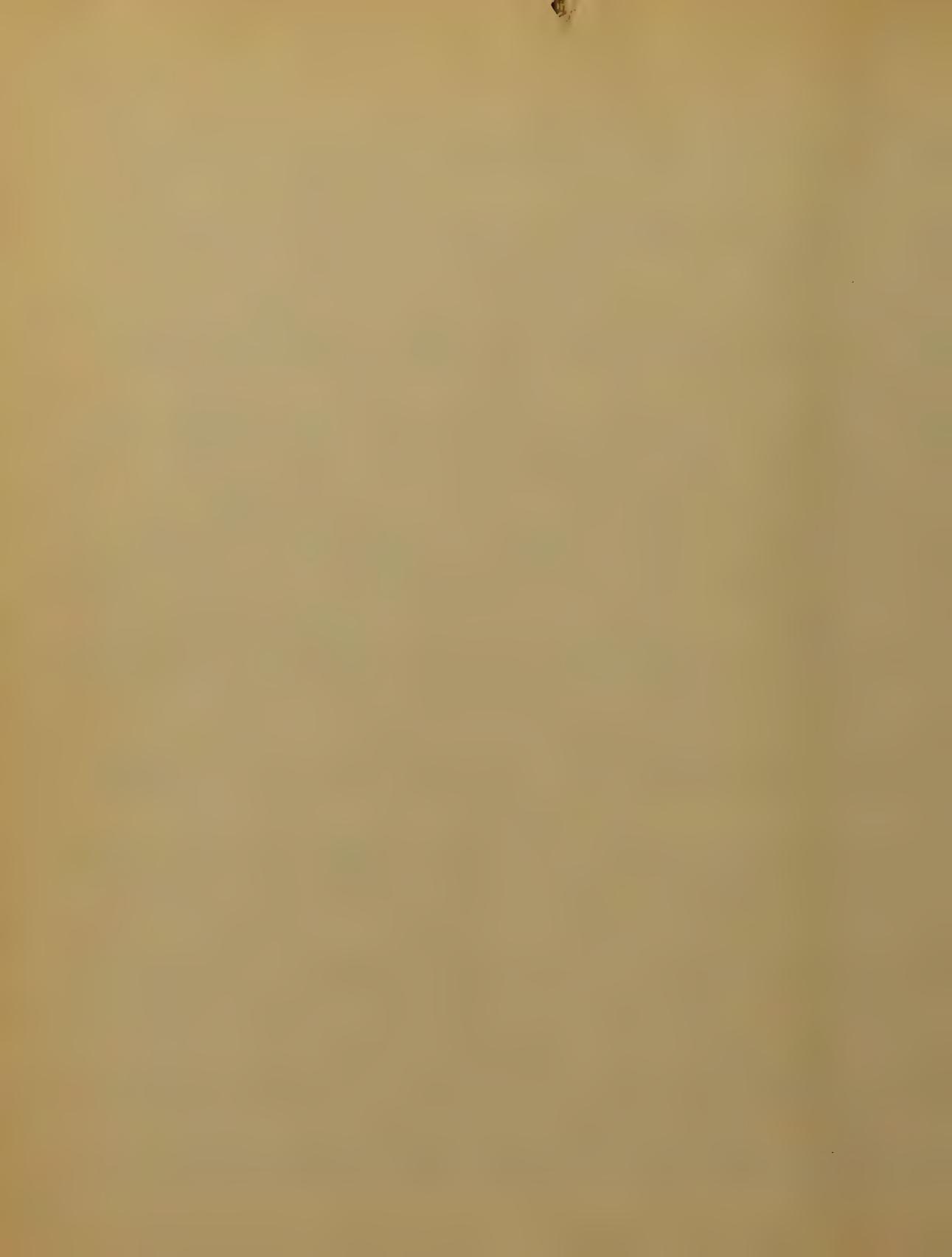
Troubles of the broncho-pulmonary  
respiratory membrane such as can  
occur chronic forms of phthisis  
is much benefited by long  
continued use of small doses of  
arsenic. In cases of hay asthma  
ma chamaelie, asthmatic chronic  
bronchitis, emphysema, these  
may be treated with advantage  
by the use of fumigation.

Formula and mode: A ounce  
of potassa fifteen grains dissolved  
water one ounce. Take sufficient  
quantity of white paper and thor-  
oughly moisten with this solution  
of arsenic, dry out up into  
fine pieces and divide into



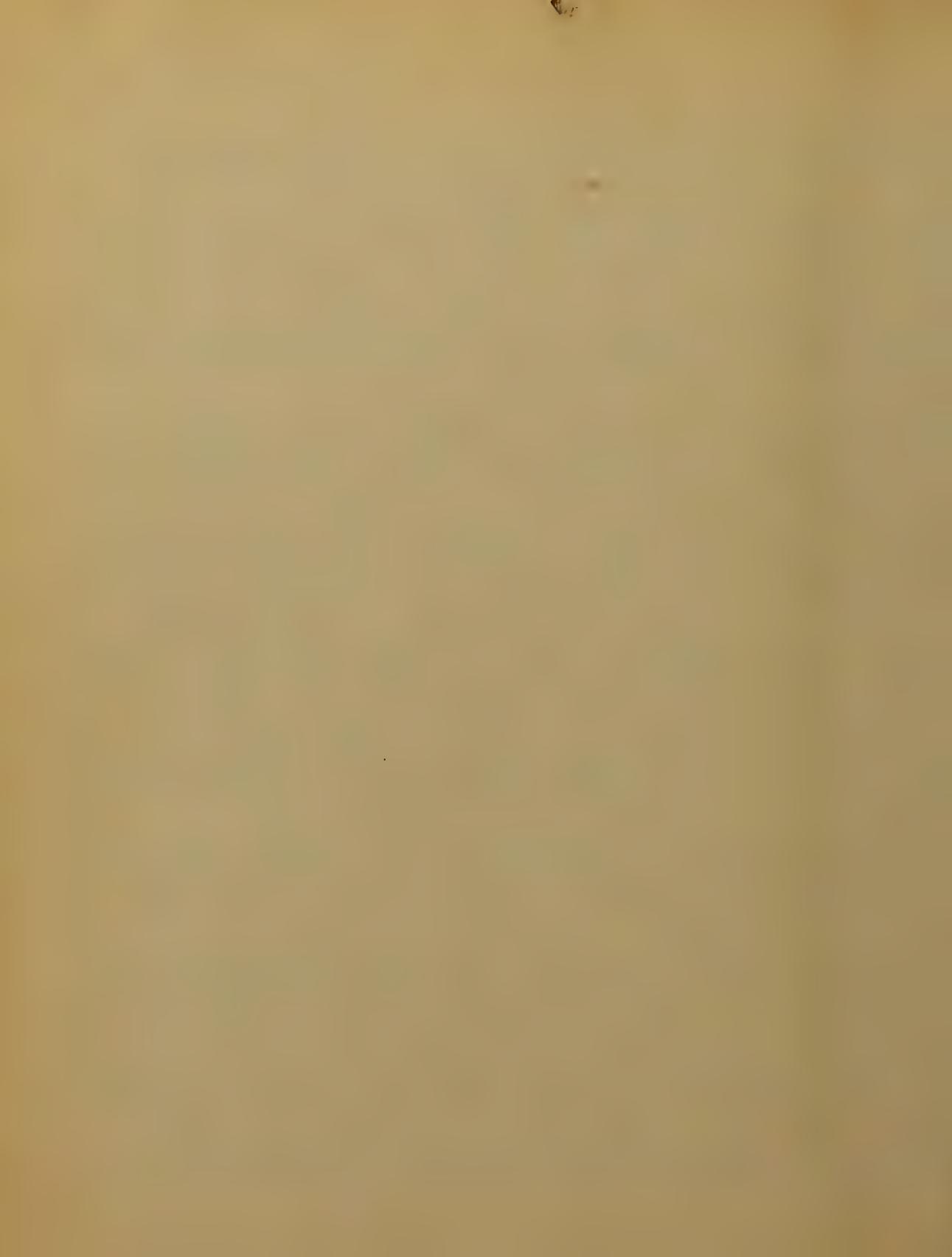
twenty equals parts, and put one  
of these parts on a plate and set  
it on fire and the patient in-  
hale the fume with a blanket  
over his head. This may be prac-  
ticed 3 or 4 times a day.

Attackers of angina pectoris  
may be lessened or prevented  
by persistent use of large doses  
of Fowler's solution.  
This said to be good in cerebral  
congestion, melancholy of the age,  
neuralgia, epilepsy, formicatio  
It is highly recommended in  
chorea. Large doses are recurred  
to to fifteen drops three times  
a day. Local action but meet it.

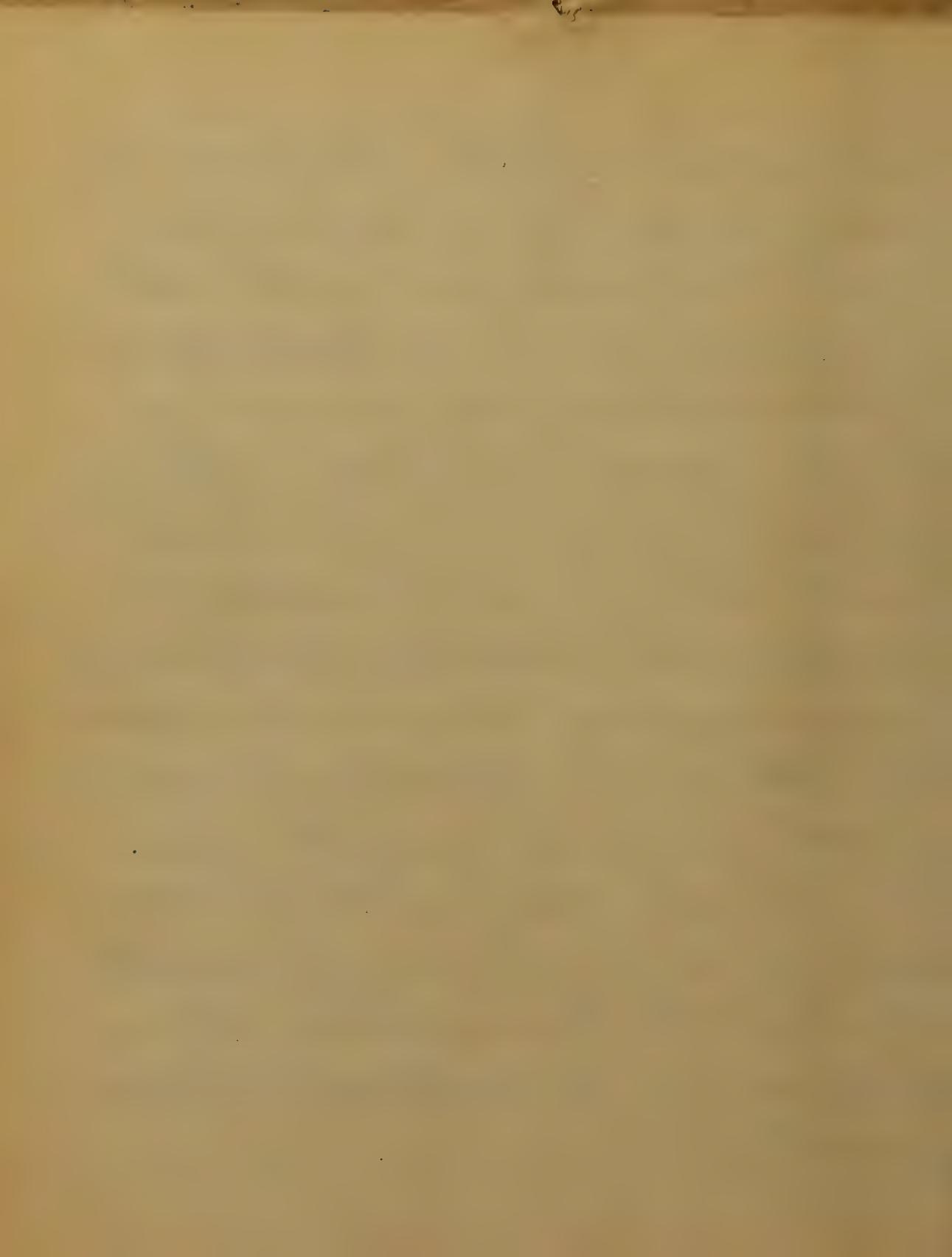


Twitching of the eye lids and  
paralysis of the third nerve, known  
as ptosis. Three drops of turpentine  
solution before meals three times  
a day. In many forms of  
skin affection, more especially  
of the scaly and chronic form.  
It should be administered for  
an indefinite length of time.

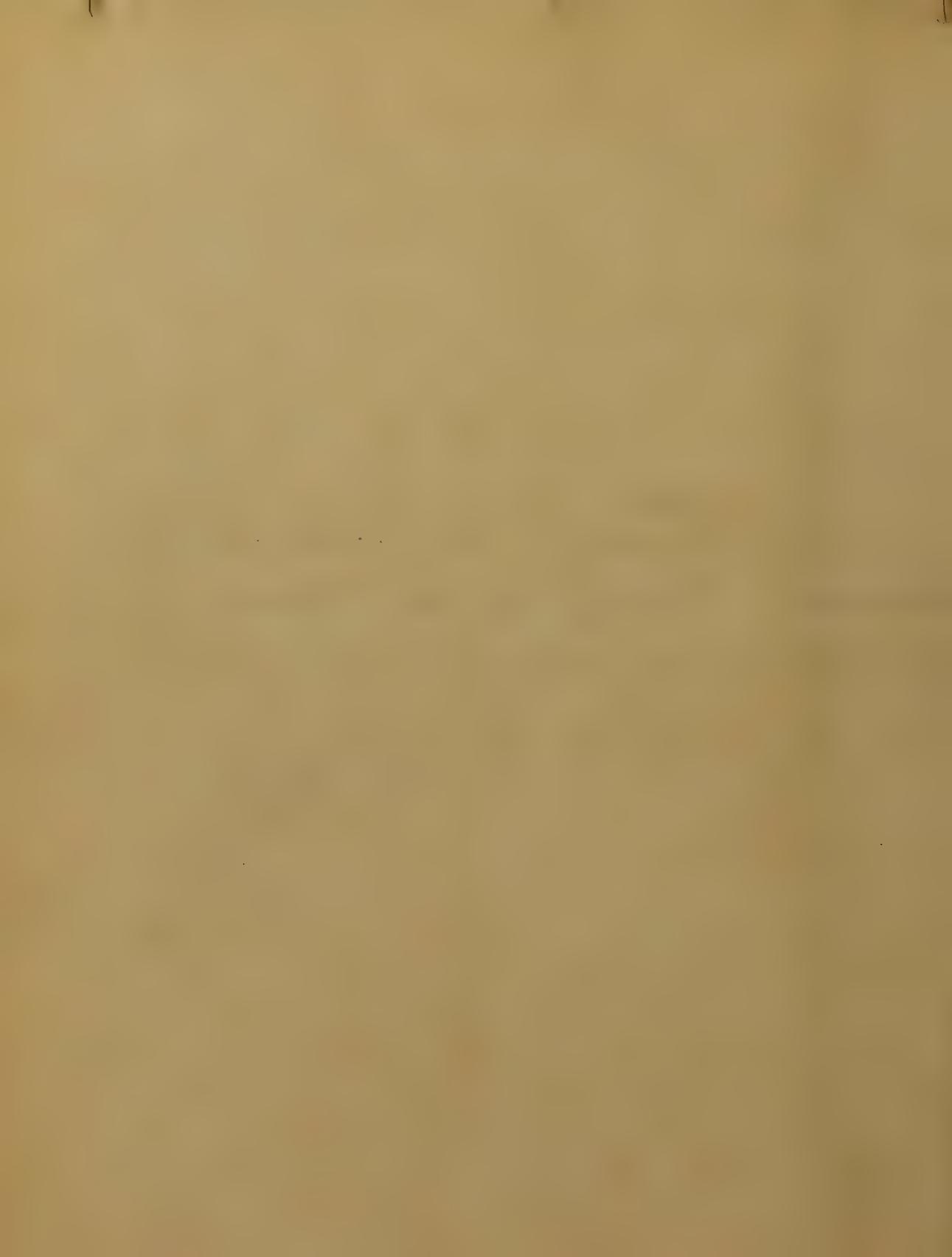
By continued use symptoms  
of hoarseness manifest themselves  
should still persist its use  
by lessening the dose & giving a  
purgative. Arsenic and quinin  
has an important position in  
the treatment of malaria brumum  
Good in diminishing the



enlargement of the spleen caused by malarialia. In these forms it is best used in combination of arsenic, quinine and iron. Anemorrhobia and menorrhagia due to anaemia arsenic with iron is the best form for these troubles. Functional impotence is sometimes greatly benefited by arsenic. Arsenious acid two parts sulphur morphine one part and sufficient creosote to make a paste is good in toothache applied to the carious part of the tooth in cotton saturated with this solution. It is also used to destroy cancerous growths.



Phiz — Dedicated to the  
Honorable Faculty of the University  
of Maryland by  
R. J. Anderson,  
Baltimore, Md.  
1886



## Influenza - fever

Examination Malaria fever are characterized by this name and in certain regions of the world known to produce the Disease malaria by themselves individually and by their regular succession of the cold and hot and sweating stage various designations have been applied to these forms of fever such as Typhus and ague, Chills fevers etc or remittent fevers Cancer.

The great etiological factor is Malaria the tertianic and other conditions favorable to the development of malaria exist largely in the country along the Atlantic sea board as far north as Boston in New England and south of the interior range bounded by the Mississippi and its tributaries the salinity of the vapors in the western hemisphere in the atmosphere and likewise principles which are developed in certain atmosphere although the instance of such a



principle is admitted the attempts to resolve and  
define it have proven abortive until the  
recent discovery of Lepe and Fourmaziénnelli  
of the rod mummy from the Batillus Malorii  
which they have discovered floating in the atmosphere  
of the Pontine marshes. Producere to you  
of Intermittent fever in the animal subjected to  
the action of circulation. If this discovery  
is confirmed and these rod like rods  
are proved to be the cause of those fevers  
which we call Malariae fever. It will prove to  
be the first and most laborious step towards  
general eradication disease. Malaria is also  
called Marsh Malaria because of the abundance of  
this fever about marshes but all marshes  
free from marsh miasms although well adapted  
to do it marshes that are really brackish or



worse than those entirely free in country.  
Malaria is more produced the sandy alluvium  
of the River valleys. subject to annual overflow  
and heat by the summer sun the alluvium  
and some very early soils of Malaria, are  
not subject to water also generate Malaria  
when Malaria infections occur or established in the  
system all diseases occurring will have more  
or less of the periodical character the forms  
of Malaria disease will depend upon the  
conditions of the system and the vicinity of  
the River itself.

#### Pathological Anatomy.

Changes caused by Malaria generally are exactly  
the same except degree in all the forms, in  
which the disease manifest itself in two organs  
the Liver and Spleen becomes very



much enlarged chiefly consumed in acute cases the splenic pulp increases in relative quantity and sometimes there are debts which have been observed in some cases of brucous fever in some chronic cases the spleen undergoes enormous enlargement its texture is looser and smoother in dections and has a grayish slate color this change consists Hyperplasia of the trabecular with hypertrophy of the capsule but in some cases the increased size of the organ is due to amyloid degeneration when the organ is very large it is known as a glue cake usually in Chronic Malaria during the spleen is somewhat enlarged but not much increased to be called an organ like the change consisting of diminution of the splenic pulp and hypertrophy of the trabecular and capsule the color of the spleen - a grayish



Slate-color due to pigment deposits which are found in great abundance in the walls of the blood vessels when it is described by disintegration of the red globules. An important change takes place in liver during tertian fevers. It becomes typhemic and swollen and if haematin is present very much enlarged and stained with pigment and the portal capillaries distended with blood and the gall bladder filled with thick black tarry Brown bile in chronic cases the liver has a grayish tint due to pigment deposit along the vessels. It is firm in texture and the divided parts preserve sharp outlines, the hepatic cells are pale and filled with fat granules. The pathological canal presents characteristic changes during an acute attack there is extreme and considerable hyperemia of muscle membrane and more or less



thickening and elevation of the solitary gland.  
in Chronic cases the intestinal mucus membrane has  
a slate color due to pigmentation of the capillaries the  
Kidneys are also affected by characteristic changes  
Hyperemia during the acute attack. and subsequent  
atrophy as thickening membrane the tubules filled  
cast-off epithelium the intestinal connective tissue  
proliferating and is more or less amyloid changed in the  
Malpighian tufts and small arteries the heart is often  
its muscular fibers easily torn the cavities are distended and  
soft-black coagula very cover the white corpora are much  
increased in number the most important change in the  
composition of the blood is the formation of pigment from  
Hemoglobin the hamatus is set-free  
symptoms

a certain period elapses after exposure before there  
are any disturbance in the function of the heart



Varies from a few hours to many weeks  
the average is nearly fourteen days in long.  
In portion of cases the patient has a feeling of lassitude  
and weariness super with backache and general muscular  
soreness he has an inclination to shiver on cold damp  
days his headache tongue coated stomach & gnamous  
towards evening his skin becomes dry & warm his  
sleep is disturbed by dreams and in the morning  
there are profuse sweating there is a yellow hue  
to the skin languor loss of appetite and constipation  
the urine is loaded with bilious pigment & sometimes  
turns a green & yellow there are three distinct events  
in every Progression of Malaria fever - the chill & the fever  
and the sweating when the chill comes on there is a  
feeling of Peculiar weakness & illness there is Head-  
ache Backache Creeping chill - felt along the back  
the whole surface becomes cold and the patient



gladly a return to Bed does not make any  
difference how much cloathing is put on the  
bed the fingers becomes blue his lip blue the nose  
Pinched the countenance becomes one jet after another  
shuddering comes on the teeth rattle together the  
bed shaker meanwhile the pain in the back head & limb  
continues there is extreme thirst and often  
nausea & vomiting perspiration is quick voice is weak  
trembling pulse small rapid the voice is falter when  
begins to rise with onset of the chill the thermometer  
indicates over the chills remain for several hours  
the chills do not attain abrupt they shake  
extremely so the failing of warmth often the  
face becomes flushed Pulse becomes fuller blueness of  
the skin deeper and a throbbing is felt in the  
head and pain in the back and limbs deepen a pain  
felt in the temples the ideas are confused the patient



Tempted to get up. There is noise in the ears  
Vertigo and nausea are experienced in attempting  
to get up. the mouth is dry Thirst-Congestion  
high color scanty urine Duration of the stages  
varies from an hour to <sup>One</sup> or <sup>Two</sup> hours and ends  
by the third sweating stage, while the liver is  
experiencing a slight inflammation occurs on the for-  
head, frequently it becomes so droops and freely  
pours off sweating the sweat starts the sweat is  
an acid in reaction contains a large quantity  
of organic matter the urine is also acid and  
high colored owing to the organic and contains  
much ureic acid the disease may begin abruptly  
when the patient is in full health or during the  
intercalal state or in the course of chronic  
Habhalic Poisoning  
Intercalal Disease - Stage and Liver



There are three distinct events in every case of Intermittent fever. The chills, the fever & the sweating when the chills come on there is a feeling of Restlessness  
**Course & Duration Termination**

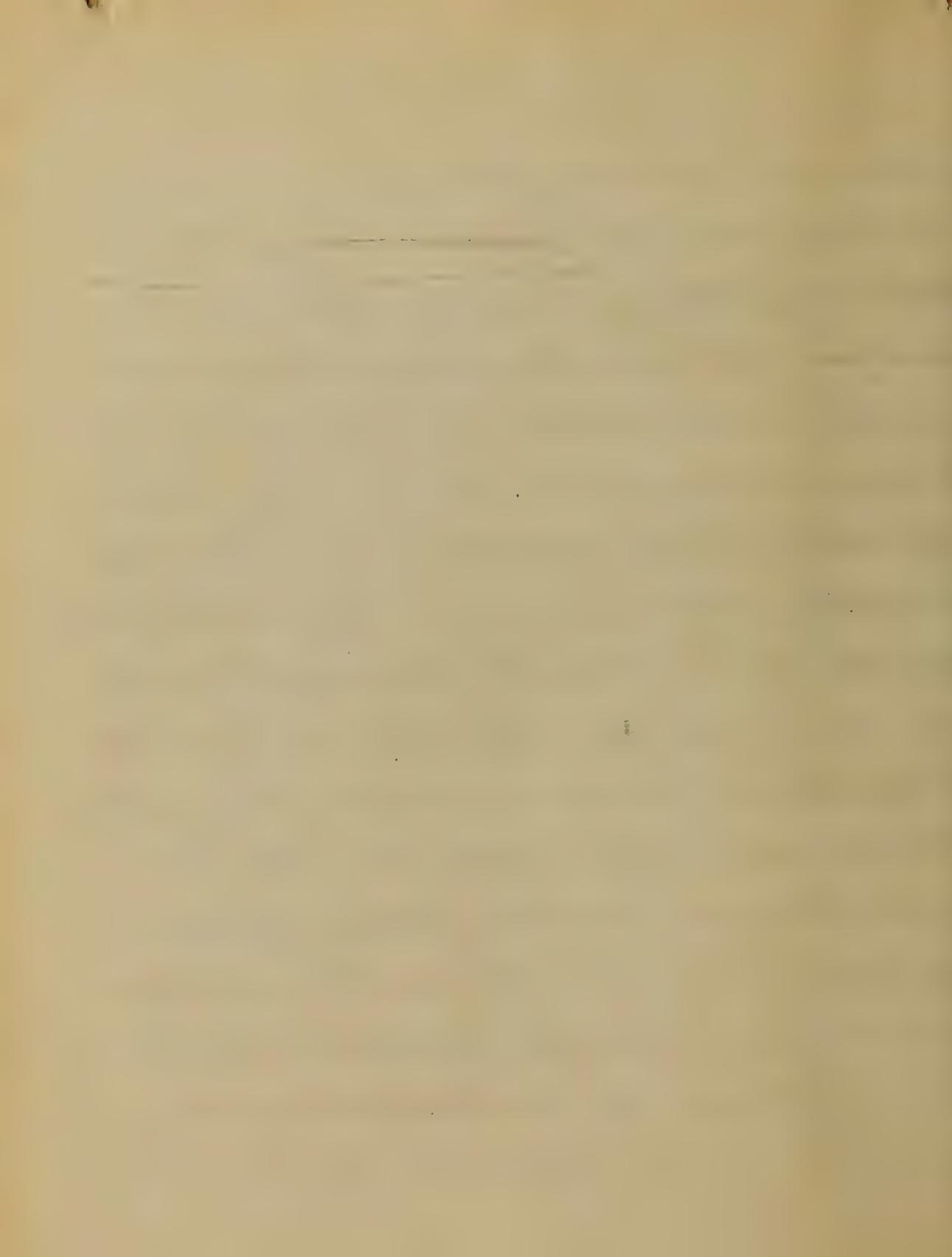
After certain intervals which is different in several types and there are again presented a chill fever and sweating Intermittent fever follows a short periodically the variety of fever is known as Quotidian Intermittent they do occur on alternate days or the third day including these attacks there is still another variety it is called Quartan Intermittent this last variety is uncommon. Sometimes two distinct Proxysm may occur on the same day the Fifth tertian it is a variety in which there are two distinct Proxysms on one day and one Proxysm on the next and finally an



after days without fever disease comes  
with the disease or Malady. Disease in man  
thoroughly occurred the deposition to attack continue  
for a long time or Period for years exposed to cold  
Diet talique attack anxiety may end an new attack  
It is rare for Intermittent Fever to cause death directly  
but indirectly through various alterations owing  
in Malaria. Besides the course of Malaria is much  
diversified by the variation, a great variety  
of viscous mucus, thickening, and raise of impurities  
there is an attack of Sporota when dialema occurs  
it may be Intermittent or Remittent sometimes accompanied  
with Alonie & bears not very frequently the attack  
occurs in cardiac nervous trouble producing a phenomena  
of Augment Retrae. This some of great difficulty  
in treating a slow ward under cold skin like  
life & fingers ending with great excretions of



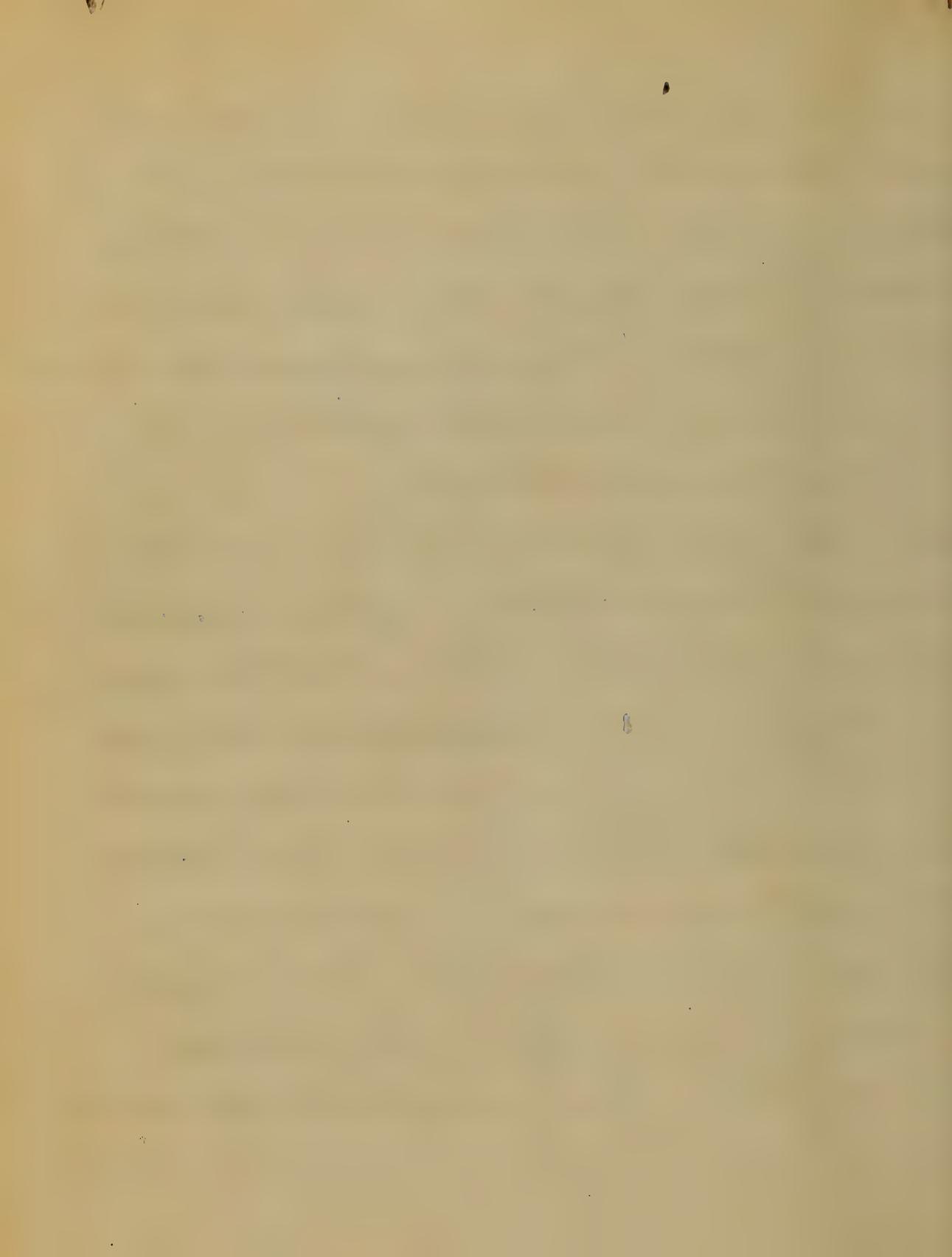
a discharged quantity of pale urine  
which is intermittent in those parts of United  
States where Malaria is most concentrated and  
natural fever most severe the ordinary Intermittent may  
assume a most favorable character it is probably  
known as Convalescence. That an attack of Intermittent  
will assume a previous character denotes the condition  
of convalescence induced by a severe attack Malaria Mortis and  
may render the patient dangerous. It has been observed  
of sweating to be not often that the first attack proves fatal  
but they are being more and more dangerous and often  
the first may succeed may be fatal induced from  
the stiffness in the head which is an indication  
feverish comes on rather in the form of the sweating stage  
while Intermittent heat is experienced by the patient  
the surface becomes cold livid & pale small and very  
rapid action of the heart becomes feeble the skin



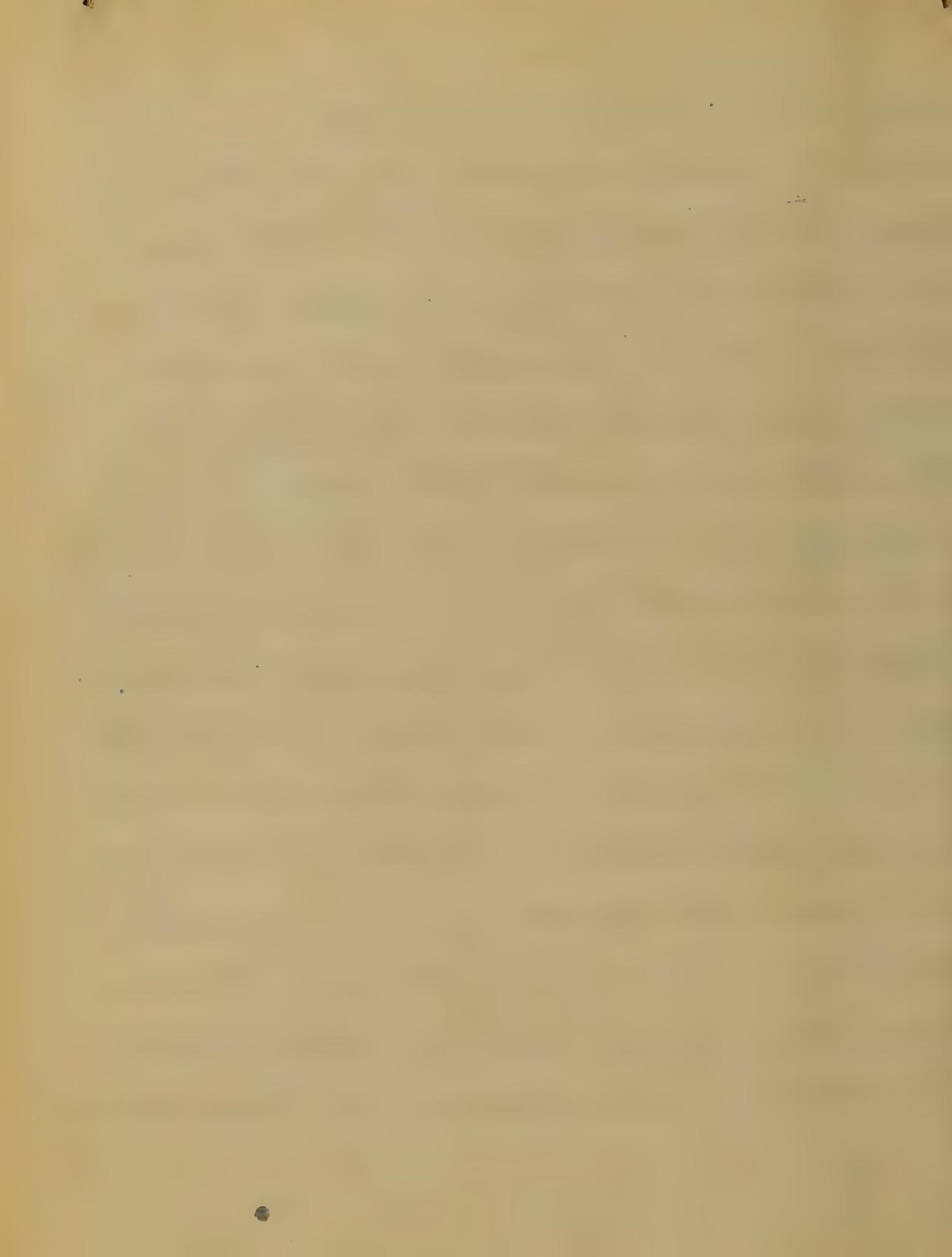
covered with a cold sticky sweat but the patient  
unconscious, if death occurs the condition of the  
coldness disappears but after a longer or shorter  
duration of the agony the action of the heart  
grows a little stronger and gradually becomes  
warmer until it reaches the surface

### Symptoms of Intermittent Fever

Thus the attacks of Intermittent fever have been  
described. Treatment & perhaps a gift to occur in  
fact of the Treatment & removal of fever may  
have been removed in close connection with them  
and still occurring in regular Systole and  
diastole the Thermometer may show elevation  
of Temperature there may be sudorific sweat or  
profuse Urinary discharge may occur after  
a determination of the fever when  
occurs the Profuse from the seventh & fourth and



Only first day there is more need of the  
birds will occur on the first day at the first  
former attack. This will take place on the third  
six & ninth and twelfth day and soon the maximum  
of the loss is definite upon the age it is most  
greater under twenty and very slight after  
six weeks or six months. The tendency of this  
is due to the conditions which determined the first  
seen on the result of long continued action  
of the disease. While the most disastrous the short  
losses. It Red gathers while the white diminishes  
in size and increases in number. the Ankle  
becomes swollen the liver & spleen enlarged. the  
skin is yellow the appetite is poor the digestion  
feels the stools are a clay color and the urine  
may contain albumen and is colored with the  
pigment fluid accumulated in the lymphatic vessels



Dysintoxication & disturbance in the  
Intracranial circulation such as headache  
Vertigo Sojor

### Prognosis

Ordinary dyspepsia Intermittent fevers or sojourns  
is not a grave affection whenever the disease  
undergoes medical danger it is to be considered  
as Pernicious and not belonging under the  
head of ordinary or dyspepsia Intermittent  
Fever an important fact - Intermittent Fever at first devoided  
of medical danger may become Pernicious an ordinary  
or dyspepsia intermittent may become very serious  
if continued long, or more frequently by Medicinal  
means general prostration or Malaise either the effect of  
time however they are very rarely themselves  
fatal death may result from from association of intermittent  
fever with other affections it is not a small matter to



## Diagnosis

A case of Intermittent Fever complete at all points could hardly be confounded with any other - Malaria or Malady it may be mistaken for Typhus in which they are similar. Sudden with an interval it differs from Typhus in its organic and in Clinical Course. Intermittent is due to sufficient serum Pyrexia to excite suppuration of lungs & Intermittent is regular in course. Intermittent begins often times insensibly. Cured by serum Typhus is a fatal disease overtake - time has no other influence it ought to be remembered that Typhus has occurred at time when the regular. Proxysus is due and that probably a strong maleral influence from the concave variety - often produced by



Descriptions of the Dead and a various form  
 over the great veins occurring a watery state  
 of Blood. and for the same reason Ocularis  
 take place when becomes produced the changes  
 that takes place in the Blood are due to  
 various causes to the difference by the  
 Stomach & Intestinal trouble with primary  
 assimilation to the mortid state of the Blood  
 making organs especially to the destruction of the Spleen  
 of the Red Blood globules and to the  
 conversion of Hematin into pigment -  
 which we have shown to take place in various  
 causes among all other hepatico anaplast  
 degeneration of the Liver Kidney Spleen  
 and Intestinal glands Diseases of the Liver  
 anaemia & profus Tuberculous Malaria  
 Epilepsy Stimulus & Convulsions



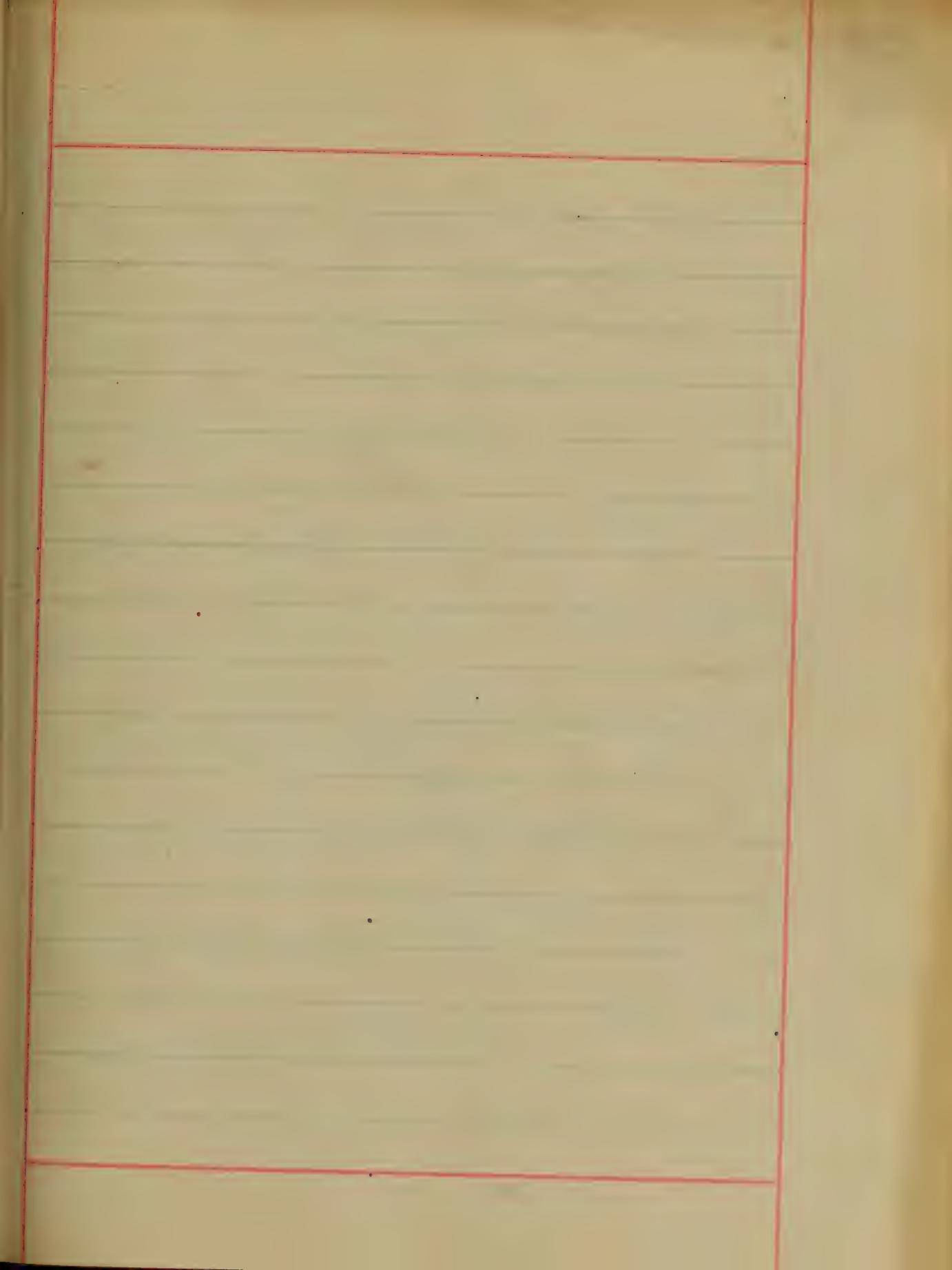
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Contract - Intermittent fever on account of  
liability to relapse, and w<sup>th</sup> account of diseases with  
other affections

### Treatment

For the cure of Intermittent Fever Medicines  
Posse Specific in any variety are  
intended to this affection this material is  
Salts of Lime of which Sulphate is one  
universally used Sulphur will promptly interrupt  
the recurrence of Paroxysms of Intermittent Fever  
in most majority it is always durable to meet the  
disease as speedily as possible the Preparation of Ginchoria  
and other anti Powders and good intermittent  
remedies is maximum force.







Purple Pewter

Ed. K. Howard,  
Somerville,  
Mass.  
1880



## "Puerperal Fever."

Puerperal fever is a malignant  
but disease peculiar to the  
puerperal state, and it may  
affecting either in the early  
part of gestation. It is but  
contagious and infectious, and  
and occurs especially in op-  
erations. According to me  
it is often known by many  
as to be infectious, and in  
these conditions I must pre-  
dict a great part of the time.  
A common and that giving  
the mother either a



general opinion is, since it is  
a disease the only way to  
cure it is by the use  
of opium, or some other  
medicine which has  
been found good in  
Philippines and India, and  
in China. I think  
the use of opium  
is good for the cure,  
but you may not  
have heard of it before  
occurring in New York City.  
According to statistics, the proportion  
of deaths from the disease to the  
number of births, in the city  
between 1855 and 1870, was 1 to 100.  
The disease is very violent, however,



to which all living organisms belong,  
and some such descriptive names have  
been given to the species.

**Pathological changes.** The pathological  
anatomy of the foot affects the  
classifications of sprains and  
fractures.

First, the simple sprain or  
tendonitis - tendinitis - tenosynovitis.  
Secondly, swelling of the skin, lymph  
angitis, lichen, and chronic ulceration  
of the skin.

Third, the remaining forms of disease  
affecting the skin and its appendages.  
Pediculosis and different types of  
the Malacaria, the various forms of  
itch, furunculosis, ecthyma, etc.



*provenia.*

5<sup>th</sup> June - *Bryonia* - *laciniosa*  
The first year is of two winter,  
Cult. below a profuse at Hoadley,  
The collector is the same plant  
and frequent in California.  
This year a small tuberous  
it is the same species as  
the one of the following year;  
The life of the plant is  
one year, and it is  
perennial; and it  
by the time it comes to  
profusely  
In the third year the  
and fruit is very large.



and the first portion  
of the speech. The  
first portion is the  
best, while the second  
and third are quite  
good, and in addition  
they are the shortest.  
They consist of the  
titles of the chapters  
and the first sentence  
of each chapter, which  
is repeated at the  
end of each chapter.  
The first portion  
is the best, while the  
second and third are  
quite good, and in addition  
they are the shortest.



impossible living as we do. Then all  
occurred as we might have expected  
time of the day, to my great  
surprise and pleasure, I am  
sure of the first division, this was  
followed by another in the same  
order, for I like nothing better than  
the former will be indefinitely  
by some infiltration of foreign  
frogs, always being present at  
greatest part of the night in  
enlarged skin blisters, my  
opinion of the species is not  
certain, but it is hard for  
me to believe it may not be the  
same species as with which I  
have had the pleasure to study.



is first characterized by a narrow,  
the glaucomatous being of a wider  
pupil; and it may be pallidus.  
This coloring of skin is called  
the "yellow complexion"; though  
it is called "red" of itself by others.  
The coloration is due to the  
skin's becoming heated, and  
more lividly red when it is  
exposed to the sun; or when  
it is exposed to the fire. This is  
regularly found in the skin  
of the body, with the exception  
of the head, which is covered  
with hair, though the skin  
of the face, neck, and hands is



the most important thing, and  
indeed the most important  
feature of the system is the  
possibility of finding  
out what is true and what is  
false in any given  
statement. This is done  
by means of a process  
of inference which  
starts from a set of  
assumptions or premises  
and leads to a conclusion  
which is either true or  
false. This process  
is called deductive  
inference, and it is  
based on the principle  
that if a statement  
is true, then all its  
consequences must  
also be true. This  
means that if we  
have a set of true  
statements, then any  
statement that can be  
derived from them  
must also be true.  
This is the basic idea  
of deductive inference,  
and it is the key to  
the power of logic.



the day. This is a good  
opportunity for the first  
of the day's work.  
But the day is up  
before the sun is up  
or 60 minutes ago.  
If the attack comes on a further  
after the first attack it is probably  
in two places before the day is over.  
A small ship after the  
first attack by the day  
is probably under way.  
They are not attacked after  
the first day. The following points  
are not yet known from the  
innermost point of the coast to  
the sea by a surveying of  
the Suez; situated in







In *Endocarpidium* the vegetative bud  
is still more pronounced,  
occurring in leaf axils & under-  
neath; evidence of its being  
either the main or auxiliary  
bud. The fruit is very  
variable in form, it is often  
marked by small raised  
knobbed tubercles, especially  
near the base, and in some  
cases 4 or 5". In others, as  
of the time they are ripe, the  
fruit is smooth. When  
ripe it is very brittle, the  
rind easily and readily  
peeling off in segments.  
The pulp is sweet, juicy &



surrounded by a hill or group  
of mountains, rise up suddenly  
in height, and, though  
not very numerous,  
are found just now and then  
to give it elevation and  
depth, though gradually.  
The ridge of the mountain  
is very broad, bounded on the  
right by a deep ravine, and  
on the left by a steep, rocky  
bank, rising in a series of  
steep, rocky steps, so that  
the ridge is divided into  
several ridges, the highest  
of which is the one on which



shorter than the prima - attack.  
In circumscribed inflammation  
the pulse may exceed 120 beats per  
minute, if it reaches 140 per min-  
ute, severe septic complications  
exist. In the first stage in of the  
fever, there may be a pulse of 50 or  
70 per minute, with a temperature  
of  $104^{\circ}$  F. Other symptoms are  
headache, vertigo, nausea  
or vomiting following stroke of pain,  
loss of appetite, rise of  
temperature, irritability, loss of  
consciousness. Most cases terminate  
in five or six days with convalescence.



gradually subsiding. If the fever continues long it becomes dry, there will be a fluctuating, the exudate forming a tumor, which is less convex than a fibroid tumor; however, one which increases in size, but is always soft. The ulcer then becomes the granulation. It is here the exudate gradually disappears, apical up the body, leaving off the fibrous coats of granulation, the skin is likely to appear healthy.

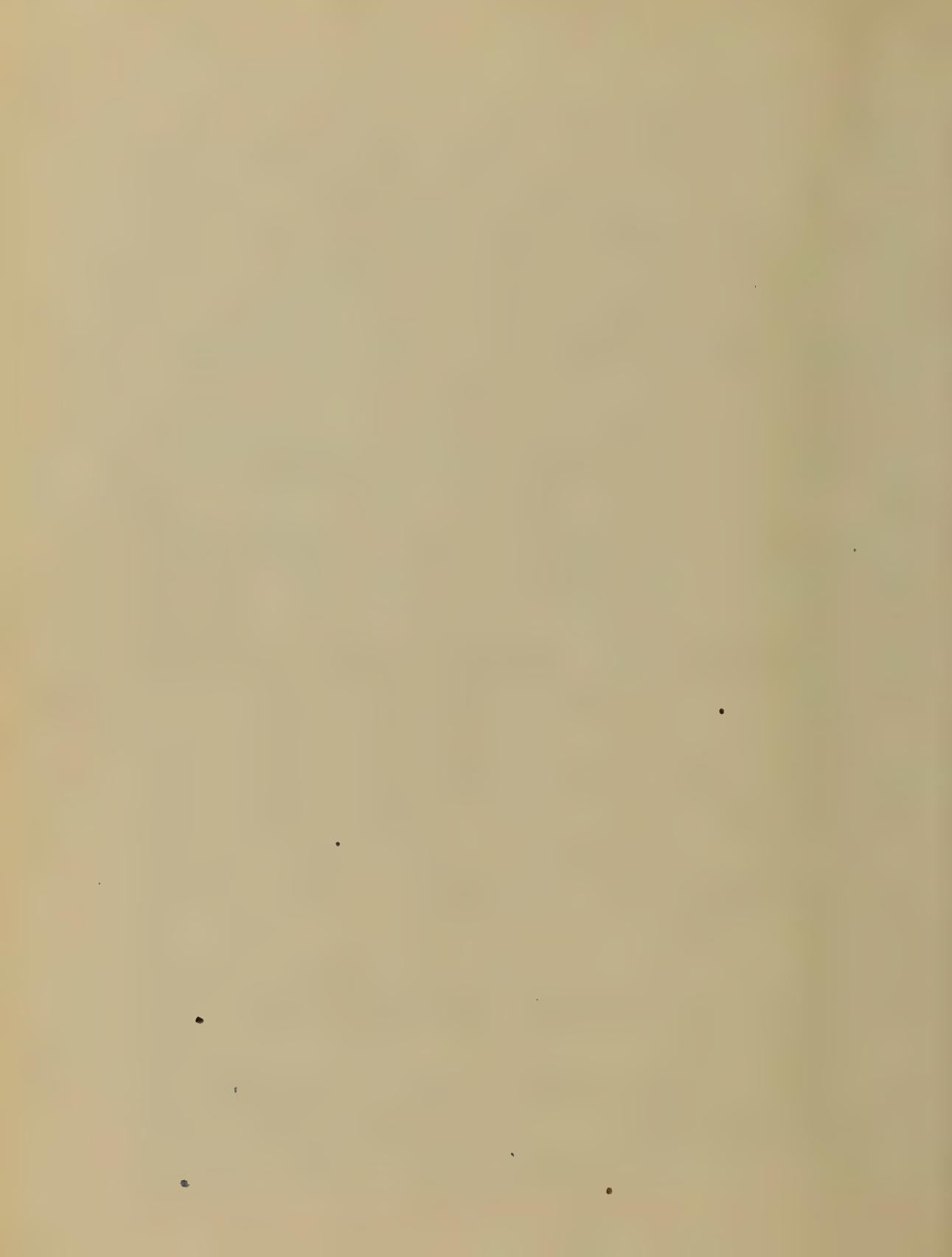
Diphtheria is usually associated with an increase while the temperature is high, often with a pulse in small beats,



and evidently applying to  
say to 100 or 60 feet of water.  
There is apparently a mode  
over the rest of the surface  
of the abdomen being of a tearing  
or incinerating character.

I conjecture from pressure  
from the banks; especially  
of a tearing character; my  
conjecture fills up the want of  
any other middle portion;  
but I can't say it is exact.  
The following is the account  
of the first part of the body.

The condition is described  
very differently and not  
wholly by me, taken up

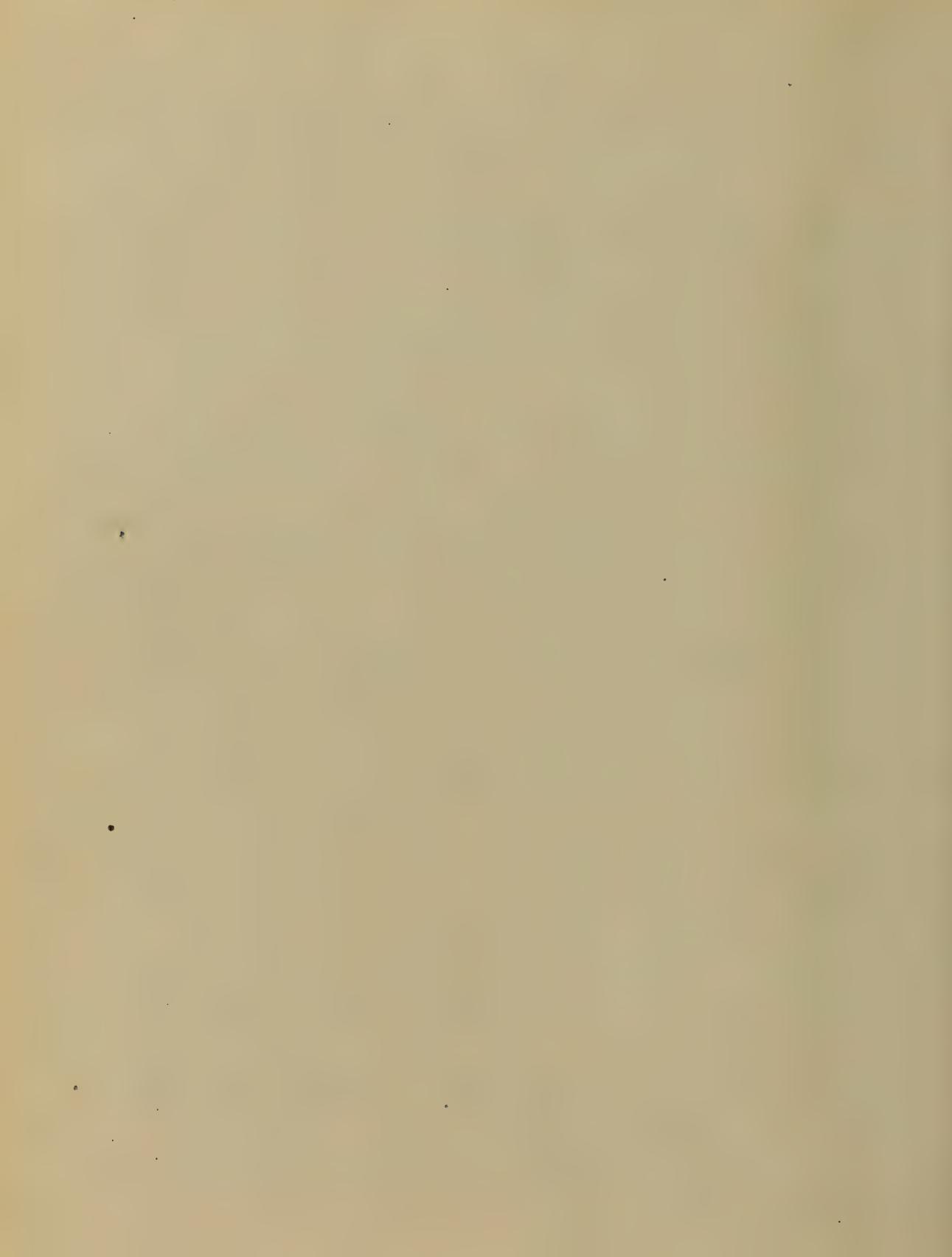


the lymphatics or by the skin.  
In this cavity I find the  
pilus is set - a part from  
that is, the hair and its  
itself are free. This  
cavity is surrounded by  
a muscle; and is not so  
high; for it is - figure  
concerning the distance of the  
muscle from the skin; about  
a mile off; and is supplied  
by a vein of blood; it  
is the skin; the  
skin being soft; and the  
superficial part of the skin  
is very soft.



Pleisio is given a completion  
of the first three figures  
as many as want to make  
or add to them from other  
designs.

The variety in which the pine  
is cut up to be used is  
indeed infinite, it may be  
long & thin, or thick &  
square or round, & it is  
comprised in pieces of all  
temperatures, this is done by  
process sufficiently  
so that the wood may be  
dry & have no smell of  
burnt wood, & the pine  
is cut so that it may  
not be watered or dried.



above the surface.

Cured:

Causes are often found in  
antigenetic infection.

By antigenetic infection is meant  
those cases in which the woman  
involves herself. She recedes  
scalding off <sup>the</sup> months of the uterine  
process, leaving her; the process  
of the child along the genital  
canal may become a source of  
infection along the track.  
If part of the placenta remains  
in the womb after the birth  
it may give birth to foetus  
by itself. It grows into a  
human being through



through the skin-wounds before  
beginning the operation. The  
pussify, and purpurul septicæ-  
mia is at first a late symptom  
and seen after the removal of  
the cast.

Heterogenic infections. - Any material  
of a septic character introduced, in-  
voluntarily, into the genito-urinary  
tract or into a glandular tissue, -  
now occurring - often a few days  
or a few weeks after the introduction  
of the septic material - may give rise to  
acute suppulsive inflammation of the  
genito-urinary organs. The inflam-  
mation may be limited to one organ  
or it may affect both kidneys and  
bladder. Epidemic bacillary dysentery  
is the most common cause of such  
inflammation.



is probably a disease  
of the brain or spinal cord.  
Plaster cast of the head  
and skull, giving a good view  
of the brain, and the spinal cord  
in its canal, and the  
cervical plexus, and the  
meninges, etc., were  
done at Dr. St. L'Esperance's  
at the Boston Dispensary. The condition  
of the spine was examined  
prior to taking the cervical  
spinal cord, the brain being  
removed earlier, and the  
spine being examined  
prior to taking the spinal  
cord.



have found it extremely hard  
to pin one particular cause  
of the affection. The first  
and most obvious cause is  
over-exposure to sunlight,  
which has undoubtedly  
caused a great deal of  
the affection. The second  
cause is the want of  
cleanliness, which  
favors the growth of  
the disease. There is  
thought to be some  
relation between the  
disease and the presence  
of certain fungi or bacteria.  
Certainly there is a  
possibility that a person  
may be exposed to a patient



cutting down vegetation, which  
they may injure while  
burning off the ground.  
The burning of the ground  
and the cutting of the  
coniferous character. The fact  
of coniferous vegetation is often noted  
occurring in prairie land,  
which stands for prairie  
regions. In such the shrub  
and the shrub being  
wounds made to the ground  
the shrub being taken  
the shrub being taken  
the shrub being taken

Some shrubs have a tendency  
to grow and that it may  
be injured through the trees



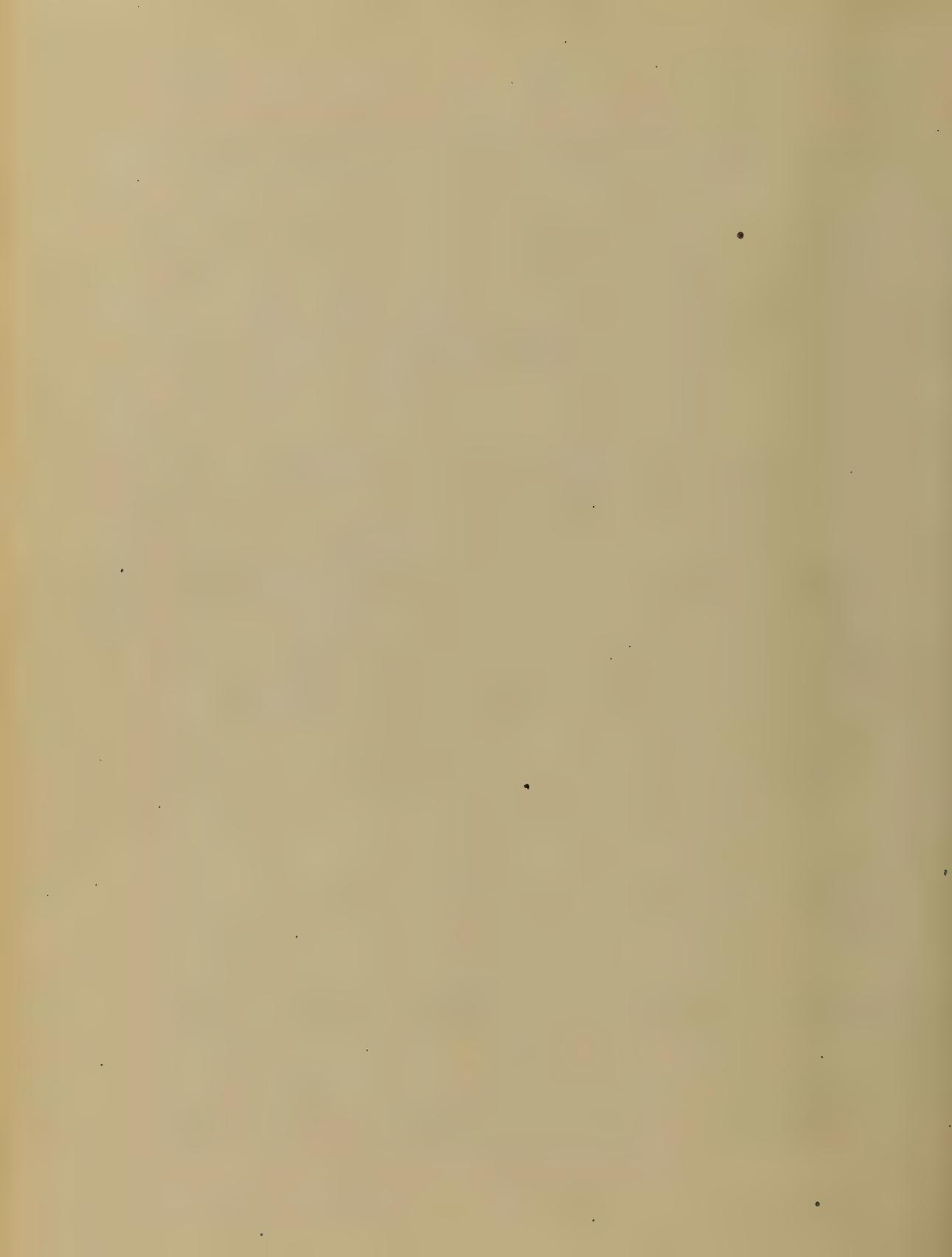
of bone and like stampeder  
lesions, are very common  
before and do not develop the  
disease. To prevent the dis-  
ease, I shall discuss an opinion.  
The cause appears to be due to  
poisonous or noxious organic  
matter which is either  
the food, little known or in  
so far a foreign product.

#### Prevention of

Volvulus recti following induction  
of prophyllaxis and  
reducing the probability of the  
formation of the disease by  
removal of all causes of the  
disease, excepting any  
accidental cause.



that of life to the  
introduction of worms. This by  
antiseptics before confinement.  
It is suggested that  
this have great advantage.  
To accomplish this, however,  
antiseptics after confinement.  
But to obviate the danger  
of suppuration and inflammation  
it is better to apply  
antiseptics to the womb which  
has been left in contact  
with the skin, so that it  
will be free from infection  
and therefore will not  
have contact with the womb.



Even if it be true that tipping  
over is one peculiarly impo-  
tent form, we cannotйт be  
stinty, and as the men are  
accused of passing, there is  
as great a call for him as  
among the sets of officers in  
his position as a captain,  
which will make his pay  
and his health. Especially  
should he be in command of  
a boat if he has a partner  
with whom good fortune  
cannot be guaranteed him  
himself and a changeable lot  
for all that he can do.  
Many instances have been



know where we act in on  
the part of the medium for  
we also in want to do so & by  
what's fear of action, if he  
should allow women in partic-  
ular while he has a son  
of frequent fancy, he does  
change his clothes and im-  
pact himself for me, then  
with other frequenting the la-  
bor of carrying the baby  
from one patient to another  
is very very great. Physician  
should avoid making too frequent  
examinations during labor.  
One should be at a distance  
of place to be kept in silence.



All instruments used should  
be rendered antiseptic. Should  
fear you a violent and hot  
light is the beginning when as  
they aid in preventing septic  
decomposition. In other words,  
the operation should follow  
this article of it being taken  
when if this is done he will  
have no fear even of per-  
forated bowel.

Treatment.—By like surgical  
extraction, the disease is an  
epicrino-infection, the possibility  
of the same being a secondary  
one must be considered. If this is the  
case, the physician may give a strong



as it is the easiest to gain  
on cervix from a fibroid.  
For many other places and con-  
ditions are apt to collect. It is  
given from the position of the  
uterus in mind. The solution shall  
not be injected into the cavity  
of the uterus unless absolutely  
certain of uterine infection  
and need of the same. In  
the position of the fundus  
and of fundo-uterine, the  
fundus should be held  
with the hand and  
the stuff injected with

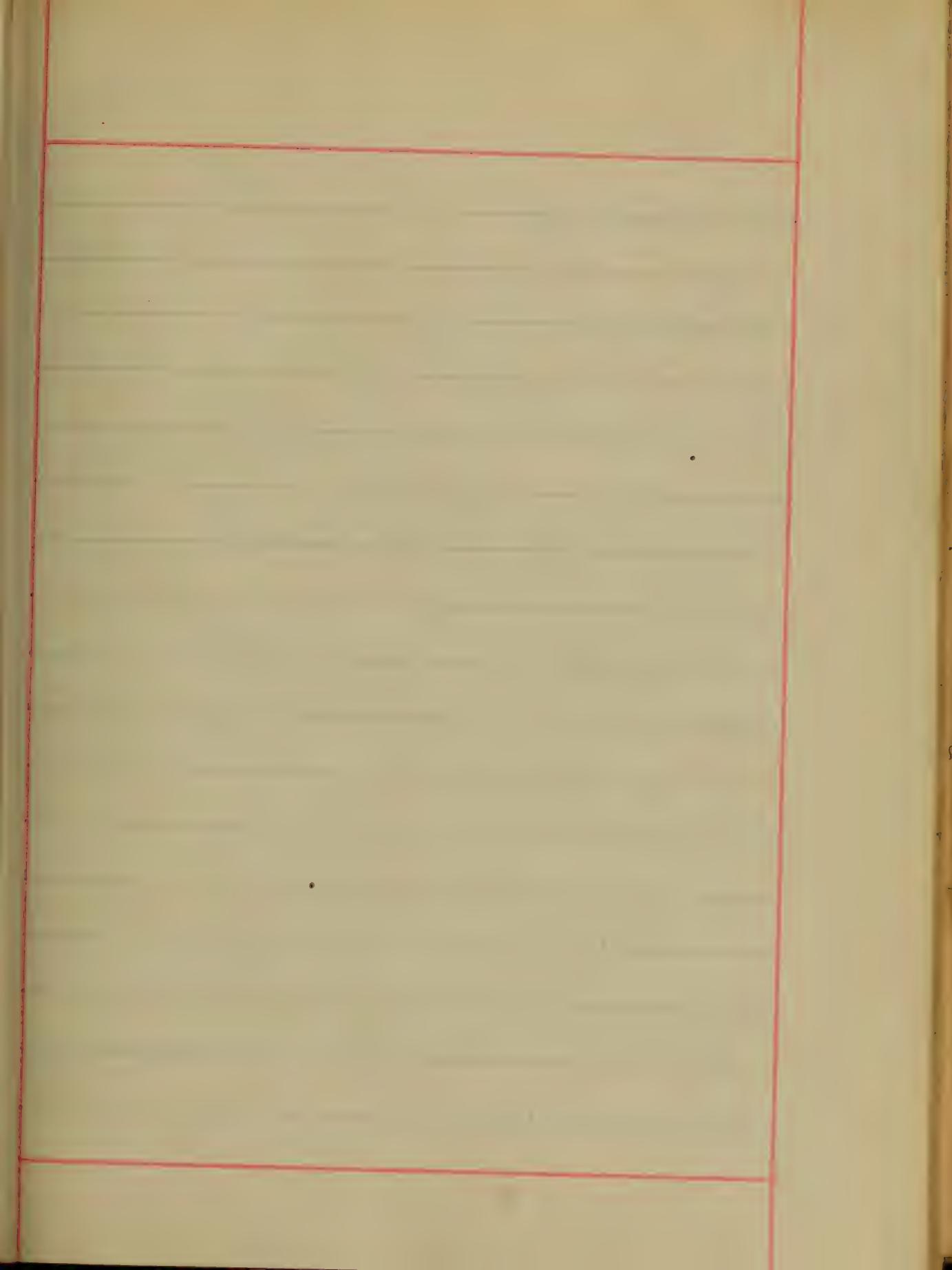


some of it will be stained.  
If this operation goes on  
with you now for about two  
or three days you will be  
sure to have a good  
action when you make your  
washings & you will be able  
to get rid of the stain  
in a very short time.  
I hope you will be  
able to do this, & if  
you have any trouble  
let me know.



ups, the patient caught,  
and will remain here, and  
be given in a few days.  
As soon as the digestion  
of the patient gets stronger,  
she will come down to us.  
Please send us the bill so  
we may pay it off at once,  
as we have no money for  
the family of patients, —  
and we are going to do all  
the patients. Please to have  
nothing to pay till we are in  
the country.







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Professors & ~~of~~ have read  
his portion of the paper, I am its  
beauty originally, and many other  
faults, but at least accept it as  
payment of the debt each graduate  
of medicine owes, that of writing  
a thesis.

As several of the students say that  
they have written theses of a hundred  
pages or more, which if they all  
did, you would hardly have time to  
read (matters not how thirsty you  
might be to acquire the knowledge  
which they contain).

As a student attending lectures and  
studying for examination (and of  
course to make a good physician  
of himself) has very little extra time.  
From these reasons, but more

especially, as I have the expect  
discoveries yet to add to the  
medical world, before you will even  
look its brevity, and also its many  
other imperfections, & as I am as  
poor a writer as Dr. Marion Sim  
thought he was, when young  
But as these are not for the edifi-  
cation of the professors, but to give  
them an idea of what the student  
knows. I hope this one will at  
least show you that your lectures  
have awaked in me a desire to  
learn and thoroughly understand  
the medical science (however  
far I may be from it at the exam-  
inations) And the manner in which  
all of you dwell upon the importance  
of making a correct diagnosis, going  
to the bottom of, or finding out the

cause of everything is ~~if~~ I have  
close such a subject & with  
such a learned discourse.

With this elaborate introduction, which  
is nearly as long as the thesis itself,  
I subject to your possession if not  
infection. (and I hope you will not  
reject it) this my thesis. asking  
your forbearance, — especially at the  
ex — — — and hope I will not  
have to ask myself. Why did I not  
get my diploma?

Very very respectfully and  
humbly Yours etc,

Simon West

, Oct 1870

# Why

There is no question a physician or student of medicine, should ask himself often, and answer or at least endeavor to answer than that containing the word Why. He must make of himself, as it were, a living interrogation point, and everywhere he sees, feels, hears or does, he must ask himself why he sees, feels, hears or does. It is true that many things occur, or don't occur, the cause of which have not yet been satisfactorily explained, such as the mode of action of some drugs, many things in chemistry, or

Why the stomach does not digest itself,  
and many other similar questions,  
that can only be answered with  
an hypothesis, or not at all,  
It is true that some say, that the  
stomach does not digest itself, from  
its vitality, because its walls are  
alkaline, the gastric juice only diges-  
ting in the presence of an acid, and  
from its thick <sup>meaty</sup> and epithelial coating.  
But it is known that living things are  
digested in the stomach, and when it  
comes to the walls being alkaline, pre-  
venting the action of the gastric juice  
the question comes up. Why don't the  
duodenum digest itself; for there  
the pancreatic juice digests all  
kinds of food. and last, in the duodenum  
an alkali. or when it comes

to the thick muscle covering and the  
theatral lining, which are not digestible  
by the gastric juice. Then  
~~Why~~ the walls of the stomach, where  
the mucous membrane is lost, the  
muscular tissue exposed, ~~why~~ don't  
the gastric juice digest right.

Through the walls. But all ques-  
tions like these, are yet to be solved,  
and while they will give to their dis-  
covered fame, still why's that will  
most concern a young physician  
starting out, we know that  
explainable; and while we may not  
know, why a medicin acts, we do  
know how it feels, and should know  
why we give it. Though we don't  
know, why the stomach doesn't digest  
itself, still we know that

It does not digest itself : and should  
give nourishment to our patients  
not expecting it to go into the peri-  
stal cavity, but to be assimilated  
and absorbed from the stomach &c.

When a physician is called to see a  
patient suffering pain &c. he  
should find out why there is pain;  
what remedy will best relieve it,  
and why. For how foolish to use  
anodynliniments for pain referred to  
the shoulder, when a person has  
disease of the liver: or to make  
local applications to the testicle,  
when a patient has Bright's  
Disease; or how foolish to pour  
treacle down a woman's throat,  
expecting to cure her of her  
constipation, when an aperient

when of the worse & most painful  
is the cause, or how not only  
foolish but wrong, to treat incipi-  
ent or the first stage of sciatica  
as rheumatism, when I losing  
much precious time.

But he must know why there is  
pain, what is the cause of  
pains & the real cause.  
When he begins an operation  
he must know why he operates,  
whether it is necessary to cure  
him from a disease which may be  
of some advantage to be suffered,  
or, I only but scarcely  
for own good.

Then again a considerable  
part must only be given to him  
I will act and not give one

they always feel the disease to  
lose in a mechanical way,  
not tell the name of the disease,  
but the disease, & its symptoms.  
As a student of medicine, with  
interest and pleasure, and also  
with great practical advantage  
to a physician, taught with  
A fly does a blister cause tenness  
of the pulse which it is applying.

Because the vasomotor nerves cause  
dilatation of the delivery vessels  
of the part, and more blood goes to them  
the heat cold or fear cause haleness.

Bleeding influence is sent to  
the vasomotor center, which sends  
out an influence to the vasocon-  
strictors of the part causing contrac-  
tion of the blood vessels, with less blood

It is due to the narrow tightness  
of the skin, & getting flesh,

Because our skin has at bottom  
a little muscle, which is caused  
contract about the hair.

Why does alcohol make us more  
unable to stand as usual so it  
as they could if they did not use it?  
Because alcohol prevents circula-  
tion, and causes a slower flow  
of blood to the surface. This brings  
more blood to a part when  
it is not rapidly worked.

For the same reason, as the last  
part of carrying the flowing blood to  
the surface persons coming into the  
house from out in the cold, and  
unable to get a full value, alco-  
hol causes them to feel very bad

producing dilatation of the peripheral blood vessels, causing more warm blood to flow there, and thus raising the temperature where the sense of heat and cold resides.

Why is it, that a person after receiving a blow upon the head, and so, and having recovered from the first shock, may in course of several hours have a secondary shock or collapse?

Because a blood vessel was ruptured by the blow, and the blood escaping all the time into the cranial cavity, causes compression as soon as enough has escaped. The smaller the vessel affected, the longer will the secondary shock be following the first, not only

because I often expect to see  
some peculiarity to notice. But also  
because I take a greater interest  
the hair seems to become hoary  
so it need to be present.  
They should not be told to do  
out they are ready  
to have it known by themselves.  
They do this in a very early part  
of it will continue to blue when  
it is new or likely to be old.  
I cause to think  
become when only partially out  
I cannot tell whether there  
a diff to be formed.  
They don't a woman after publication  
can bleed to death with the next  
member of open mouthed vein  
during to the uterus being

4  
by a thin intercostal muscle,  
power to contract and relax in  
their sheathes.

Because the muscular fibers  
surrounding the veins, with the  
contraction of the uterus not like  
so many ligatures, tying them  
Hence the importance of permanent  
contraction of the uterus to prevent  
post partum hemorrhage.

How does the middle muscular  
contraction extend to the lower part  
of the uterus?

To give less resistance than, so that  
the fetus will be driven in this  
direction by contraction of the uterus  
He will not find it. Why some  
are made so uneven. The many  
ridges, wrinkles, processes

from which, making to another  
that of anterior. It left a few  
days to think.

And he would answer that every  
vehicle would forward. He  
was for the attachment of our  
other joint of knee. But  
wishes us for the articulation  
with other hand so.

If by six joints he will make  
to turn from left to right &  
the middle joint hindered in either.  
Because the biceps muscle is  
contracting. Likewise the hand  
turns the right hand from left to  
right and the left from right to  
left. Consequently left hand turns  
so well at a turnings will  
well in accordance with the

able to bring the wings into view  
They should be in your eye, the  
sight of which is erroneously  
left the other side of?

Because I may at any time take  
an inflammation, and set up  
sympathetic inflammation in  
the other eye.

They should therefore be col-  
lected as soon as it is established.  
Because after continuing for a  
long time, sight in the squinting  
eye is lost from disease

They should also be early  
recognized and not be mistaken  
for neuralgia?

Because the only cure is early re-  
ognition and victory. It  
should never be mistaken, or

meanwhile, for we all know what  
causes tuberculosis of vision  
last, but not least, when he is  
in his full he must all his self  
of his he sends it in.

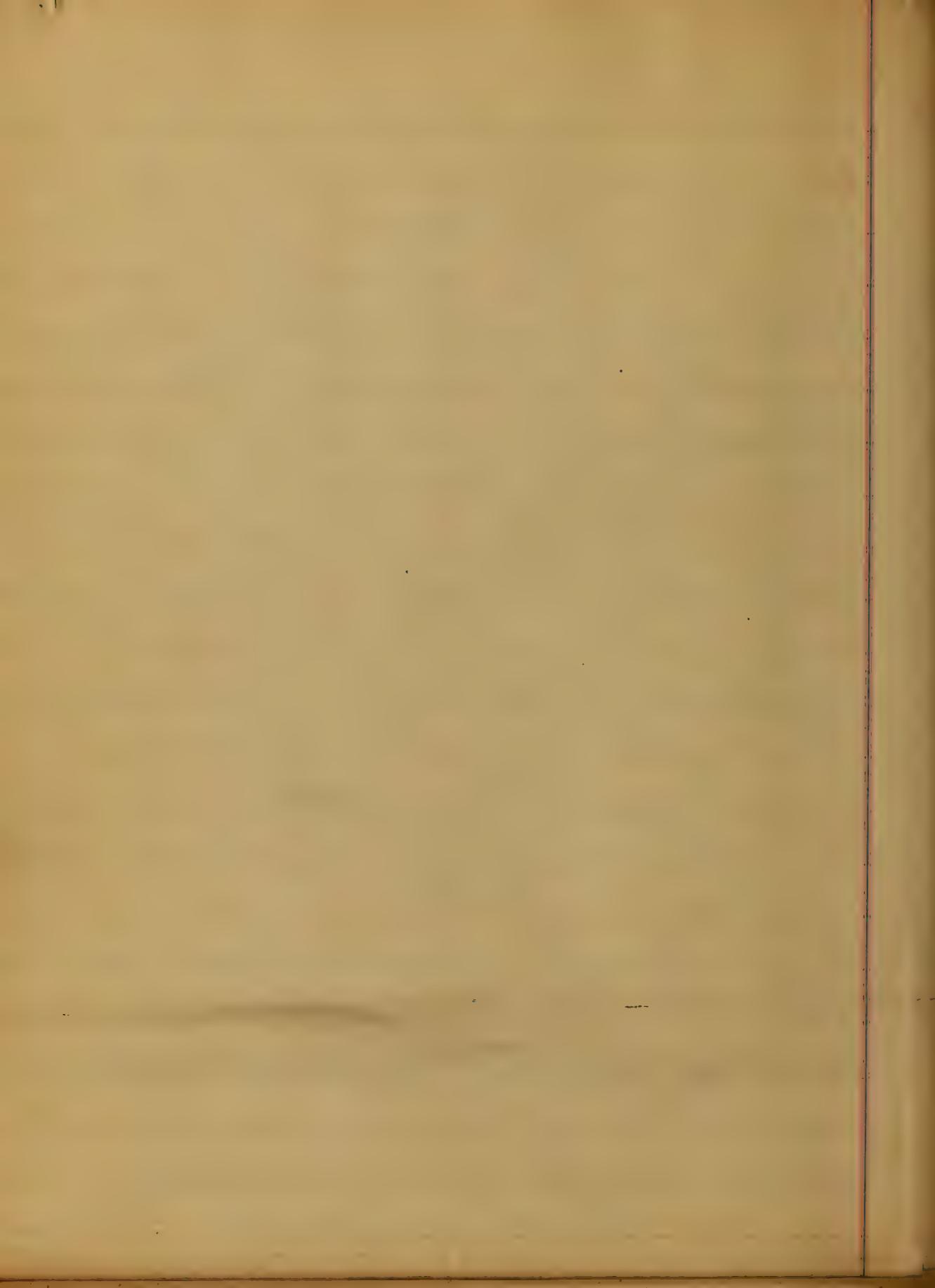
As he has removed all the  
why likely he can well say  
because I have seen it



## The Physiological actions and Therapeutic ical Uses of Arsenic.

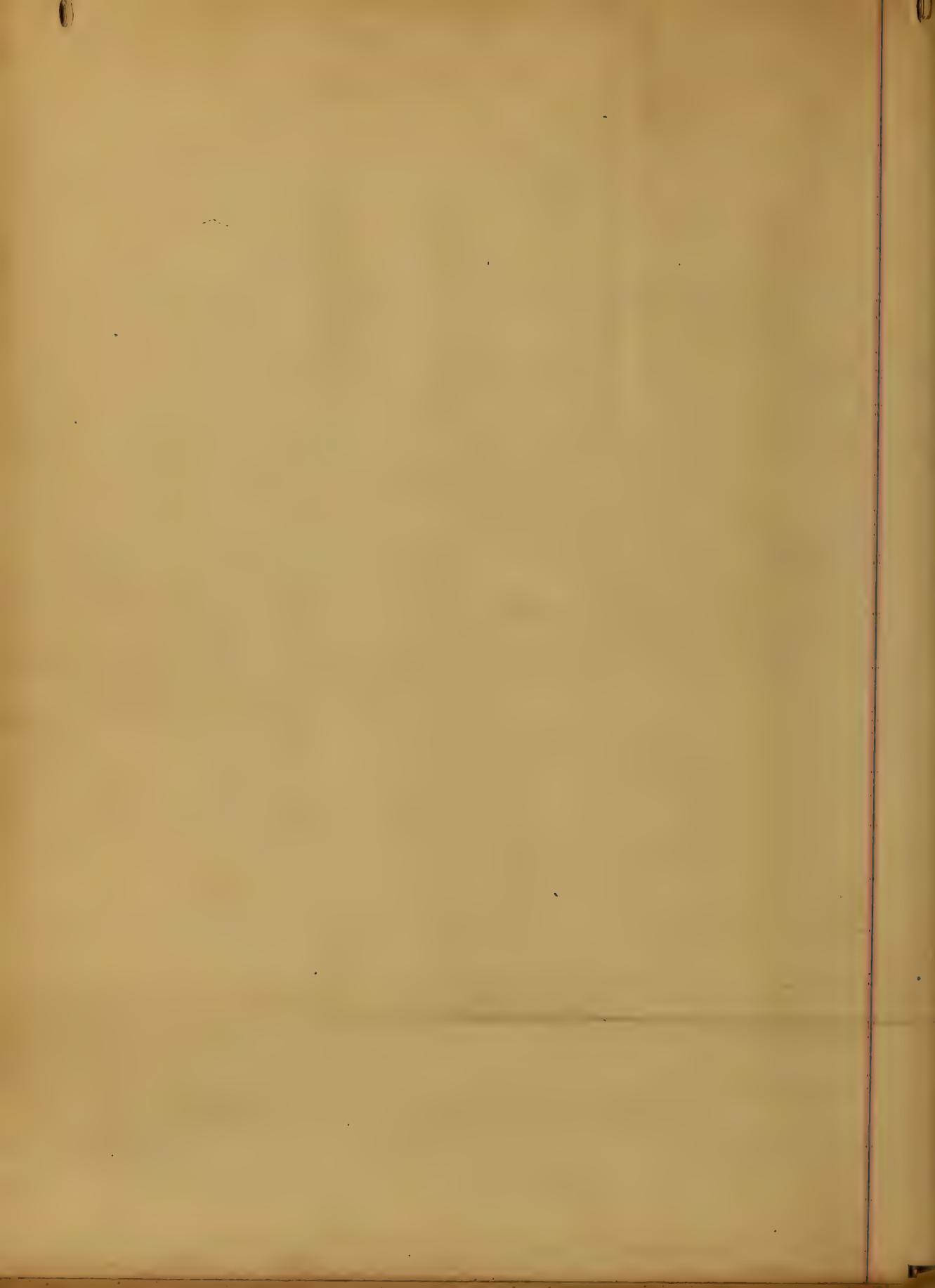
Before discussing the actions and uses of Arsenic, it will be necessary to give some of the preparations most commonly used as the pure arsenic is never prescribed itself. The solid preparations most commonly prescribed are arsenious acid and Iodide of Arsenic.

The arsenious acid - acidum arsenii - is generally found in the shops in white opaque masses. Formerly it was kept in powdered form, but



lesions are formed, but generally the mouth, stomach and intestines are inflamed. Eschars <sup>perforations</sup> of all the coats of the stomach and duodenum are formed. The villous coat of the stomach is reduced to a reddish brown pulp. The heart, kidneys, liver, spleen are found to have undergone fatty degeneration, even when the poison has done its work in a few hours.

The above alterations are found also when death ensues from applications of arsenic to large ulcerous and ulcerating surfaces.



## Asiatic Cholera.

The disease here chosen as the subject of my thesis  
is known by several names. The terms Malig-  
want cholera, Asiatic Cholera, or

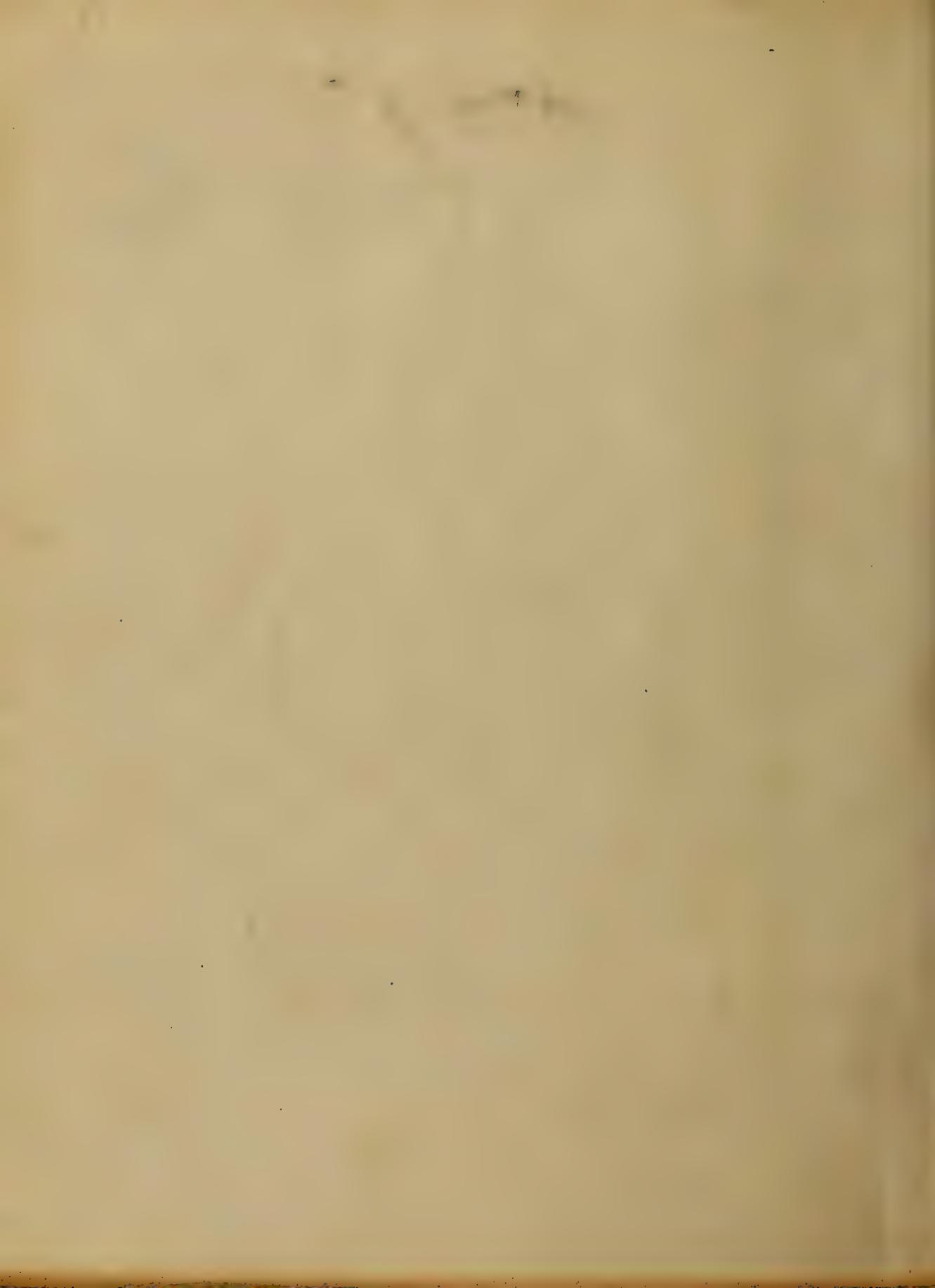
Chorus for the  
old Advent is  
the first of the  
old Advent is  
the first of the  
old Advent is

- - -  
No. 2881

A decorative title page featuring the word "Thesis" in a highly ornate, cursive Gothic script. The letters are intertwined with delicate, leafy branches and small flowers, creating a lush, vine-like effect. The entire title is set against a light beige background.

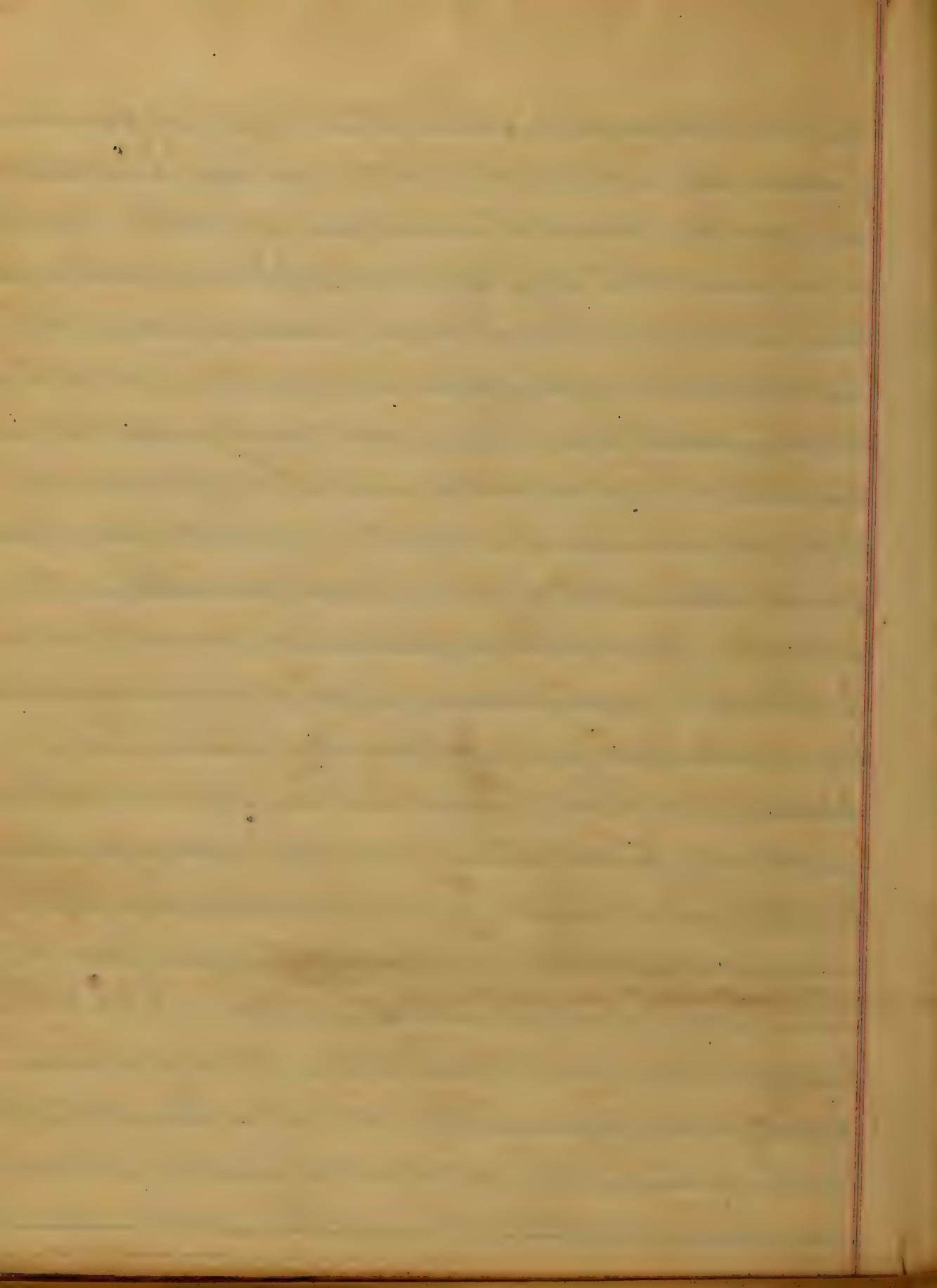
Thesis

Mr. & Mrs. Triona

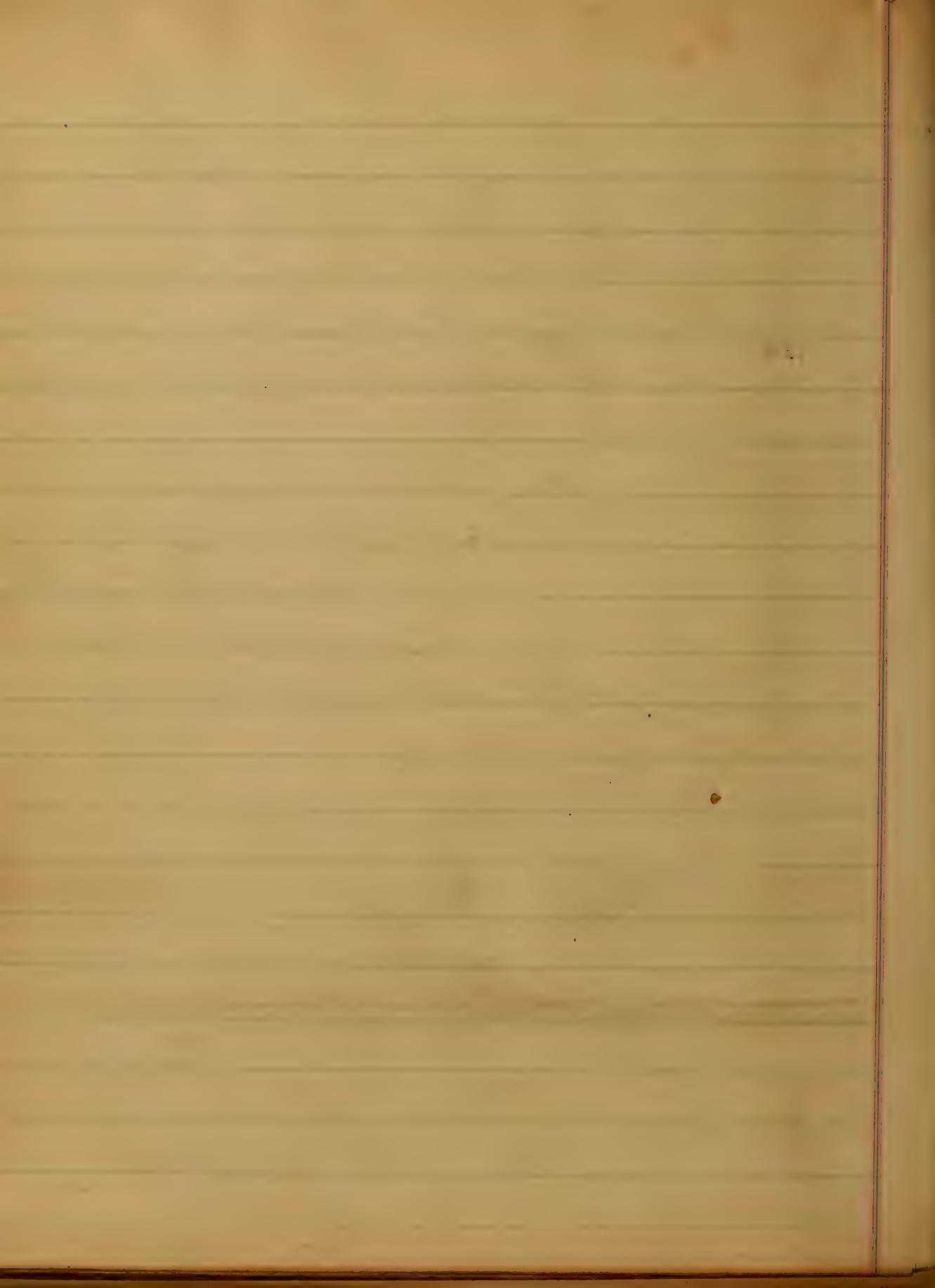


# Development of the Embryo.

The whole human body is developed from the female ovum which has been fertilized by the spermatozoa of the male semen. Whatever spiritual, mental, moral or physical powers <sup>are</sup> found in man must come from this protoplasmic cell which has been thus impressed and undergone various and奇妙的 changes in the accomplishment of such mysterious functions. It will now be our purpose to trace the development of the embryo from the earliest stage of conception to the full development of the "members" <sup>and</sup>

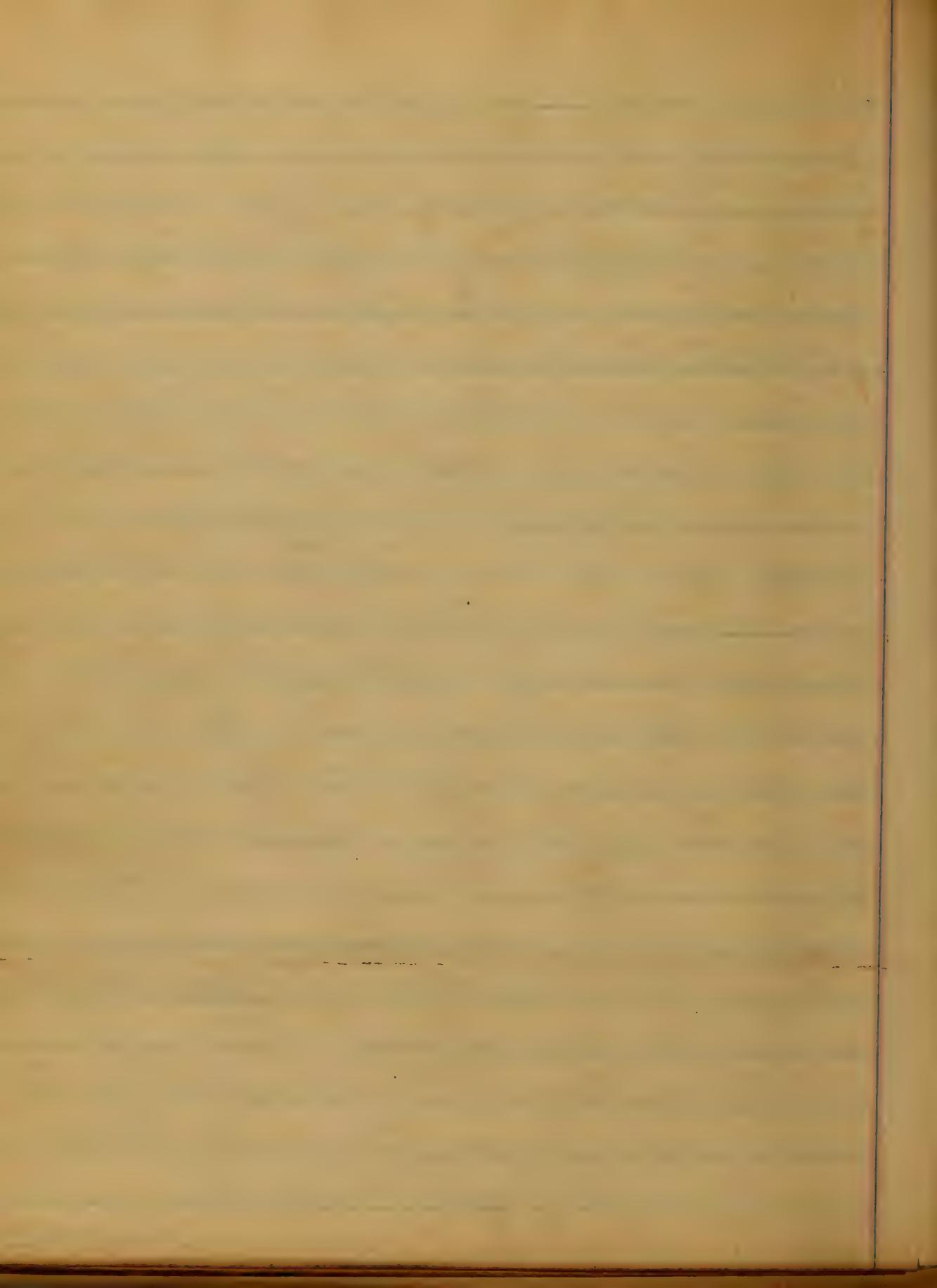


in the shape of a small pyriform vessel, springing from the outer and inner layers of the blastoderm near the caudal extremity of the embryo. This little organ has an important part to play in forming an apparatus upon which the foetal vessels are projected to the maternal blood, from which it imbibes the materials of nutrition and to which it gives up those matters that are necessary to get rid of for its suffocation. The blood vessels, two arteries and two veins, one of which afterwards disappears, are all

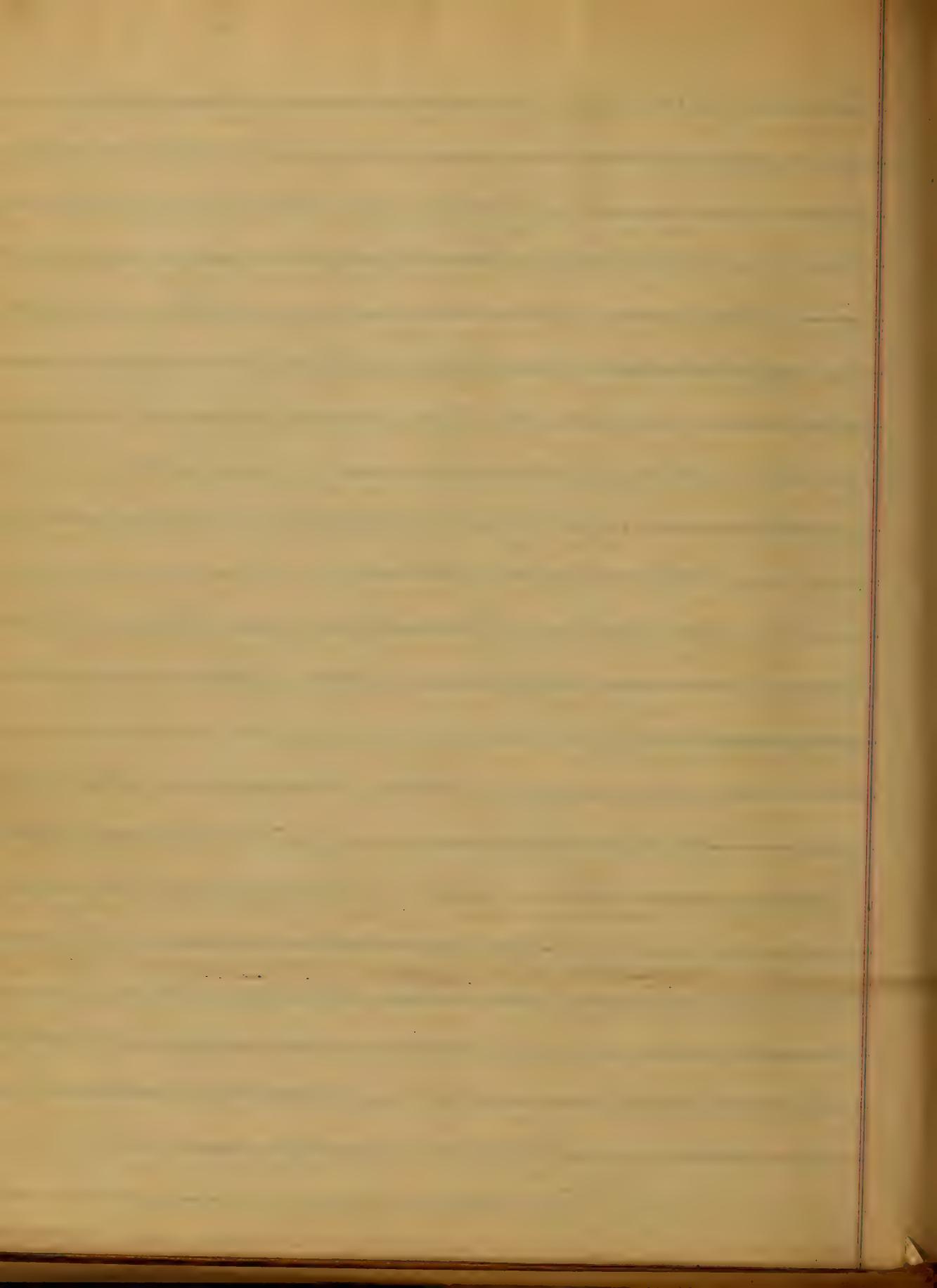


Big Malaria

This disease is essentially the same in every country but it has received different names. The French call it the mal des mœurs or malaria or the yellow fever.  
English and German authors describe it as yellow fever and ague or typhus or justic fever. American writers call it yellow fever. It was called yellow fever from its color and similarity to typhus. But since it is known to be a malaria disease and ague is very distinct from that disease, probably a better name would be ague fever.  
For its entry of entrance into the system

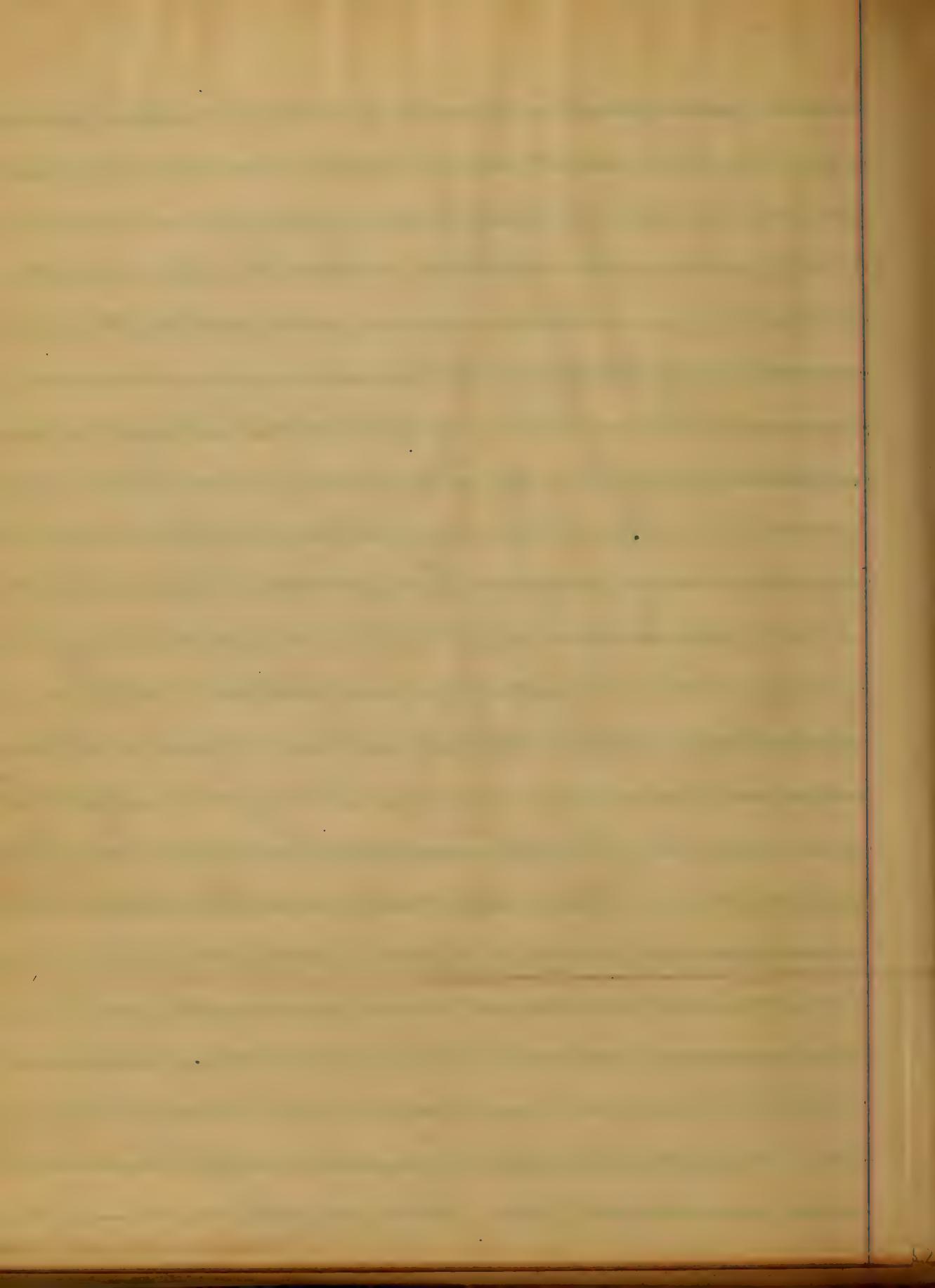


four feet above the recto-caecal valve.  
There are changes in their structure  
closely resembling those which occur  
in typhoid fever may take place in  
other diseases, yet in no disease do  
these processes make a regular course  
of development and present successive  
stages of maturity according to the  
stage of the malady as in typhoid-  
fever. The first change consists in the  
hemorrhage and cellular infiltration with  
a cavity occurring in the lamina propria  
iteration of them above the walls of  
the intestine. Both vessels, arteries and  
veins, are involved.



being cut off, become subfebrile, milder  
and recrudesce. Thus the symptoms of typhoid  
fever may depend upon those changes  
which take place in the liver. Of  
course these things have not been proved  
they are hypothetical.

Differential Diagnosis. After five or  
six days the diagnosis of a typical  
case of typhoid fever is not difficult.  
It may be recognized by its gradual  
development, absence of pronounced re-  
missions, the thermometrical curves,  
headache, tympanitis, diarrhoea, tenderness  
in the right iliac region and  
gurgling, and the appearance of the



tion of the thermometer con-  
sidered it a valuable remedy in  
the hands of a judicious physician.  
The following is the manner of its use:  
As soon as the patient's axillary temper-  
ature runs above 103° F. he is placed in  
a bath the temperature of which is  
70° to 75°. The temperature of the water  
is gradually lowered by ice or cold  
water till reduction in the patient's tem-  
perature is effected. If the temperature  
fall rapidly to 95° in five or six min-  
utes the patient should be removed at  
once, for it will continue to fall after  
removal. If the fever is most severe the

