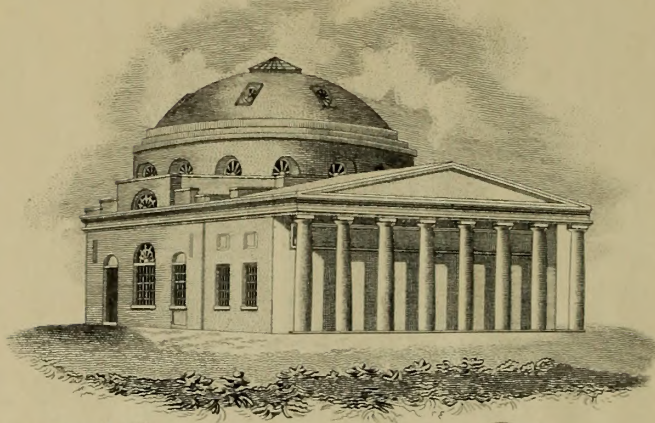




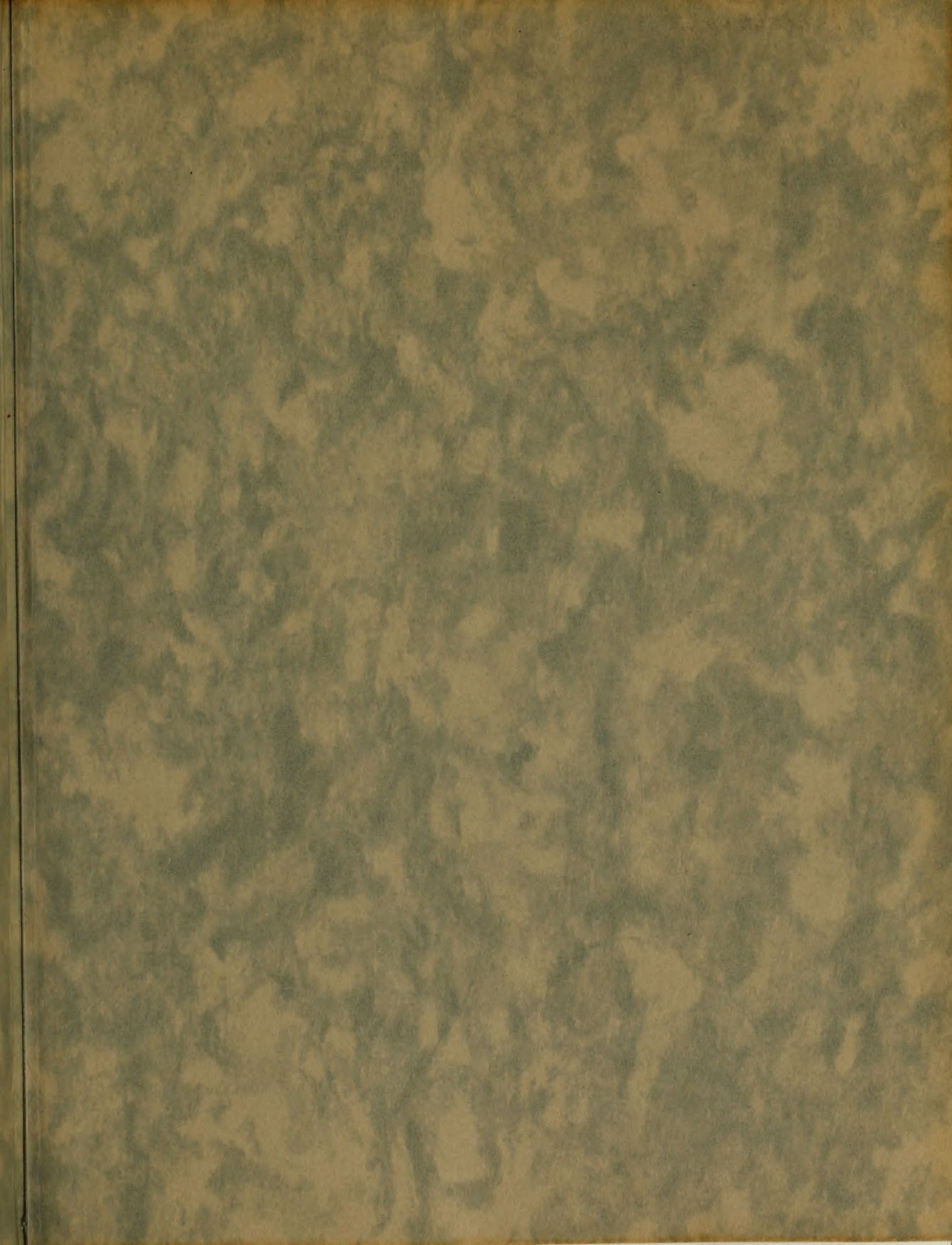
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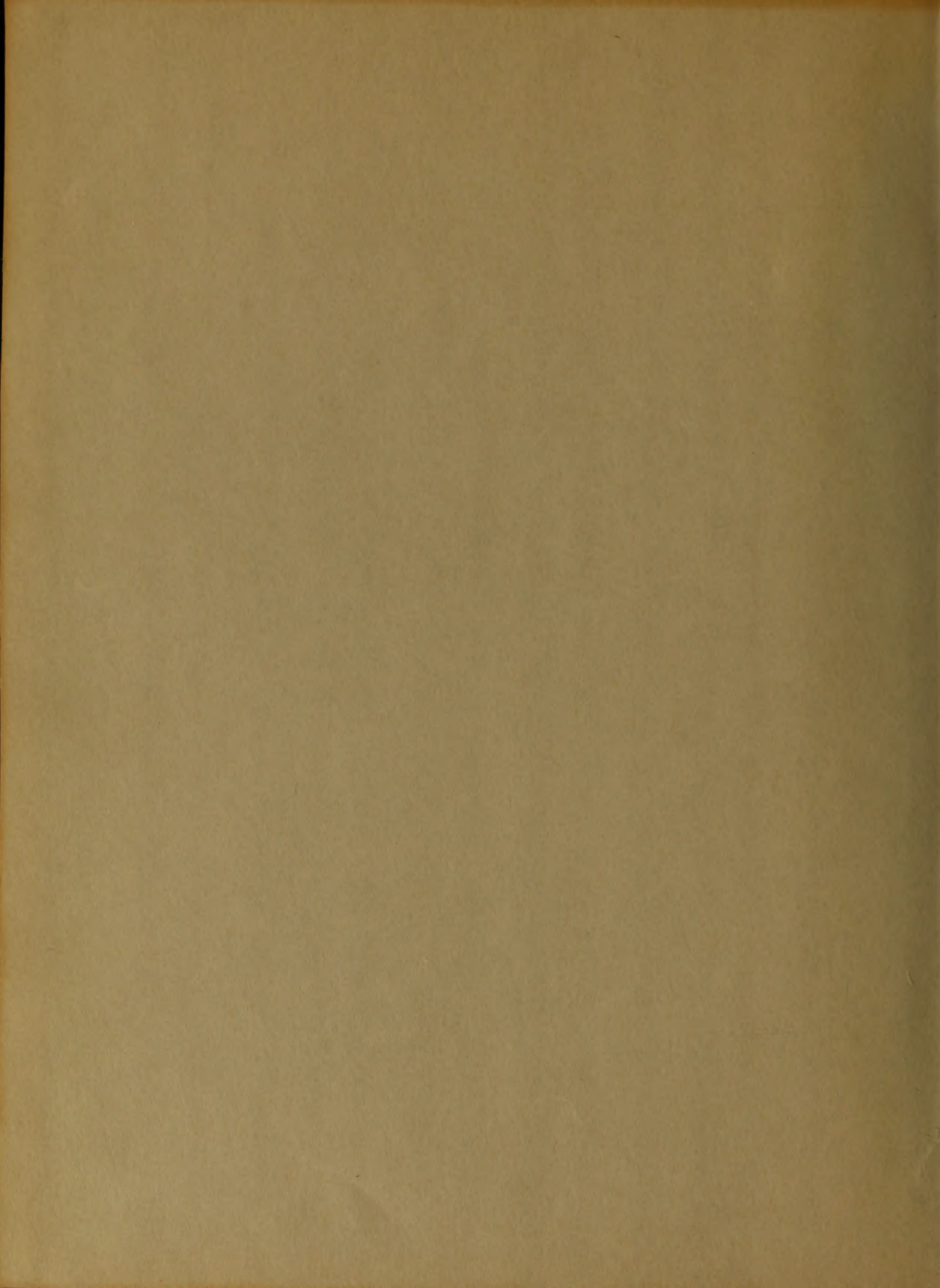
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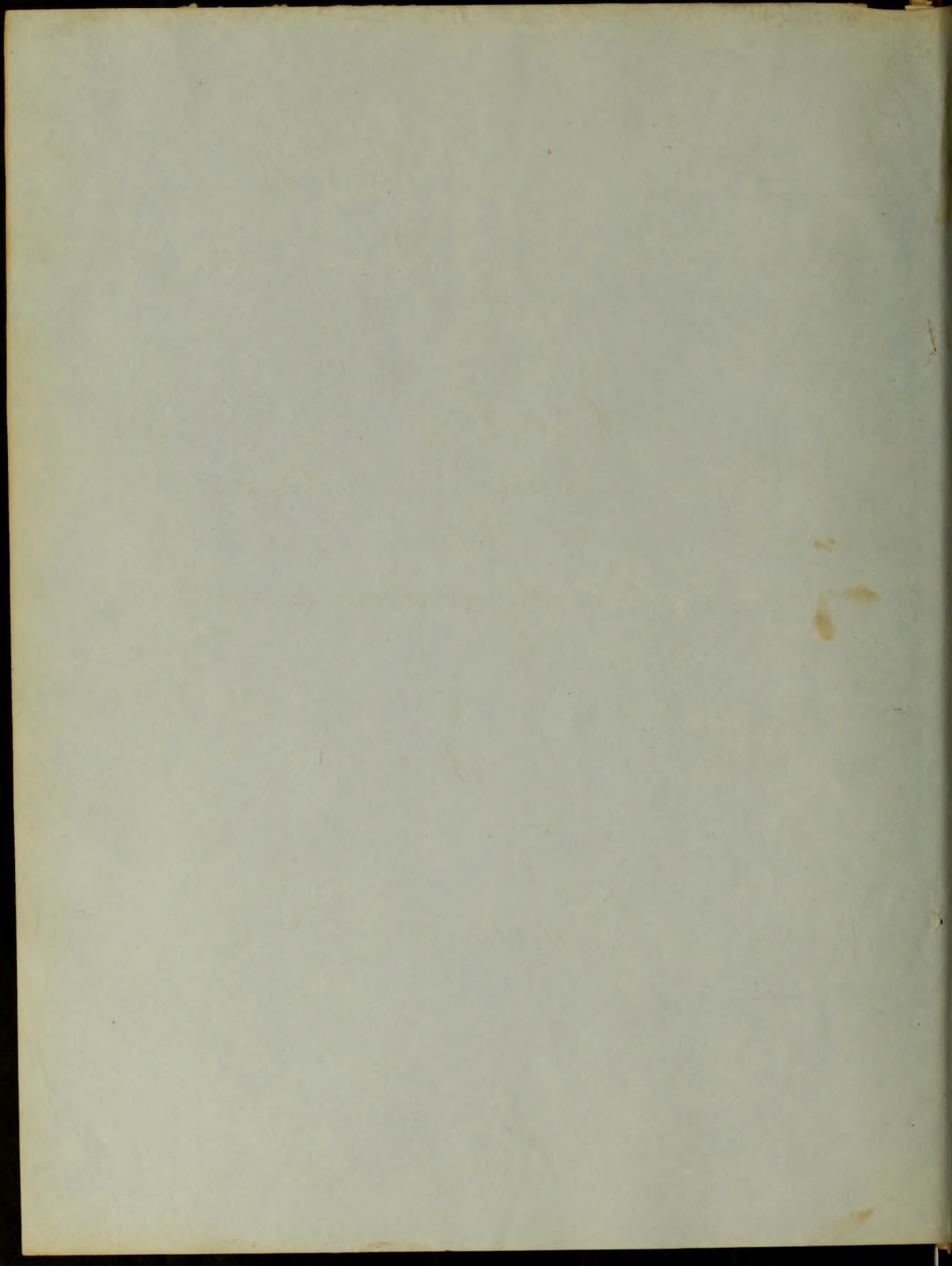
Regents and Faculty of Physic,  
of the  
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by

Robert J. C. Nally,  
of

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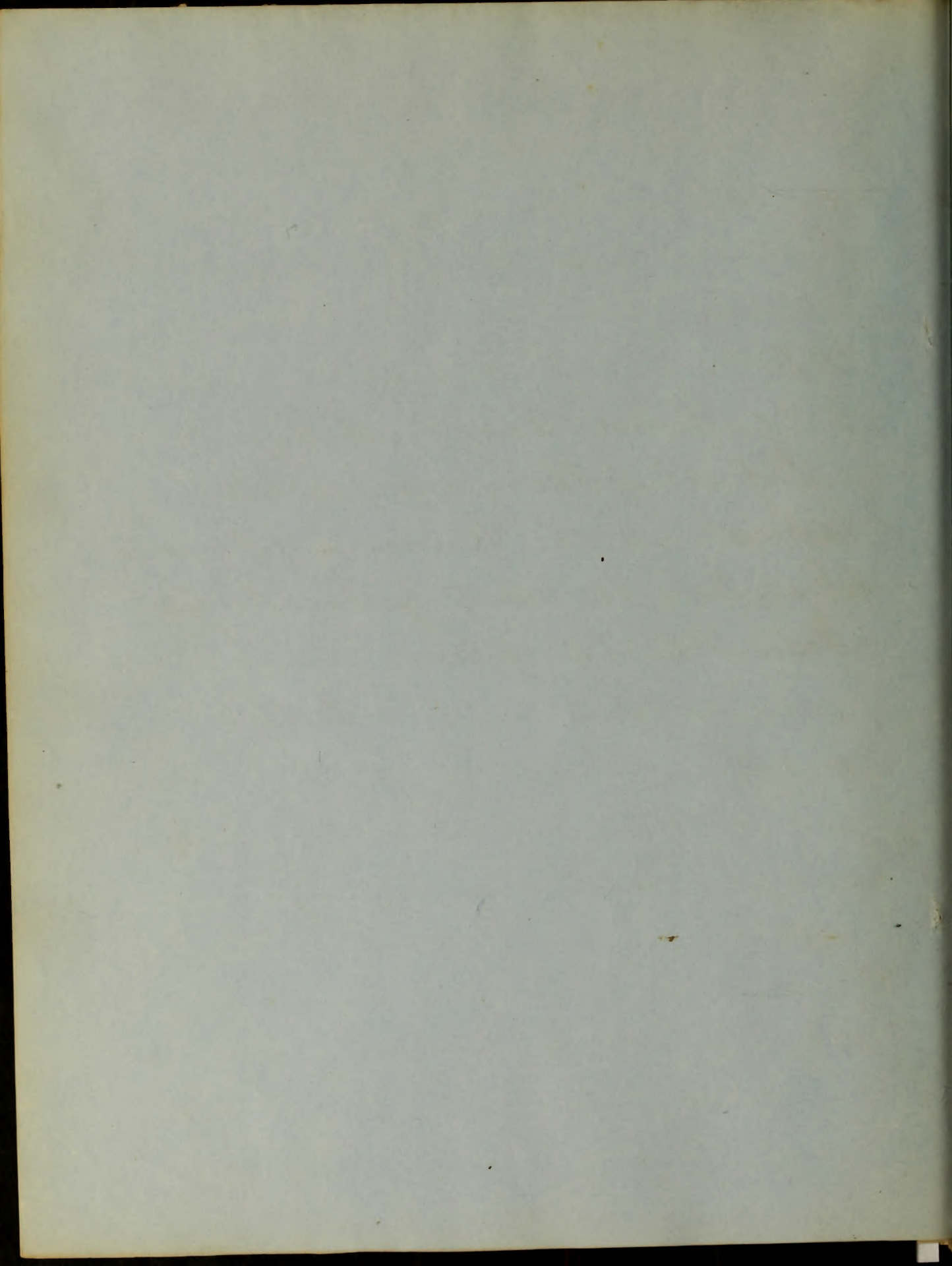


To

William Power M.D.

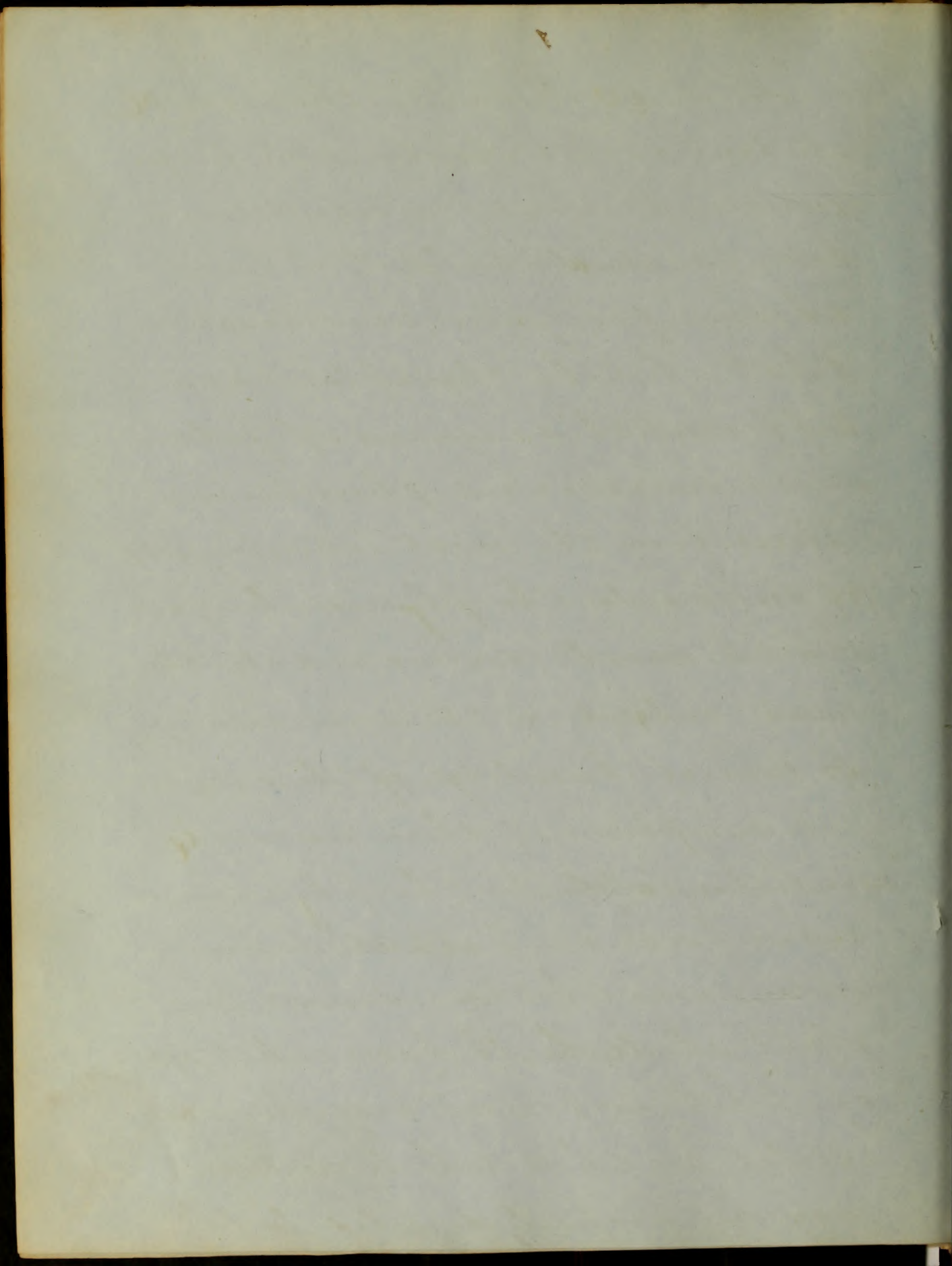
Professor of Theory and practice of  
Medicine in the University of Maryland,  
these lines are most respectfully  
dedicated by the

Author



As it devolves upon the medical student on his application for graduation, to present a dissertation on some medical subject, I have chosen for your consideration that of the symptoms and differential diagnosis of pulmonary diseases and pleuritis. —

These form the most interesting group of diseases to the physician, being among the most common and also the most critical in the vast catalogue. A correct knowledge of the nature and symptoms of these diseases is <sup>also</sup> indispensable to the physician, for when he sees a patient laboring under some thoracic disease, his object should be to know what part of that important visceræ is affected, so that the treatment may be properly directed to the





Counteracting of the disease, and the prolongation of the patients existence. - The differential diagnosis also, is of no less importance, for as some of the symptoms in the various diseases which affect the thorax correspond, it is necessary that other symptoms peculiar to one of those diseases and not to another should be exhibited in order to lead to a correct diagnosis. -

In the thorax of a healthy individual there is heard, when the ear is applied, a soft vesicular murmur or breathing, produced by the passage of air through the aerial passages, but when the lining membrane of these passages are attacked by inflammation, symptoms of bronchitis arise. -

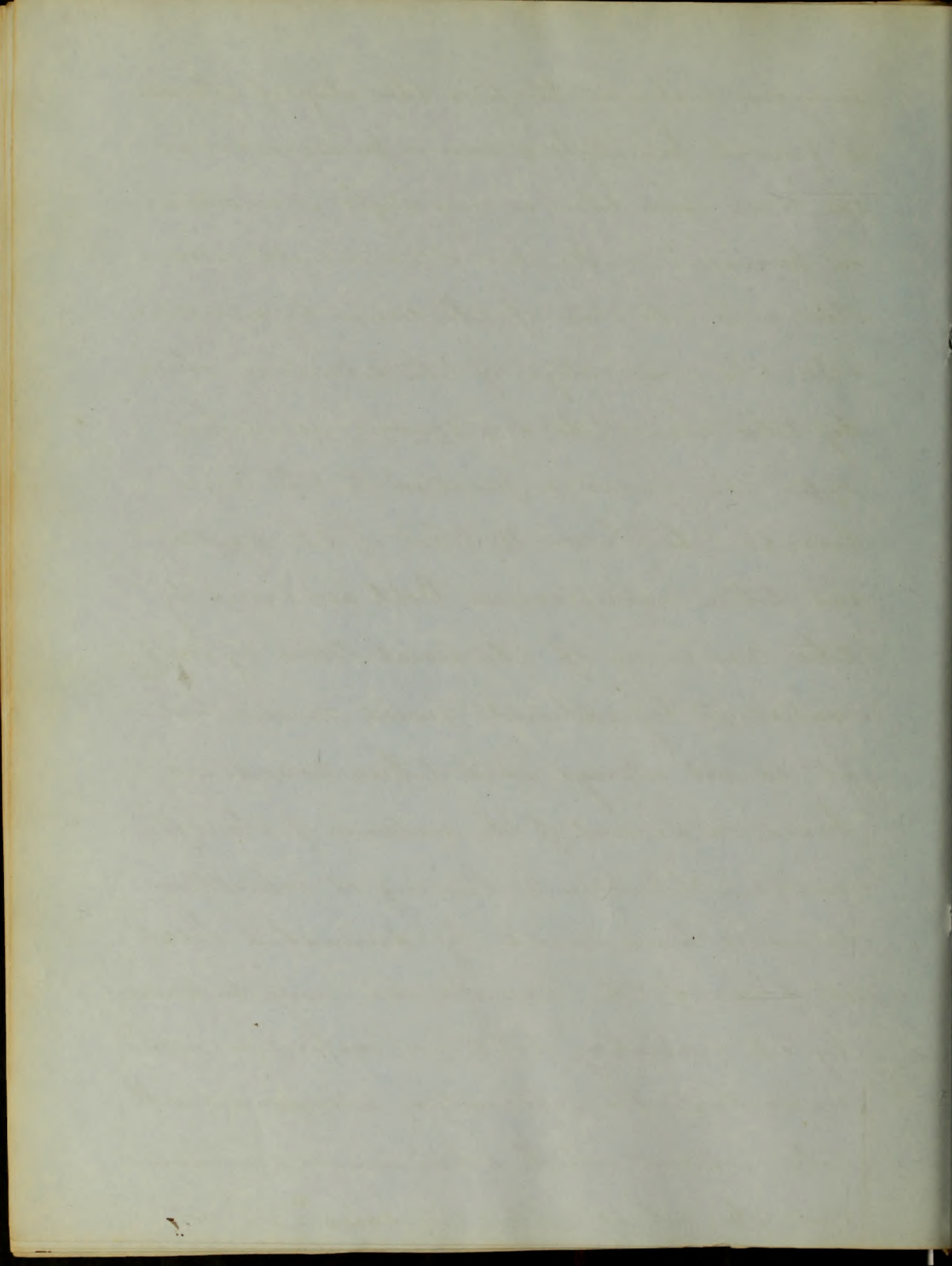
This disease is usually ushered in with ~~chills~~ rigors, and aching of the limbs, considerable lassitude and weariness, chilliness followed by febrile ~~excitation~~, there is also a sense of heat and uneasiness in the anterior part of the chest, and frequently a sense of tightness, and soreness, cough is usually among the first of the symptoms, and frequently

*[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side of the paper.]*

the most prominent, at the commencement, it is usually dry and frequently occurs in paroxysms, generally in the morning. This stage is usually attended with febrile excitement, headache, furred tongue, high colored urine and frequent nausea. After a few days the patient begins to expectorate a frothy viscid mucus, the increase of which is attended with the amelioration of all the symptoms, and as the inflammation diminishes, the sputa are expectorated with greater ease, the skin becomes moist, & the urine flows plentifully. Even in this stage the inflammation may again increase and with it all the symptoms attending. If it be confined to the larger bronchi the prognosis will be favorable, but frequently it extends to the smaller bronchi and their ramifications, then the prognosis becomes more unfavorable, and in proportion to the inflammation of these ramifications is the seriousness of the prognosis, sometimes the inflammation is so extensive as almost to lead one to suspect pneumonia, but the absence of the rusty sputa & dulness on percussion &c will clear

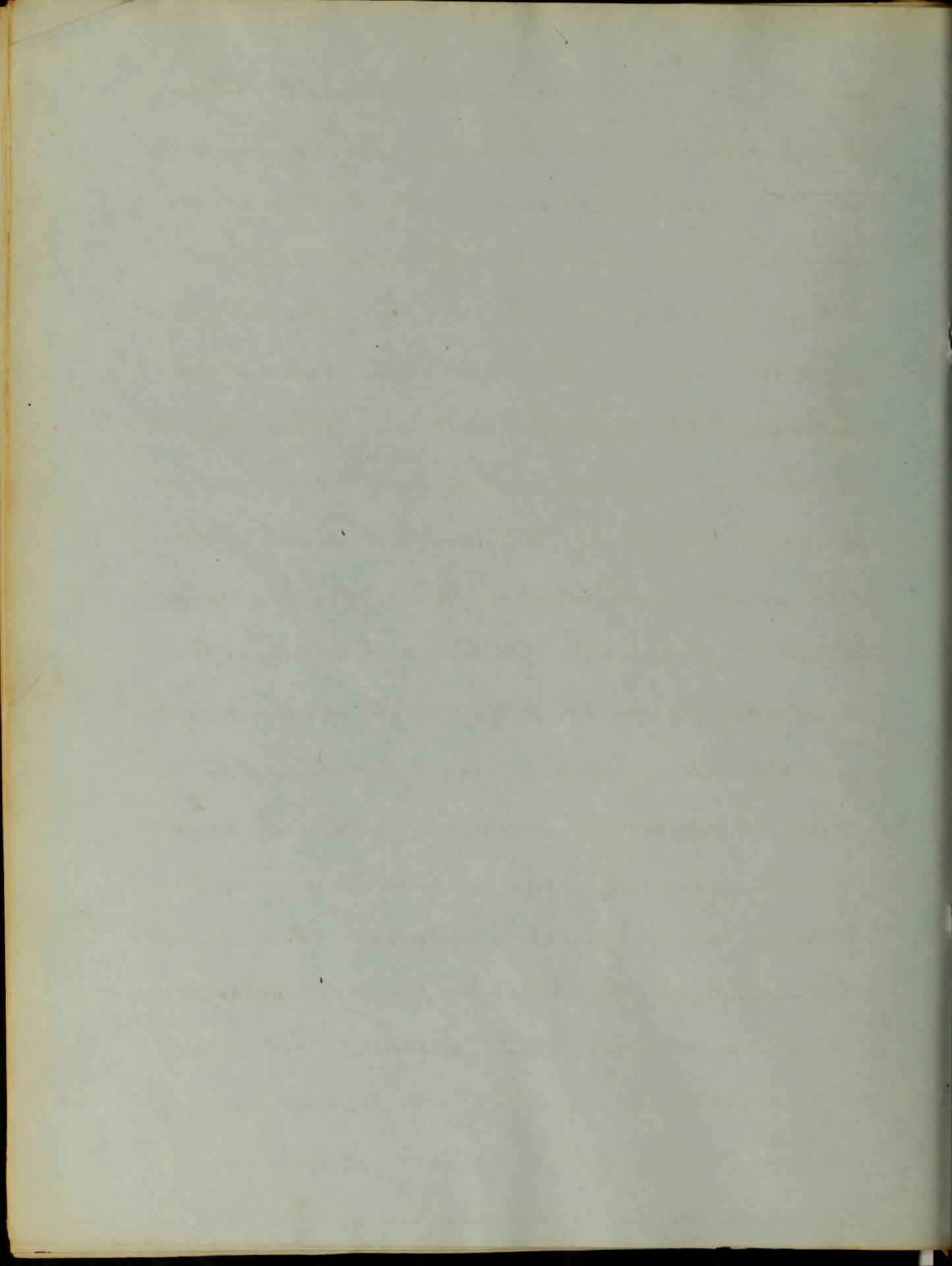


away our suspicions, though in this stage of inflammation we frequently have slight dulness on percussion, but in the milder form there is very slight or no dulness on percussion, We also obtain valuable information as to the stage of the disease by auscultation - In the earlier stage of the disease we obtain by this means the dry sonorous and sibilent rals. The former is peculiar to the larger bronchi, the latter to that of the smaller and their ramifications, Both are caused by the narrowing of the aerial tubes by inflammation or by adherent viscid mucus, but it is not always that these sounds are heard, on account of the mildness of the inflammation. - Sometimes a hissing or whistling sound is heard, caused by diminished caliber of one of the bronchi, and may be known by its persisting both in inspiration and expiration. - The inflammation also varies with the extent which these sounds are heard over the chest, - The dry rals are not



is a viscid expectoration mixed with blood.

The pain in this disease is often very acute at the first, but afterwards becomes obtuse. It may be felt in the side or back or on both sides, when both lungs are affected, the pain most frequently arises from ~~inflammation of the~~ pleura, frequently it is entirely wanting, or is only felt when a deep breath is taken. The breathing is also quickened, attended with a feeling of oppression, frequently there is considerable dyspnoea, so great that the patient is frequently forced to an erect position, this dyspnoea is generally increased with the extent of the inflammation and consolidation. Great dyspnoea, quick respiration and a livid face augurs very unfavorably. There is generally ~~always~~ some cough attending this disease, but sometimes it is entirely wanting for several days after its commencement. At first it is usually dry with slight expectoration, but soon a



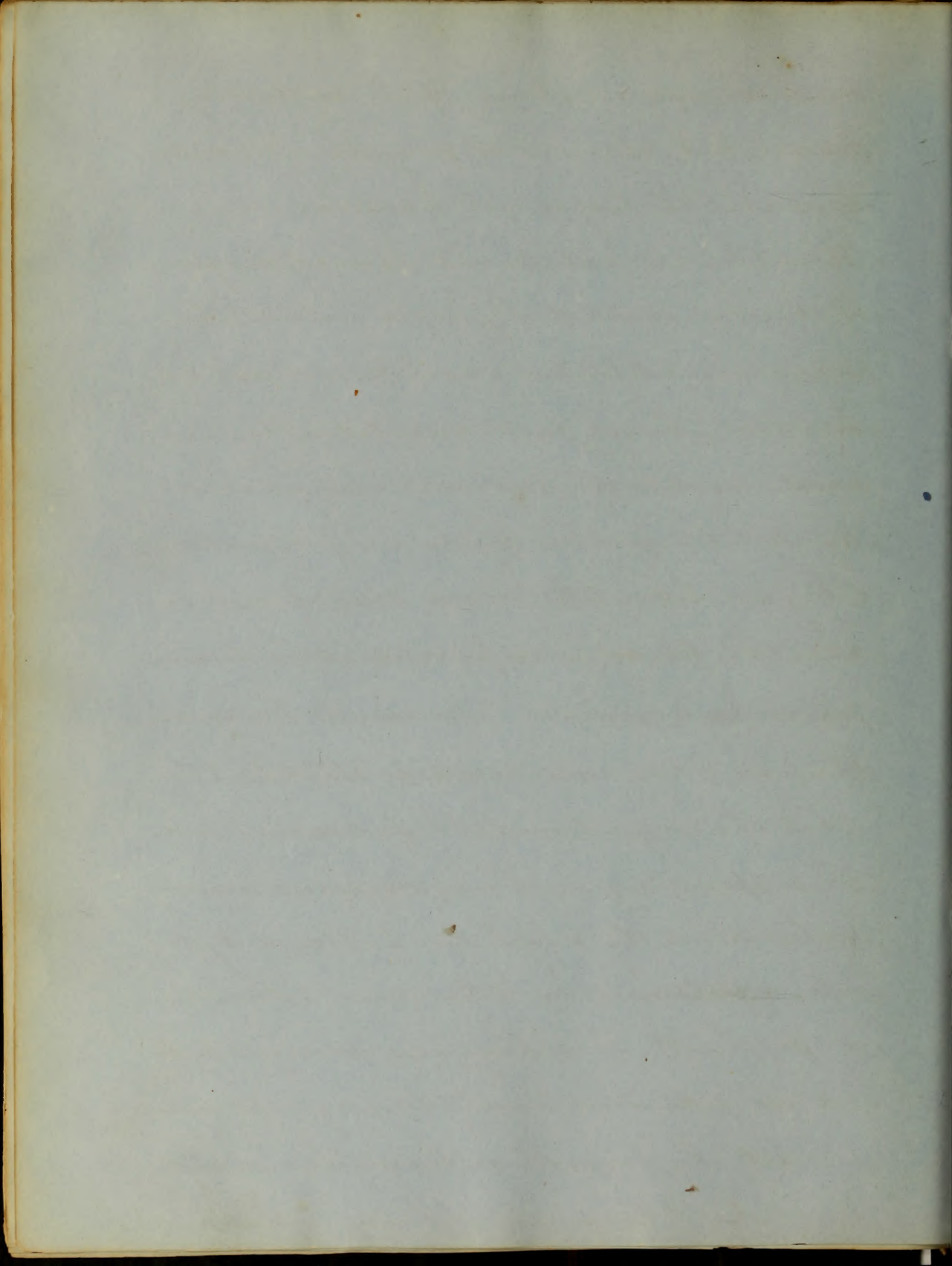


always pure, for there is generally some degree  
 of exudation from the first, which gives rise  
 to a composition with the moist sounds. Some  
 times also we hear mingled with these sounds  
 the vesicular breathing, which indicates that  
 some of the smaller bronchi are free from  
 inflammation. — After sometime the stage of se-  
 cretion is fully formed, then the moist sounds  
 predominate, but the dry sounds are still  
 heard. — If the inflammation is very extensive  
 and the smaller bronchi and their rami-  
 fications are implicated, auscultation will  
 reveal to us the subcrepitant rale, which  
 may lead us to suspect pneumonia, espe-  
 cially if there be sibilent rale at the  
 same time, but the facts of their being  
 no rusty sputa nor bronchial respiration  
 will be sufficient evidence that the  
 inflammation has not extended to the  
parenchyma of the lungs. — Sometimes one  
 of the bronchi becomes clogged up with

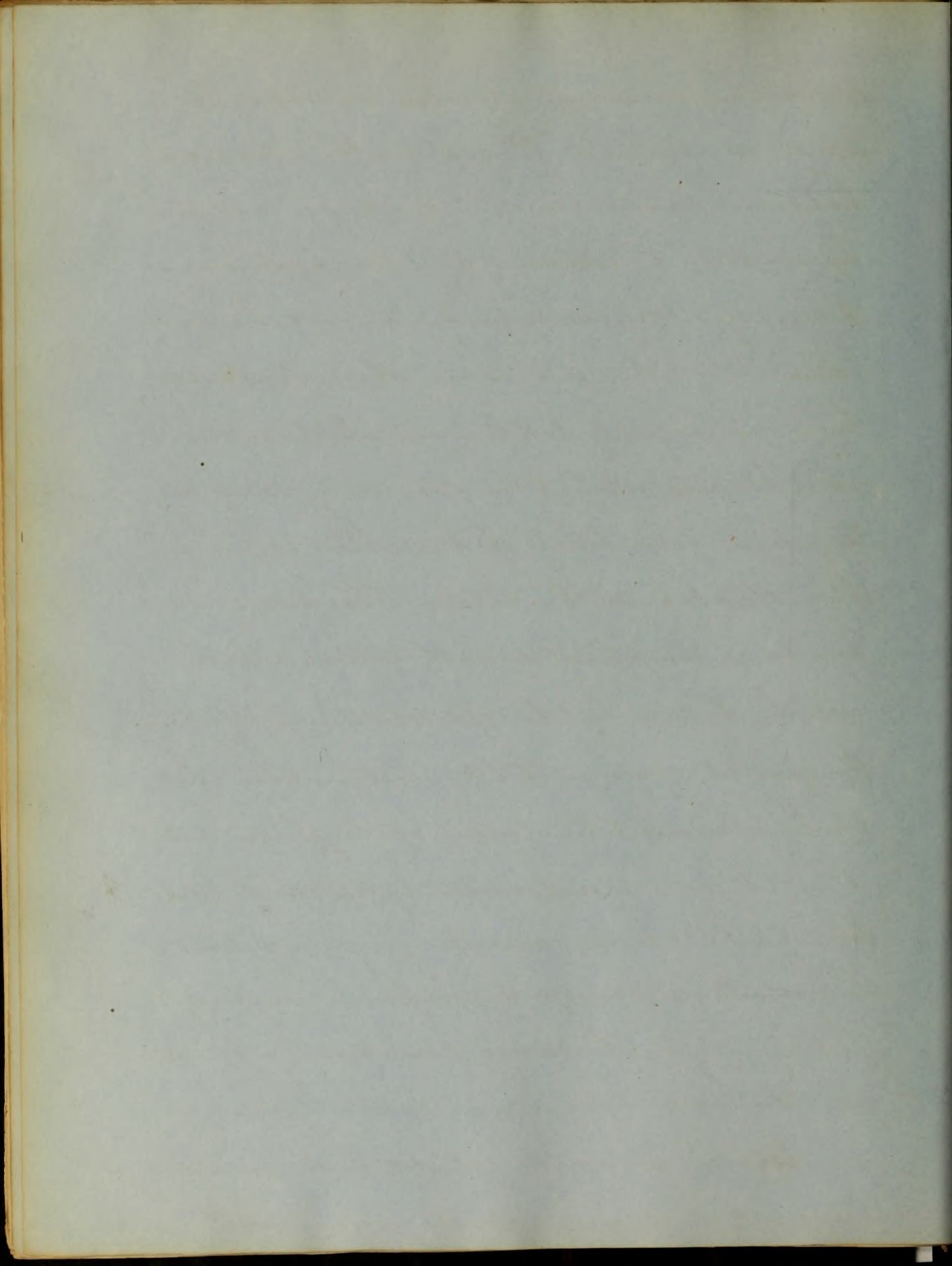


mucus, causing an absence of the respiratory murmur, but resonance on percussion will convince us that the lung is not hepatized.

When the air vesicles and parenchyma generally become involved by inflammation, then pneumonia is established, a much more critical disease than the one just described. - There are several varieties of pneumonia, named according to the portion of the lung affected; they are lobar, lobular and double pneumonia, when the pleura is implicated, it is termed pleuro-pneumonia. - In acute pneumonia there are three well marked stages: - 1<sup>st</sup> that of congestion, 2<sup>nd</sup> hepatization, and 3<sup>rd</sup> suppuration, - This disease is usually ushered in by a chill, followed by febrile excitement, in the mean time there is difficult-breathing and pain in the back and side, sometimes these symptoms are preceded by uneasiness, lassitude and slight fever. When the disease is fully developed there

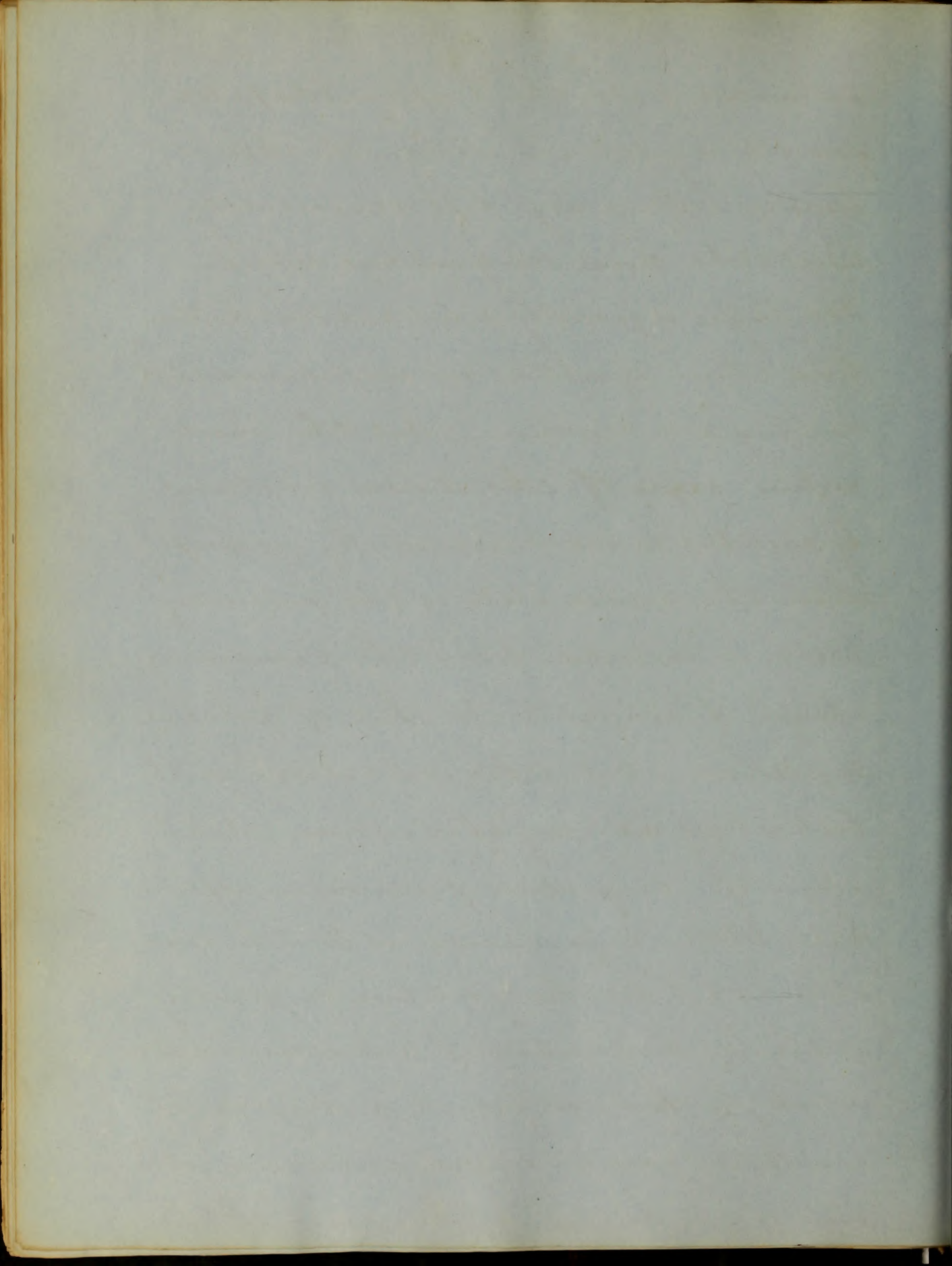


viscid mucus is expectorated and after a while it becomes tinged with blood and becomes more so as the disease advances, until it attains to the appearance of rusty sputa, which is so characteristic of the disease. The sputa adheres tenaciously to the vessel which contains it, when turned up. It is also very easily distinguished from that of bronchitis which is often streaked with blood. This disease is sometimes complicated with Catarrh, which may be known by the expectoration of a frothy transparent sputa with the rusty. When the sputa assumes the colour of liquorice solution it is an unfavorable symptom. A fetid odor of the sputa indicates gangrene of the lungs. Fever always accompanies inflammation of the lungs, it varies considerably in degree, sometimes mild and at other times severe, ~~and~~ is generally attended with exacerbations, which occur towards evening with



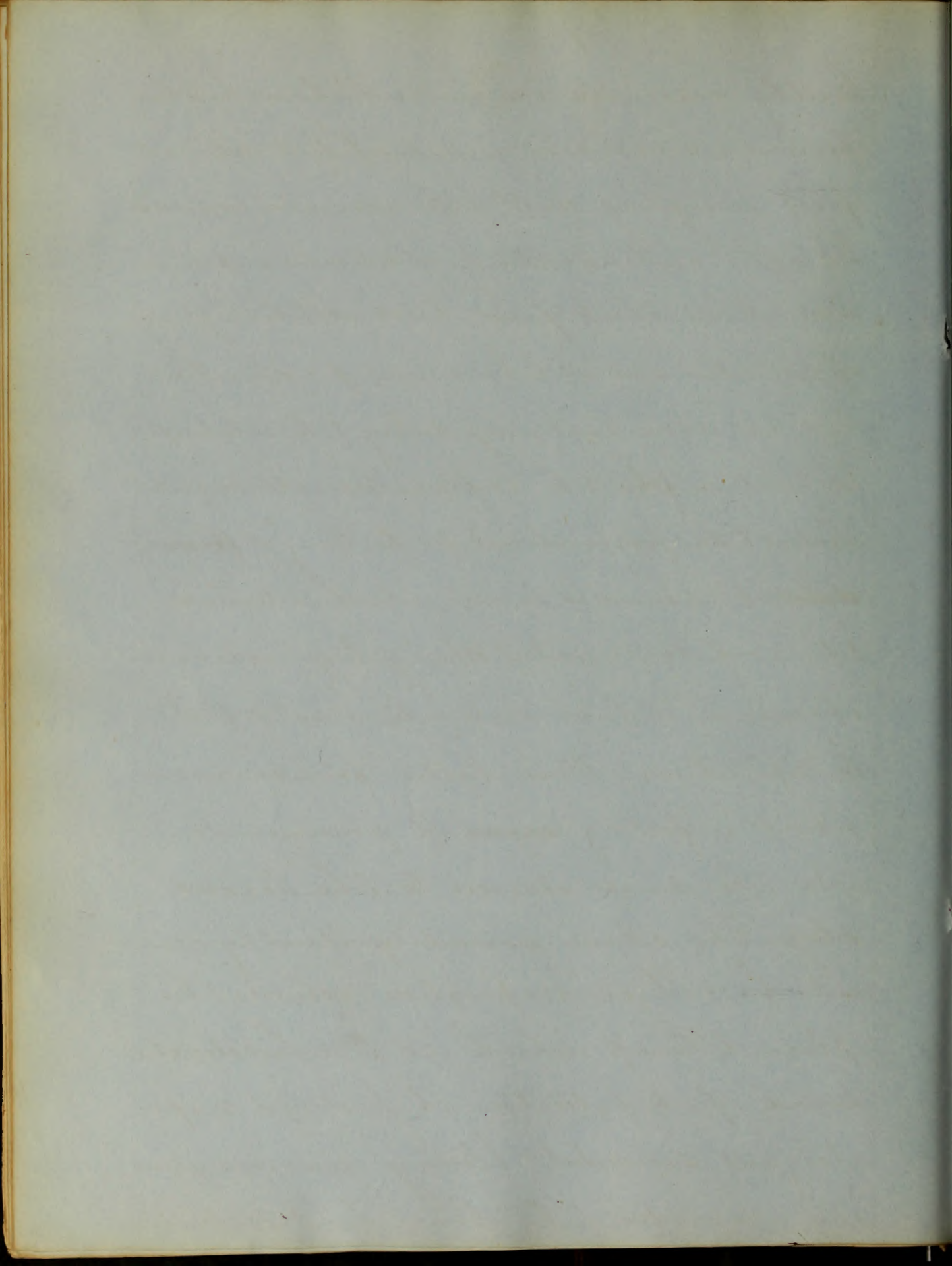
an increase of all the symptoms, the pulse generally very full and strong. - The skin is usually hot and dry but occasionally moist, & the urine scanty and high colored.

The tongue is generally moist and coated. - Some times these symptoms are accompanied with vomiting and diarrhoea. - But the most certain signs of this disease are obtained by auscultation and percussion. - by means of these the precise state of the pulmonary tissue is indicated, from the commencing stage of congestion to that of purulent infiltration, but the indications in the last stage are very obscure. - In the stage of congestion percussion affords but little information as to the condition of the lungs, there is generally a slight diminution of resonance but not enough to form a ground of diagnosis, but auscultation gives us decided evidence as to the state of the lungs, in the place of the

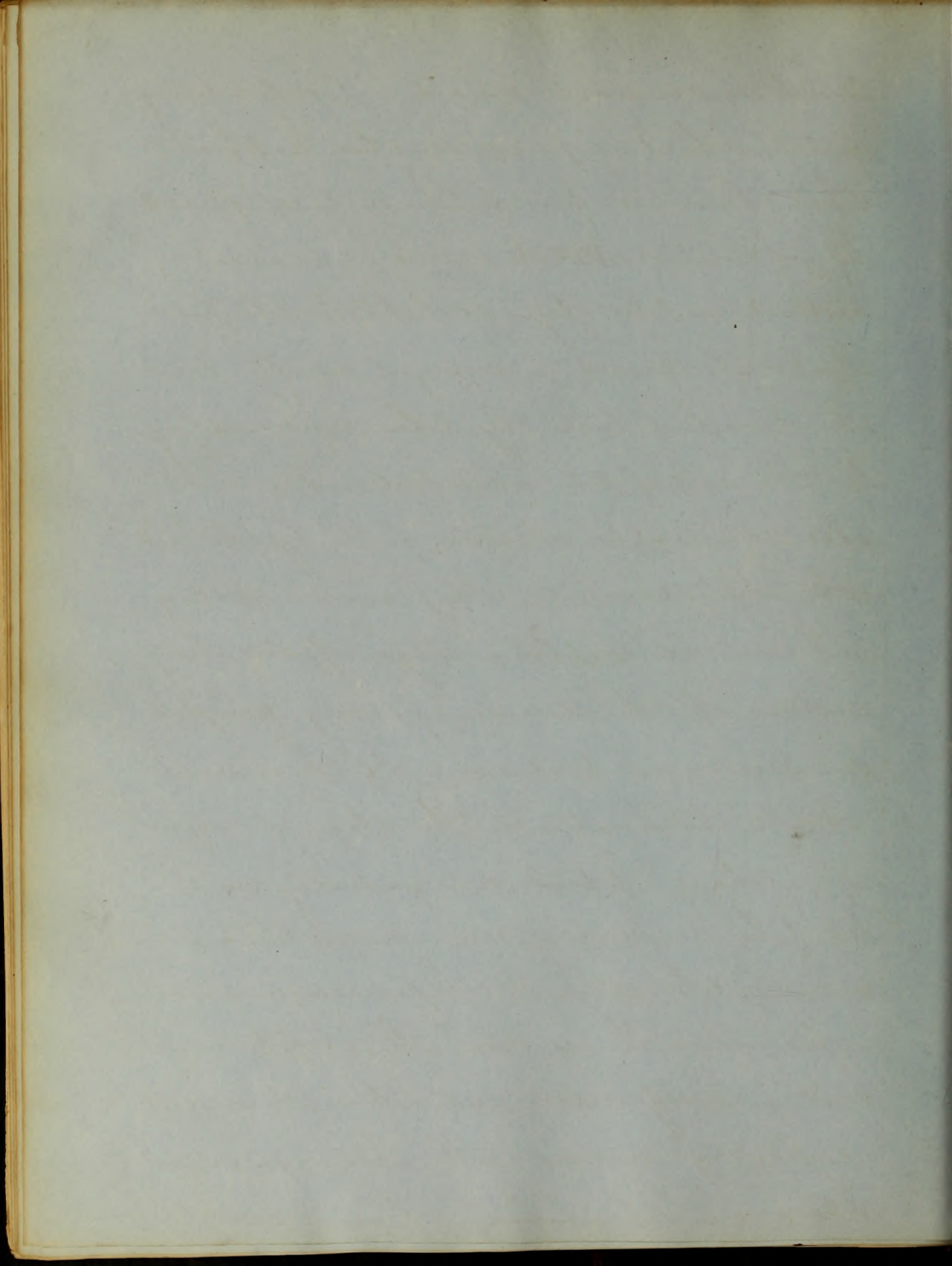




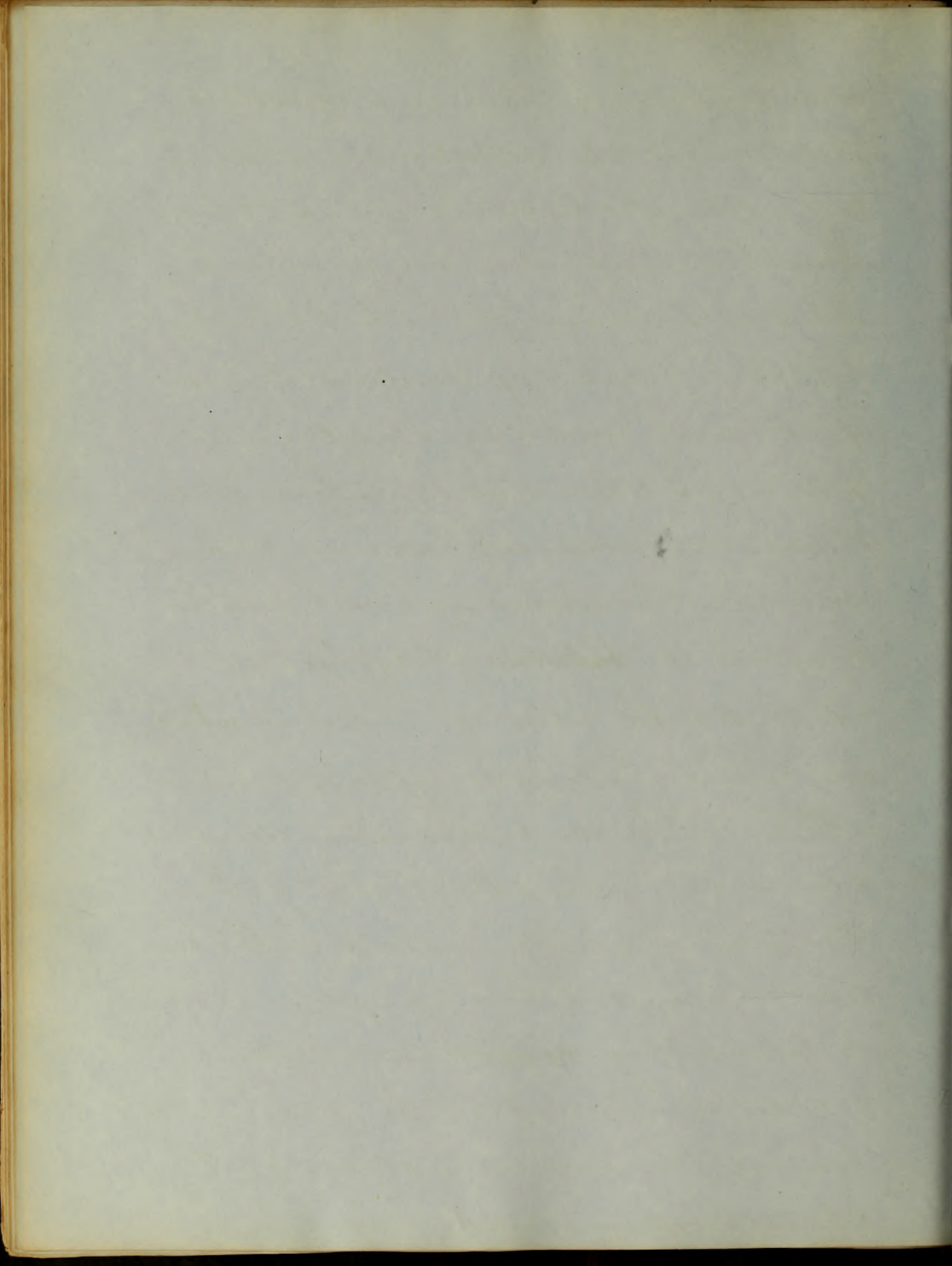
healthy vesicular murmur which we have been hearing, we now hear a suberipitant rale, at first mingling with the vesicular murmur but after awhile entirely obliterates and supersedes it. It is at first heard at the beginning of inspiration and at the close of expiration but it soon continues during the whole of respiration. As the inflammation extends and involves the parenchyma of the lung, a ~~finer~~ staccate sound is heard, which is termed the crepitant-rale. When these rales are obscure, a full inspiration will often develop them. These latter sounds are considered unfailing signs of pneumonia. As the disease advances to the second stage the above sounds gradually cease and bronchial respiration resumes the place thereof, which is a characteristic sound of hepatization. A prolonged respiratory and somewhat blowing murmur generally precedes the bronchial respiration.



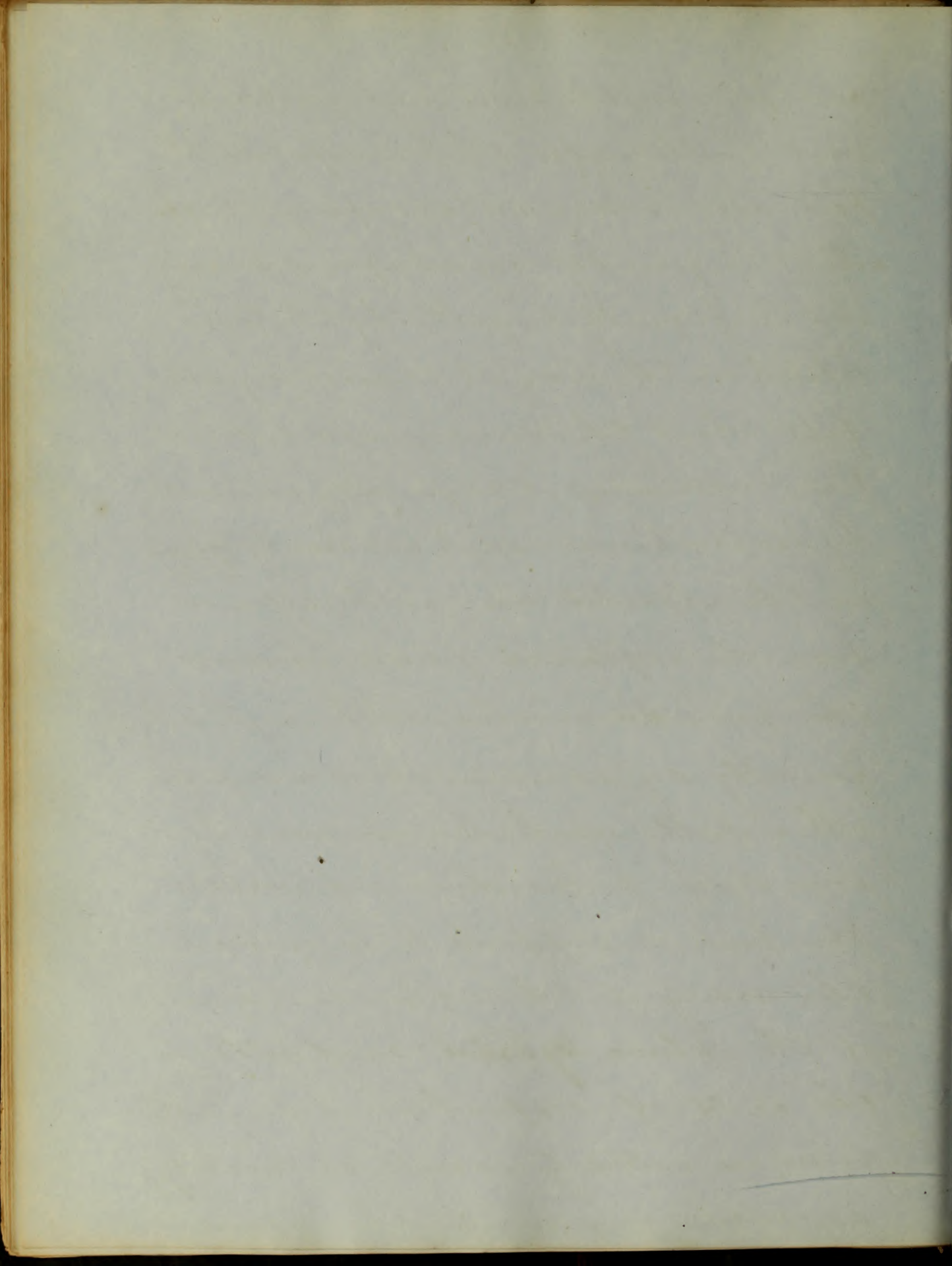
Sometimes no sound is heard, but only a heaving of the chest is perceived, - this happens when the lower part of the lungs is affected by inflammation. Vocal resonance is also very distinct in this stage, so that when the patient speaks the sound is conveyed directly from the bronchial tubes by the condensed lung to the ear of the auscultator, - There is also considerable vibration felt by the hand when applied while the person is speaking. - Percussion in this stage affords strong evidence of the disease, affording complete dulness or even flatness, - If the disease should be arrested in the stage of congestion, the crepitant rale gradually ceases and the respiratory murmur resumes its place, and in the stage of hepatisation, if the inflammation be resolved, the crepitant rale will gradually return and then the natural respiratory murmur with resonance on percussion, - The third stage presents the



same symptoms as the second, viz. dullness on  
 percussion and the respiratory sound, but the  
 superintention of the mucus rale upon the  
 bronchial respiration may sometimes lead  
 to the suspicion that the third stage  
 has been formed. — If an abscess forms and  
 if the cavity contain liquid, gurgling will be  
 produced, if there is no liquid, there will be  
 cavernous respiration, and resonance of the  
 voice. — Sometimes we meet with the  
 symptoms of bilious or typhoid fever  
 combined with those of pneumonia, which  
 are termed bilious or typhoid pneumonia.  
 — The next inflammatory stage that  
 claims our notice, though not of the  
 lungs, is so closely connected with them,  
 and some of their symptoms so close-  
 ly resembling, might be mistaken by  
 a careless observer, is the investing mem-  
 =brane of the lungs, the pleura. — The  
 characteristic symptoms of pleurisy



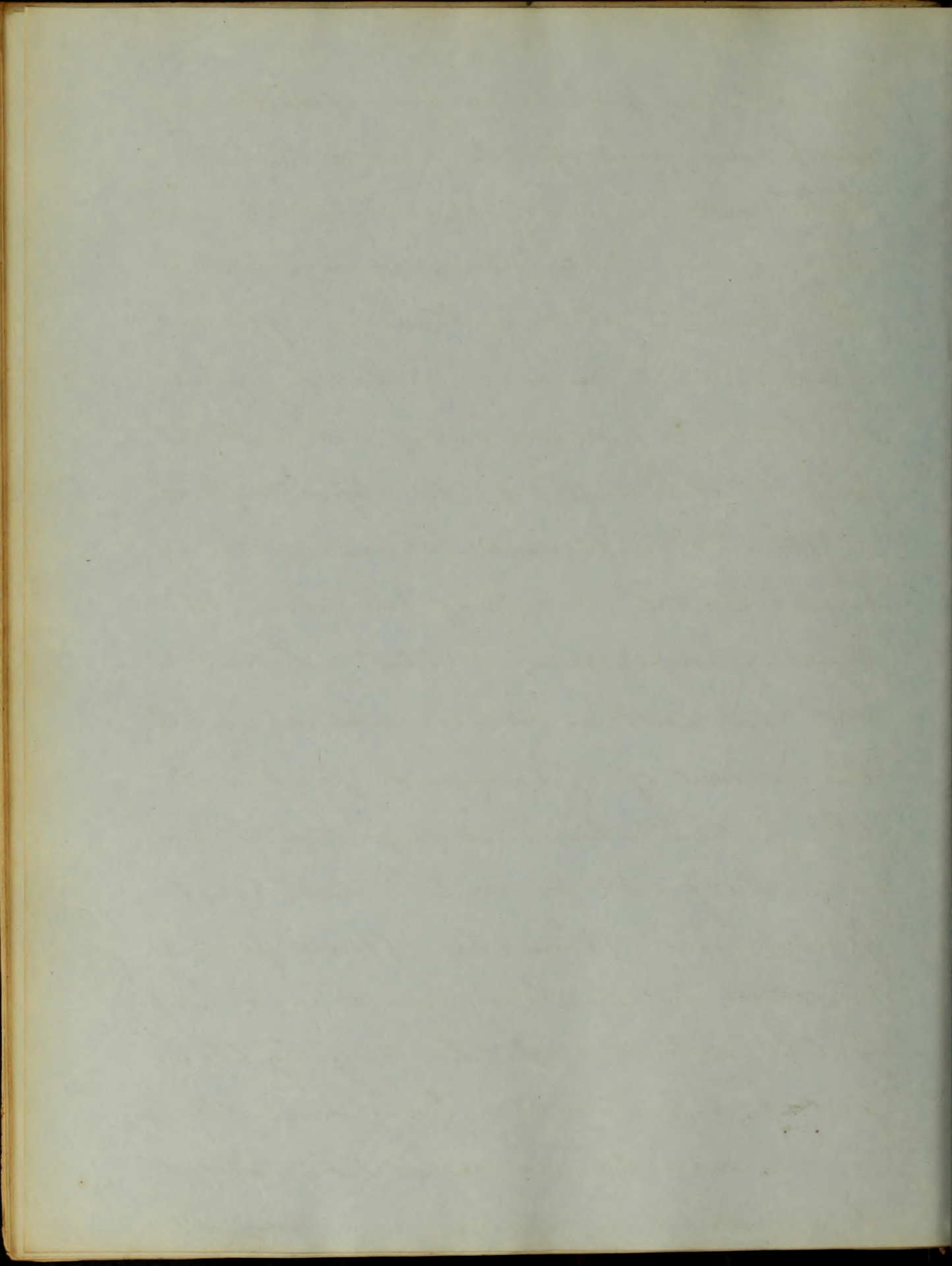
are pain in the side, cough, quick and short breathing, also chill and fever. The pain may or may not accompany the chill, it is generally very sharp and piercing, and is frequently designated by the term "stitch in the side", it is most frequently felt about the mammary region but some times elsewhere, it is generally increased by inspiration or cough and also by laying on the affected side, - as the effusion from the inflamed pleura increases the pain diminishes. - The cough is generally dry, sometimes it is accompanied with a frothy expectoration occasioned by some degree of bronchial inflammation. - The pain is supposed to be caused by the rubbing of the inflamed surfaces of the pleura ~~against~~ each other in the acts of respiration, - it frequently varies in intensity as well as locality, sometimes very acute, then again



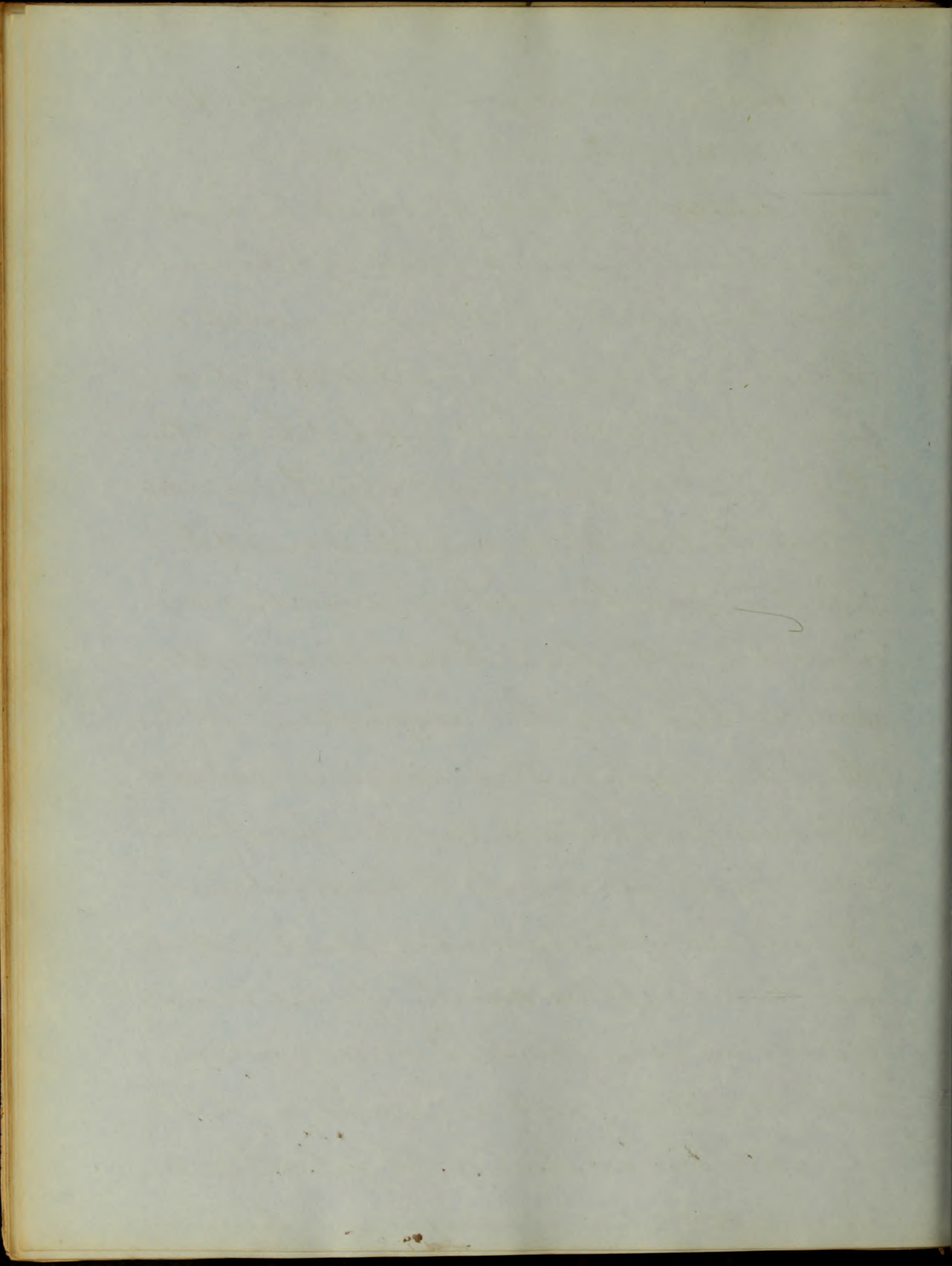


moderate or perhaps no pain at all, It may occupy any part of the pleura whatever but most frequently about or below the mammary region. — The pleura may return to its healthy state without any effusion whatever. such cases are termed dry pleurisy but it is generally accompanied with the perfect adhesion of the opposite pleura.

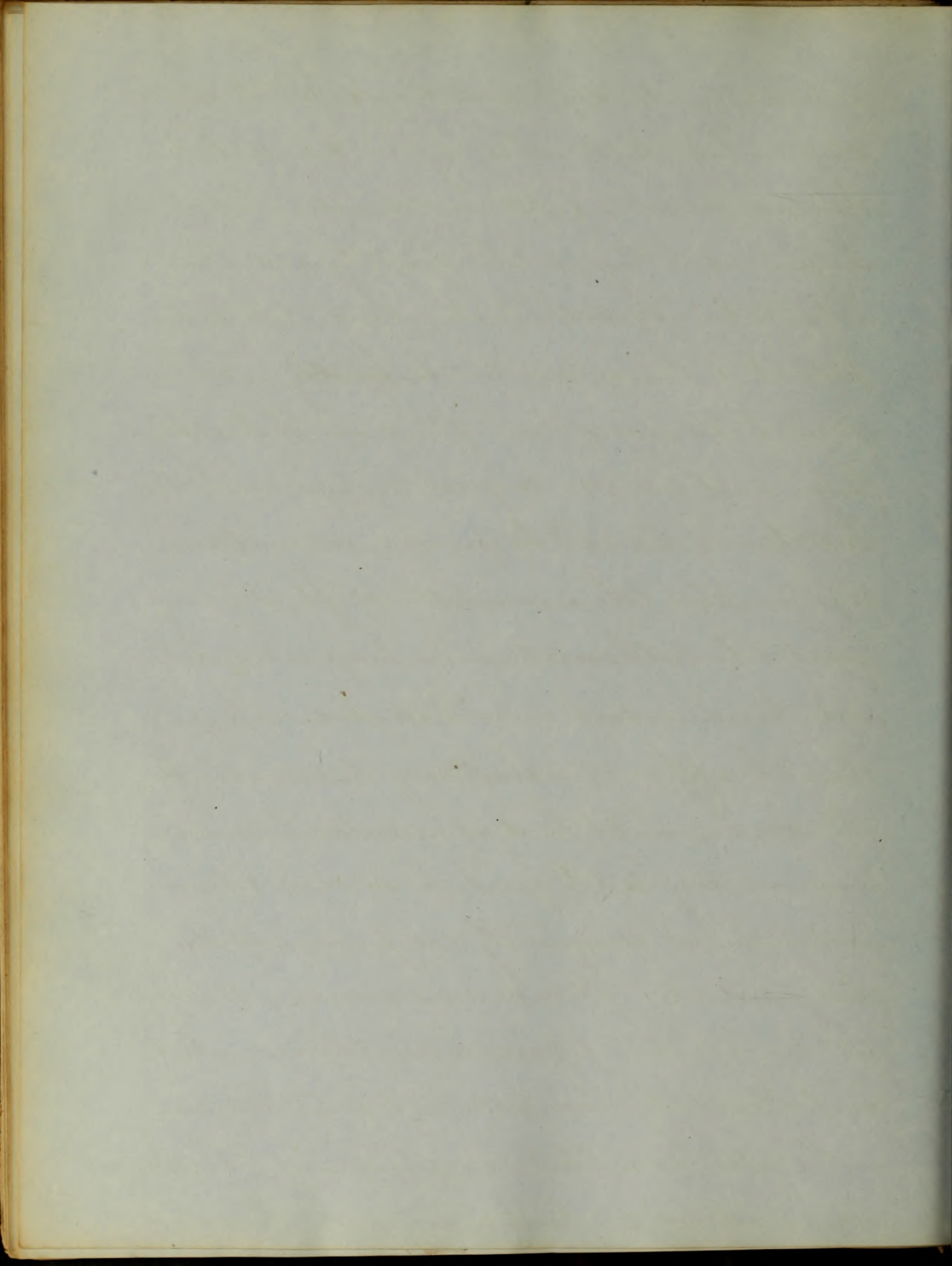
When the inflammation terminates by effusion into the cavity of the pleura, other signs of importance exhibit themselves. — we have dullness on percussion, varying with the amount of effusion and position of the patient, which is important in distinguishing it from the dullness of pneumonia. — When the effused fluid is augmented to such a degree as to hinder the distention of the lung by the ingress of air, then we bring auscultation to our aid. — If we cause the patient to speak, broncophony is conveyed to



our ear, or most frequently a modified form of that - argophony, which is a peculiar quivering ~~sound~~ of the voice, caused by its passage through the fluid instead of the condensed lung alone, but these sounds run into each other by such regular gradation that it is frequently difficult to distinguish between them, but when the bronchial tubes become compressed by the fluid so as to prevent their vibration, pure broncophony is heard. Whenever we hear the bronchial voice or argophony we also hear bronchial respiration, but when the plural cavity becomes so much distended as to render percussion dull over the whole affected side, these sounds cease to be heard, but on the opposite side we hear increased or puerile respiration, and the hand applied ~~over~~ the affected side, will indicate an entire absence of vibratory motion, while it will be greatly augmented on the healthy side. - The decubitus of the patient is also an important item in diagnosing this disease

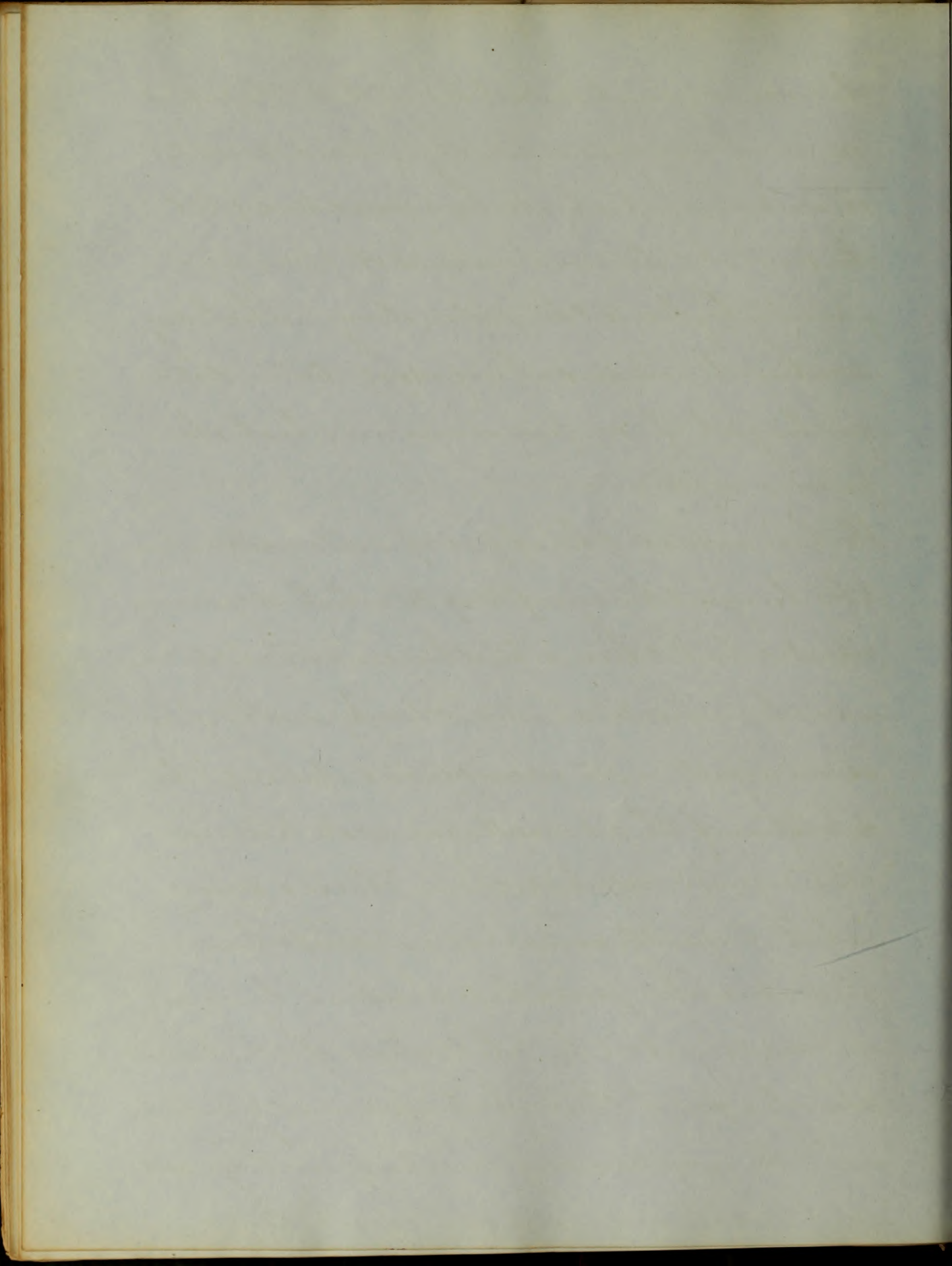


especially its different stages. In the early stage while the pleura is inflamed and the lancinating pain is felt in the side, the patient is inclined to lay on the healthy side, but when the effused fluid accumulates, the patient then inclines to the ~~effused~~ <sup>affected</sup> side, because the pressure of the fluid on the healthy lung would give rise to great dyspnoea and distress and there is also at this period an entire absence of pain. - When the accumulation of fluid is very great the intercostal spaces bulge out and the side becomes much more distended and larger than the opposite, which may be ascertained by measurement; the dyspnoea also becomes excessive owing to the great pressure on the mediastinum and consequently compression of the lungs and it often becomes necessary to resort to the operation of paracentesis thoracis which is followed by immediate relief to the patient, - this state constitutes empyema - if the fluid is absorbed, the diseased side frequently



becomes very much contracted so that the patient on recovery maintains a laterally inclined position in walking. — I should have mentioned that the fever at the commencement of pleurisy is generally high and the pulse strong which may sometimes be considered an important item in distinguishing it from pneumonia in which the pulse is softer.

We have noticed the effect of inflammation upon the lungs. the symptoms to which it gives rise, etc., but there is another disease which invades the vesicular structure, though generally of less serious import. in its uncomplicated state, viz. the dilatation of the air vesicles and areola tissue of that organ. or emphisema. — This is a disease which frequently occurs in early childhood, and also at a later period, and considered by some as hereditary. In the early stages of the disease when only a few of these vessels are moderately distended, the symptoms may be entirely wanting, and as it is only discovered after death, but as

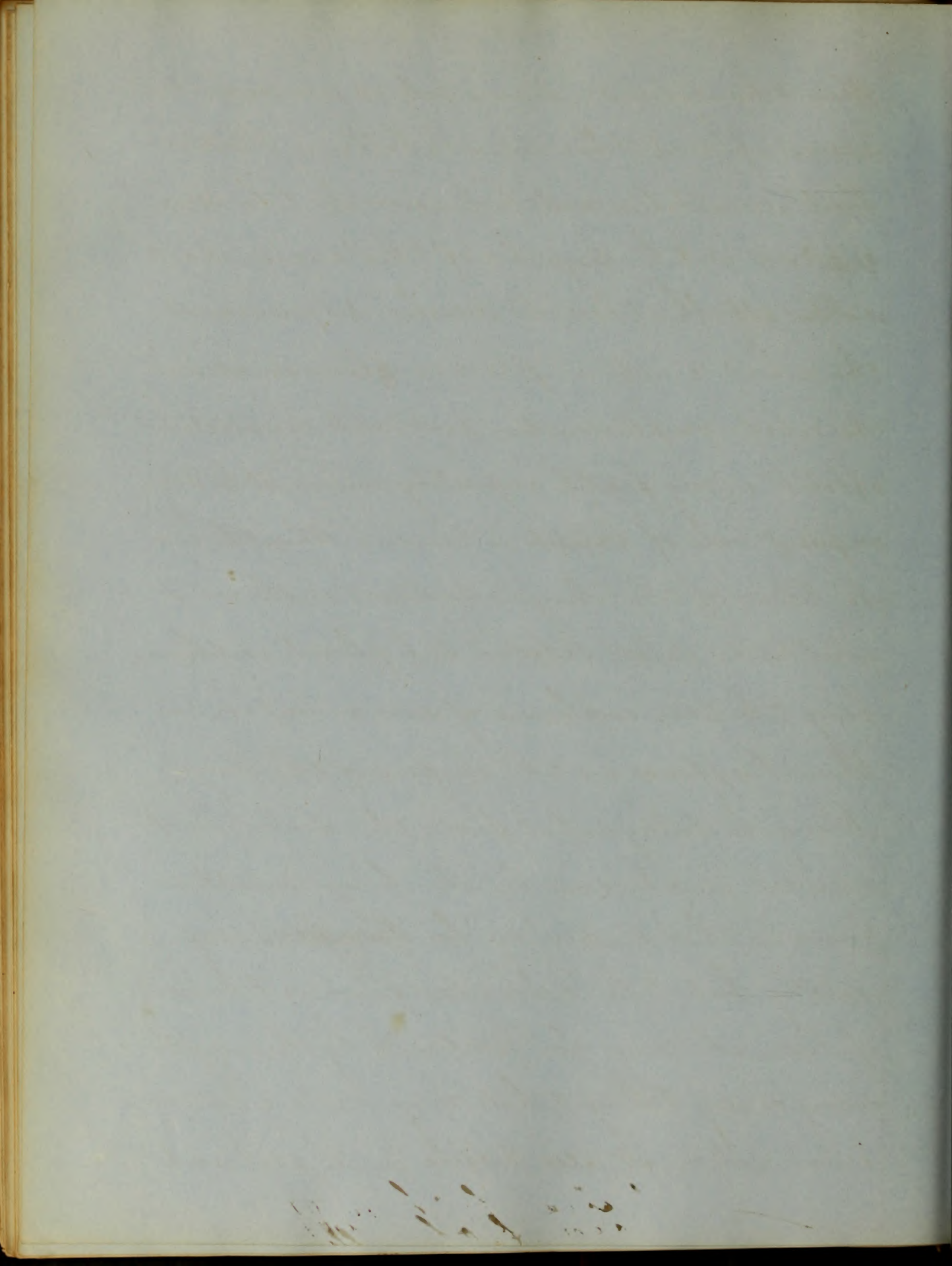




the disease advances, which it is likely to do, with  
 the age of the individual, symptoms distinctly exhibit  
 themselves, - dyspnoea, occurs, at first slight, but  
 afterwards to a very great degree so that the patient  
 is obliged to sit up on account of the pres-  
 -sure of the abdominal viscera upon the diaphragm,  
 and this accounts for the more frequent  
 occurrence of extreme dyspnoea during the night,  
 the patient being in a recumbent posture, there  
 is also considerable lividity of the countenance during  
 these extreme cases. - The lungs at this stage  
 are very much distended so that we are enabled to  
 obtain greater evidence, as to the nature of the dis-  
 -ease, from the physical than from the gener-  
 -al signs. - The thorax becomes much distended,  
 so that it obtains a cylindrical shape and is  
 much more rounded than usual both in  
 front and posteriorly, the intercostal spaces  
 are widened, though not bulged out. the infra  
 and supra-clavicular fossae become filled up,

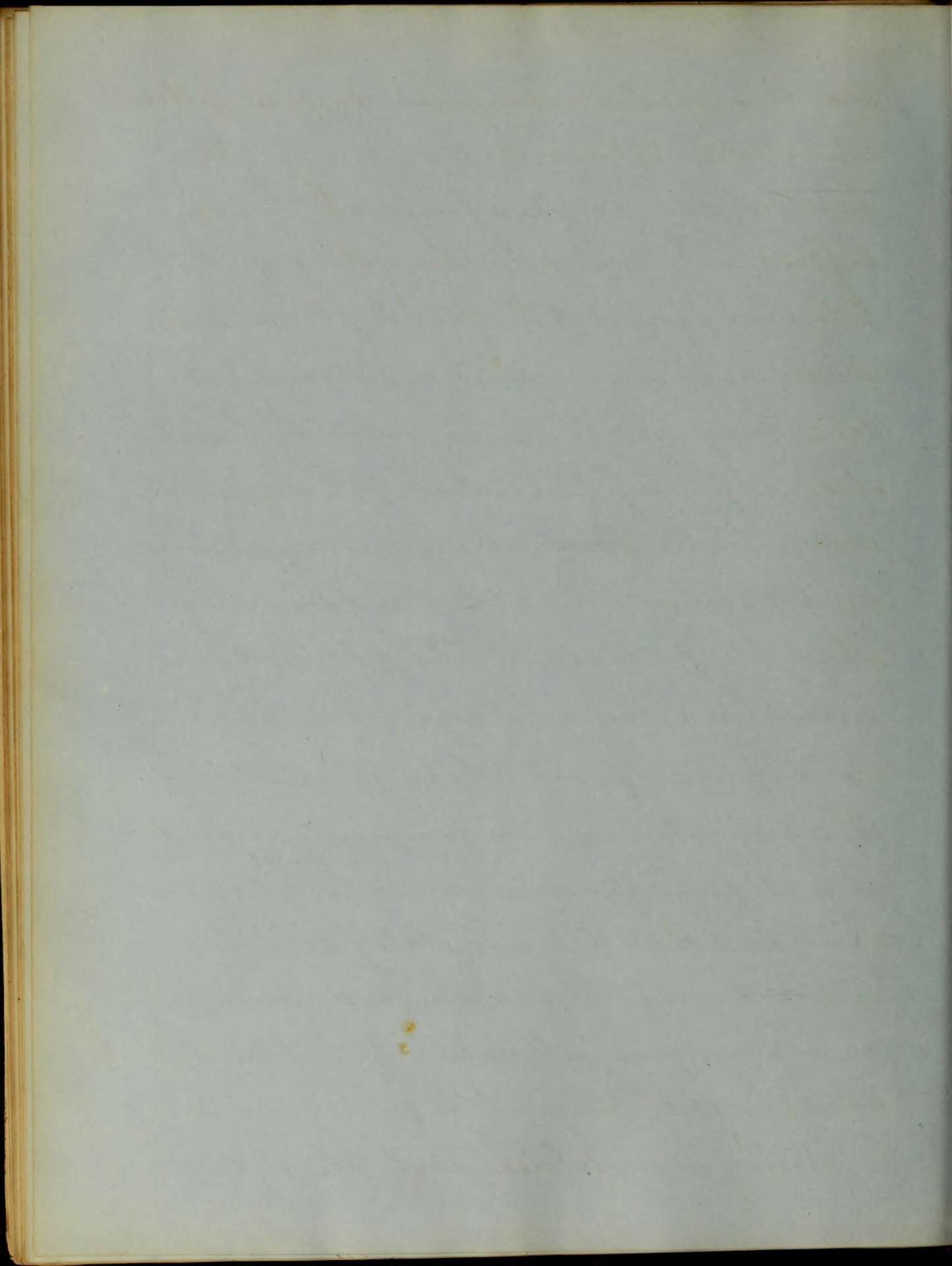


When this distention occurs only on one side, it is more apparent than when on both. — But But auscultation and percussion are the signa non in the diagnosis of this disease as well as ~~the~~ all other thoracic diseases. — In percussion the chest emits a peculiar clear sound over the whole emphysematous part, while auscultation exhibits a very feeble respiratory murmur & the dry crepitant rale of catarrh is heard. — When the areolar tissue of the lung is distended with air, it constitutes inter lobos or sub pleural emphysema being the true emphysema of more ancient writers. When it appears on the surface of the lungs, it may be distinguished from the distention of vesicular emphysema by its being movable on pressure. This kind may be ~~produced~~ produced immediately but the vesicular form is the work of time. — it may be produced by heavy straining or any thing that may cause great muscular action. It also differs in its seat and



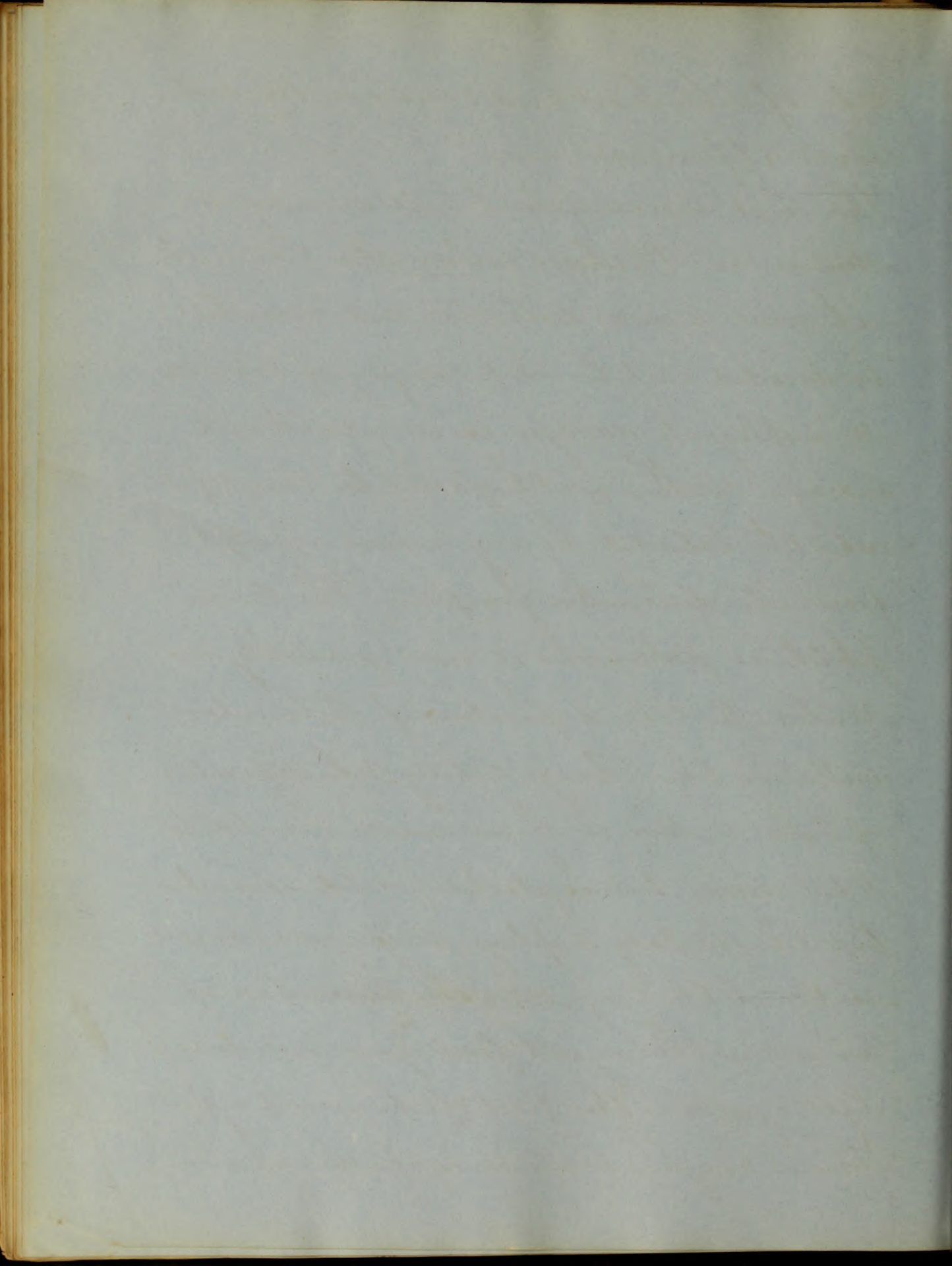
may be suspected when great dyspnoea follows immediately after violent straining. The friction sound is also frequently heard, supposed to be caused by the rubbing of the pulmonary against the costal pleura, and according to some authors a subcrepitant rale may also be heard, caused by bubbles of air forcing themselves in the cellular tissue. This ~~form~~ is much more manageable than the other and frequently gets well of itself. — The physical signs of emphysema in children are considered very different from those of adults.

The respiratory murmur is generally aggregated, and percussion remains about the same as in health. — The circulatory cellular tissue having become much diminished there is a consequent interruption of the flow of blood through the lungs and this is likely to cause hypertrophy and dilatation of the right



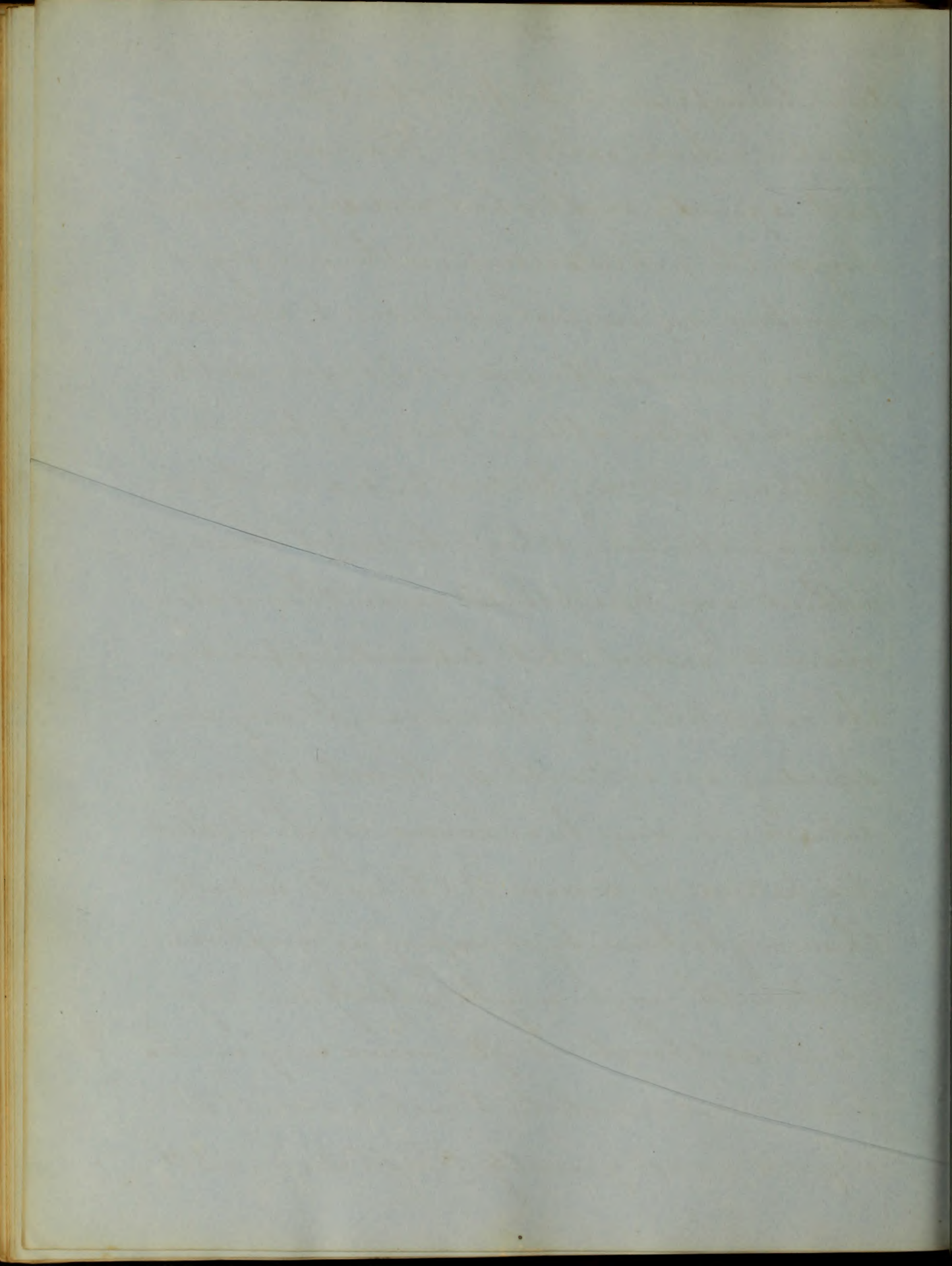
side of the heart and consequently dropsical effusions—

The next disease which will occupy our attention is Phthisis pulmonalis. than which none is more destructive and more to be dreaded in the whole category of diseases. It displays its ravages in every rank and age, neither are the fair, the beautiful and the talented by any means exempt from its destructive grasp. The term phthisis pulmonalis is now generally restricted to the deposition of tubercular matter in the lungs, though the deposition of this matter is by no means limited to that organ, but may also be deposited elsewhere, but the malady displays itself more conspicuously in the lungs, than the deposition of tubercles in the lungs at first gives rise to very slight symptoms. The first of the general symptoms is cough, afterwards dyspnoea expectoration

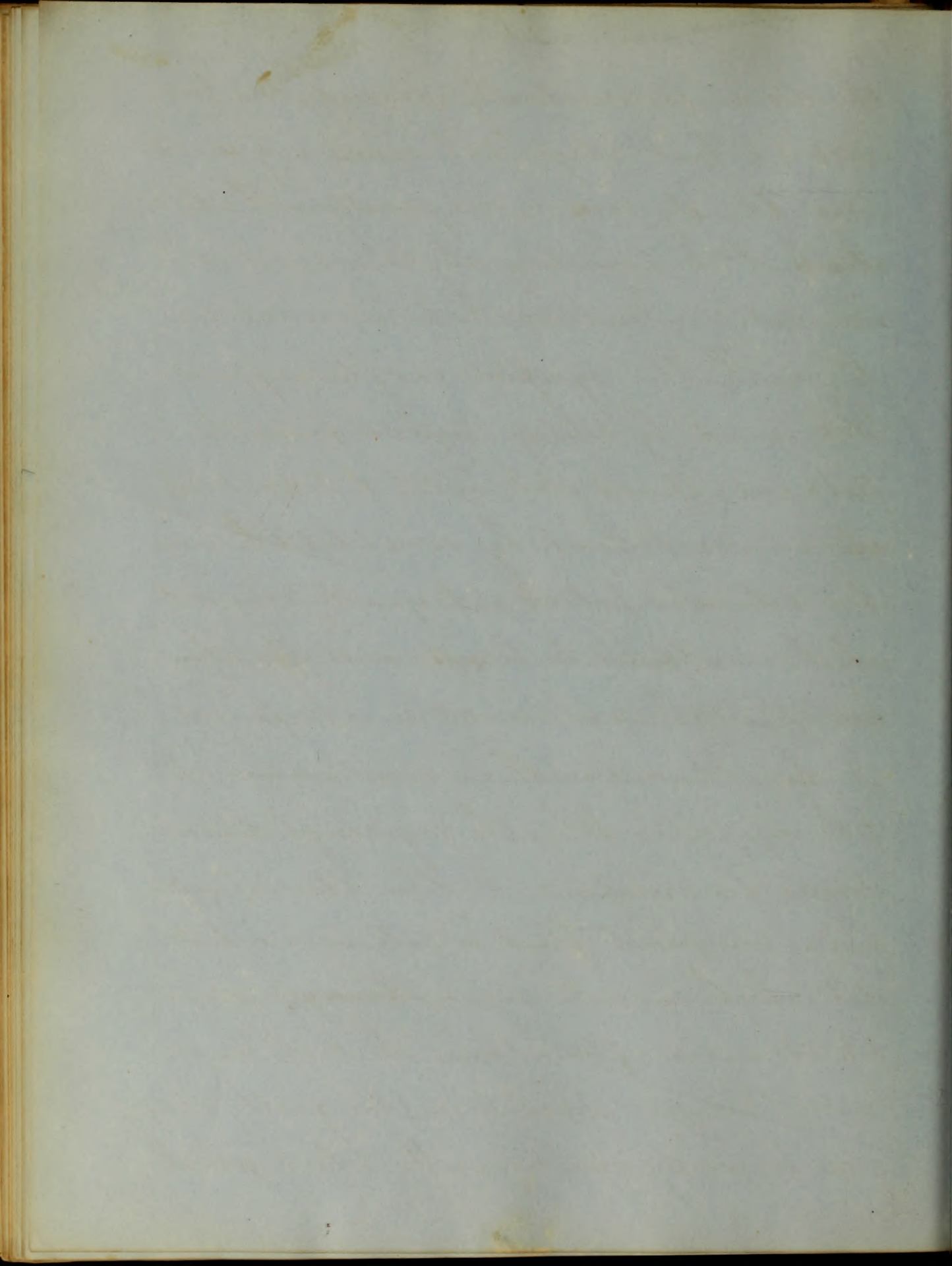




strion, haemoptysis, hectic fever, thirst, diarrhoea, an-  
 -satiety, oedema, aphthae, — The cough at-  
 -first is generally slight, short and dry and occur-  
 -ring on the patient rising in the morning, or  
 -on making any unusual exertion; it sometimes  
 -ceases in warm weather and occurs again on the  
 -approach of cold, after a time it becomes  
 -troublesome at night and tinged with mu-  
 -cus expectoration, — When the cough comes on  
 -without any perceptible cause there is strong  
 -reason to suspect that tubercular deposit is  
 -the cause, though chronic coughs may arise  
 -depending on a disordered stomach, chronic  
 -catarrh, or may be a nervous cough of chloro-  
 --tic patients, or disease of the heart; but all  
 -these may be known by accompanying symptoms, —  
 -sometimes the cough may be entirely wanting, —  
 -Dyspnoea though it often occurs early in this  
 -disease is not much to be relied on in this  
 -stage, it is not generally troublesome until

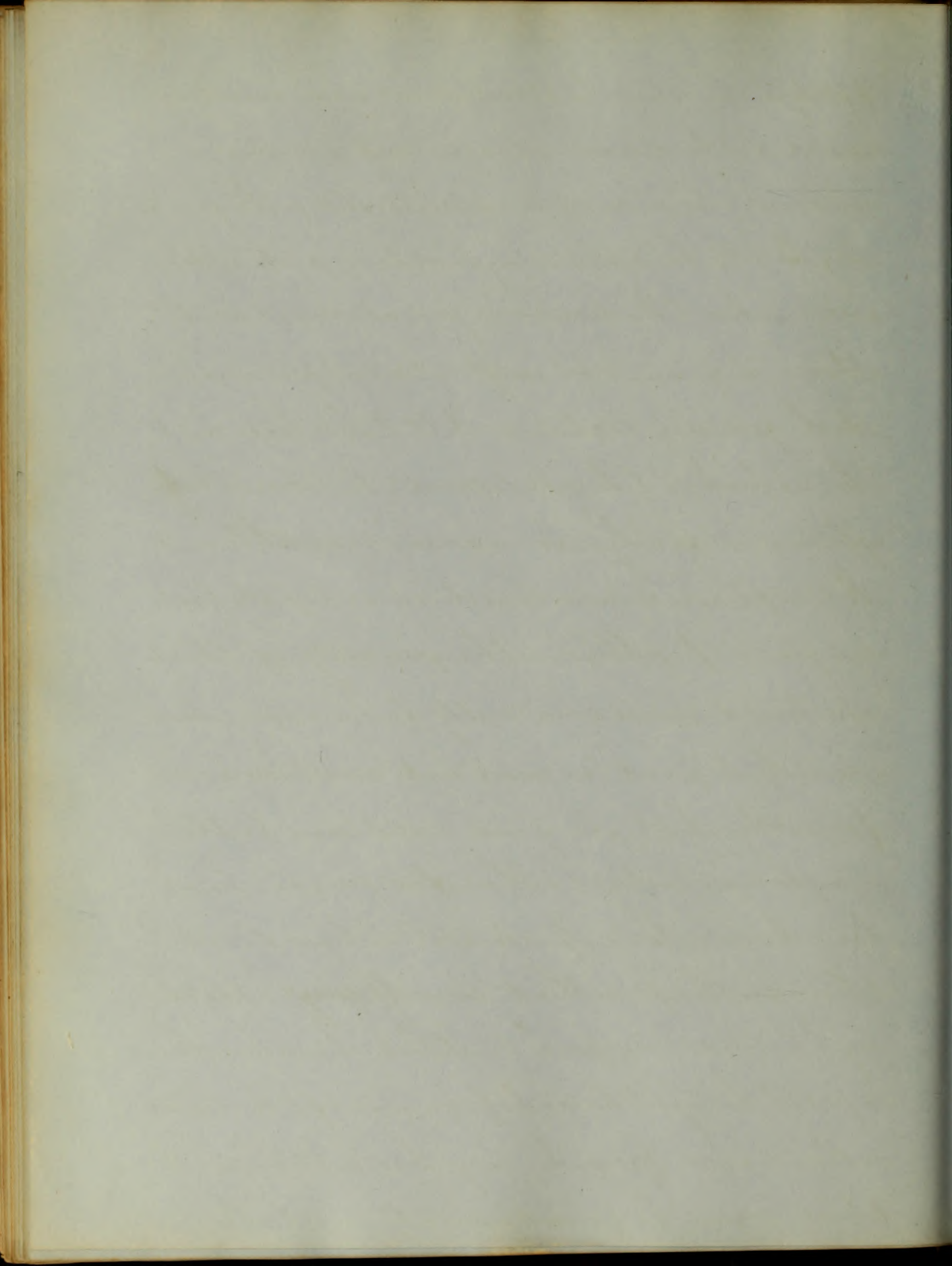


the disease is considerably advanced; but towards the last stage it becomes very distressing. The dyspnoea varies generally with the advance of the disease, being slight when it is slow but very troublesome when it is rapid in its march. This symptom is often supposed to be caused by debility, sometimes from the feeble and oppressed state of the heart's action, and is also believed by some that the lungs of a tubercular patient is frequently congested, which is supposed to be ~~the~~ <sup>the</sup> cause, for when haemoptisis occurs or venisection is performed it is attended with an amelioration of the dyspnoea. When the dry cough has continued for some time it then becomes softer and a transparent fluid or saliva is expectorated, which becomes more stringy as it advances, after a time specks of opaque matter become apparent in this frothy fluid and frequently streaked with blood, which

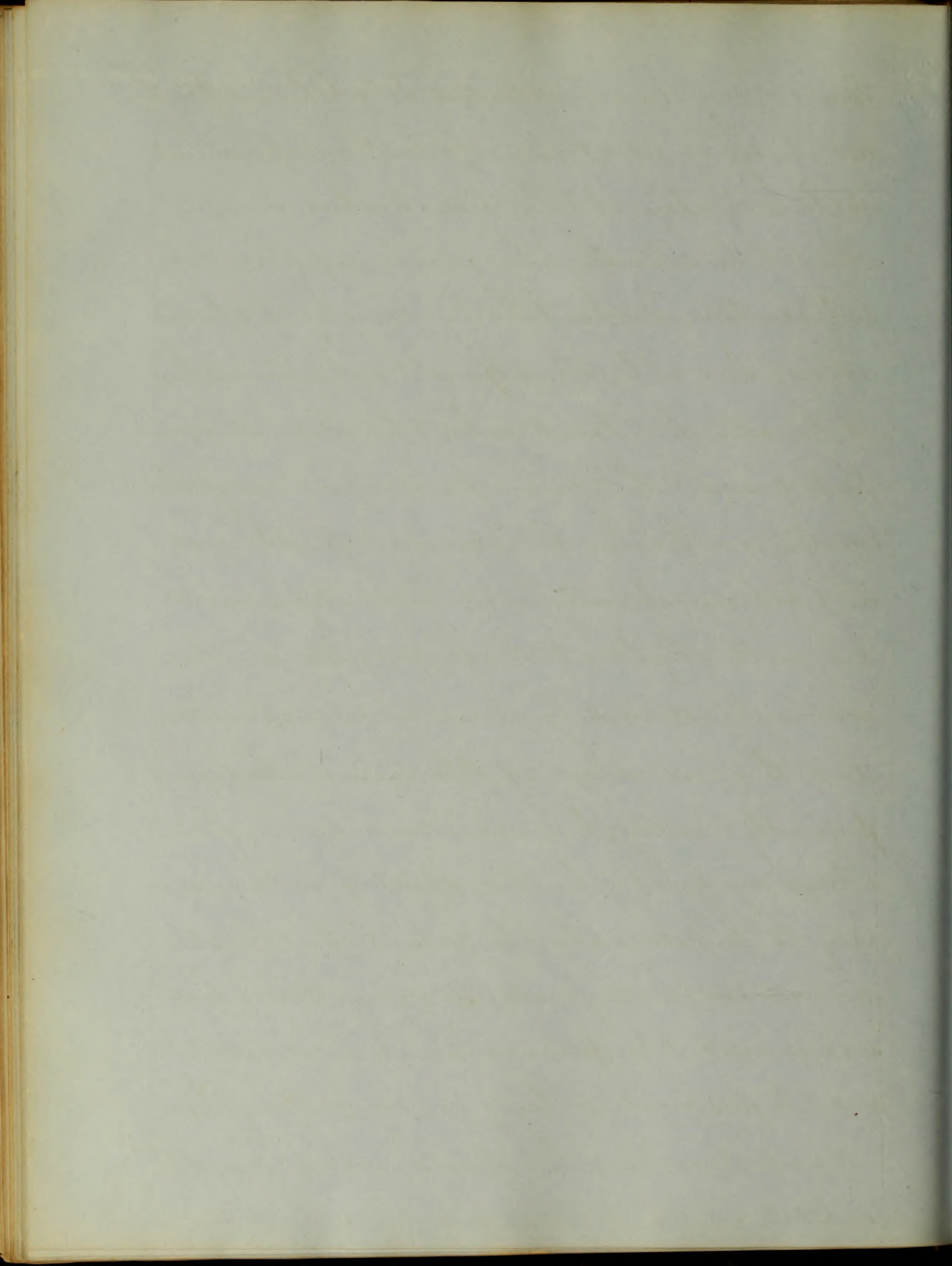


Effluvia matter becomes more and more augmented as the disease advances, and assumes a yellowish hue and is expectorated with greater ease, But the sputa again changes its appearance when the disease is far advanced and attains a grayish or wool colour appearance, which generally continues till the close, but the aspect of the sputa and the time of its appearance are by no means invariable.

Haemoptisis is now considered one of the first symptoms of phthisis. - The quantity of blood expectorated varies considerably from a very small quantity to pint or more and sometimes occurs frequently, but we find exceptions to this symptom as well as others, for persons have been known to expectorate blood from their youth up without ever ~~being~~ attacks by that disease, while others have been known to pass through the whole course of the disease without ever ~~once~~ having haemoptisis, but these may be considered only <sup>as</sup> exceptions,

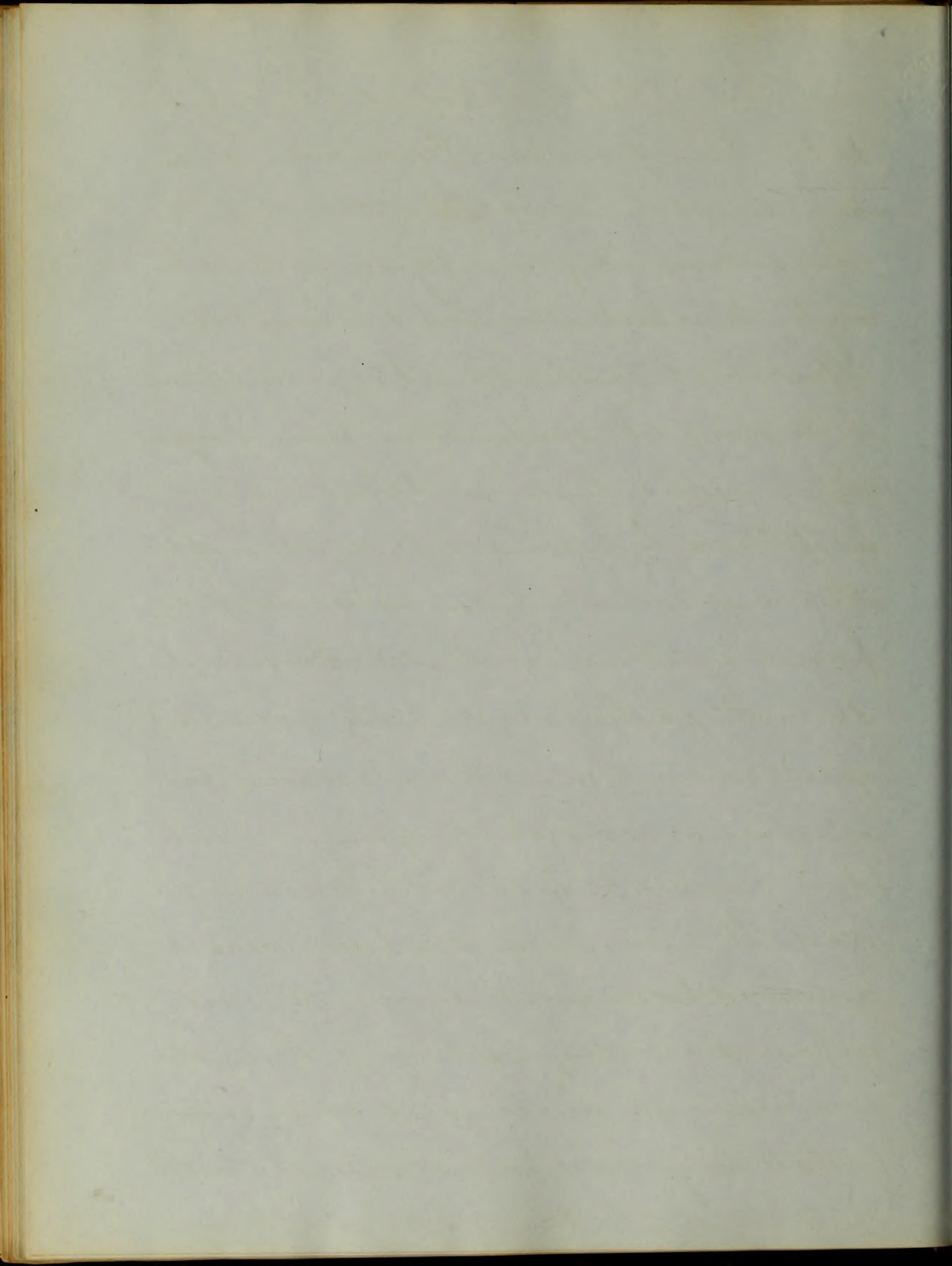


Pain is a very common attendant on phthisis, though not always considered an important symptom, but in the early stages of this disease, when it is felt about the clavicle in a person supposed to be tuberculous, or when there is cough, it should receive due attention, & Great importance should be attached to it when this disease is suspected and the more prominent symptoms <sup>are</sup> wanting, & Hectic fever, a constant attendant on phthisis especially in the latter stage, commences with slight chilliness generally in the evening followed by fever and perspiration, in the first stage of the disease this fever is frequently wanting, but sometimes occurs from the very first when it is ~~not~~ very mild as scarcely to be noticed by the patient, but in the more advanced stage all the symptoms of hectic are aggravated, the fever is much more severe, and the perspiration being so very profuse bears no proportion to the fever, and it usually exhibits itself towards morning, and so distress



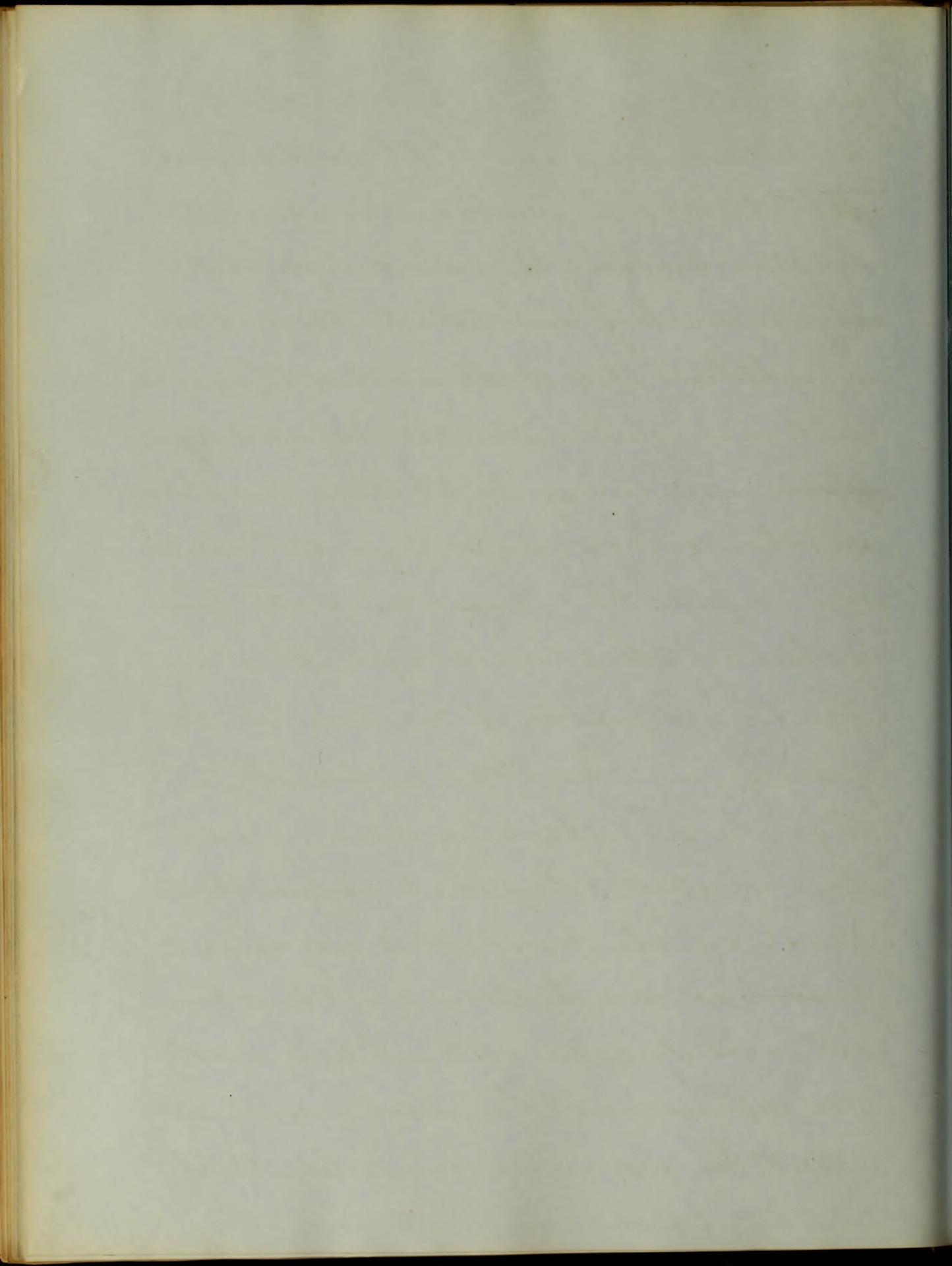


-sing is it that the patient generally dread-  
 -s the hour of sleep. - Diarrhoea is a com-  
 -mon accompaniment of the latter stage of  
 this disease, - it frequently diminishes the  
 cough and expectoration, but has very little  
 effect on the perspiration; it is generally very  
 distressing, the evacuations being frequent-  
 -ly preceded by severe abdominal pains,  
 and followed by extreme debility. - It is of <sup>but</sup> lit-  
 -tle consequence in diagnosis, unless some of the  
 primary symptoms are absent. - Persons who  
 die with phthisis are generally reduced to  
 great emaciation. - This emaciation does  
 not occur so soon in the young, but in el-  
 -derly persons it is one of the first symptom-  
 -s of the disease, when diarrhoea occurs it  
 accelerates it to a great degree. - It is only  
 important as a diagnostic symptom in obs-  
 -cure cases, when we see great emaciation  
 without any particular cause and witho-  
 -ut any of the usual signs of phthisis



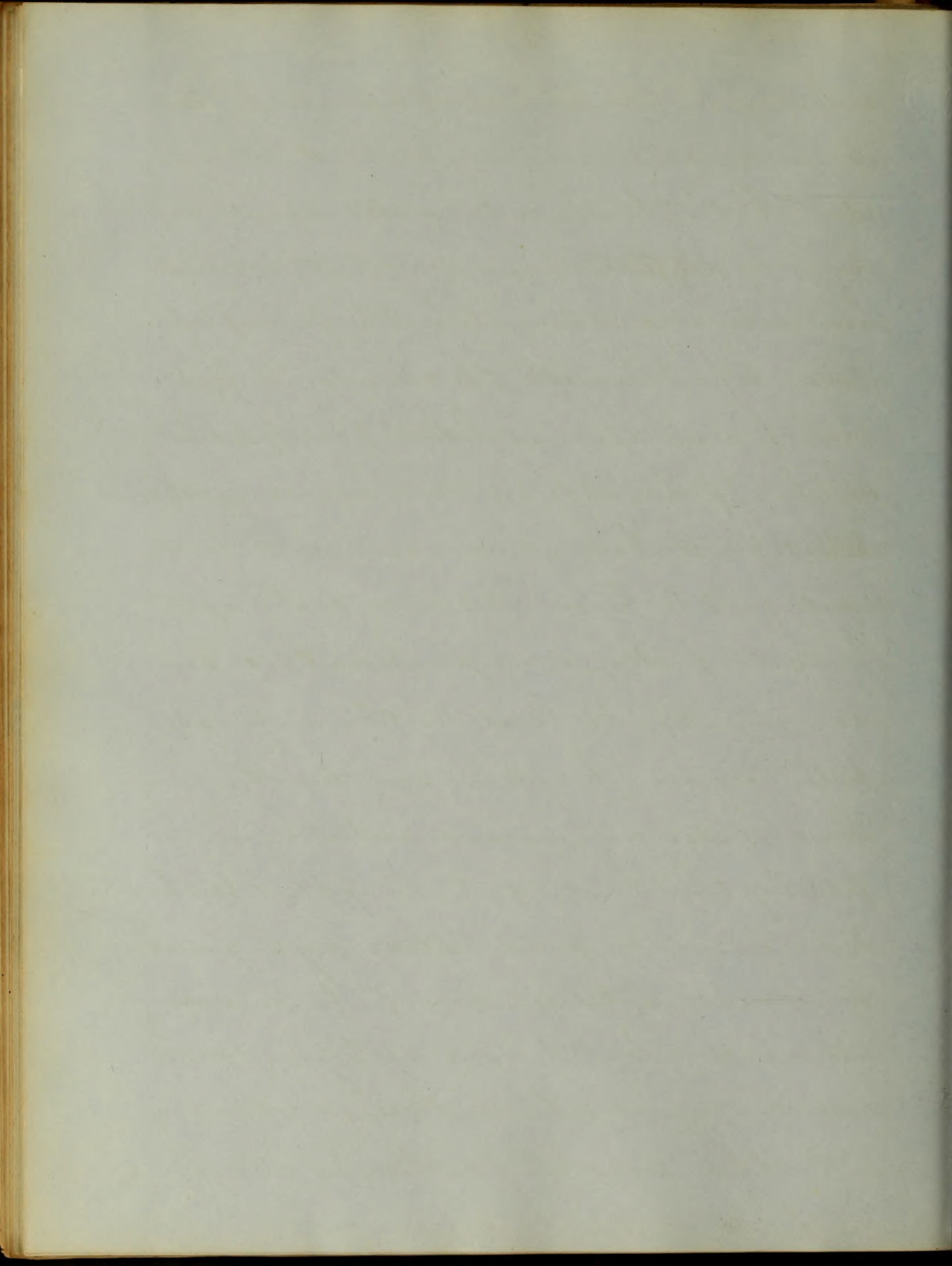
it should lead us to suspect the disease—  
 In the latter stage oedema of the ankles occurs  
 but this is of no importance as a diagnostic  
 symptom, but may be considered a prognostic  
 of an approaching dissolution. — There is also  
 an aphthous state of the mouth at this period,  
 — We have now noticed all the general signs  
 appertaining to phthisis, but there  
 are others to be considered of greater importan-  
 ce as regards the condition of the lungs  
 — these are the physical signs, —

The first deposition of tubercular matter  
 generally occurs in the upper lobe of the  
 left lung in the clavicular region. —  
 In inspecting the chest when the pa-  
 tient breathes, the affected side does not  
 become so much elevated as the other,  
 but scarcely moves at all, while the healthy  
 side expands more than usual. — If we now  
 resort to percussion immediately beneath  
 the clavicle, we obtain dullness, varying

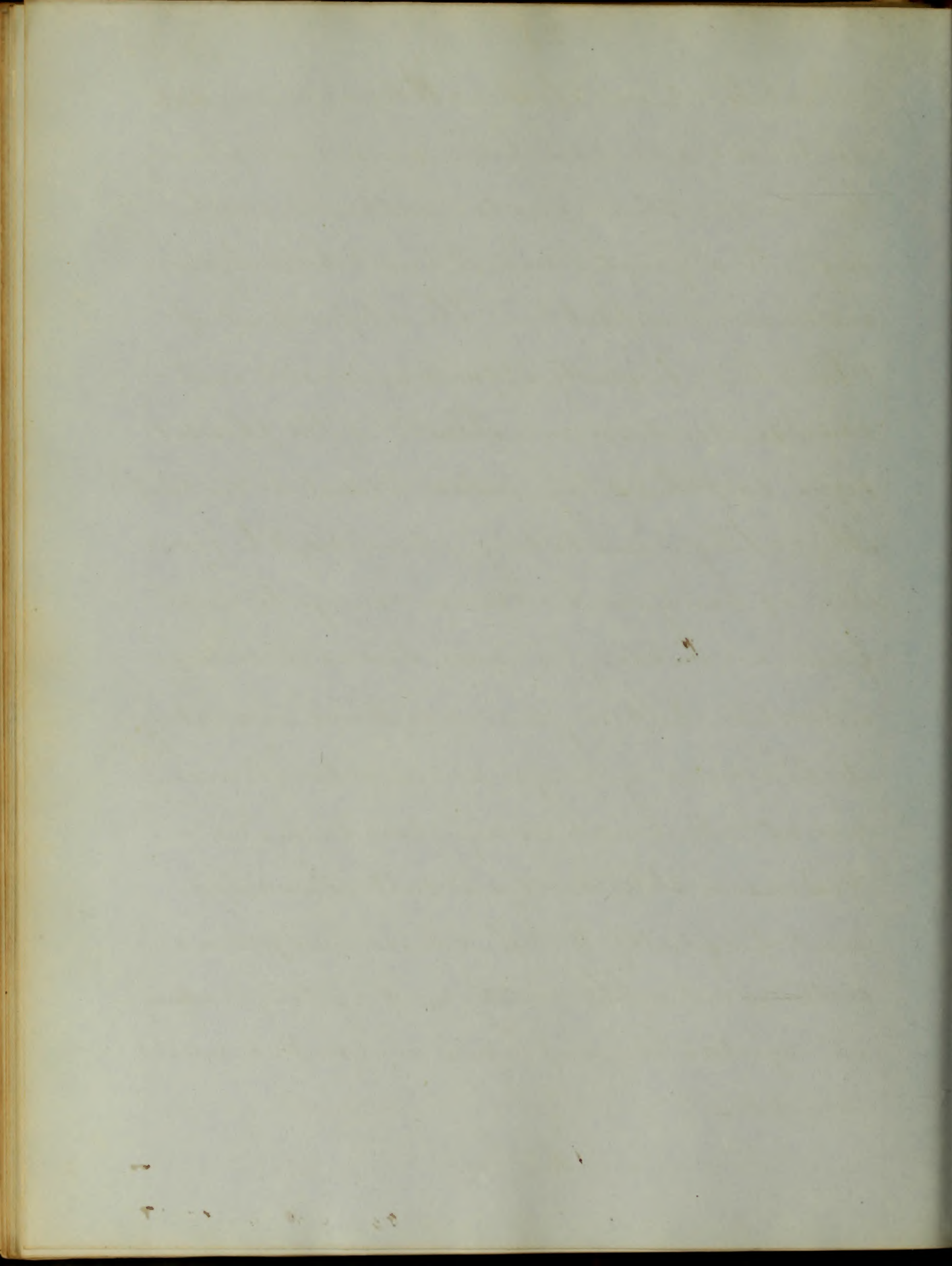


according to the amount of deposit, if there is no dullness we may be lead to conclude that there is no tubercular deposit, or if any, very ~~slight~~ in quantity;— Auscultation will also convey to us the fact of tubercular deposit beneath the clavicle, by feebleness of respiration at that point, while on the opposite side it becomes exaggerated. ~~As the~~ deposit becomes more extensive, other sounds will be heard, — viz. bronchial respiration with prolonged expiration. These sounds may also be heard in the supra-scapular region, though not so distinctly.

There is also an increased vibratory motion felt by the hand, if it be applied to the subclavicular space. — These signs generally indicate solidification of the pulmonary tissue, and when there are no <sup>other</sup> signs of pneumonia present, the evidence, in connexion with other signs of phthisis, is strongly in favor of that disease.



In the more advanced stages mucus, ~~sub~~  
 crepitant, and sometimes, sonorous rales may  
 be heard. There is also dullness in this  
 stage to a greater extent, and the vibrations  
 are more perceptible. - The upper part of  
 the chest frequently appears contracted and  
 the ribs also less movable. - The physical  
 signs in this stage also reveal to us that  
 other changes are taking place. viz, the forma-  
 tion of cavity. - auscultation conveys to us at  
 first a crackling sound, but as it enlarges  
 a peculiar bubbling sound is heard, and when  
 it becomes very large an amphoric resona-  
 nce of the voice may also be heard. -  
 Percussion still conveys a dull sound, and  
 most frequently to the close, except in some  
 instances when the cavity is very large, when  
 it yields an amphoric or cracked mittle  
 sound.





## Differential Diagnosis

Having now given the general and physical signs of pulmonary diseases, we will next revert to the differential diagnosis of those diseases,

When a physician sees a patient laboring under ~~some~~ thoracic disease, his first object is to ascertain what organ is affected and what the disease the disease under which the patient is laboring, whether it be pneumonia, pleurisy, or what, — the neglect of such knowledge might lead to serious consequences and perhaps the death of the patient,

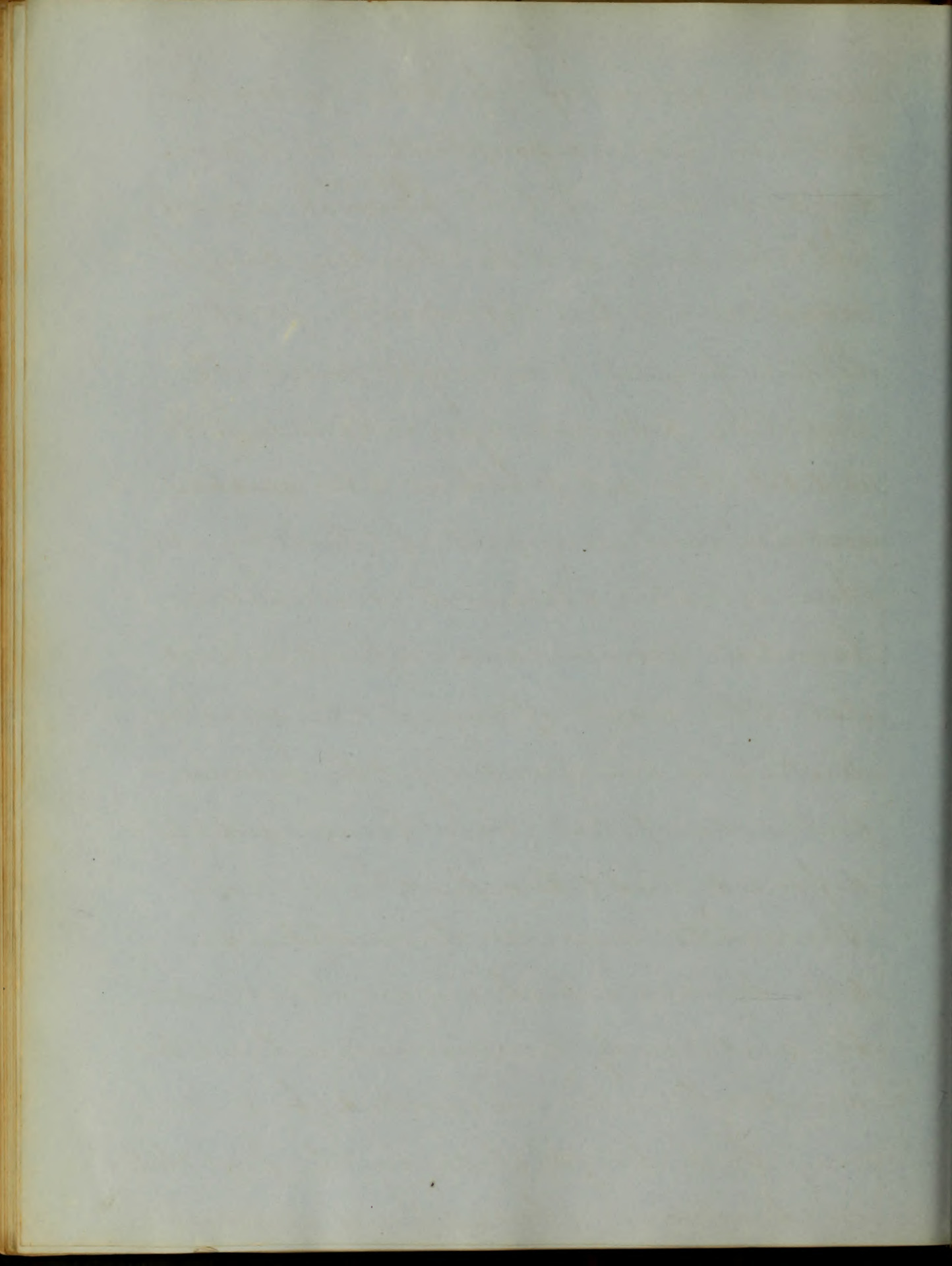
Bronchitis the first which we will notice, on account of the similitude of some of its symptoms, might sometimes be mistaken for phthisis or pneumonia, The acute form can in no instance be mistaken for phthisis, but the chronic might be erroneously recognised as that



disease on account of the close resemblance of their general symptoms. — in it are displayed most of the <sup>general</sup> physical signs of phthisis, such as the hacking cough, more or less expectoration, great emaciation, frequent pulse, night sweats, etc.

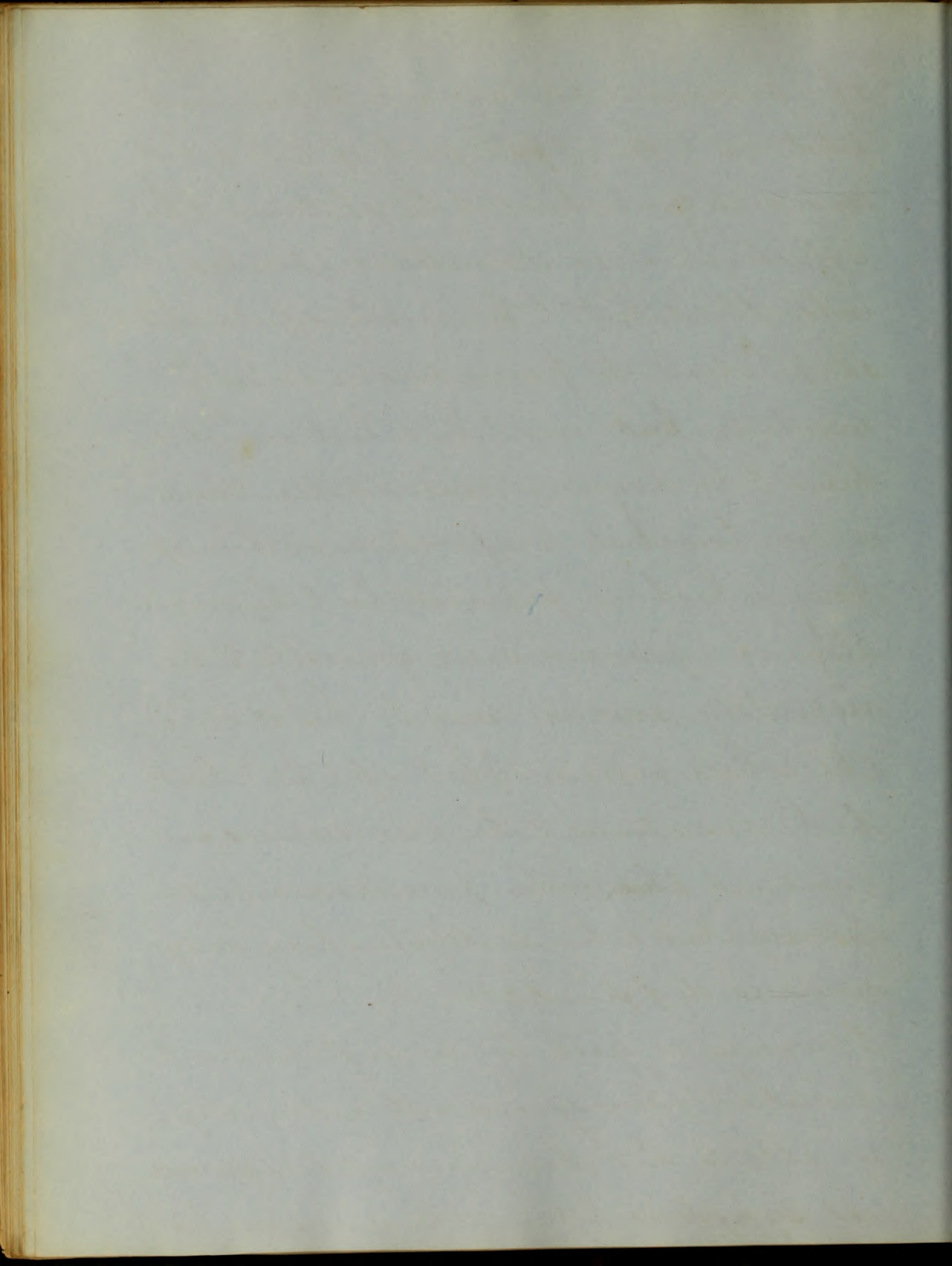
But the physical signs will indicate to us that it is not phthisis. — the <sup>equal</sup> resonance over every part of the lung, while there is entire absence of consolidation, bronchial resonance and respiration and also the want of any of the signs indicating a cavity, and by the mucus and subcrepitant rale being equally diffused over the chest.

Bronchitis may also be mistaken for the disease which we are about noticing next, namely pneumonia, when the minute bronchi are involved; but it may be distinguished by the fact that in the former there is more of a sensation



of soreness than an acute pain, and that in the upper part of the chest immediately behind the sternum, the expectoration is sometimes streaked with blood; but the rusty sputa which is peculiar to pneumonia is entirely wanting. ~~but~~ over the chest may be heard the dry and mucous rales. There is no bronchial respiration, or bronchophony, which is peculiar to the second stage of pneumonia and generally the respiratory murmur may be heard over the whole anterior part of the chest, but sometimes the two diseases are combined, then, when pneumonia is disseminated the distinguishing diagnosis is difficult.

Pneumonia is liable to be confounded with bronchitis, pleurisy, and with certain stages of phthisis, but having given the differences of symptoms between this disease and bron



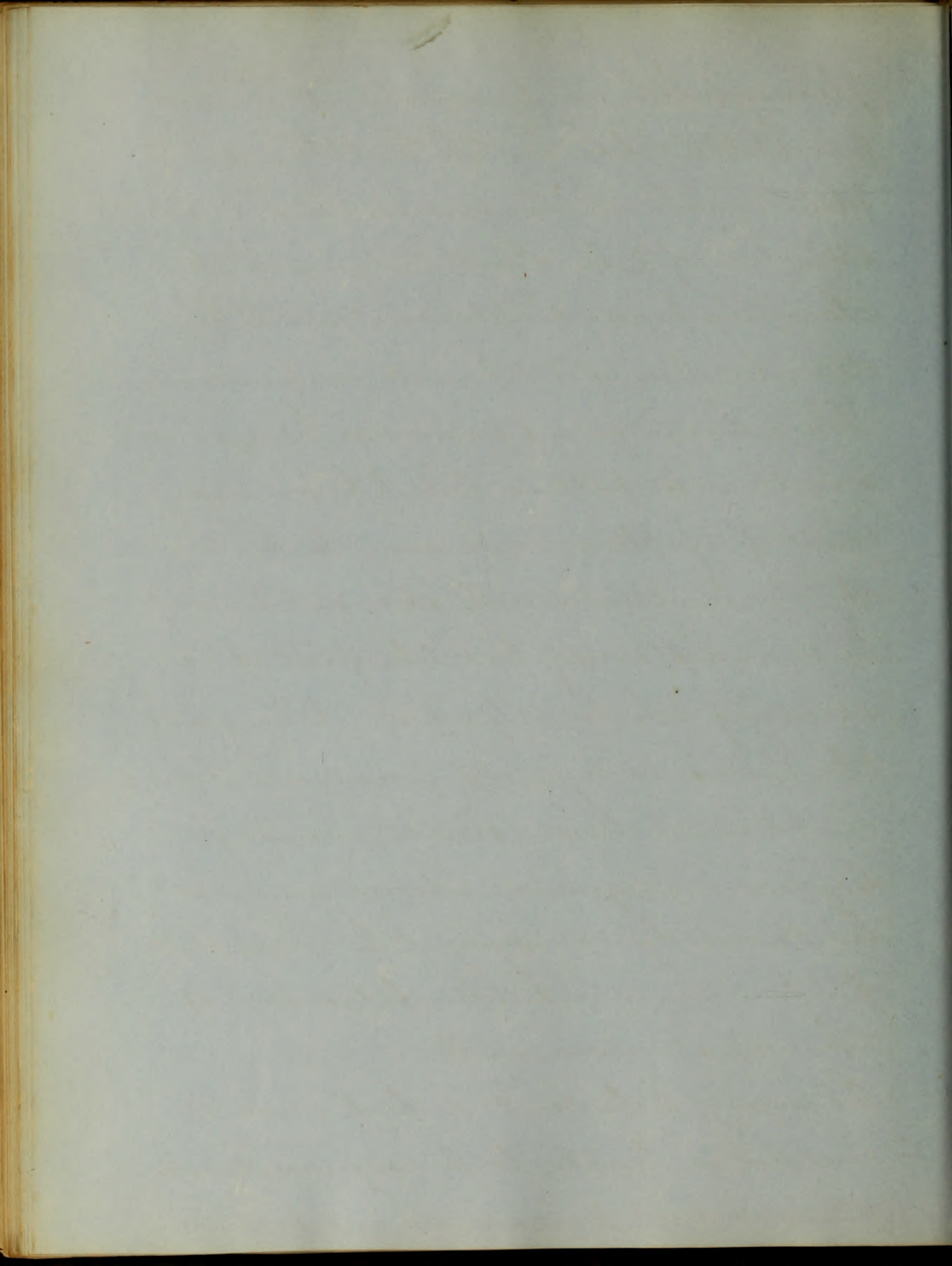
-chitis, when speaking of that disease. I will  
 next notice the <sup>diagnostic</sup> symptoms between pneum-  
 onia and pleurisy. — In the former the  
 pain is generally moderate and dull, when  
 uncomplicated, but in the latter it is  
 sharp and severe, and felt in one spot —  
 the expectoration is rusty and viscid in  
 the former, while in the latter it is  
 mucus and transparent. Sometimes streak-  
 ed with blood. — The dullness in pneum-  
 onia at first is but slight, while in ple-  
 urisy it is soon obvious and as it advances  
 attains a flatness which exceeds even that  
 of hepatisation of pneumonia. — The dullness  
 in pleurisy ~~always~~ changes with the position  
 of the patient, while in pneumonia it is fixed.  
 In pleurisy also the crepitant rale is  
 entirely wanting, while the friction sound  
 and aegophony which are peculiar to it  
 are entirely wanting in pneumonia. — There  
 is no perceptible vocal vibration in





pleurisy, while in pneumonia it is more perceptible than in the healthy. In pleurisy with copious effusion, there is a distention of the chest, - bulging of the intercostal spaces, - displacement of the heart etc, which is not the case in pneumonia. - The chronic form of pneumonia bears some resemblance to phthisis, but the previous course of symptoms would serve to distinguish it. - if attended with abscess, there might be some difficulty, but the fact of its occupying the lower part of the lung and the previous signs of pneumonia having existed, will be sufficient grounds for diagnosis. - Gangrenous abscess may also be known by occupying the lower part of the lung and the fetid odor of the expectoration.

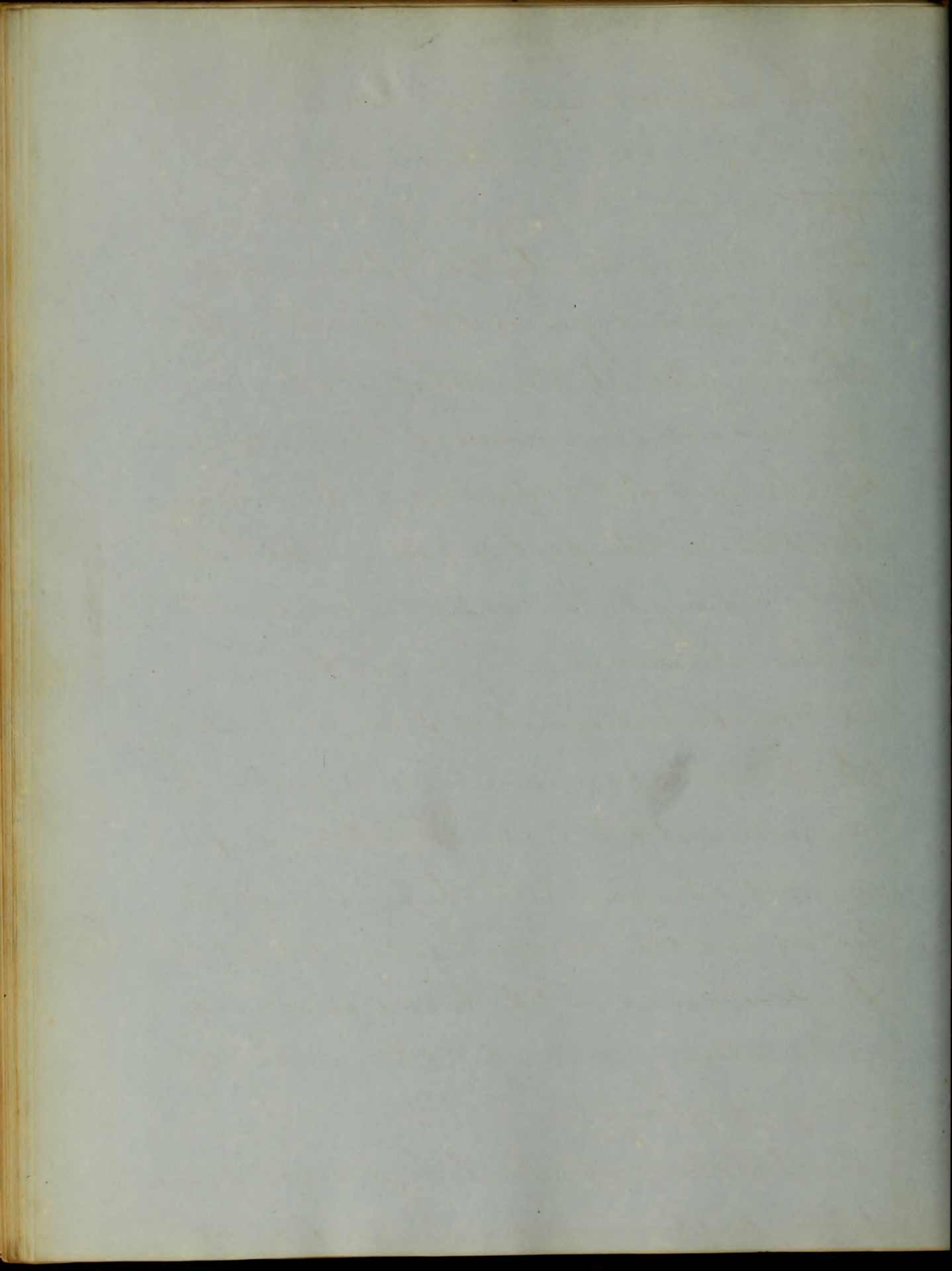
Pleurisy the next which we will consider, is liable to be confounded with pleurodynia, pericarditis, and pneumonia,



The diagnostic symptoms between it and pneumonia were given when speaking of that disease. - Pleurisy may be distinguished from pleurodynia, by the absence of all the physical signs of the former, with the exception of diminished respiratory murmur and sonorousness of the part, caused by the imperfect expansion of the chest in breathing, & the seat of pain is also liable to be changed to contiguous parts. - There is also absence of cough and fever. -

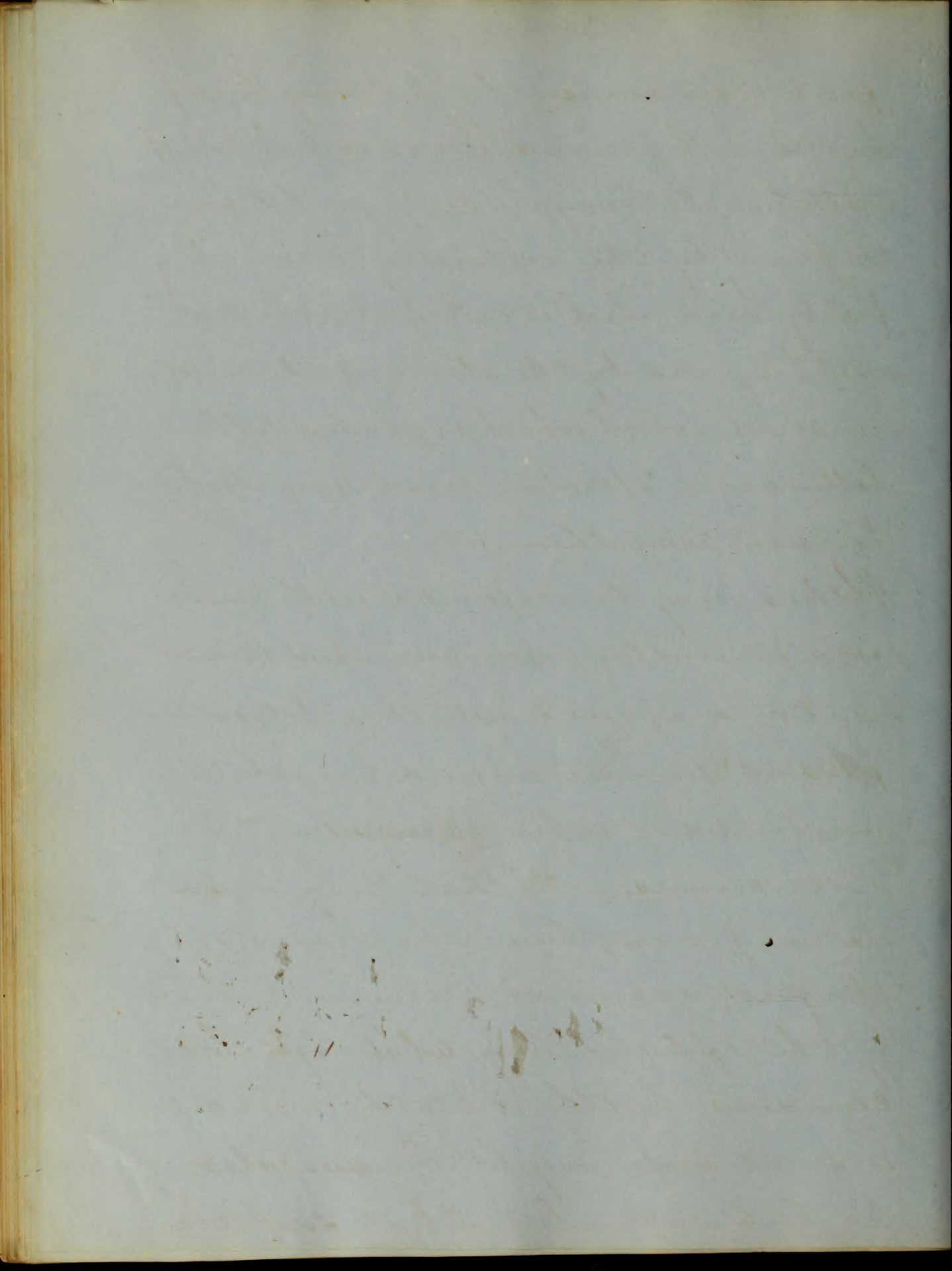
It may be distinguished from pericarditis by the limited space and peculiar position of the dullness of the latter. - by the seat of dullness not changing with the position of the patient and the peculiar situation of the friction sound, or the "to and fro" sound of Dr Watson, and also by the entire absence of aegophony. -

Emphysema of the lungs displays symptoms sufficiently diagnostic of it.



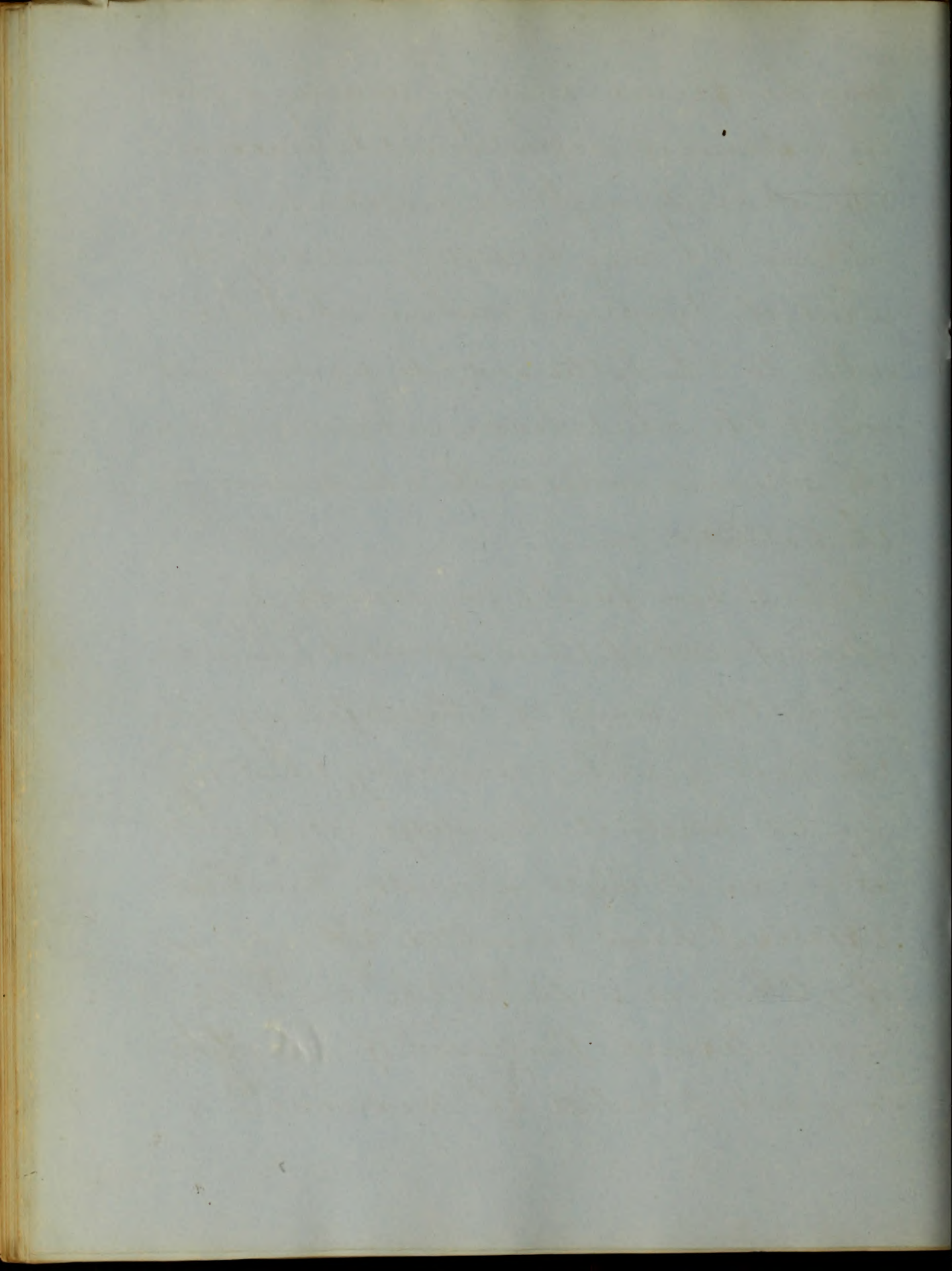
from other diseases although it may be confounded with pneumothorax and perhaps with phthisis. - It may be distinguished from the former by the respiratory murmur being feebly heard, which is entirely absent in pneumothorax and by the absence of the metallic sound which is peculiar to the latter and a splashing sound may also be heard in pneumothorax. -

Phthisis may be confounded with emphysema, pneumothorax, pneumonia and bronchitis. - the diagnostic distinction between ~~phthisis~~ pneumonia and bronchitis were treated of when ~~discussing~~ <sup>on</sup> the latter diseases. - Phthisis may be ~~mis~~ <sup>mis</sup> taken for emphysema on account of the great amount of resonance produced by the affected lung, which might be considered healthy, while the more dull or sound ~~side~~ <sup>side</sup> might be suspected as tuberculous, but that suspicion

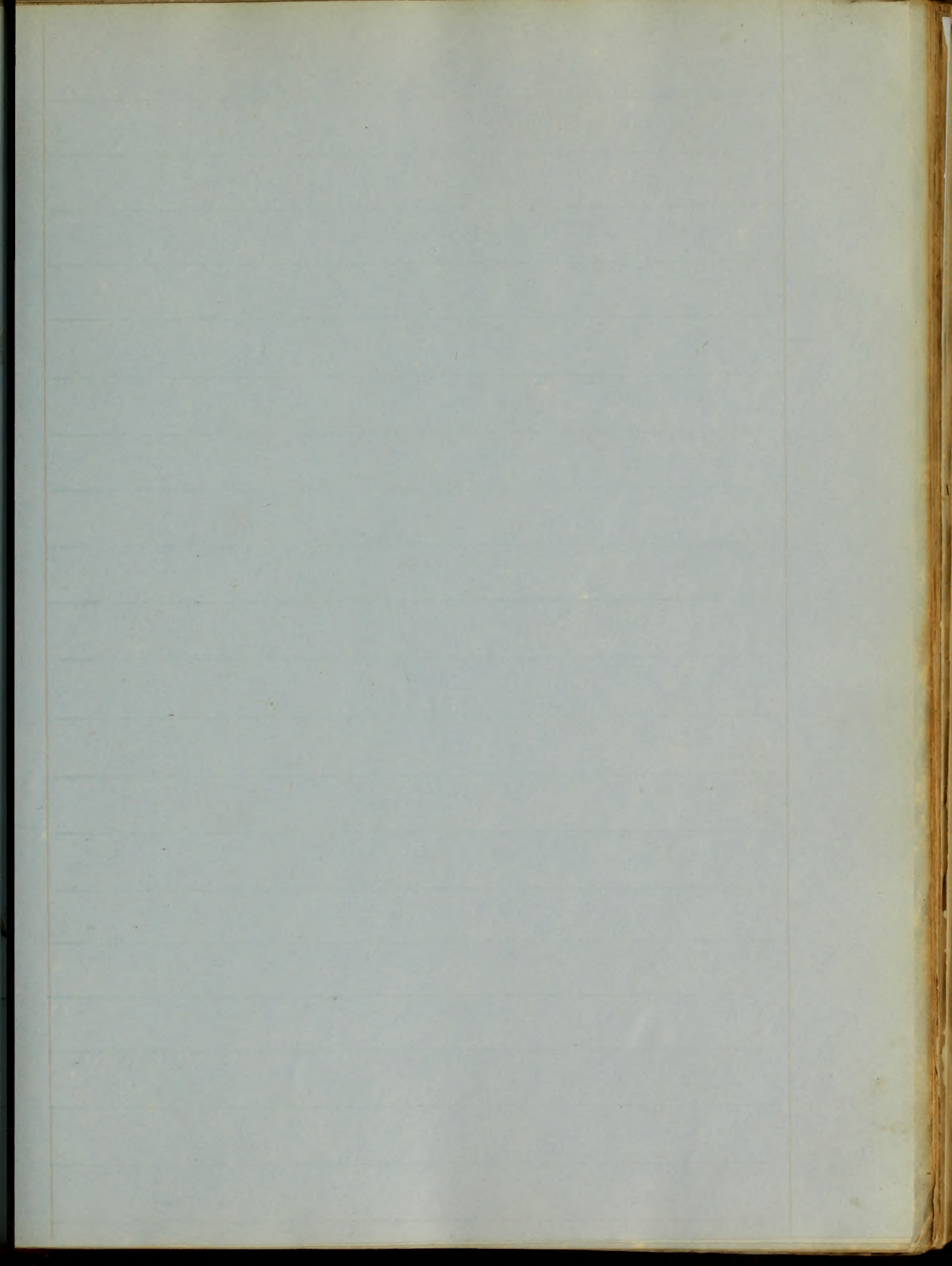


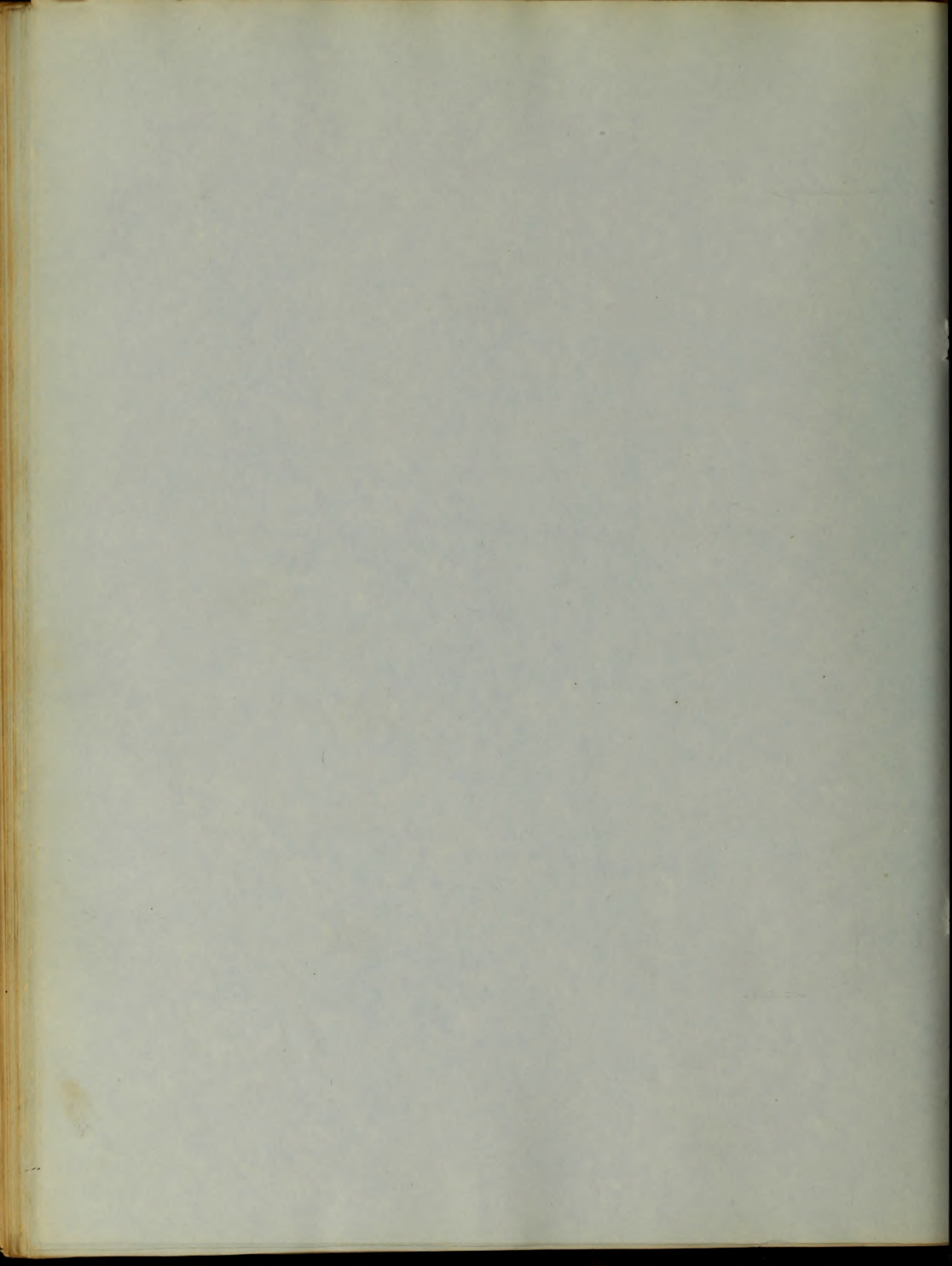
may be cleared away by perceiving a great  
 in feebleness of respiration on the ~~sonorous~~  
 side. — A cavity might be mistaken for pneumo-  
 thorax, but may be distinguished by the  
 want of tympanitic resonance, which is pec-  
 uliar to the latter, and the depressed condit-  
 ion of the chest, besides, in pneumothorax,  
 the resonance varies with the position of  
 the patient.

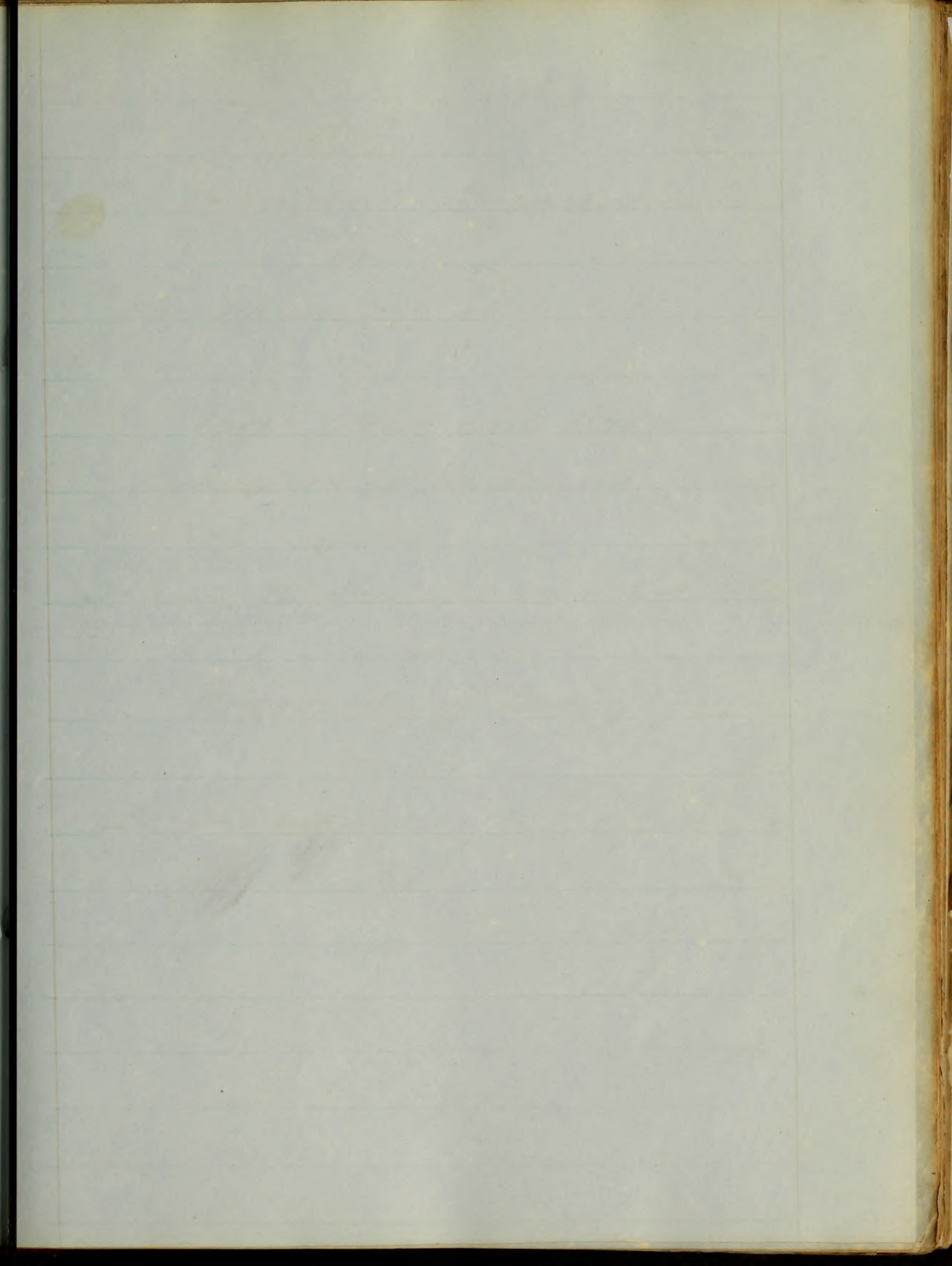
Now, I have finished my remarks. — The sym-  
 ptoms of most of those diseases I have witnes-  
 sed in the wards of the Infirmary during  
 the past year, but considering that my  
 limited practical knowledge would not  
 allow me to write a really practical  
treatise, I have consulted the theory  
 of others, as well as the views of  
 our esteemed professor of ~~the~~ the  
 theory and practice of medicine.

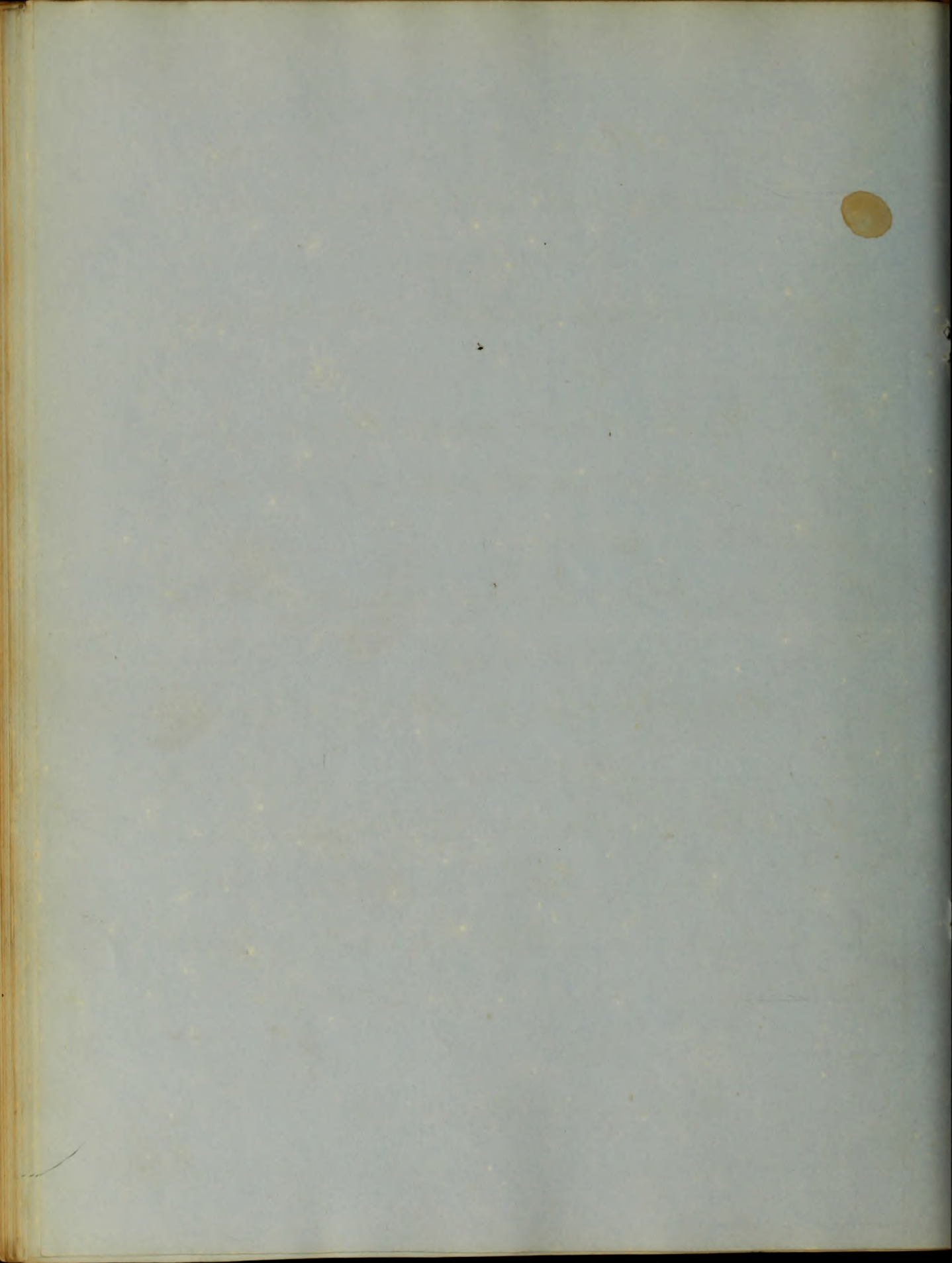












An  
Inaugural Dissertation  
On  
"The Physiology and Pathology  
of  
Uric Acid and Urea."  
Submitted to the Examination  
of the  
Provost, Regents, and Faculty of Physic  
of the  
University of Maryland,  
for the  
Degree of Doctor of Medicine,  
by  
Denis I. McKerr  
of Baltimore.

1830

Mr  
Margaret Davidson  
on  
The Philosophy and Pathology  
of  
The Mind and Body  
as  
presented to the  
of the  
Royal Society of Edinburgh  
of the  
University of Edinburgh  
for the  
Degree of Doctor of Medicine  
by  
James M. M. M.  
M.D.

*"Quis teget hæc?"*

Quis legat hanc



1  
The subject on which I have the honor to present this thesis, though evidently one of great importance, is one which has met with very great neglect from the medical world. From our more recent predecessors it has scarcely obtained a passing notice and in the works of those of earlier date the statements which are made are, for the majority, vague and useless and frequently untrue.

The prosecution of this branch of medical science has been fortunately reserved for our own generation - we have been chosen as pioneers in the history of this hitherto unknown and uncultivated region, and ours is the happy lot to point out its treasures and resources. But we should not here imitate the example of those who, having discovered a new territory, in the excitement of the moment and

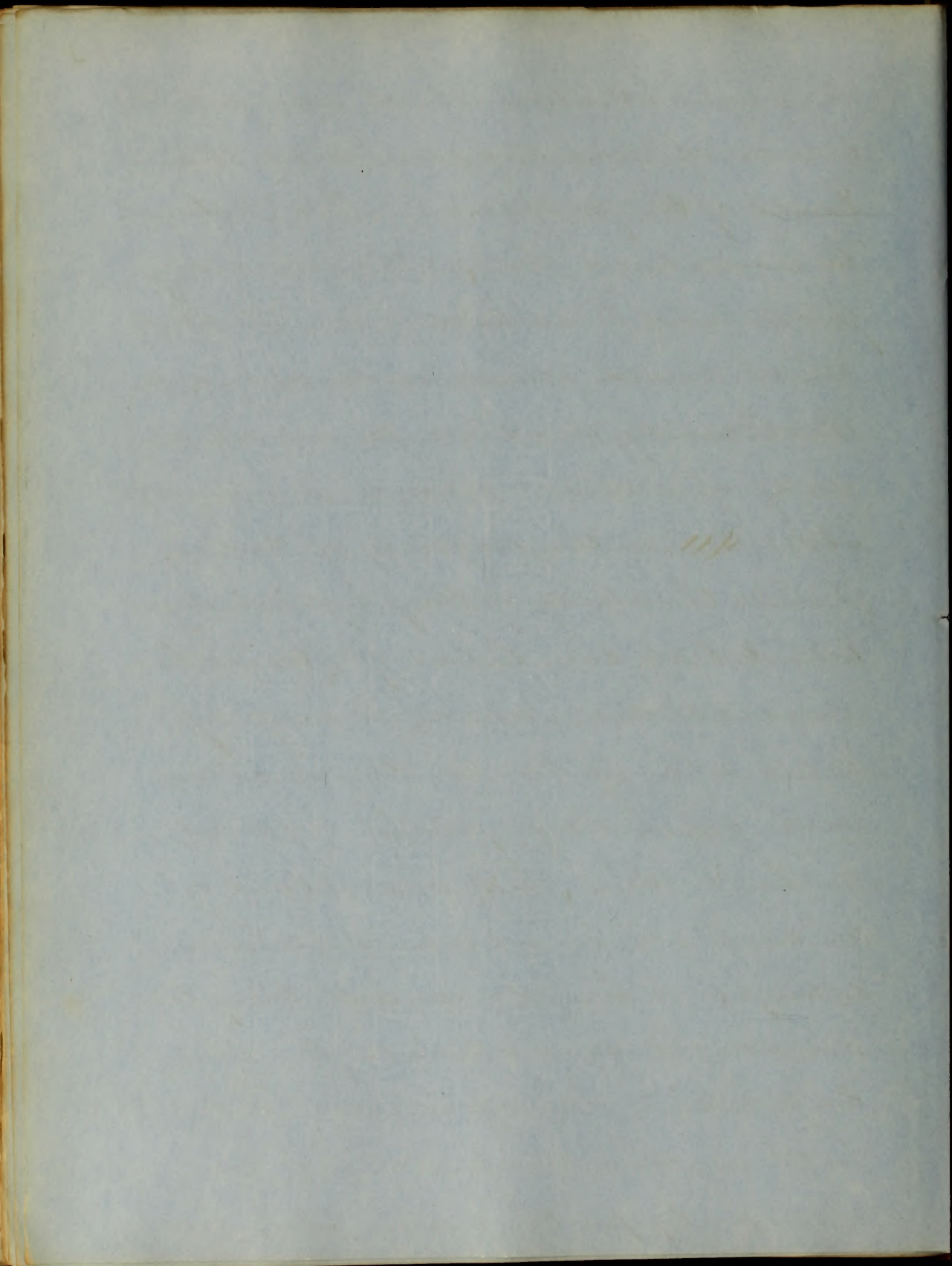
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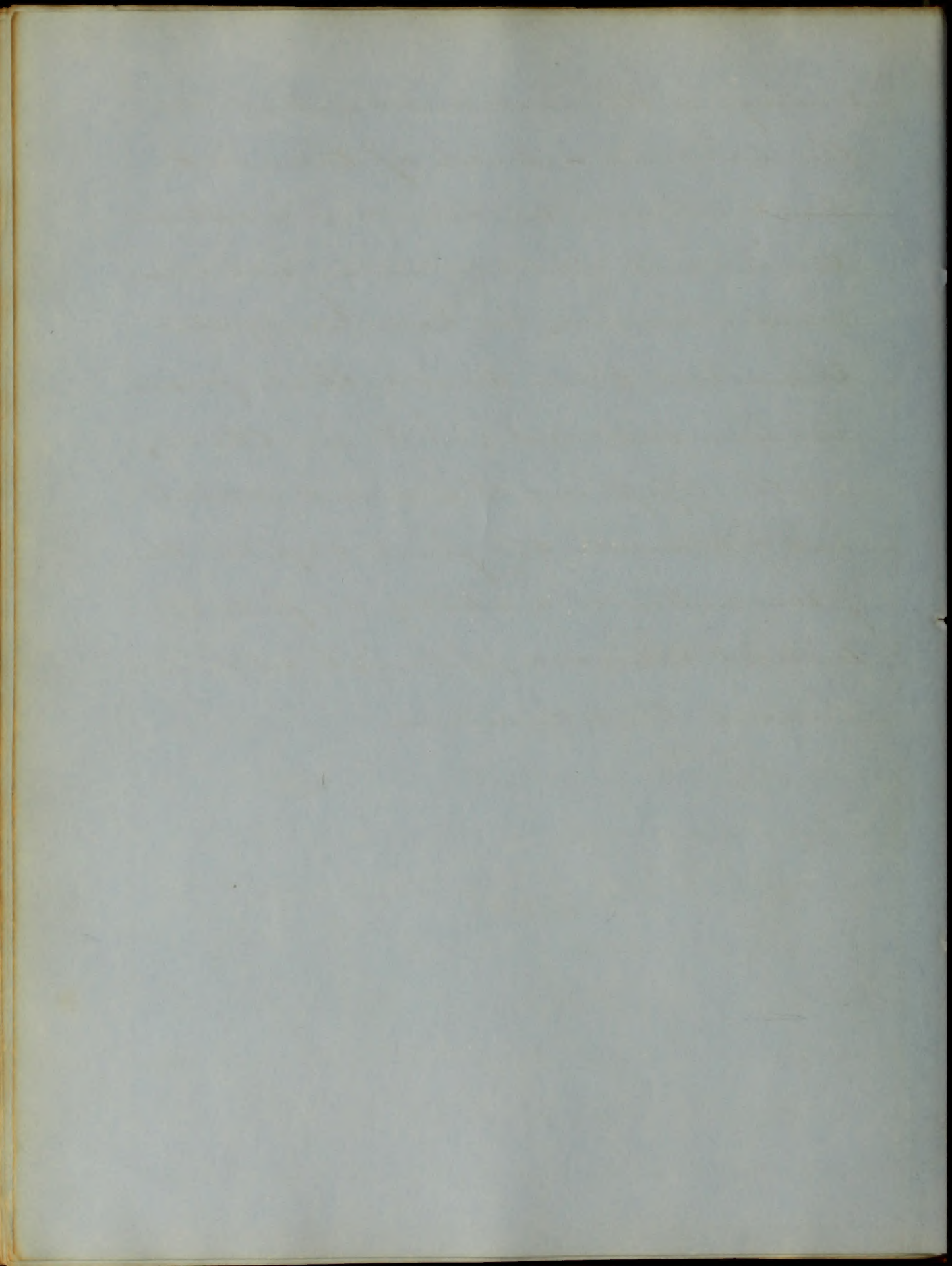
oblivion of their former lands and comforts, proclaim it the long and vainly sought Sodas; and find health in every sunbeam, & wealth in every sparkling pebble. We should rather penetrate its forests, ascend its mountains, and descending explore its valleys and its coast, ere we can become fully cognizant of its resources, and designate its treacherous shoals & quicksands. That the discoveries which have, within the few past years, been given to the world in Urinary Physiology & Pathology have furnished many and very valuable aids to diagnosis, will be willingly conceded by all; but that its importance has by some been entirely exaggerated, at the expense of other equally, if not more certain symptoms must be equally evident. Hence results

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the slight attention which, even yet, this  
 branch of Semiology meets at the  
 hands of the profession. But it should  
 be remembered that, although many  
 facts may be gathered from its study  
 which would otherwise be veiled in  
 the obscurity in which too much al-  
 ready of Medical Science is buried;  
 still ~~it~~, in the majority of cases,  
 it, like the study of the physical signs  
 with which the labours of Laennec have  
 enriched our Science, is only of  
 value when taken in conjunction  
 with general symptoms and is,  
 without them, but one stone of  
 an arch which we would vainly  
 attempt to build unless they too  
 are sought as materials for its  
 completion. The opinions set  
 forth in this manuscript are  
 taken, for by far the greater part, from

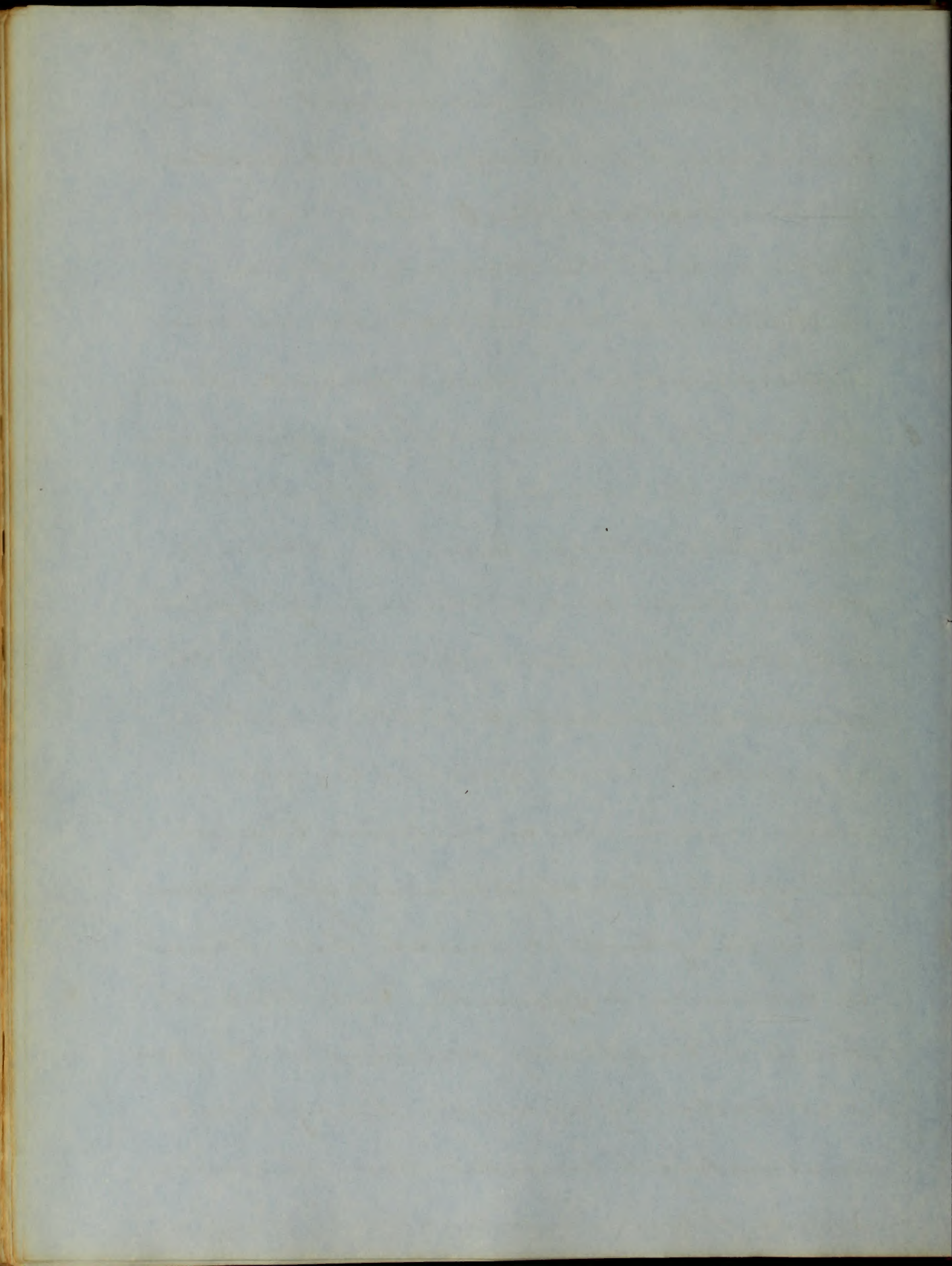


writings of the best authorities on the subjects - such of them at least as were within our reach at the time it was written. Such remarks, however, as have suggested themselves to me during that period have been inserted; and for these, as the offspring of a mind which has but made the first step in the prosecution of a study so full of interest & reward, I must ask lenient consideration.



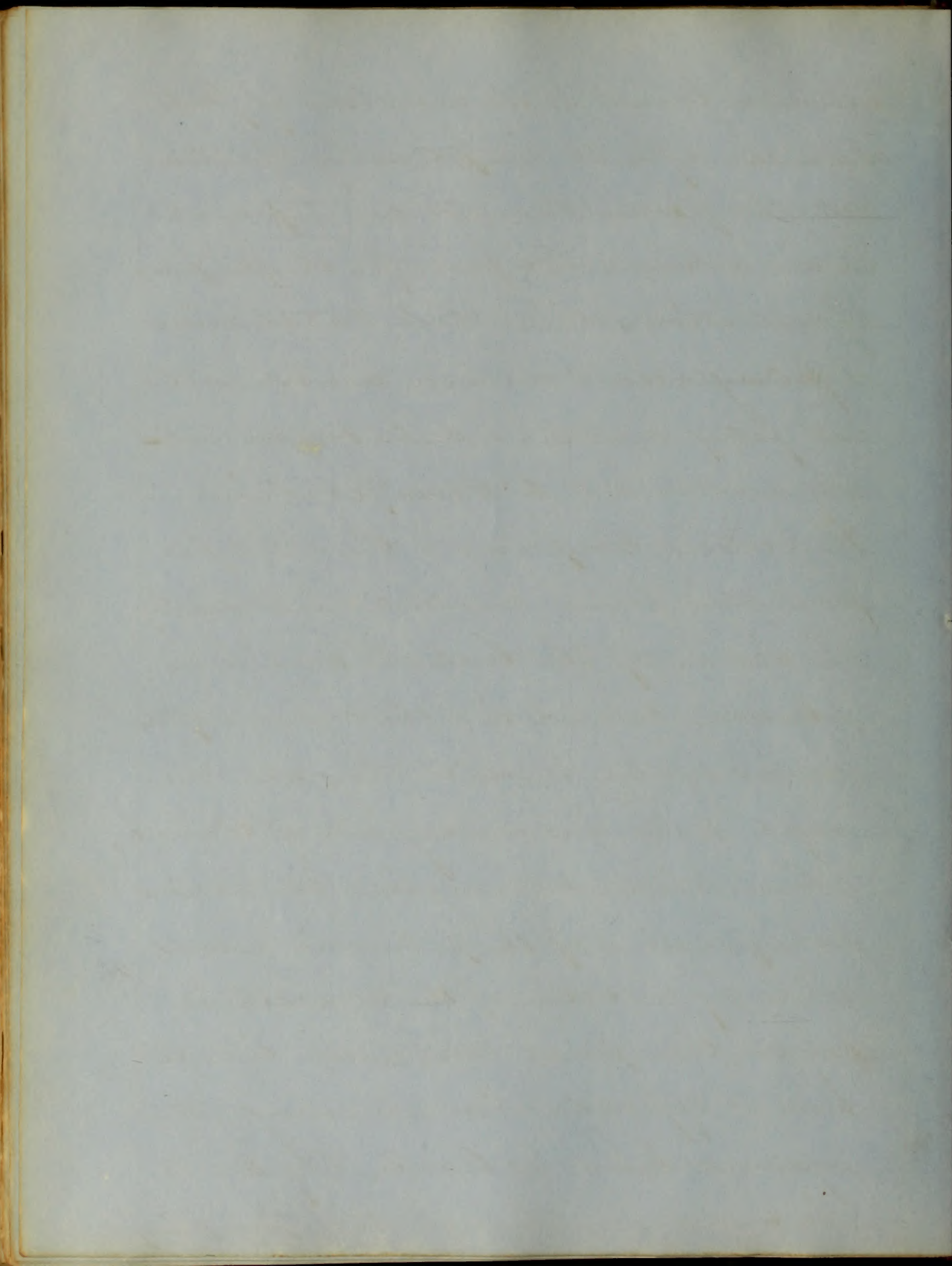


That the morbid conditions of the urine may be duly appreciated, it is necessary that its normal condition and the sources whence it is derived in health should be first understood. The great source from which the elements of the renal secretion are drawn is that slow destruction which, from the dawn of our existence until the sun of life has set, is in constant operation. Of the materials received into the system as aliment some portions are occasionally recognized in the urine though the effect of such alimentary matters upon this fluid is much less than is generally supposed. Since the waste, which is constantly occurring in the frame, is as constantly replaced, it may be not uninteresting to consider how this reparation occurs. The only source of repara-



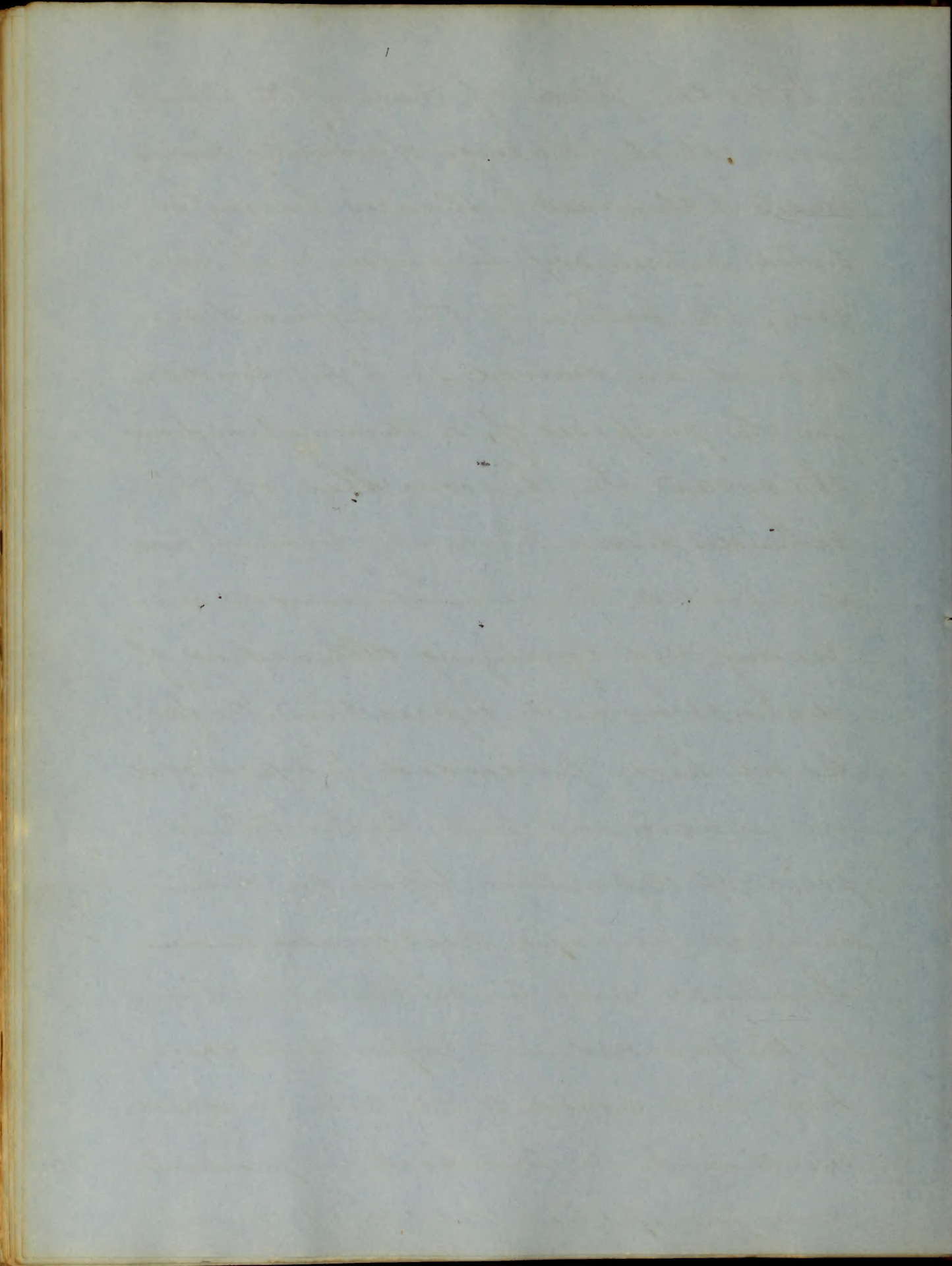
ration is found in the ingestion of food, of which, after its reception by the stomach the protein elements are separated in an albuminoid form for the purposes of nutrition while their saccharine or ~~amylaceous~~ amylaceous elements are converted into fatty matters - substances entirely subservient to calorification.

The protein compounds thus set free from their former combinations are, by the action of the lacteals and lymphatics, carried into the current of the venous system by which they are conveyed to the pulmonary side of the heart, thence to be sent throughout the various ramifications of the pulmonic vessels where, by the action of the atmospheric oxygen, their final conversion into fibrin is effected. Now returning to the systemic heart as blood, they are to be urged on through the periphery



7

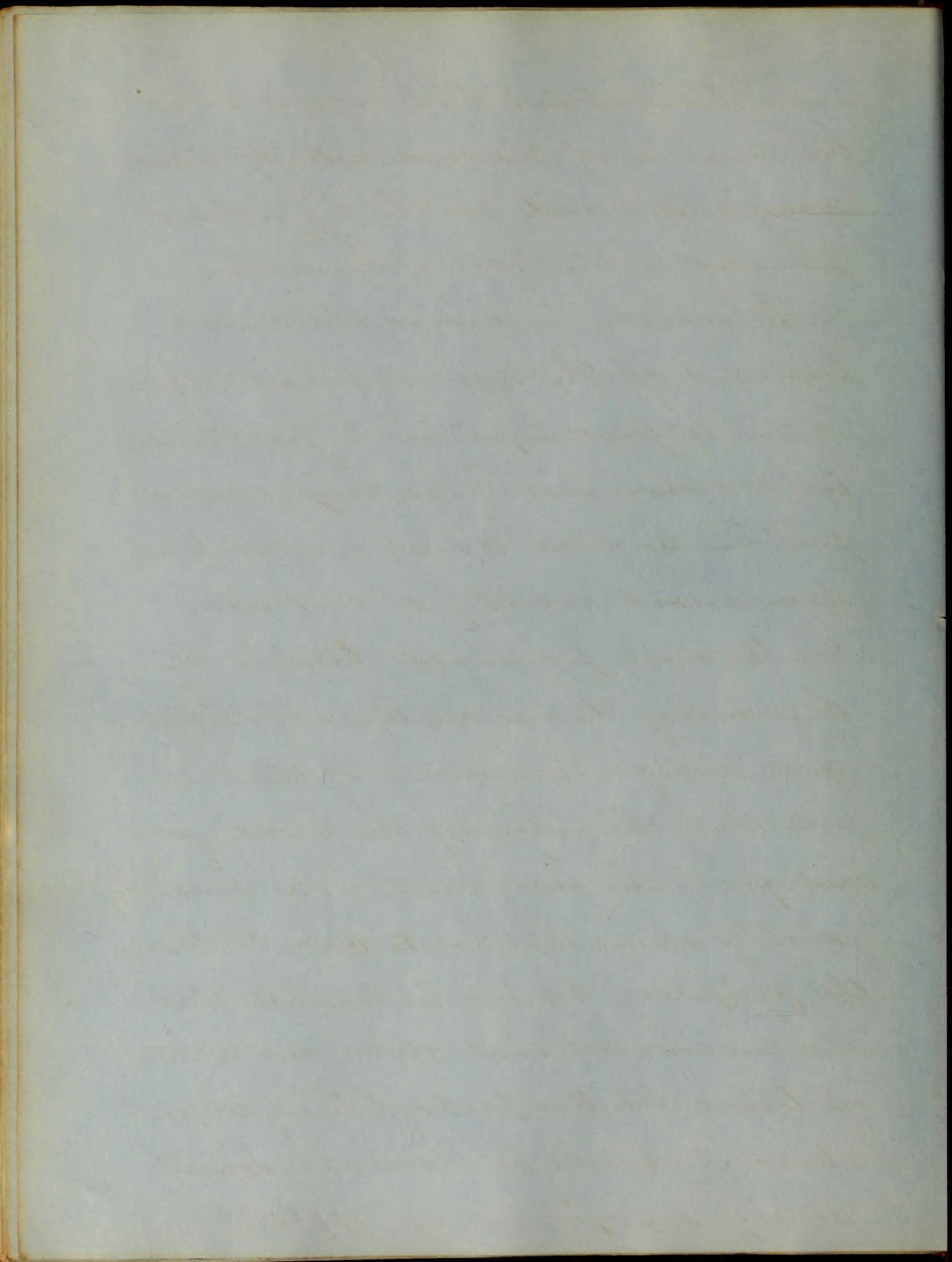
to take the place of those effete tissues, from which, (the reign of vitality having ceased & chemical influences having assumed supremacy) by union with oxygen, the fabrics of the different sections are derived, in a fit condition for the purposes of, or elimination from the system. In the room then of this exhausted tissue the newly formed fibrine is deposited thus maintaining an unceasing and equalizing alternation of destruction and reparation. So far as we have proceeded Physiologists are unanimous but here is their point of departure. Upon no other subject, perhaps, does greater discussion exist, and, since the agitation of the famous and important question with regard to the arm in which V.S. should be practised in pleuritis, none perhaps has elicited so much



angry litigation. With regard to the  
combustion of the molecules of tissue,  
many and varied are the hypotheses  
presented to the lover of research.

Hallowed by names the most  
brilliant of the age it might seem  
akin to presumption to particular-  
ize or choose from these respected a  
pinions any one which might, to us,  
seem most worthy of credence.

The two most prominent however of  
these many theories are those of Müllerer  
and Liebig. The former of these as-  
serts that the fibrin of the blood, for-  
med from the food, exists as a binox-  
ide of protein: that in its circuit through  
the periphery coming in contact with  
the enervated and decaying atoms  
of tissue the two proportions of oxygen  
which it holds in chemical combi-  
nation are yielded up for the





combustion of such atoms, while the thus oxydised fibrin is used in filling the vacuities formerly occupied by the now dead tissue. The theory of the philosopher of Giessen is however quite opposed to this.

Leebig supposed that the blood corpuscles are the only carriers of oxygen, that, during their passage through the pulmonary vessels, the iron which enters into their composition is, by union with oxygen abstracted from the air, converted from a carbonate (in which state it exists in venous blood) into a sesqui-oxide of the metal. These oxydised globules then, according to his theory, during their passage through the vasa intermedia give up their oxygen to the decaying atoms of our economy, which, having performed their offices are

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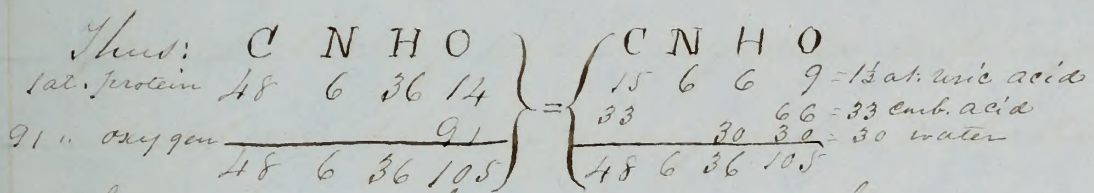
to be removed from the organism. With regard to the rebuilding of tissue, he is of the same opinion as Müller, owing as its cause the deposition of the liquid fibrin of the blood. Of these two theories that of Liebig is, to us at least, the more satisfactory; since, beside the many beautiful physiological facts which may be adduced for its support, it is the only one which has the merit of appealing to experiments extraneous to the body for its confirmation.

Which of the two however be received as the true one is here of little importance since both equally answer our purpose and furnish the same results. Of this Eemacausis the "destructive assimilation" (?) of Prout the results are the pabula of the different secretions. Of these Urea and Uric acid alone demand our attention.

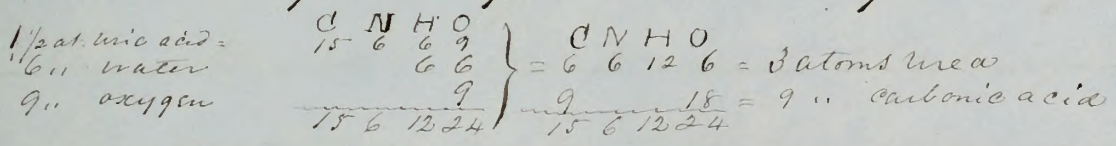
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# Uric Acid.

Of the debris of muscular tissue that portion which is destined for renal elimination is, after a few primitive formations, as those of Creatine, and Creatinine, presented in the state of uric acid, and in this condition the whole of the nitrogenized urinary excrements primarily exist (Liebig)



The whole of the acid thus formed is not however, as such, expelled from the system, but by the accession of another increment of oxygen set free from the blood-vessels, assumes the form of a new body - Urea.



Prout, however, has uttered a theory quite antagonistic to this; and asserts that the two substances (uric acid & urea) are the

18th Nov

The first part of the day was spent in the  
laboratory. I was very busy and did not  
have time to go to the office. I was  
very tired when I went to bed.  
I had a very good night's sleep.  
I was very happy to see you.

Yours truly,  
G. N. H. O.

I am very glad to hear from you.  
I hope you are well and happy.  
I will write to you again soon.  
I am very much interested in  
the progress of your work.

I am very much interested in  
the progress of your work.  
I will write to you again soon.  
I am very much interested in  
the progress of your work.

results of different, though primary  
 destruction and change. According  
 to the theory of this Physiologist uric  
 acid owes its formation to the com-  
 bustion of the albuminous tissues,  
 while he traces out the source of the  
 urea in the remanence of the  
 gelatinous portions of the organism.

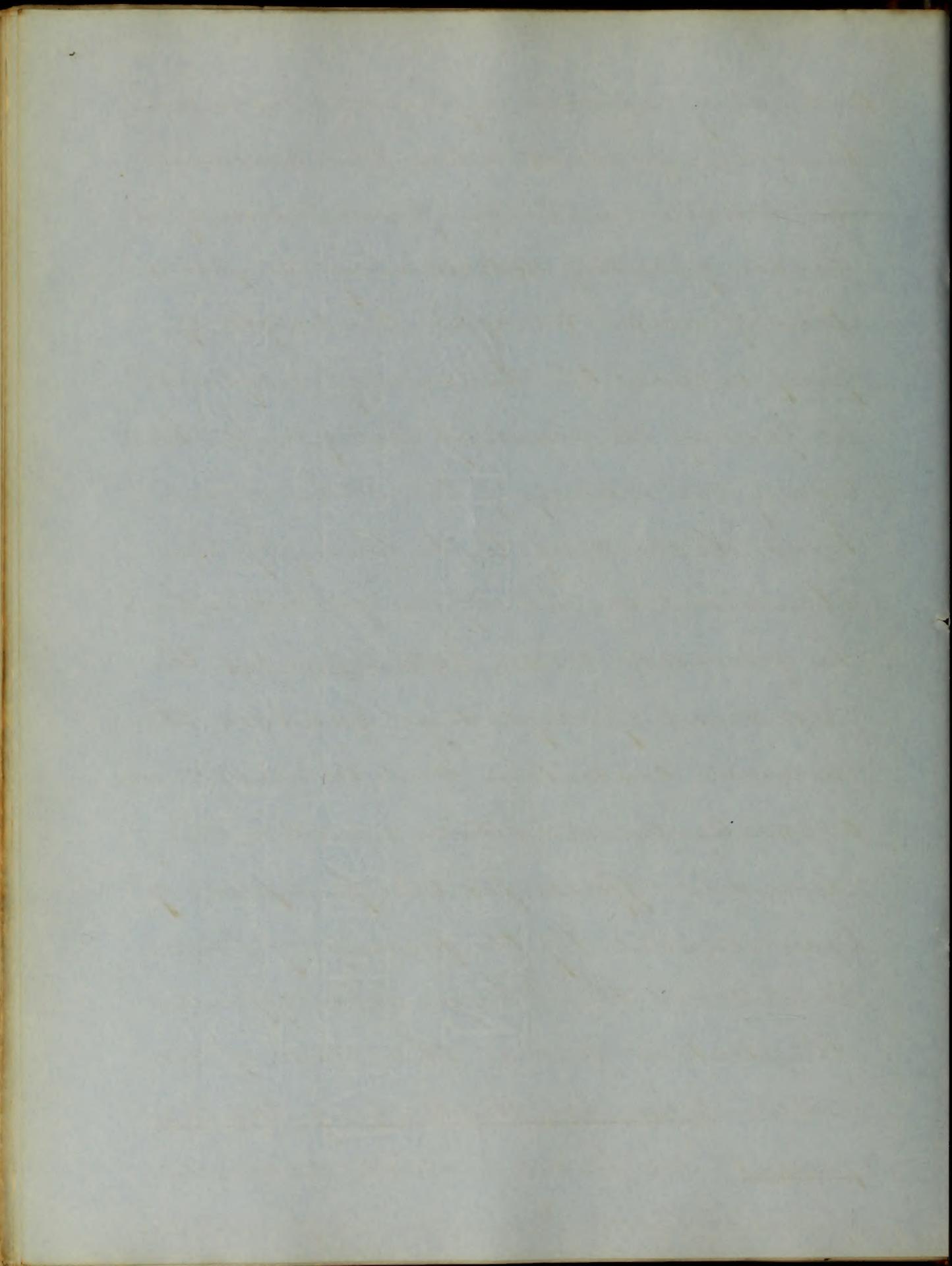
Vogel, again, gives birth to a still dif-  
 ferent theory with regard to the pro-  
 duction of these important bodies.

He believes, with Liebig, that urea  
 owes its presence to a higher degree  
 of oxidation than that obtained by  
 uric acid; but, unlike him, does  
 not acknowledge the conversion of  
 the latter into the former, stating that  
 the predominance of either is entirely  
 fortuitous, depending on the amount of  
 oxygen presented to the particles of our  
 substance at the moment of the with-

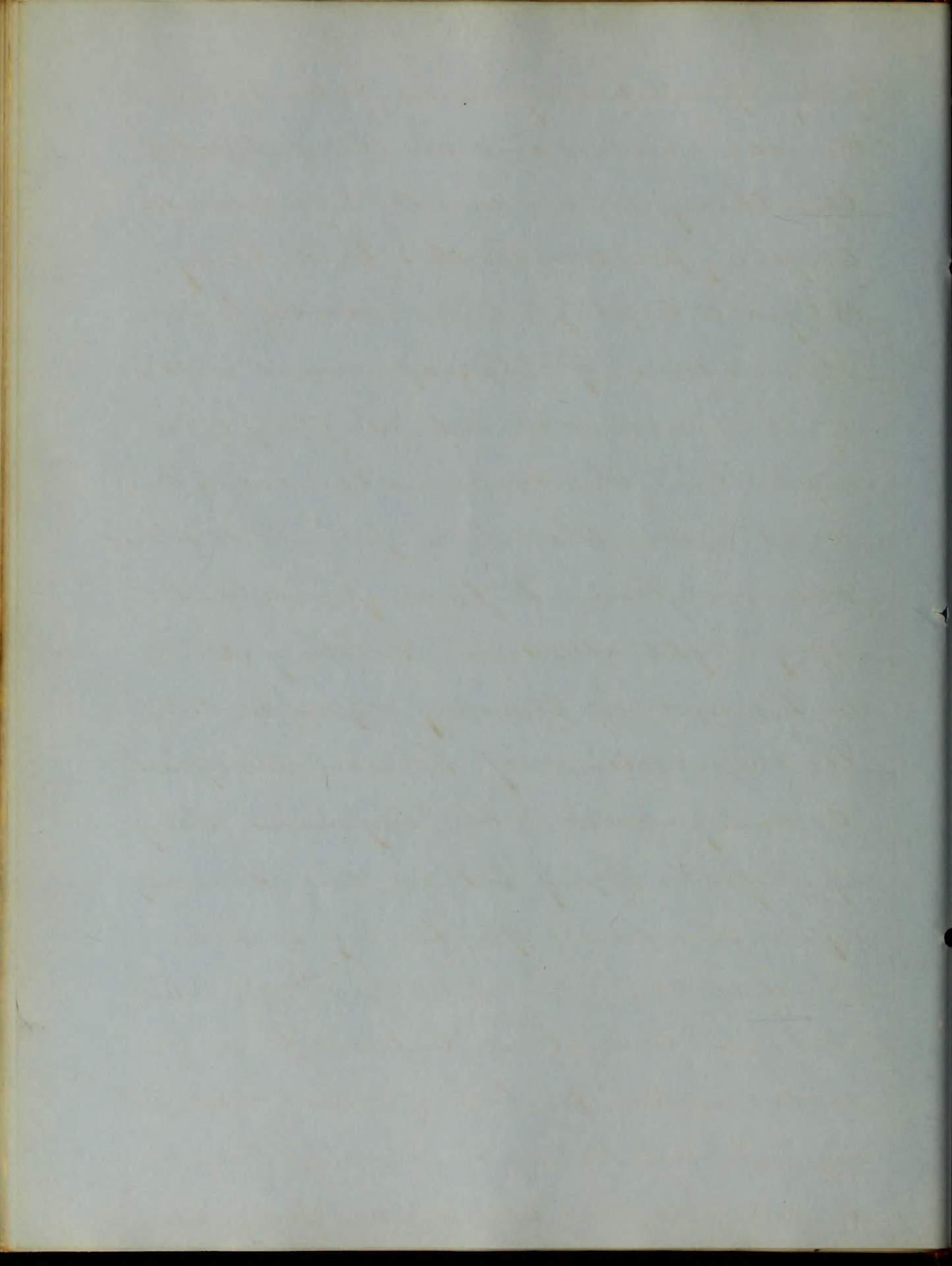
The first of these is the  
 fact that the  
 government has  
 decided to  
 increase the  
 number of  
 judges on the  
 Supreme Court  
 from nine to  
 ten. This  
 move is  
 being  
 opposed by  
 many  
 members of  
 the  
 Senate  
 because  
 they  
 believe  
 that  
 the  
 current  
 nine  
 members  
 are  
 sufficient  
 to  
 handle  
 the  
 workload  
 of the  
 Court.



drawal of nervous influence - uric acid  
 being the product when this amount  
 is smaller, and the presentation of a  
 larger quantity determining the forma-  
 tion of urea. Here again the weight of  
 proof inclines the balance of judgment  
 in favor of the views of Liebig, and shows  
 clearly the fallacy of the other asser-  
 tions. According to the theory of this  
 illustrious authority uric acid should  
 be decreased when, ceteris paribus the  
 amount of oxydation is above the  
 normal condition and increased when  
 a smaller amount than usual of this  
 element is offered for the purpose of  
 excreta causis. Of the former of these  
 conditions the Phlegmasia offer an  
 illustration; and in this class of dis-  
 eases, when no disturbing cause is  
present, we find a notable decrease  
 of uric acid. From the impractical



bility of our having made for ourselves  
 clinical observations on the subject of  
 this theory, we are unable to advance  
 anything positive on this head, being  
 obliged to trust for these results to the  
 observations of others - ignorant alike  
 of the manner in which they were  
 made and the circumstances atten-  
 dant upon them - a point to which  
 observers seem to have paid but  
 very slight attention. Golding Bird,  
 in his work on Urinary deposits, cites  
 the observations of Edmond Béquere,  
 as antagonistic to the "ingenious theory  
 of Professor Liebig" but we can scarcely  
 give him credit for having demon-  
 strated this to be the case. From this  
 table we learn that "in acute fever &  
 inflammation", in both of which accord-  
 ing to Liebig's theory uric acid should  
 be decreased, that an actual increase



of this substance obtains. Admitting this  
 then to be the case, does it invalidate the  
 hypothesis which we have adopted?  
 We think not. In the inflammation  
 recorded in the Table (Acute Hepatitis)  
 we have, it is true, increased rapidity of  
 circulation and greater frequency of  
 respiration; but these respirations are,  
 owing to the pain excited by the de-  
 pression of the diaphragm upon the  
 inflamed viscus, small and furnish  
 ing but little oxygen and as a conse-  
 quence we would be led to anticipate  
 the result given by Dequereul. Again,  
 may not the condition of the diseased  
 gland determine the result of a more  
 highly carbonized body - hippuric  
 acid for example - by which to rid the  
 system of retained Carbon and thus  
 in some measure prevent the formation,  
 or appearance, <sup>in the normal quantity,</sup> of urea? In fever too,?

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may we not, with reason, suppose that  
 the Extraordinarily rapid waste of tissue  
 consumes in its first stages all the in-  
 haled oxygen leaving none for secon-  
 dary formations? The phrase "acute  
 fever" is, however, so indefinite and  
 vague, including so many and opposite  
 pathological conditions that we hardly  
 would expect its use in the discus-  
 sion of a subject where precision  
 and accuracy of expression are so  
 much required. How vast, for instance,  
 the ~~xxxxx~~ difference between the  
 lesions in Intermittent and Typhoid,  
 in Ephemeral and Remittent Fevers!  
 and yet all of these are "acute fevers".  
 Under such widely different condi-  
 tions of the system it would, we think,  
 be unreasonable to expect the obe-  
 dience of the economy to any one  
 and fixed law of Chemistry or Physiology.

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17

The cases of Chlorosis too cited in the Table before mentioned are of not even the slightest value in discussing the merits of the Theory, since they give but the maximum and minimum of a certain number of cases, and in which the quantity of uric acid is in the one decreased and in the other increased - the one subtending the other serving only now firmly to establish the truth of Leube's views! Gannon, in his Chemistry, alludes to two observations made by Bria himself, one of Chlorosis, and another of Anaemia in both of which uric acid is in increased proportion. In the case of Chlorosis the urea is set down at 231 grs. while the quantity of uric acid is as high as 25 grs. - a true increase of the acid while the urea is

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much below the normal. In the case of Anemia the urea was excessively low being only 102 grs. while the acid rose to the amount of 9 grains.

The cases of L'Heritier, given by the same authority, show from observations of Eight uncomplicated cases of chlorosis a mean proportion of urea represented by 6.6, & of uric acid designated by .2 giving an evident excess of the latter over the former body.

Phthisis, also, supplies the opponents of this theory with an imaginary objection to its truth. Greding Bird, (*op. citato*), however, removes all grounds for such opposition by stating that, in a conversation with Liebig, this chemist stated to him his reference to "the early stage of tuberculation" in his assertion of the diminution of uric acid in Pulmonary Phthisis. ~~and~~

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Indeed, when we consider the small amount of available Pulmonary surface offered, in the advanced stages of this disease, for the oxydation of the blood tissues and the decreased proportion of these cells in the blood, we cannot imagine how any one could expect to find a diminution of uric acid in the urine. Liebig adduces the urine of carnivorous animals as a proof of his assertion and shows thereby the effects of greater or less oxydation in determining the presence of urea or uric acid. Of these he instances the lion and tiger, animals whose food is almost entirely nutritive, (being for the greater part nitrogenized) and whose respiration and exhalation of tissue necessarily are very great, and in their urine, he states, and the fact is notorious that an almost entire

*[The text on this page is extremely faint and illegible, appearing as a series of light-colored lines across the page.]*

absence of the acid, while an enormous excess of urea is found. On the contrary, the carnivorous reptiles with the same aliment, but leading a life of almost constant inaction, being cold blooded and slowly respiring, and drinking but little, receive too little oxygen to convert their uric acid and it is thus thrown off, as such in their solid excrement. But, exclaim the opponents of this theory,

the carnivorous birds fulfil, to the highest degree, the conditions required by your position for the absence of uric acid, and nevertheless this substance constitutes the great bulk of their urinary excretion! This, we confess, is one of the most plausible of the objections into which this theory meets: but, like the others, it too, we think may be explained away. Under the title "carnivorous birds" are included the piscivora

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and the Carnivora proper, and in  
the urine of both these classes we ac-  
knowledge the predominance alleged.

Indeed were such not the case, we should  
be much more surprised than at the  
Existing state of affairs. The formation  
of uric acid & its subsequent change into  
urea depending on the supply of a given  
amount of oxygen, whatever tends to  
cut off this supply must, a priori, pre-  
vent the conversion of the acid into  
the latter substance. Now fat, being  
composed almost entirely of Carbon ( $C_{11}H_{17}O_2$ )  
and being subservient to no other pur-  
pose of the Economy than that of  
Calorification, requires, for its com-  
bustion, a very large amount of  
oxygen. The food then of the pisci-  
vora consisting entirely of fish, into  
the composition of which a very  
large amount of fat enters (a



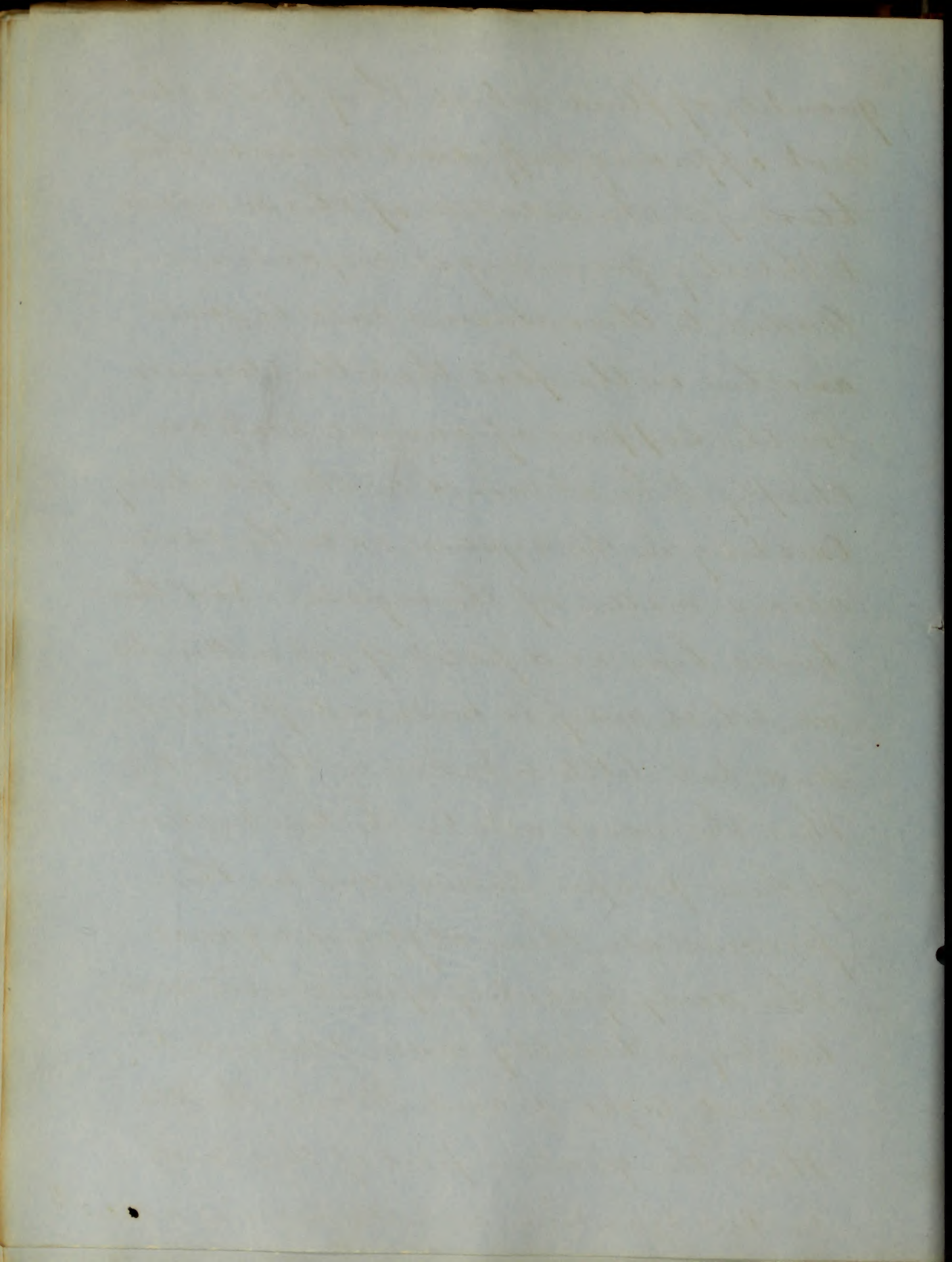
consequence of their small supply of  
 oxygen) added to the very quiet habits  
 of these birds, e.g. penguins and pelicans, which  
 pass the greater part of the day at rest,  
 offers us a very satisfactory expla-  
 nation, & quite consonant with our  
 hypothesis, of their apparent devia-  
 tion from this law. The objection  
 in the case of the Carnivora proper  
 yet remains. These birds too lead a  
 much more quiet life than is gen-  
 erally supposed, remaining for hours  
 in a state approaching torpidity  
 after glutting themselves at their  
 repast & their state of action con-  
 sisting principally in the circular  
 hovering motions which they execute,  
 for which but a small expenditure  
 of force is required. Another cause  
 for their excess in formation & se-  
 cretion of uric acid is the small

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quantity of fluid which they take, thus not affording sufficient water in their blood for the solution of this substance & thereby preventing its oxydation.

Added to these reasons will be found another in the fact that the Elements for the support of animal heat are chiefly to be obtained in the fat already existing in the system, or in the carbonaceous matter of the ingesta. Now these birds have no deposit of fat in their bodies which may be consumed for this end, and but little is taken in their food, Thus the result will be the combustion of their proper tissues and in this process all their oxygen is required.

The daily quantity of uric acid excreted by a healthy man amounts to about eight grains. Prout thinks that the greater part of this exists in combination with ammonia as



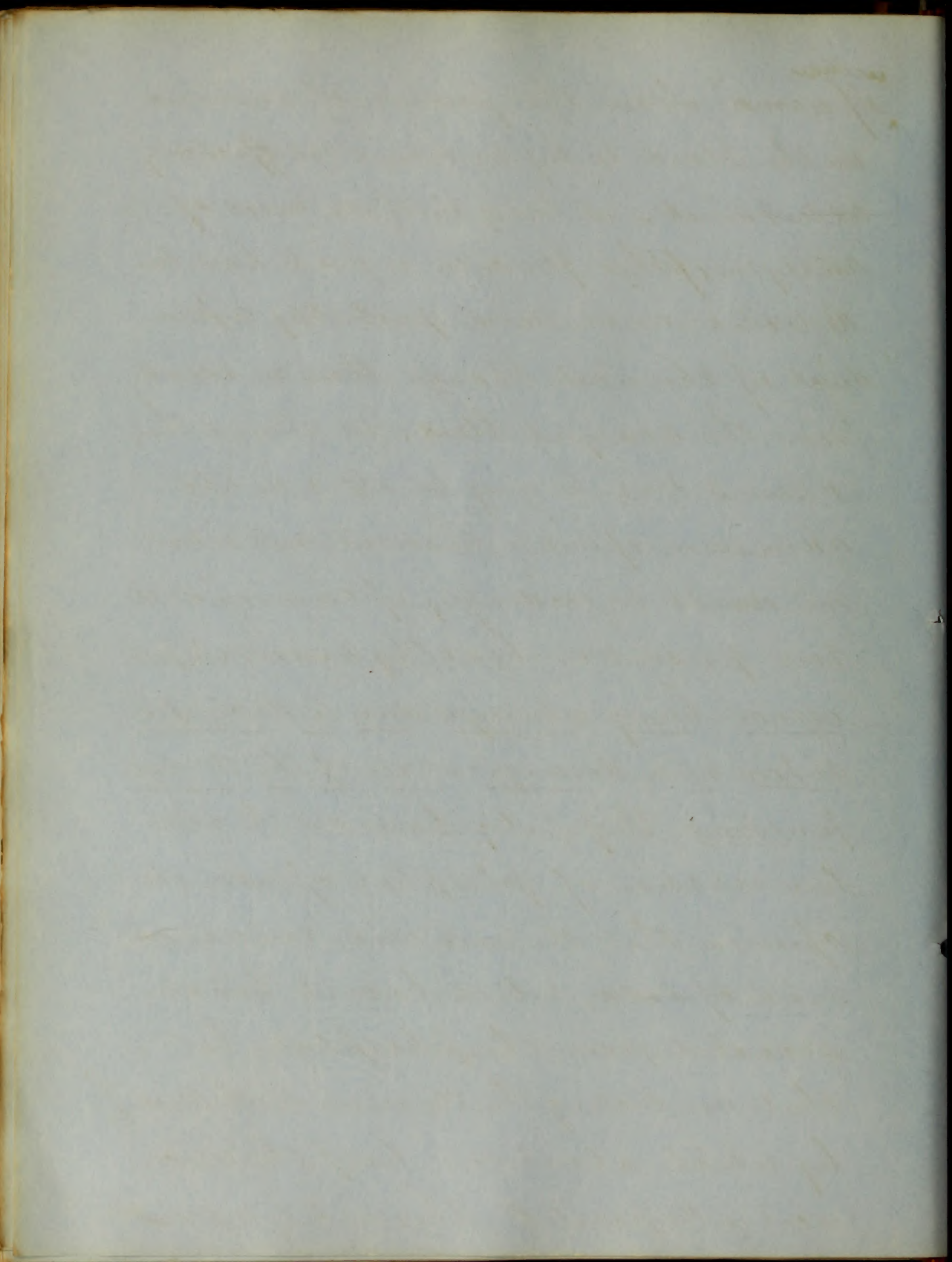
a part of this base, with which, according to his before-mentioned theory, he believes it meets at the moment of the disorganization of albuminous structures. His theory however with regard to the formation of uric acid is evidently false, since it would ensue therefrom, that, in those cases in which it is in excess, the albuminous elements of our frame were undergoing combustion far more rapid than the gelatinous tissues, and conversely: this seems, at least, improbable. Consequent on the fallacy of his proposition, all deductions therefrom must, like it, be erroneous.

G. Bird supposes that "uric acid, at the moment of its formation, meets the double phosphate of soda & ammonia derived from the food, and forms urate of ammonia evolving phosphoric acid which thus produces the natural acid" 

The first of these is the fact that  
 the world is not a uniform whole  
 but is divided into many parts  
 each of which has its own  
 character and its own laws  
 of growth and development.  
 The second is the fact that  
 the world is not a static whole  
 but is in a constant state  
 of change and evolution.  
 The third is the fact that  
 the world is not a simple whole  
 but is a complex whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The fourth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 independent and  
 influence each other.  
 The fifth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The sixth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The seventh is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The eighth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The ninth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.  
 The tenth is the fact that  
 the world is not a single whole  
 but is a many-whole  
 in which many parts are  
 interdependent and  
 influence each other.



<sup>reaction</sup>  
 of urine." Now the presence of ammonia  
 in the blood is by no means satisfactorily  
 ascertained, it being in those cases of  
 analysis of this fluid in which has been  
 detected, much more probably a pro-  
 duct of chemical change, than an excret  
 from the analysed blood. We should thus,  
 it seems to us, be very cautious in the  
 admission of such theories, and indeed  
 we doubt exceedingly if ammonia is  
 ever present in healthy urine; its  
presence being always due to decompo-  
sition or a deranged state of the dermat  
functions. Prof. Liebig bases on the alkali-  
 ne reaction of phosphate of soda the  
 opinion that the uric acid exists as an  
 urate of soda, which base it had ab-  
 stracted from the phosphate, but  
 that, on cooling the  $PO_5$  reacts on the urate  
 by which about one half the uric  
 acid is deposited. This readily explains



the acid nature of the urine. As we have  
 before asserted, the ingestion of food &  
 drinks rich in carbon, by the heat which  
 they create for the consumption of oxygen,  
 present favorable conditions for the  
 formation in excess of this acid and the  
 reason for this, by the adoption of the  
 theory of Liebig, is at once simple &  
 forcible. But if, with physiologists  
 of celebrity, we attempt to go further  
 and show the influence of other kinds  
 of aliment upon this, and other elements  
 of the urine, we must confess ourselves  
 in want of any physiological facts  
 explanatory of such influence. And  
 indeed if we consider well the laws  
 which govern the economy, we will  
 find ourselves strangely puzzled  
 to account for the statements which  
 have been made with regard to the  
 relation between the food and urine.

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One of the fundamental laws of physiology denies the influence of chemical action upon vitalized matter: and our very definition of Life, as a state of resistance to chemical affinities, is confirmatory of the rule. This being then established the only source to which we can look for the formation of the elements of the urine must be the decay of the exhausted and lifeless atoms of tissue and these alone are the pabula for its maintenance. The food taken into the economy then, in order to become subject to the chemical changes necessary for the formation of new uric acid must first have become vitalized, have been deposited as the substance of organs & in its turn have yielded up its nervous influence - its life. It is hence impossible that the ingestion of astringent food should exercise the

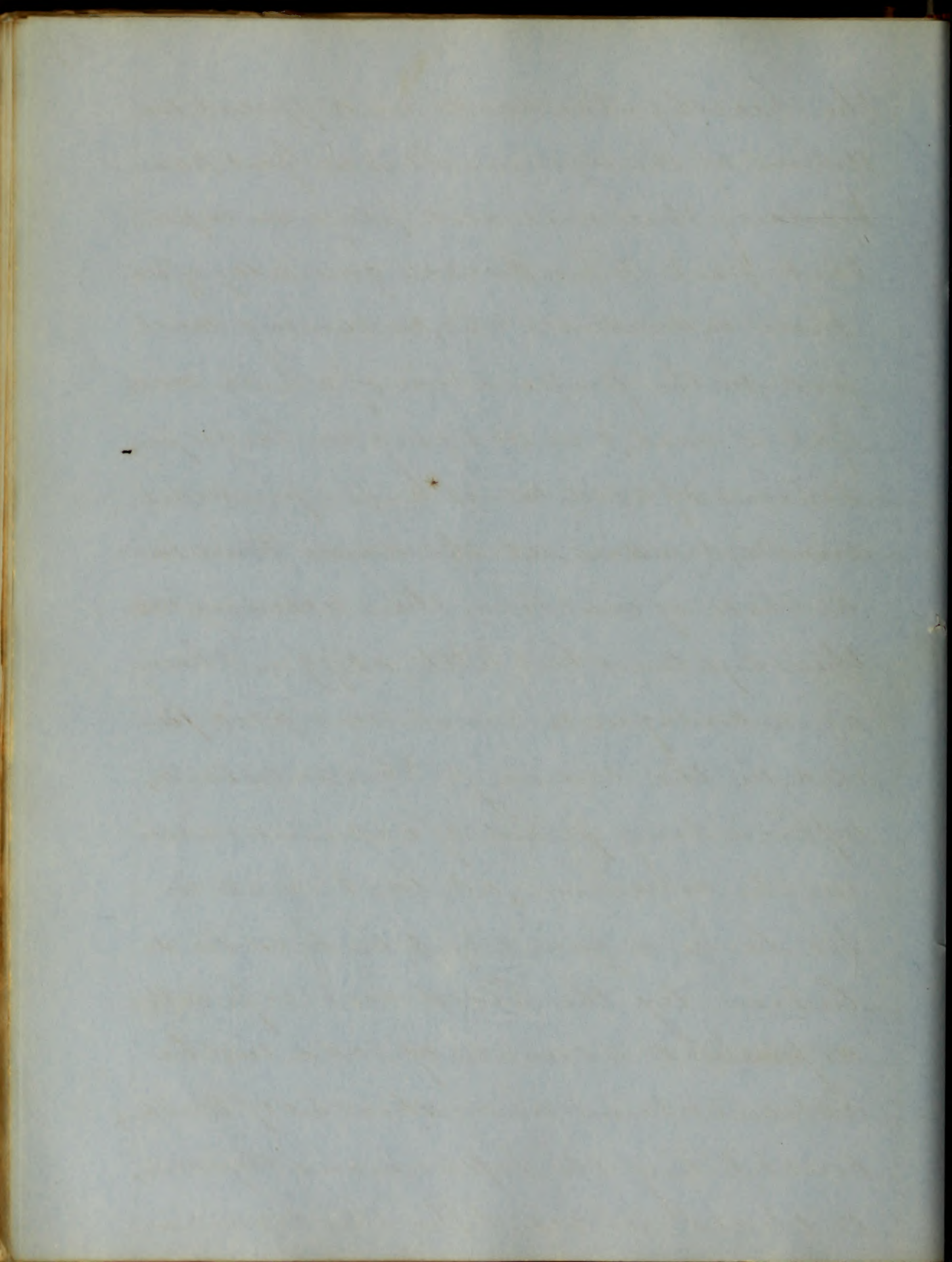
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slightest influence over the nature  
 of the secretion, since, to do so, it must  
 first have called for a greater or less de-  
 struction of tissue than in the normal  
 condition - an hypothesis too absurd  
 for a moment's serious reflexion. The  
 experiments of Lehmann (quoted by  
 Bid) would seem to contradict this  
 opinion, yet, if we will ponder their  
 experiments, & view their contradi-  
 ctions, we will, if we do not rank  
 them among absurdities, at least  
 acknowledge the possession by their  
 author of a most comical and  
 truly wonderful pair of Kidneys,  
 which, with a diet void of azote, can  
 secrete more urea & uric acid ~~than~~  
~~than~~ than any other pair in  
 Christendom. It will be supposed,  
 from what we have said, that the quan-  
 tity of uric acid varies more or less from

\* Which deprive uric acid of its base, a connection with which is necessary for its ready solution.



the healthy standard in different conditions of the System. It is in Gout particularly that uric acid plays an important part. This disease generally affects those individuals who, consuming much food, in the preparation of which much fat is used, & indulging in large quantities of acid wines\* and spirituous drinks, remain at the same time in a state of inaction, thus receiving into their systems but little oxygen & having as a consequence much uric acid formed in the economy. This substance, after a long period of accumulation in the organism, at last exists in too large a quantity to be held in solution by the blood and is finally deposited as urate of soda in the articulations and sheaths of tendons, constituting the lophaceous deposits, or chalk stones. After this deposition



the acid, which had, previously to its occurrence, been in great excess in the urine, suddenly falls to near the average quantity. With this spasmodism too there is generally an alteration of the distressing symptoms under which the patient was laboring & the constitutional disorder is converted into a local malady (Briek). Impairment of the cutaneous function - the outlet for a great part of the azote of the system - brings with it an excess of uric acid consequent upon the great amount of nitrogen thrown upon the kidneys for elimination & of which they rid themselves partly in this form. The amount of this substance is also increased in diseases of non-oxygenation as in Anæmia & Chlorosis, and of this the reason is evident. In diseases also where the distress

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tion of tissues is excessively great and rapid as in uncomplicated Fevers, and in some of the Phlegmatic, more especially those affecting the respiratory apparatus or affecting its integrity, and in Rheumatism we again find uric acid in excess. A decreased amount however of this substance in the urine, does not, with certainty, indicate a decrease in formation; since an increased quantity may be separated from dead tissue without its appearance in such quantity in the urine owing to some functional change in the Kidneys. Again in Albuminuria we have a normal amount of this acid formed in the blood, but, owing to the degeneration of the cortical or secretory structure of the Kidneys, these organs do not secrete from the blood this acid, as is their wont, when presented to them,

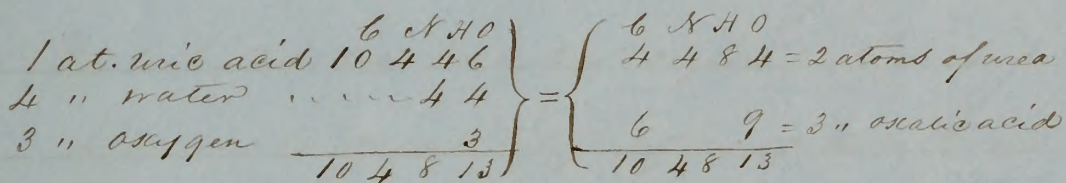
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and as a consequence, but a minimum appears in the urine. An actual decrease from the normal amount of this result of destruction occurs in Diabetes & Calculuria. In the former of these diseases we have no uric acid because the material required for its generation is appropriated in the formation of sugar. In calculuria its presence in so small quantities is traced by Liebig, with how much truth we cannot say, to want of oxydation, by which uric acid is, instead of its normal conversion into urea, metamorphosed into oxalic acid. We have already shown that for the conversion of uric acid into another healthy product a definite amount of oxygen is required, and unless the supply is proportionate to the demand a less degree of oxydation occurs, resulting in the formation of abnormal bodies in proportion to the material

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for uræmæcausis. Amongst these heterologous formations is found oxalic acid, in conjunction with urea in excess; the formation of which is thus conceived by Liebig (p. 131) "When uric acid is subjected to the action of oxygen, it is first resolved, as is well known into alloxan & urea. A new supply of oxygen, acting on the alloxan, causes it to resolve itself either into oxalic acid and urea into oxaluric & paratartric acids, or into carbonic acid and urea." Thus:



In a recent conversation with my friend & preceptor Dr. Fresk, to whose kindness I am indebted for many of the facts stated in this thesis, this gentleman informed me that of the confined convicts in our State-prison a large majority present oxalic urine, while those who are, from the nature of their

\* Dr. Forster's Cases - manuscript.

occupations, employed in the prison yard,  
 such as blacksmiths, stone-cutters and brand  
 runners, are exempt from this condition.  
 He further informed me that, having for  
 experiment sake caused some of these  
 latter patients to take daily doses of  
 cod liver oil, which acts as any other  
 fatty matter, he found crystals of  
 oxalate in their urine. These state-  
 ments then tend directly to prove  
 Liebig's views; but the action of nitro-  
 muratic acid, the remedy generally  
 exhibited in oxaluria, in restoring the  
 normal quantity of uric acid in the  
 \* urine, if brought about as is supposed  
 by the action of its oxygen, would, we  
 think, invalidate the theory, since, by  
 Liebig's own statement, increased  
 oxygenation should here bring with  
 it, not the reduction of uric from oxalic acid,  
 but the further change ~~from~~ alloucan into urea.

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# Urea.

38

In our considerations of the formation of uric acid we found that it was converted by oxygenation into a basic substance called Urea. From the chemical composition of this body, ( $\text{C}_2\text{H}_4\text{N}_2\text{O}_2$ ) it will be perceived to contain a very large amount of nitrogen; and it is through this channel that a very great part of the azotized results of destruction are removed from the system. Indeed so far is it dependent for its formation on *excreta*, that, were it not, *in a degree*, influenced by some of the ingesta, its amount in the urine would be a pretty accurate criterion by which to form an estimate of the actual waste of tissue. The quantity excreted by a healthy man amounts to about 270 grs.; This amount is subject to extreme vicissitudes, since its formation holds a con-

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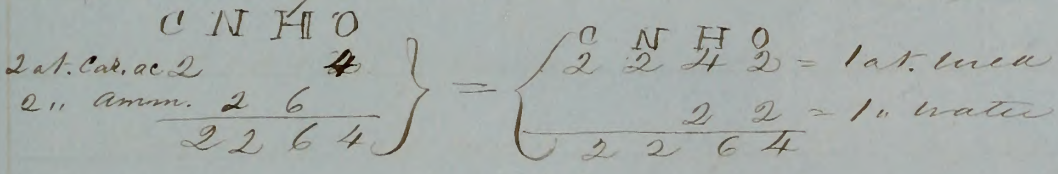
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stant ratio to oxygenation, and because,  
 the skin and kidneys performing nearly  
 by the same office, and being mutually  
 compensating organs, any deficit in  
 cutaneous exhalation brings with it  
 a corresponding increase of azotized  
 excrements to throw off which is the  
 province of the kidneys. Any cause,  
 then, cutting off the requisite supply  
 of oxygen from the decaying tissues  
 must ~~xxx~~ ~~xxxx~~ ~~xxxxxx~~ ~~xxxxxxx~~ ~~xxxxxxx~~ ~~xxxxxxx~~  
~~xxxx~~ ~~xxxxxx~~, bring with it a decrease  
 in the quantity of this substance;  
 while any obstruction to the proper  
 performance of the cutaneous functions  
 will have an opposite effect. We have  
 before alluded to the ascribed influence  
 of azotized food upon the quantity of  
 urea formed & have given our reasons  
 for its denial. But though the quan-  
 tity of Nitrogen thus introduced has

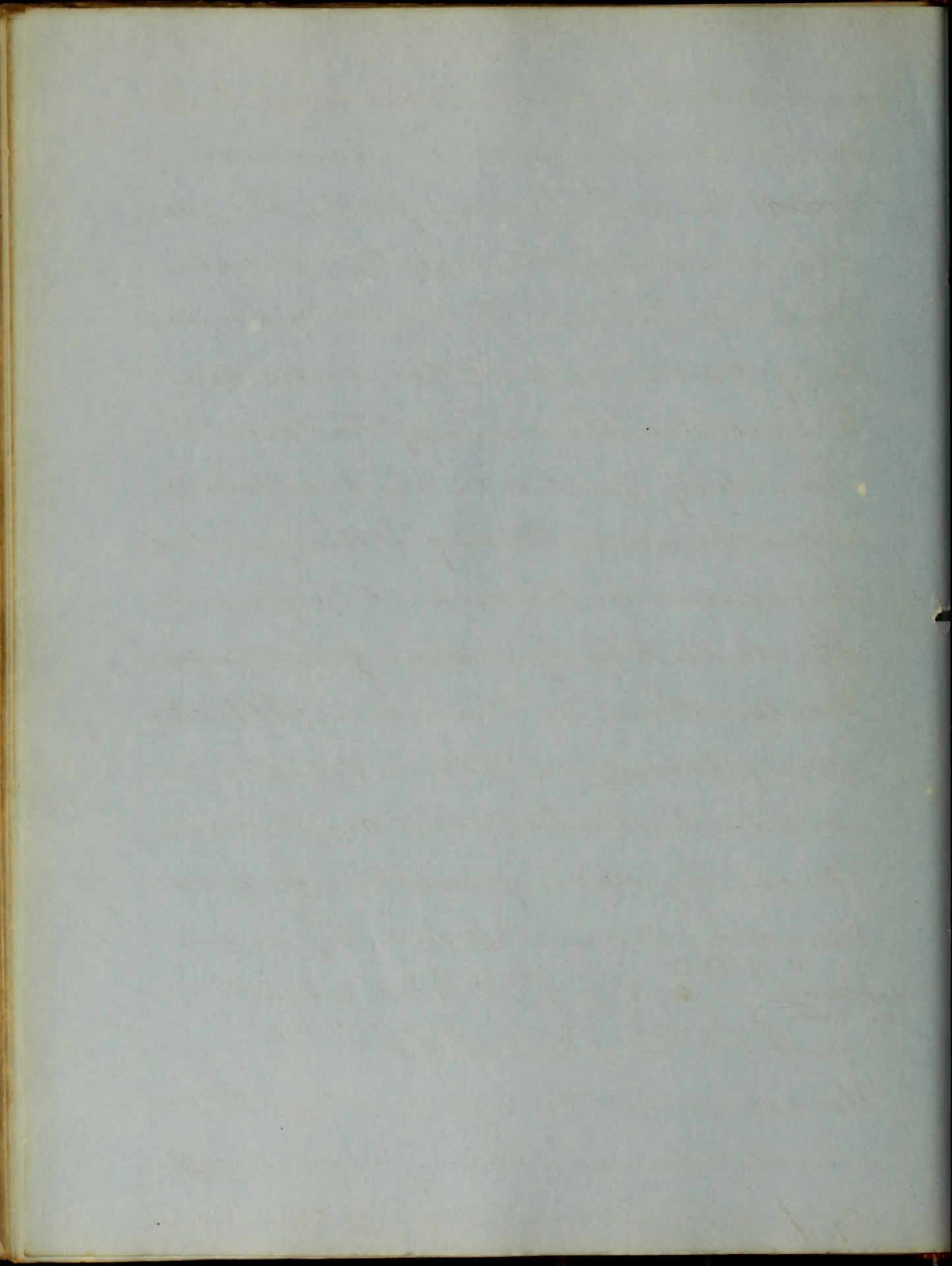
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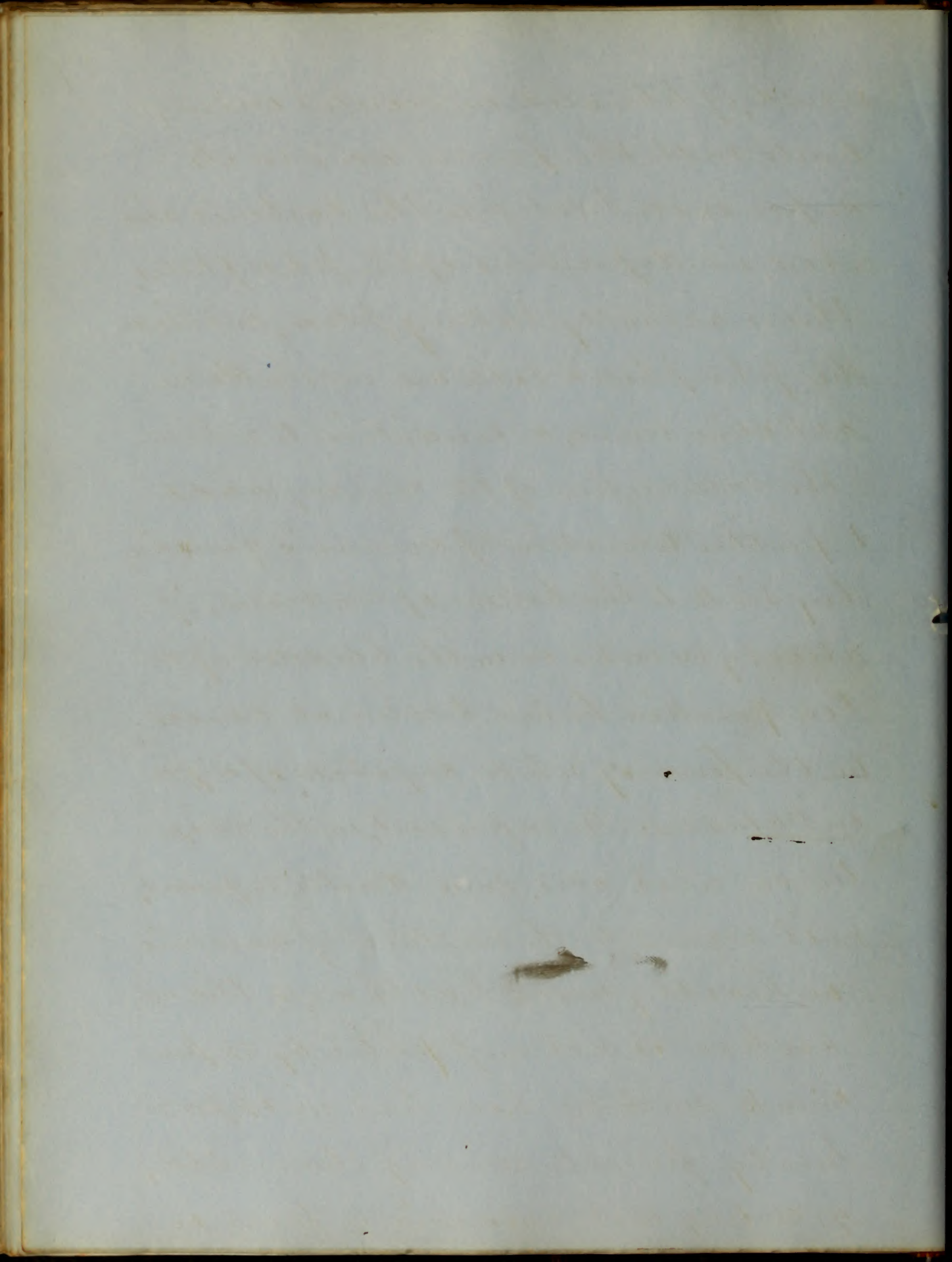
no control over this substance, it, in common with uric acid, is undoubtedly affected by carbonaceous foods. The quantity present in the secretion is also said by Lécane to vary with sex & age: being greater in men than in women & to exceed in the urine of children the quantity passed in the secretion of aged persons. Owing to diminished perspiration & increased respiration, the quantity of urea is greater in winter than in summer. Allied very closely in chemical composition to Carbonate of ammonia, urea, by decomposition is most readily converted into this salt.



The ammonia then, formed by this chemical change, having a greater affinity for phosphoric than carbonic acid,



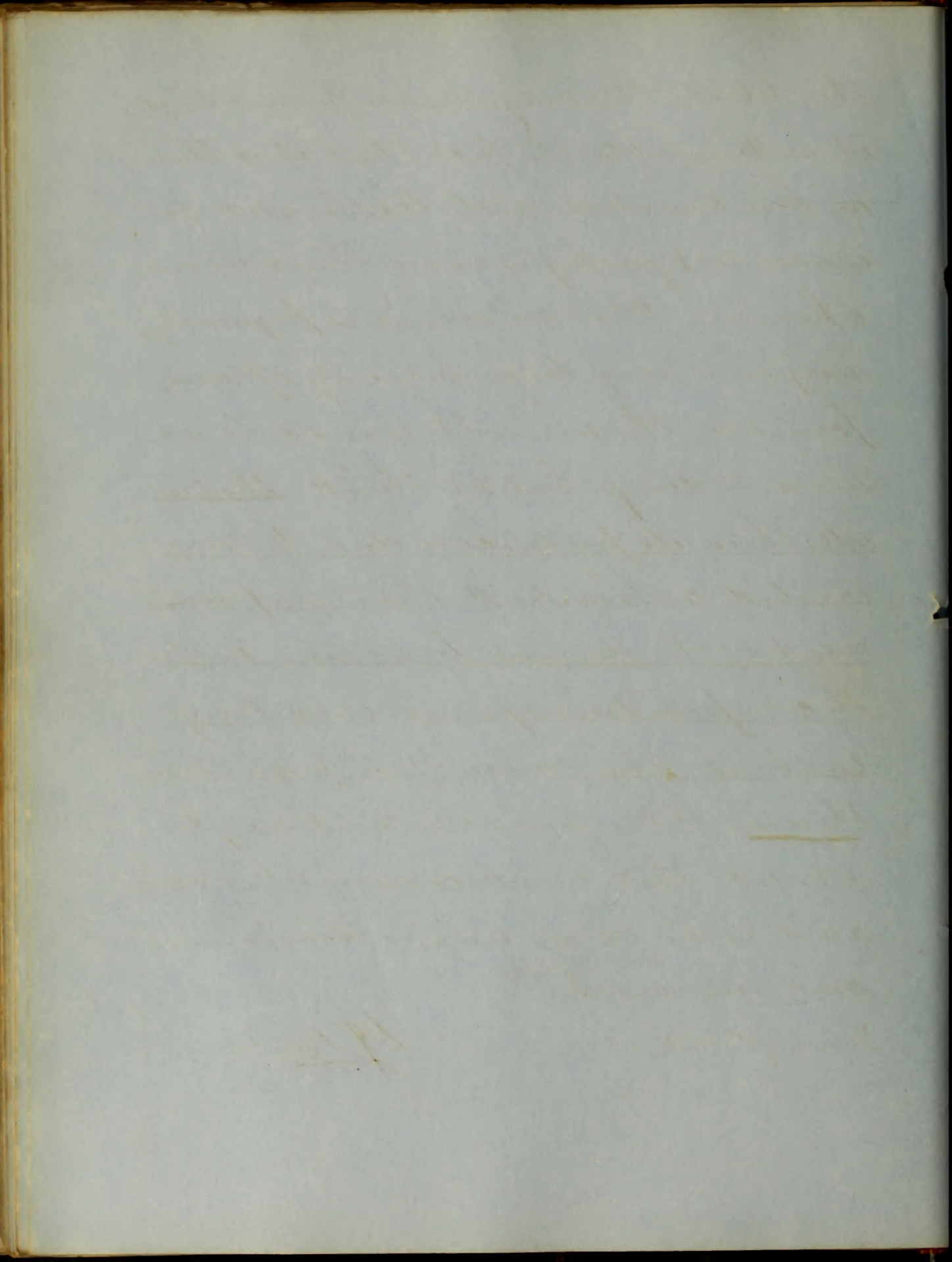
would, if liberated in secreted urine, unite with the former acid in its super salts & set free the carbonic acid. Now, in depositions of the phosphates, this is actually taking place, and since the phosphatic salts are insoluble in alkaline urine, a condition to which the saturation of the urinary acids & further liberation of ammonia give rise, they sink to the bottom of the vessel, if already excreted or in the bladder if decomposition be due to internal causes in the form of white crystals of different classes. We expressed, in the Chapter on uric acid, some doubts, in passant, with regard to the existence of ammonia in healthy urine & although the assertion is not supported by experiments, since we have had no opportunity for establishing them, still, granting that ammonia is found in



the blood, the only source from which it is derivable the fact that it is there in combination with lactic acid (as is asserted) justifies us we think in our opinion. That ammonia is frequently, nay in a very large majority of cases, found in the urine it would be absurd to deny; but we think that in all these its presence is due to some morbid action, and that impairment of the deormal function, or the decomposition of urea is in every instance, the cause of its formation therein. As a general rule, it may be stated that in all cases in which uric acid is in excess urea is diminished and vice versa.

February 1<sup>st</sup> 1850.

J. McClellan



*The Constitution of*

the

*United States of America*

*as it relates to the*

*rights of the*

*people of the*

*State of Maryland*

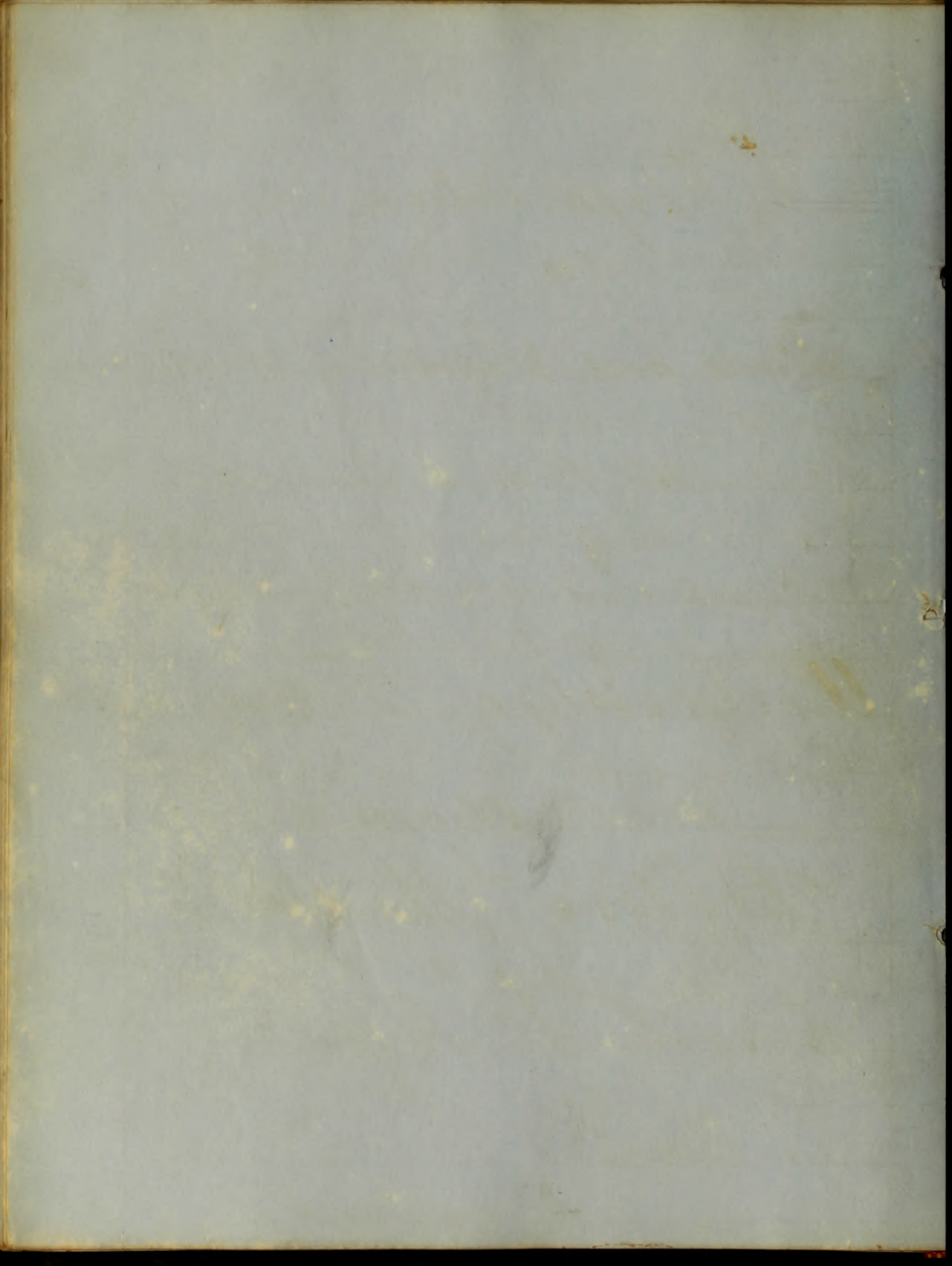
*in the year*

*1787*

*by*

*the*

*Legislature*





100 A Dissertation. Done  
on

The Study and Practice of Medicine

Submitted to the Examination  
of the  
Provost, Regents and Faculty of Physic  
of the  
University of Maryland

For the degree of  
Doctor of Medicine  
by  
Charles H. Keyser  
of  
Baltimore.  
Maryland.

Dr. J. D. ...

The ...

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# Study and Practice of Medicine

Behold if you please the student of  
Medicine. He has just commenced his career  
in that path of science which though  
here and there hedged in by thorns and  
thistles is nevertheless beautified by  
many a lovely flower. His progress is  
slow and tedious, he finds here a hill,  
and there a precipice, and yonder  
a mountain to scale. But he seems  
to have started with a full determination  
to surmount them all. Noble fellow;  
thou hast commenced a journey on a  
road that has often been trodden before.  
Many are now on the way. Some have trav-  
elled it from the morning of their days  
untill the shades of evening, and yet

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are lingering far from the top. Others having made rapid strides in the vigour of their manhood, are to be seen far in the distance, passing, perhaps, thousands who had the start of them. Yet per adventure, they tarry to gather a few flowers, form a few wreaths, and set up some landmarks for those in their rear; when the clouds gather in, darkness prevails, their path becomes obscured, and they are compelled to leave much unaccomplished. Hence it behoves the student to be diligent; his time is precious. Am I unintelligible?

I will endeavour to be plain. A student picks up a work on Anatomy: he scans page after page, there is much to interest; much to perplex him. Yet having a definite object in view, he is untiring in his exertions. —

The morning sun gilds the eastern sky;  
The dew-drops give freshness and beauty

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to the rose; the birds sing; the rivulets move  
 playfully on their way; the Cataract thun-  
 =ders; all nature seems animated. But  
 what are all these to the student of  
 Medicine? They are well enough in

their way; but his theme is man; not  
 in the abstract, but man as a tangible,  
 living being: man in the vigour of  
 health and the debility of disease.

He learns the names of the various parts  
 of the bony skeleton; has some idea of their  
 physiological adaptations; next the ligaments,  
 muscles, blood vessels, etc. Thus far all is  
 plain, though perhaps tedious. As yet  
 he has to deal with well authenticated  
 facts. That is if the general opinions of  
 all great Anatomists, agreeing in things  
 apparently plain, can be considered  
 in that light. Yet it is true that even  
 now he sees some things clothed in theory  
 and hypothesis. For there seems to be

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4.

almost a universal tendency in human nature to supply a deficiency of truth, by a multiplicity of falsehoods, or what amounts to the same thing, a disposition to account for every thing, but an ability to accomplish but little:— hence facts and hypothesis are strangely commingled. Pardon me, reader, when I say, not maliciously or decantingly, but with a sense of its justness, that this medley of truth and supposition finds as wide a sphere in the medical science, as any where else. God forbid that I should speak harshly of an art whose object is so noble. But in the spirit of candour, I think it must be granted that from the very nature of things this is the case.

Well we glanced at the student in his study of the principle parts of the human frame. Now comes Splanchnology

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5

Here is so much that is new, and strange, yet simple, that the study which he was disposed, but a short time previous, to consider as dry and ink-some, now seems truly interesting.

Few persons I imagine seeing or reading of the various organs of the human body for the first time, can fail to exhibit a marked curiosity. But when they advance farther and gain a knowledge of their physiology, with what feelings of delight do they yield their former crude and imperfect notions of human Anatomy. For imperfect they must necessarily be, until matured by proper training. We will suppose now that he has a pretty clear idea of Osteology, Synchondrology, Myology, and Splanchnology, then comes the last though not least, yet worse understood divisions of Anatomy - Neurology. The student cannot be too seriously impressed with the importance of a knowledge of the nervous system.

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6

As it is in and through it that the manifi-  
-tations of almost everything belonging to the  
human system is made evident. Notwith-  
-standing its great importance there is no  
other division of Anatomy, the philosophy  
of which is so imperfectly understood.  
Hence, I do not wish that the student,  
in being impressed with the importance  
of such knowledge, should really  
neglect other things that are of more  
immediate importance. Far from it: but  
what I am endeavouring to arrive at, is,  
that though in the brief time allotted  
us we are judiciously advised to give a  
knowledge of the most useful and best  
established principles of the Science,  
yet that we are not to look upon a knowl-  
-edge of the Nervous System as of trivial  
importance: but on the contrary, should  
carry with us, from the halls of Medical  
instruction, a determination to learn

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what has been, and what is yet to be established, in regard to the nervous system. For assuredly this is a field upon which the rising generation of the profession should early endeavour to take an interest.

Not that they are to reap immediate benefit from such a course, or that they are the most competent to handle the subject. but for a profitable investigation of such an abstruse, yet really important branch of Medical science, I deem it to be highly necessary, that its cultivation should begin in the spring time of life, so that by a long, and concentrated attention to the subject they may ultimately contribute something towards its advancement.

I repeat, that I am not, more than any one else, in favour of a student in the short time allotted him for the completion of his preparatory studies,

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neglecting really practical information,  
 for a knowledge of this; but merely that  
 he should not, as many do, consider  
 such knowledge as of little value,  
 because he is not required to be thoroughly  
 acquainted with it whilst yet  
 preparing for the Green Room!

Our tyro having made himself  
 master of the principal parts of Anatomy  
 and physiology, next commences Surgery.

He is at once delighted with the apparent  
 simplicity of its principles; and in his  
 inexperience, wonders why it is that there  
 are so few good Surgeons, when the rules  
 specified for their guidance seem so  
 plain. — Little does he suspect that  
 even the authors of some of his best  
 text books are more successful in the  
 flourish of their pens; than they  
 ever were with their Knives. —

The association of a ready writer upon

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

9.

Surgery, and a skilful Surgeon, is a natural  
inference on his part.

How many visions flit before our  
nooice in Surgery. Page after pag is turned  
over, each succeeding one more interesting  
than the preceding: his mind is filled  
with aspirations; he gives freedom to his  
thoughts, when, behold! he is in imagina-  
tion, summoned to some great man,  
surrounded by his friends, whose life  
can only be saved by an amputation  
of a limb. The operation is performed,  
and by him. His praise flies upon the  
wings of the press throughout the  
length and breadth of the land. What  
a glorious vision, to be sure! Read on  
my good fellow; it is well that you  
should have some beacon light, if only  
a phantom to stimulate your progress.  
May the Goddess of success be always  
with you, and your grandest anticipations

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

be fulfilled. — Our author on Surgery is finished: another began: The second performs operations differently from the first; he differs in regard to the proper time for their performance; also as to the fit subjects for such operation. He claims, and probably, justly, the usual success in the practice of the art according to his theory and experience. The student is perplexed: a question arises in his mind if this, the best founded and simplest of the divisions of medicine, is really as represented. He consoles himself, however, with the fact that he is not bound to adopt for his standard in practice any thing but what may appear to him the best. He is now getting a better incite into the claims of medicine to the rank of a science; and to know that unlike most collateral sciences, she has not many

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11.  
well founded principles, but leaves her  
paramour great latitude for the  
execution of her precepts. —

Next comes *Obstetrics*. It is natural  
that he should become pleased with this  
also. He is by this time better prepared to  
appreciate this branch of medicine.  
There is much here for reflection and  
instruction, for, though this division of  
the medical art was by the royal College  
of Surgeons in England, not many years  
since pronounced to be unworthy of the  
study of gentlemen, and actually  
carried out this view by prohibiting  
their degree to be conferred on an  
obstetrician, yet time the rewarder  
of all things has shown this to be one  
of the most important, as well as  
interesting parts of medicine. And at  
this present day, no man is estimated  
more highly, at least in this Country, than

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eminent Obstetricians. And so it should be;  
 for it requires one well skilled in the art  
 to be able to know, not only what to do for the  
 suffering woman, but also, and not less  
 important, to know, when to refrain from  
 doing. And surely no man preliminary  
 education is necessary to befit a man  
 for all the trying duties of a lying-in  
 Chamber. As in the course of his practice  
 it becomes obligatory on him to mingle  
 in every grade of society, and exclusively  
 among that sex most entitled to the  
 demands of etiquette, and politeness. He  
 must be one of no mean address or  
 accomplishment. And above all, he  
 is the man from whom the agonising  
 and disponding female is to receive  
 words of comfort and consolation.  
 And will it now be said, that one  
 from whom so much is expected, is  
 not entitled to the rank of a gentleman?

*[The page contains approximately 25 lines of extremely faint, illegible handwriting in cursive script. The text is too light to transcribe accurately.]*

Well then, this is a branch deserving of as serious a consideration by the student as any other. In regard to the various divisions and subdivisions as given by different authors, he need only exercise his judgment to discriminate the useful from the useless. And I feel assured that no student, at the present day will neglect this all important branch of study; that is provided his intention is to practice in civil life.

How is it with Materia Medica?

This department of medical science has great claims on the attention of the student. To adopt the language of an eminent professor of a neighboring school, we may remark: "As well indeed might a mechanic attempt to carry on his operations without an acquaintance with his tools, as we to exercise our profession ignorant of the properties of our remedies."

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But it is not necessary for me to insist on the value of this branch to the student I believe that there are but few that are not aware of its importance. But what I wish to urge is, that more attention ought to be paid to the physical properties of drugs. For independent of the advantage that such a knowledge would be to the practitioner by preventing him from being imposed upon by an ignorant or dishonest Apothecary, he by such an acquaintance becomes familiar with what he so often is called upon to prescribe. He only who has pursued this course can truly appreciate the advantages that the physician, who has studied drugs, not only in the abstract, but in substance, has over the one whose information is obtained solely from books. To this Clap of the profession I appeal for a confirmation of what may,

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That ought by no means, be neglected. Yet, as the time adapted by the student for his preparation for the "Green Room" is so very brief, I would advise him to pay most attention to the general principles of the science, and to the part that treats directly of the tests, antidotes, and incompatibilities of such medicines as are at present in general use by the profession. More than this he cannot attain in the brief period allotted him; and at the same time to do justice to the other departments of the medical science. — We at length arrive at what may be termed the key stone of our study: — the Theory and Practice of Medicine. This is the grand embodiment <sup>all</sup> of the other branches. A knowledge of Anatomy, Physiology, Chemistry, etc, are to be viewed as only preparatory to this. With what alight does the student pursue this part of his study. If he has left it as the last branch of which

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bed of death to see such evidence of disbelief  
 in medicine. How often do we hear prac-  
 titioners of emmunece acknowledge their  
 incredulity of the very art, by the practice  
 of which they earn their daily bread.  
 But then we also know that intelligent men-  
 phylosophers if you please, are every day  
 disputing about the plainest things in  
 Christendom? therefore it behooves the  
 novice to be slow in advancing any  
 argument pro or con the medical  
 science. The Skeptic in medicine  
 should among other books read Prof.  
 Bartlett's phylosophy of medicine, he  
 will there find a candid and just  
 view of the Claims of medicine as  
 as a science. The author of these  
 scintillations of the mind, would merely  
 add, that he is thoroughly imbued with  
 the propositions put forth by Dr Bartlett  
 Again, I have heard it said, That no man

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19.  
can test another's qualifications in that branch  
of medicine called Theory & Practice  
hence say they, another proof of its humbugginess:  
but it is false, there are principles in  
medicine that are as universal in their  
application as the most of those in other  
divisions of physics. On the contrary a  
deficiency of such knowledge in a candidate  
for diplomatic honours, can, and will  
be, detected not only by the Professors of  
this and that particular school, but  
by medical men of standing in any  
country. There are few writers but  
what agree in most of the cardinal  
points of medicine; But because we  
cannot cure a confirmed case of  
consumption; or command the dying to  
rise and walk, are we to be stigmatised  
with the name of humbugg? However  
there is some truth in the saying; "that a  
man has pleasure in the study of medicine

On the 1st of August 1844  
I received your letter of the 27th  
and was glad to hear of your  
return to your dear home. The  
affection of the family is  
ever yours and the family  
wishes you to be well and  
happy. I am ever your  
affectionate father  
John Smith

and the practice of law; but the reverse is a very different theory. Iro, unto that young man who commences the practice of medicine without some of the "ready chunk" to pay his way for the first few years. How many have in imagination figured to themselves (Pardon me gentlemen) a fine buggy, a fine horse and a practice equal to J. Smith's; and have in the course of a few months become disheartened, and have sought some more lucrative employment. At the present day, when every physician who has a dozen families, or who has none, (it matters but little), to attend must have a buggy, to dash through the streets with, it is no wonder that young men soliloquize thus: The practice of medicine is surely very pleasant and profitable, for behold! how busy Dr. M. is and with what fine style he trips along the streets. Why two years ago he was a clerk in Mr. B's store at a salary of three hundred dollars per annum,

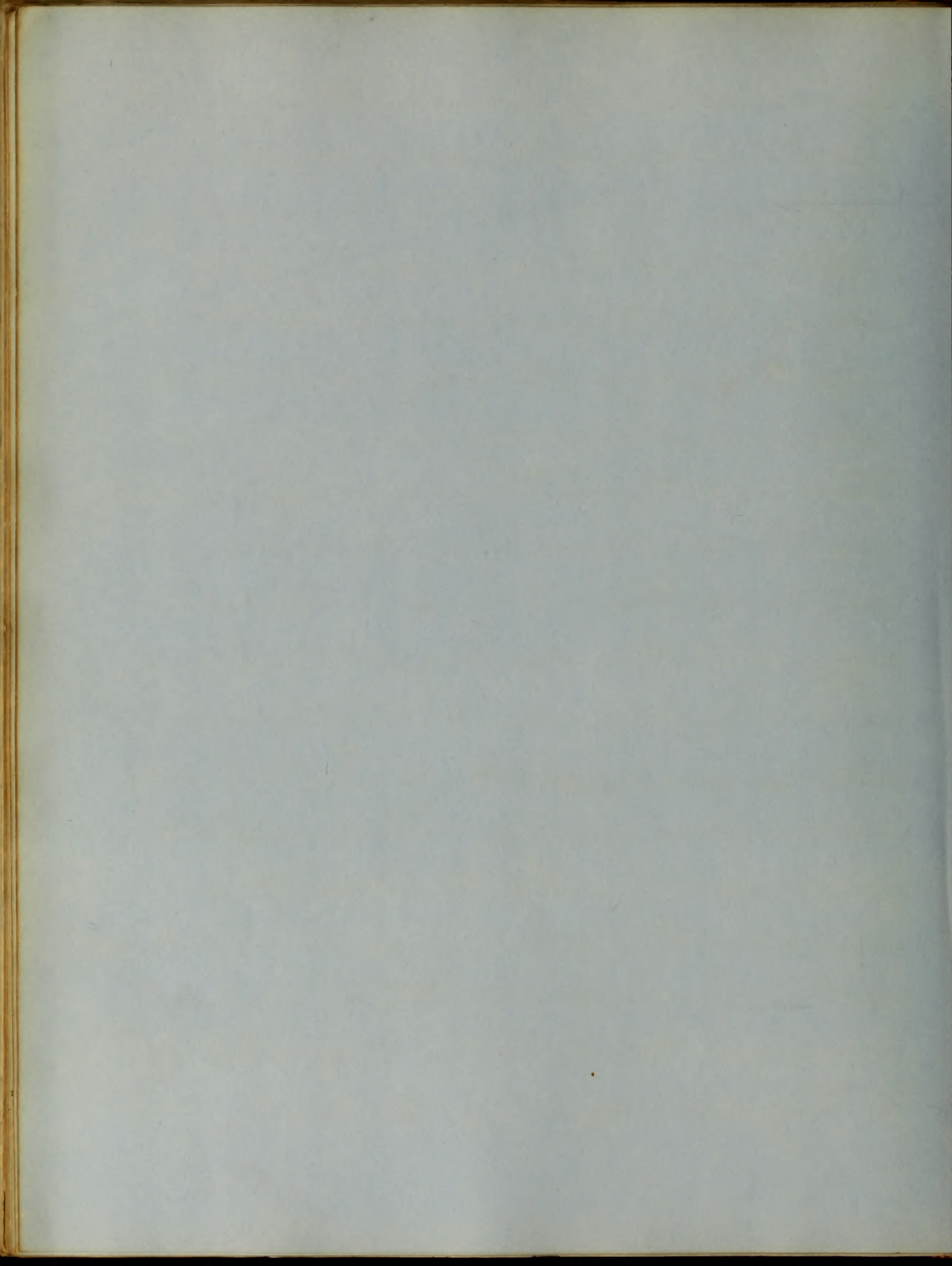
The first part of the paper  
is devoted to a general  
survey of the subject  
and to a statement of the  
principles which should  
govern the conduct of  
the investigation. It is  
then divided into three  
parts. The first part  
contains a description of  
the various forms of  
the disease, and a  
statement of the  
symptoms which  
accompany them. The  
second part contains  
a description of the  
various methods of  
treatment, and a  
statement of the  
results which have  
been obtained. The  
third part contains  
a statement of the  
conclusions which  
have been drawn  
from the foregoing  
facts.



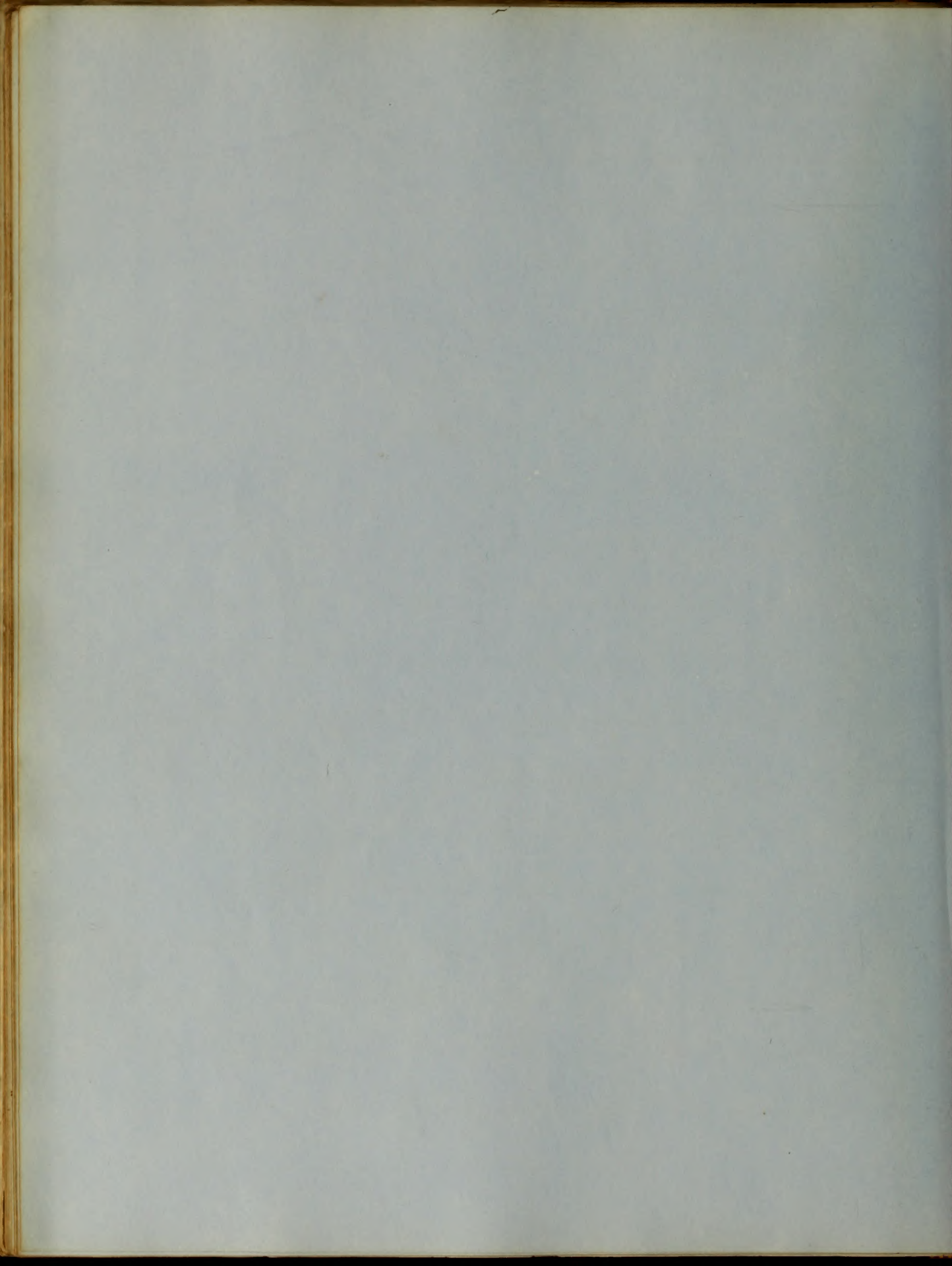
I believe I will study medicine: Hence year after  
 year, the halls of medical science send  
 forth upon the community scores of hungry  
 doctors; and the cry is still they come;  
 Hence the strife and discord that arises,  
 when the gaudy shingle of Dr. Co and so  
 become next door neighbours: when perhaps  
 there are not more than a dozen pay families  
 in the neighbourhood. Such seems to  
 be the state of things at the present  
 day. How then can I expect a life of  
 ease and pleasure to the tyro in  
 medicine. Let every one that select  
 medicine as his study rest assured, that as  
 far as improvement of the intellectual and  
 moral faculties are concerned, he has selected a  
 most noble profession; but if he desires to  
 accumulate wealth, he had better emigrate  
 to the golden regions of California.

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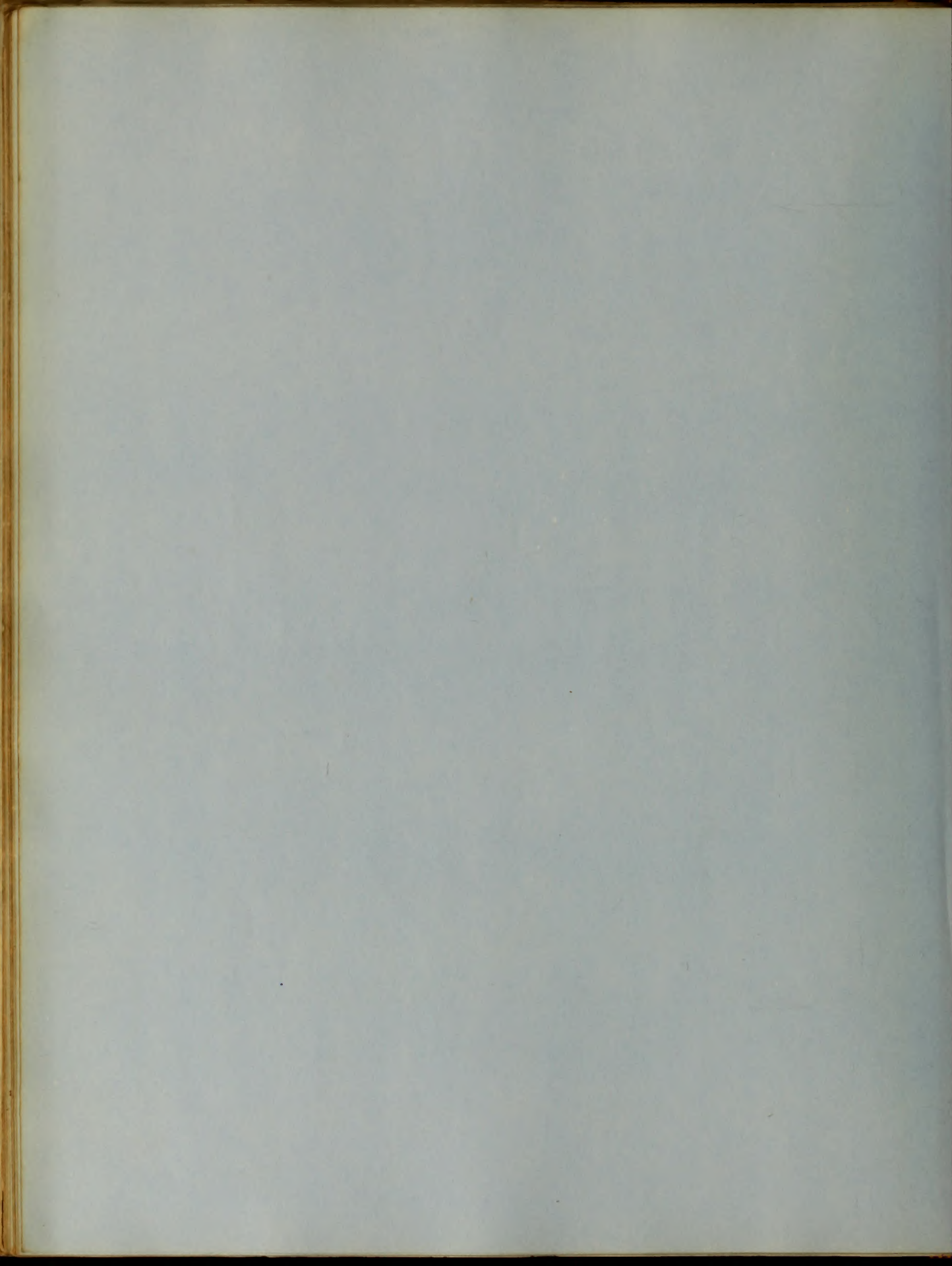




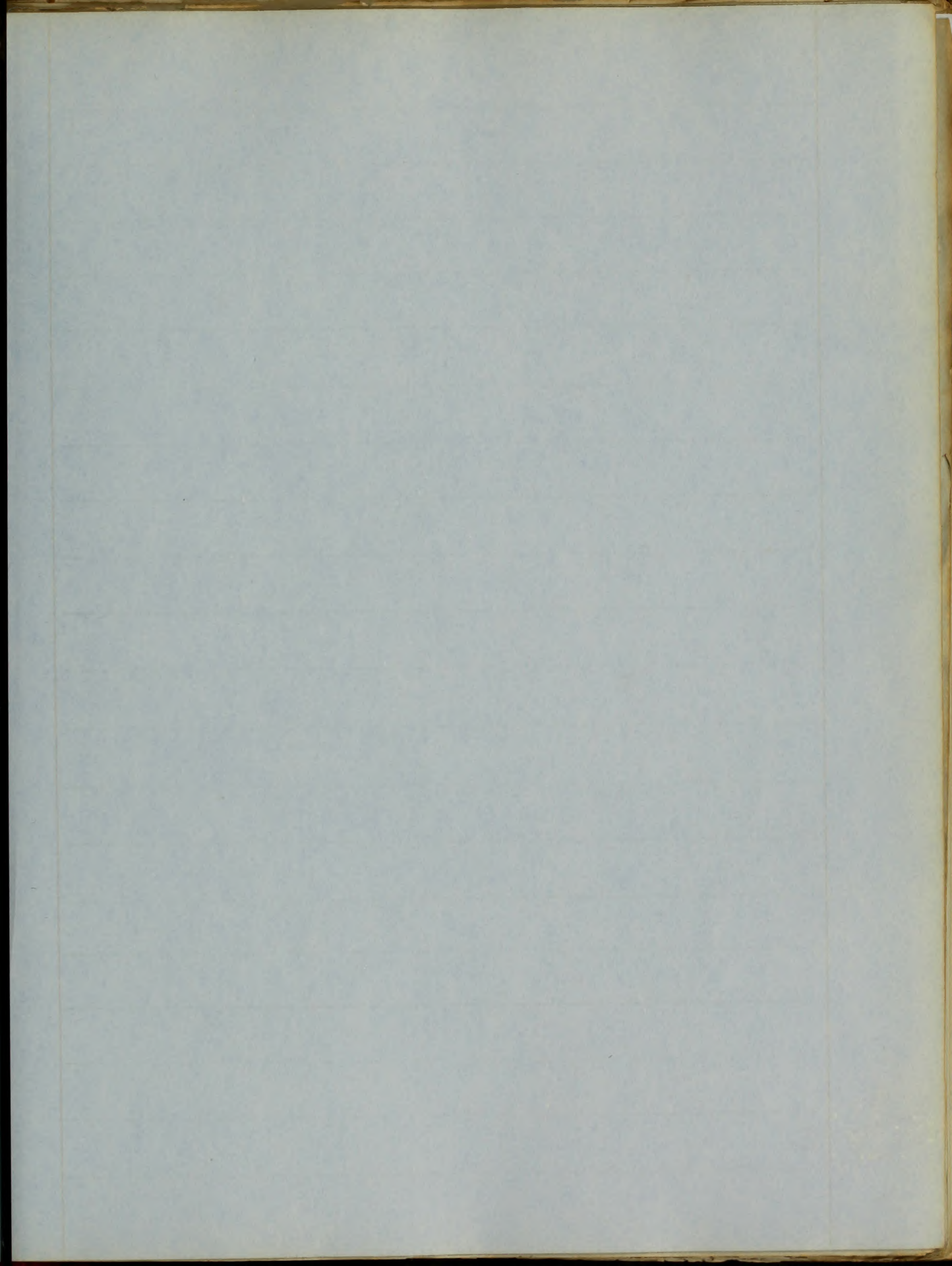


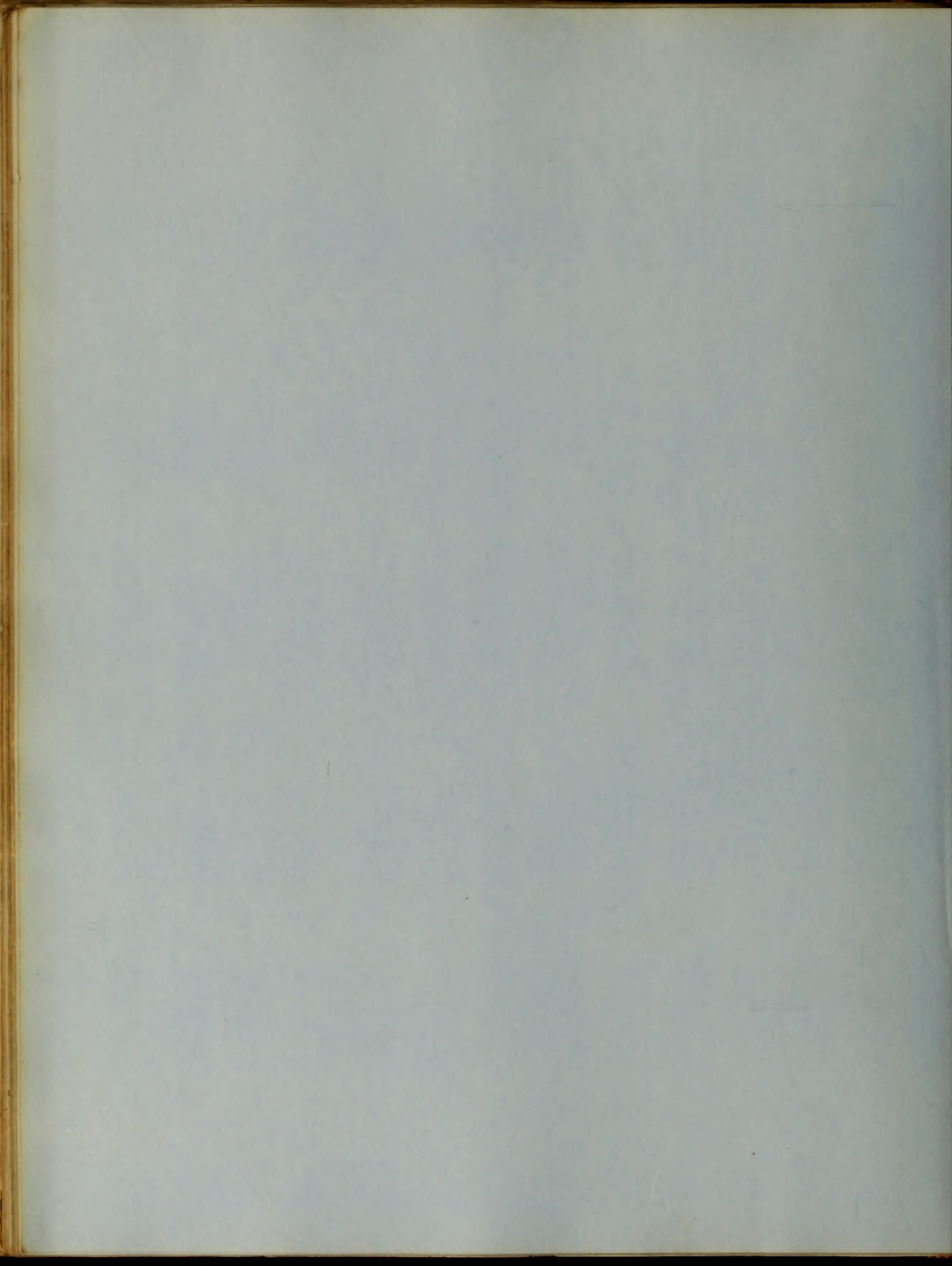


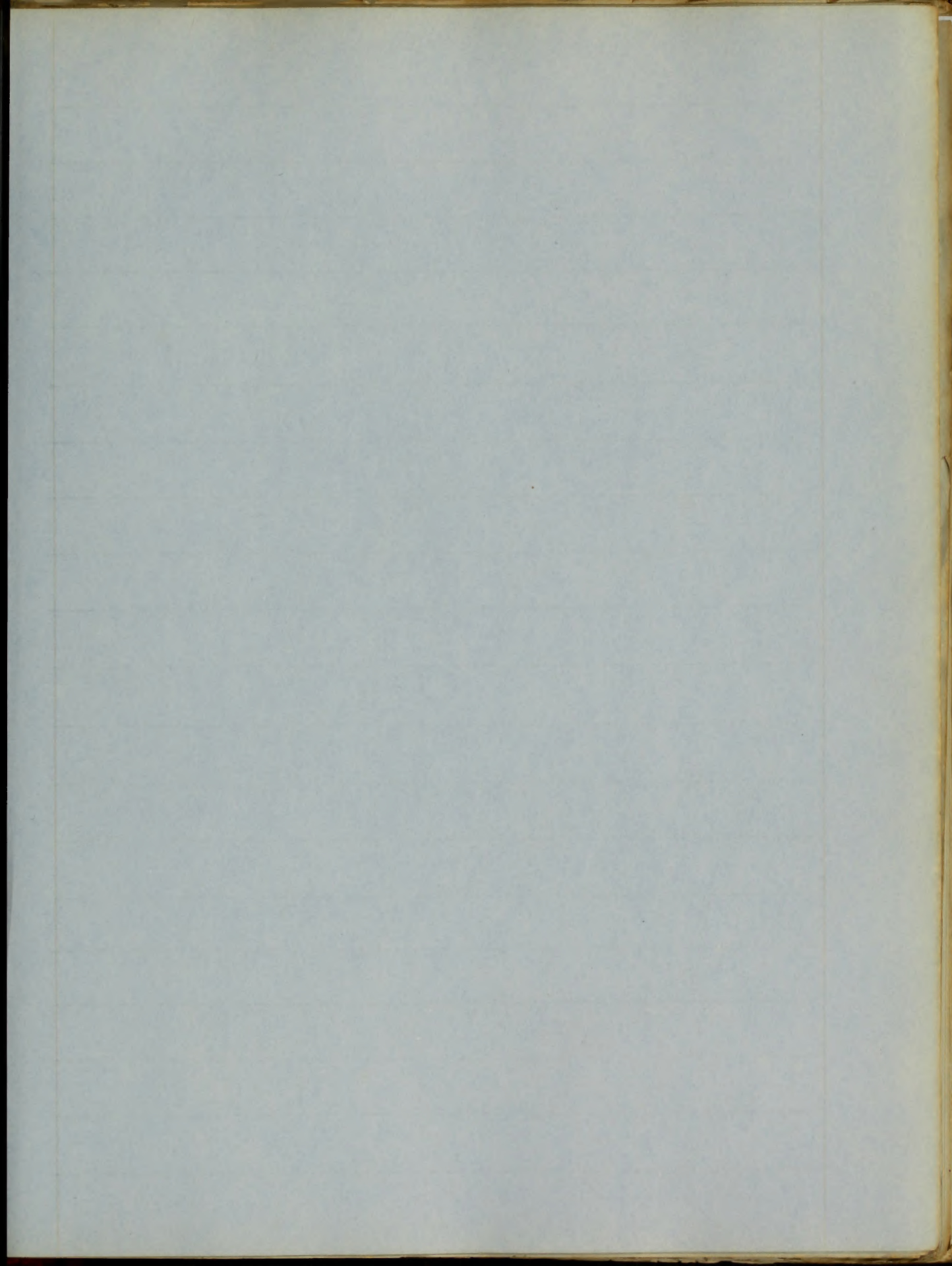


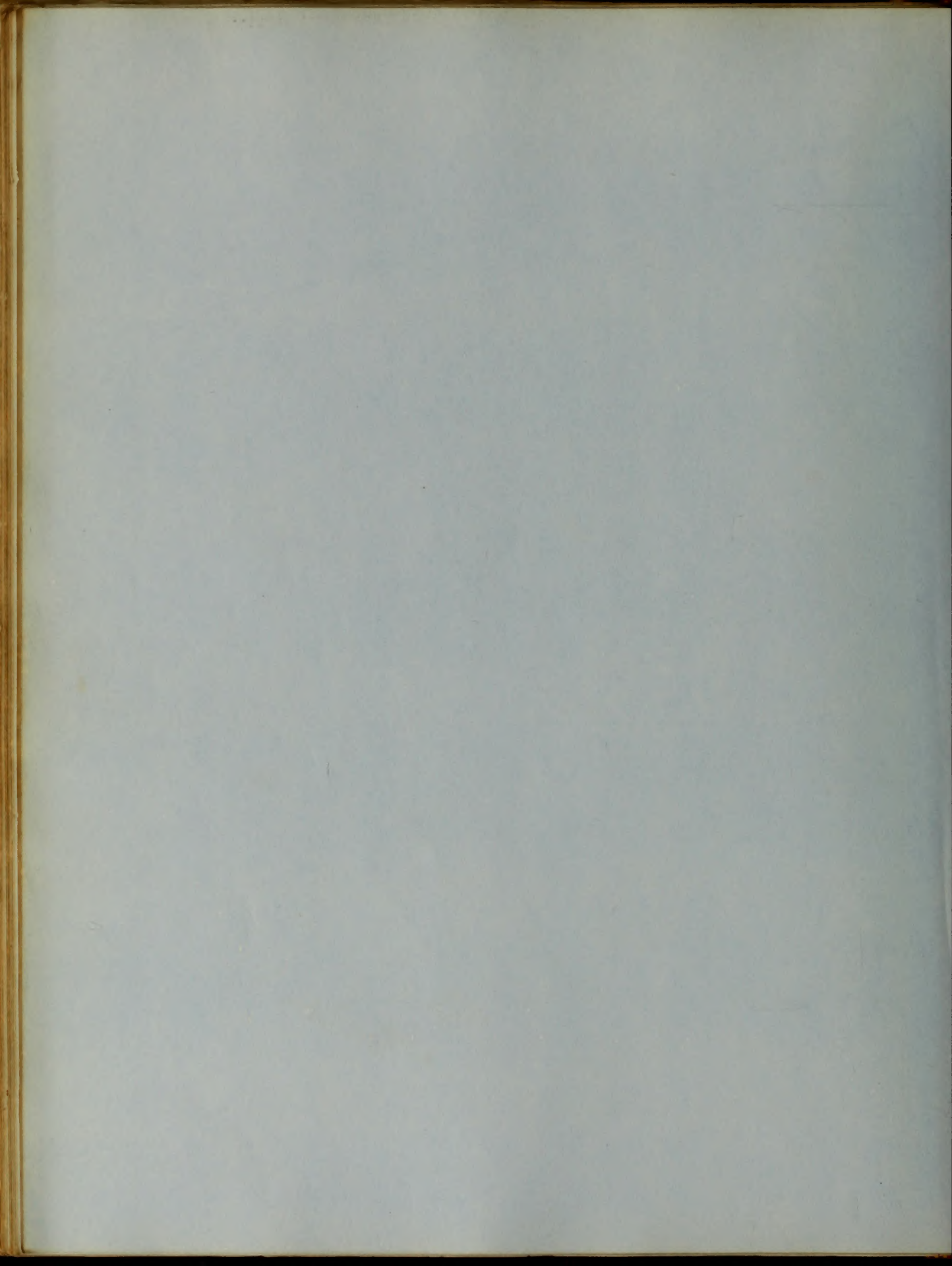


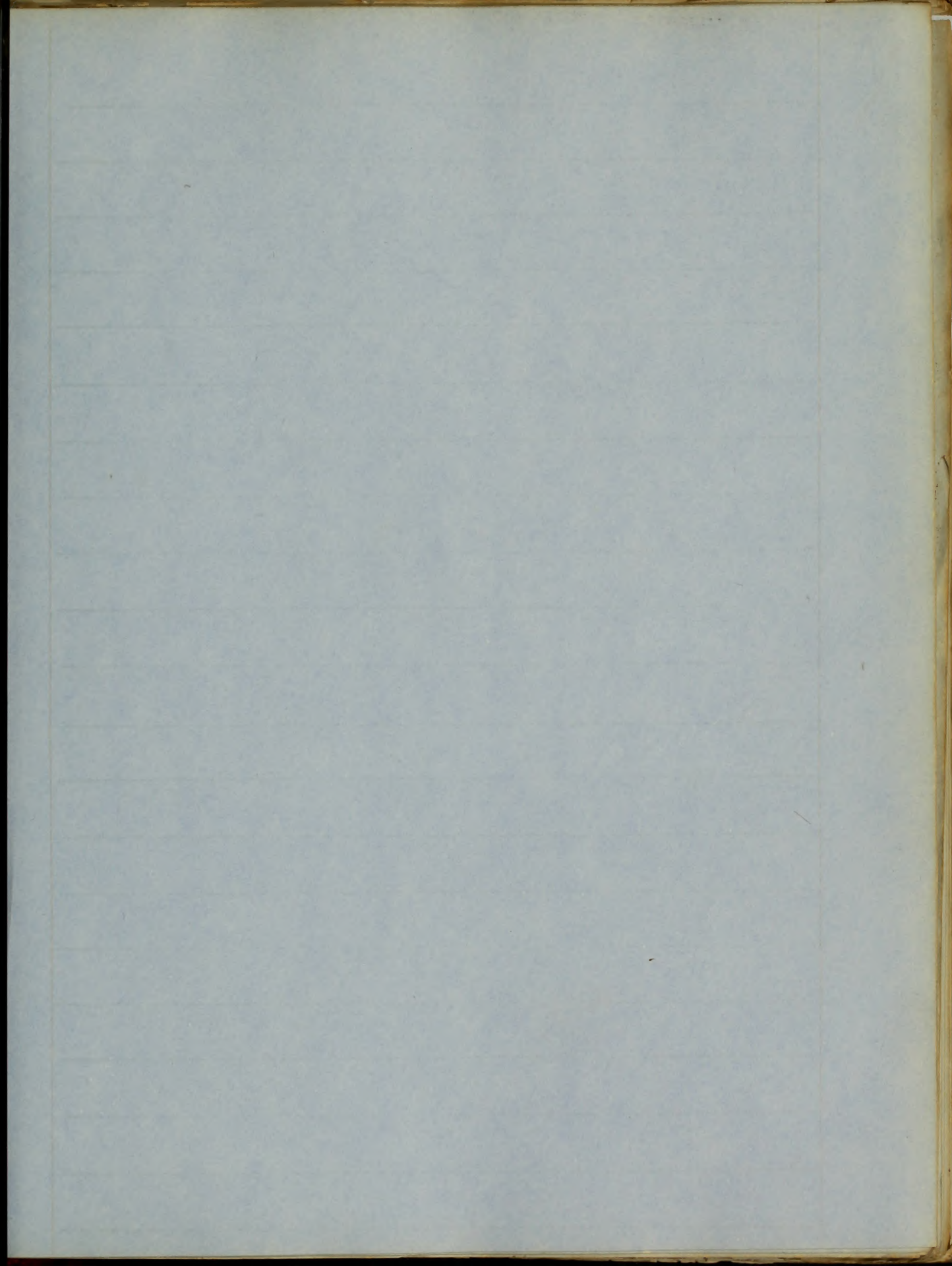


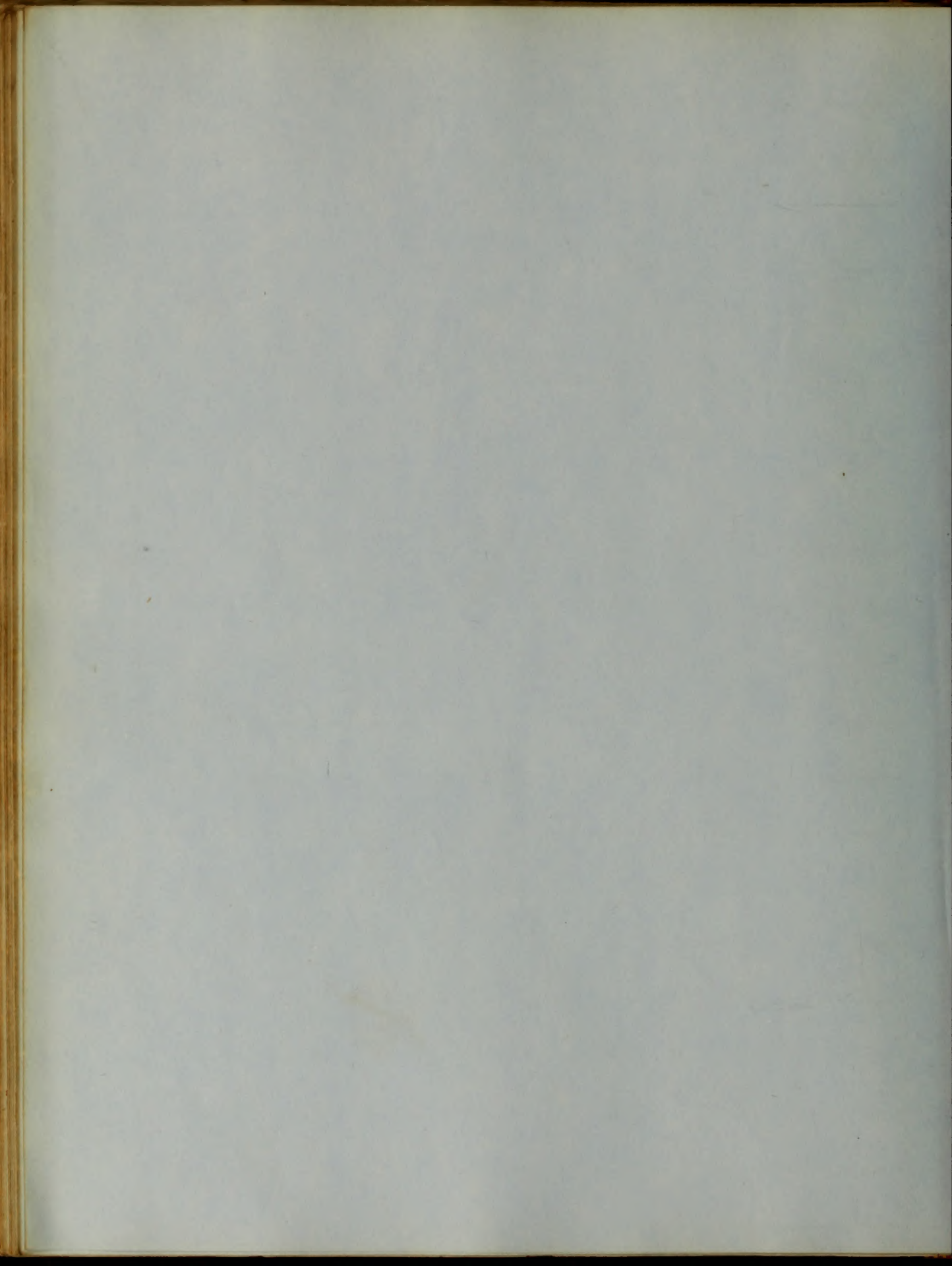


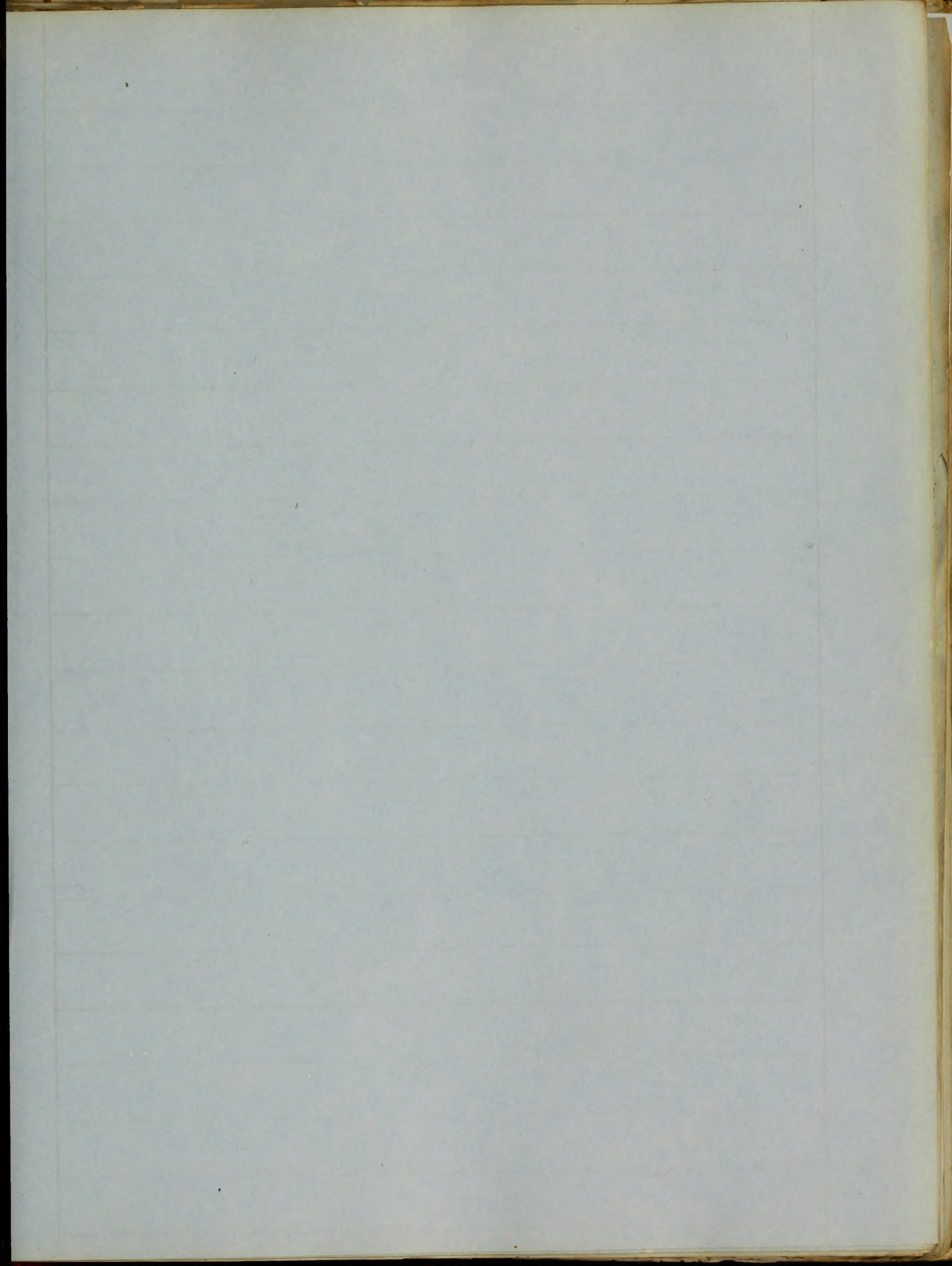


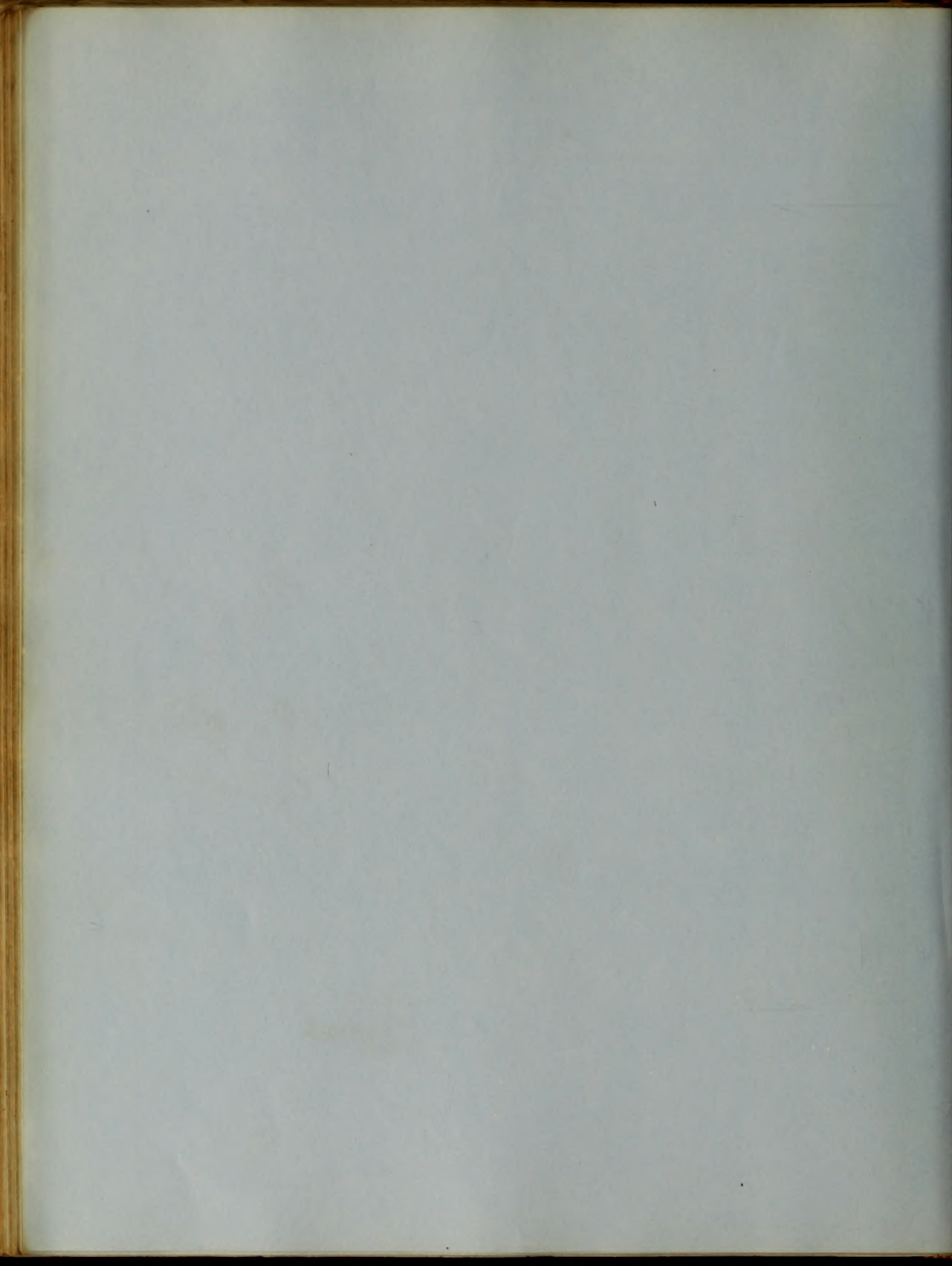




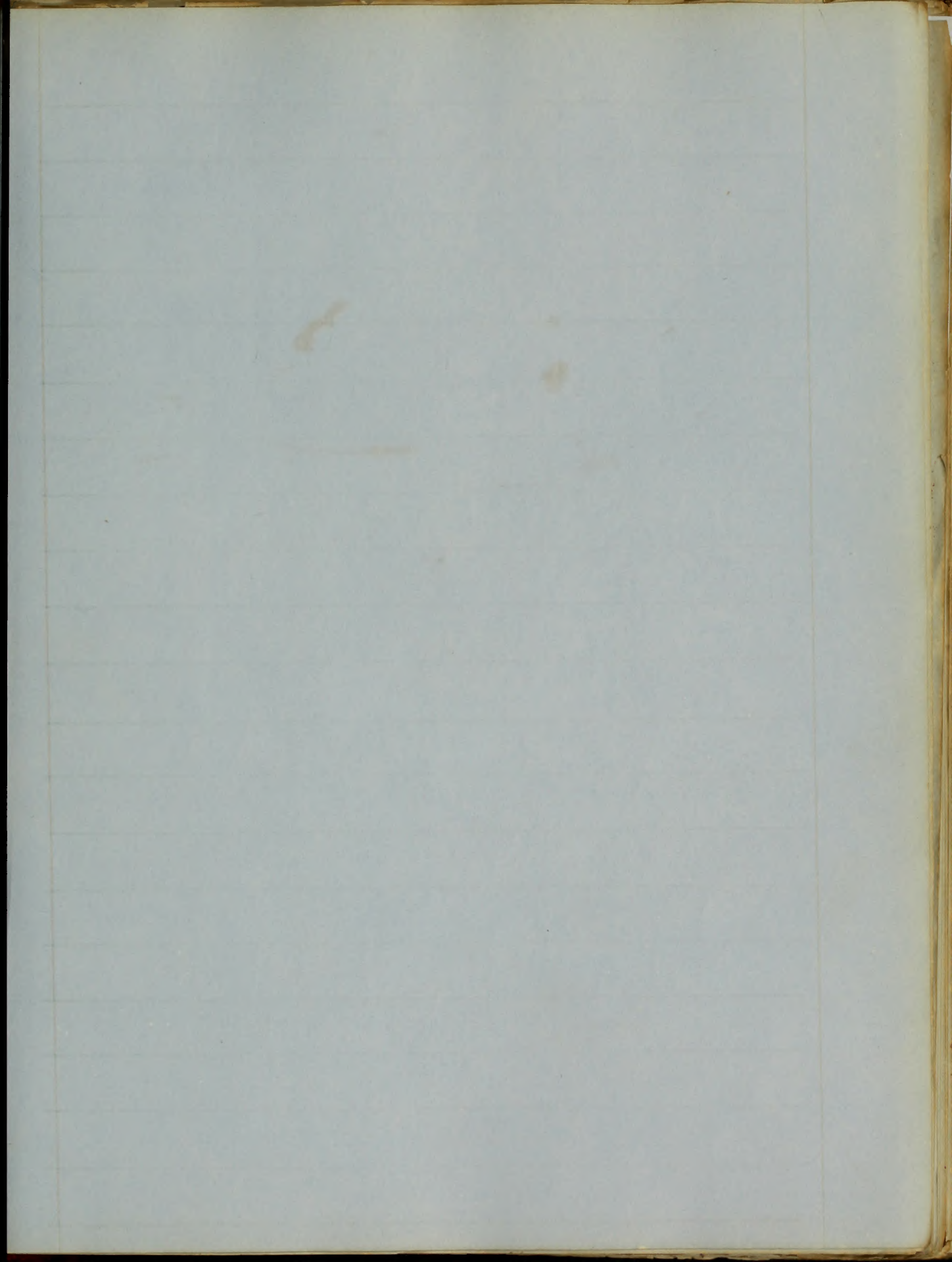




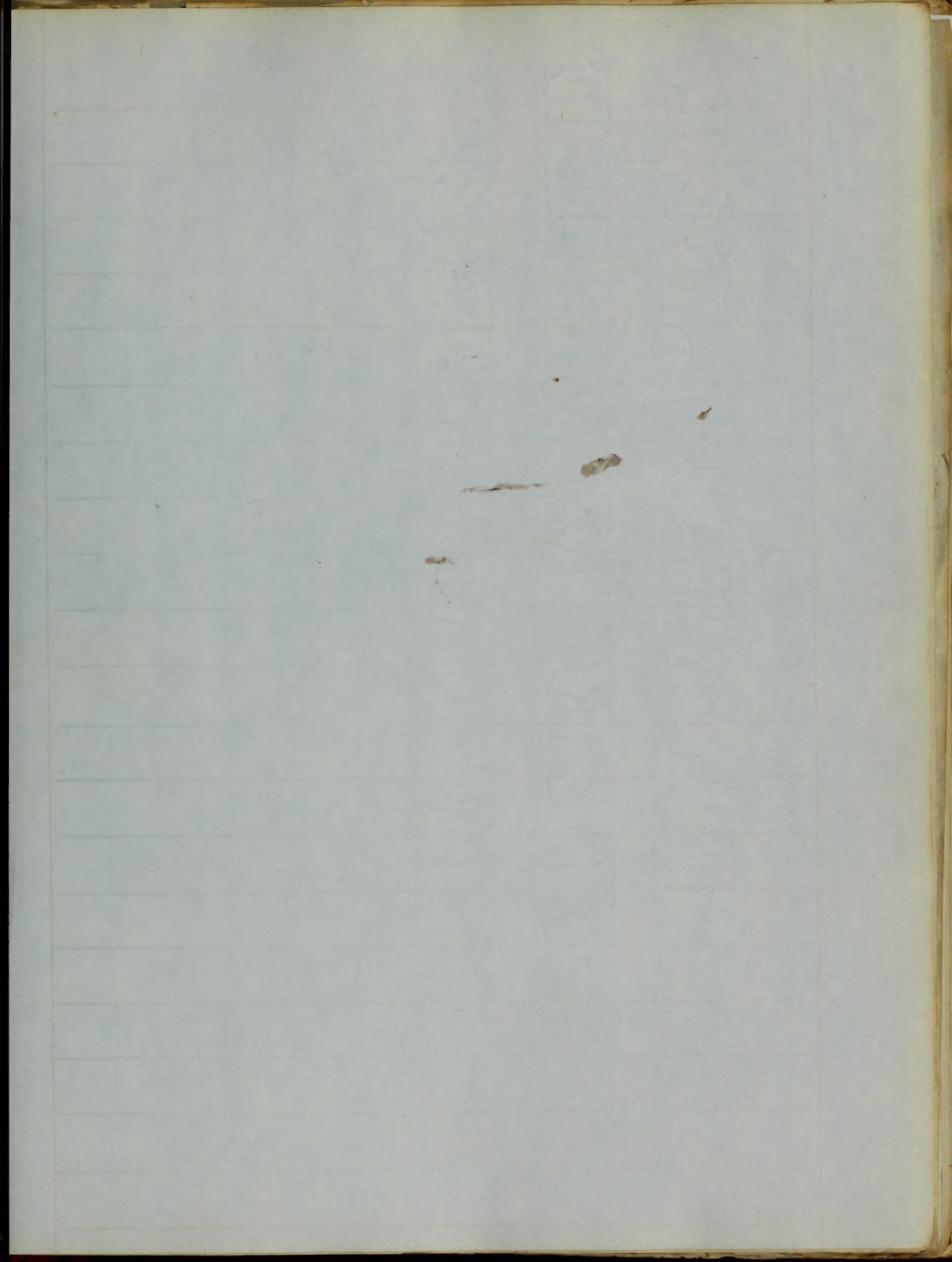


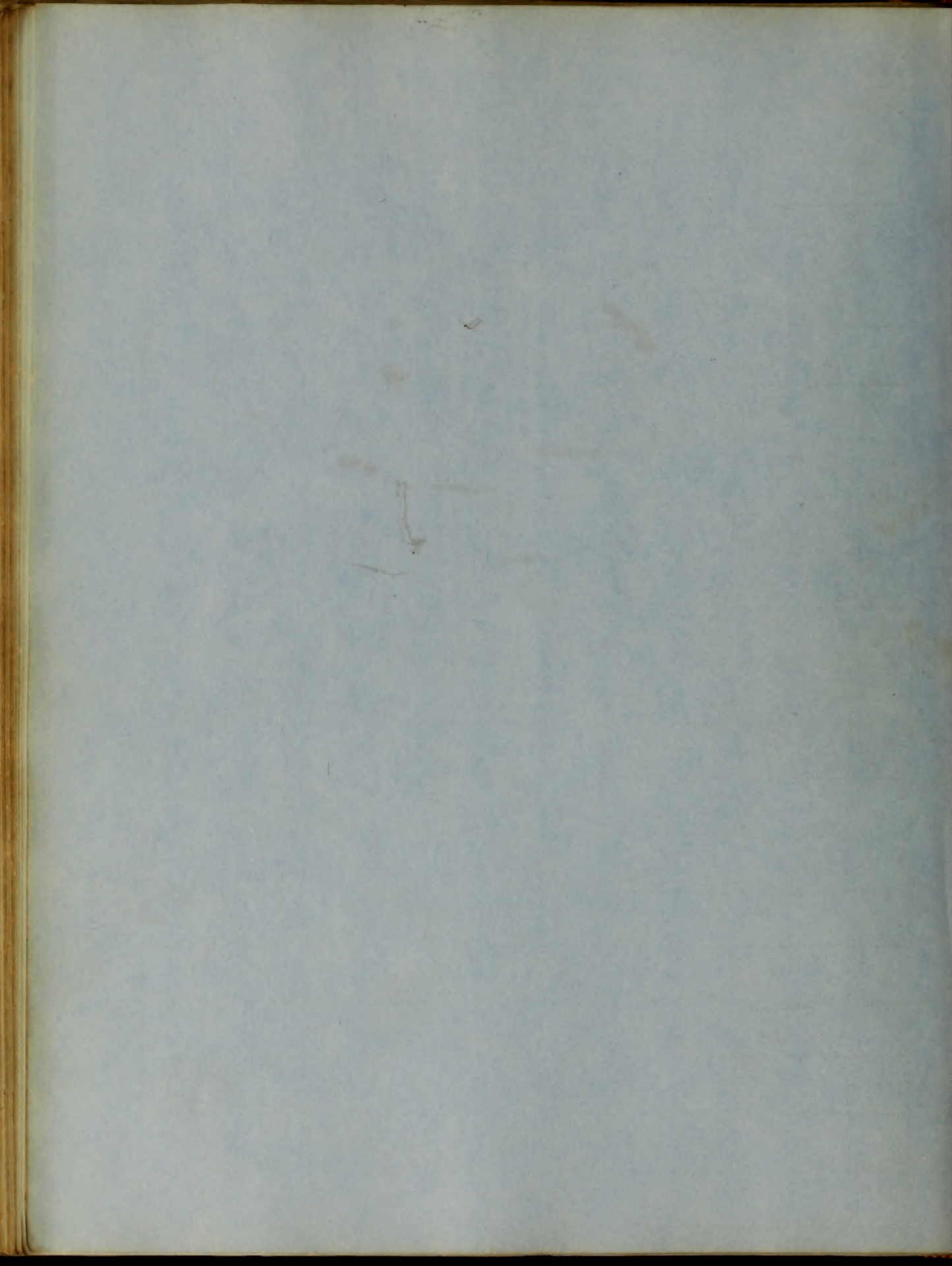


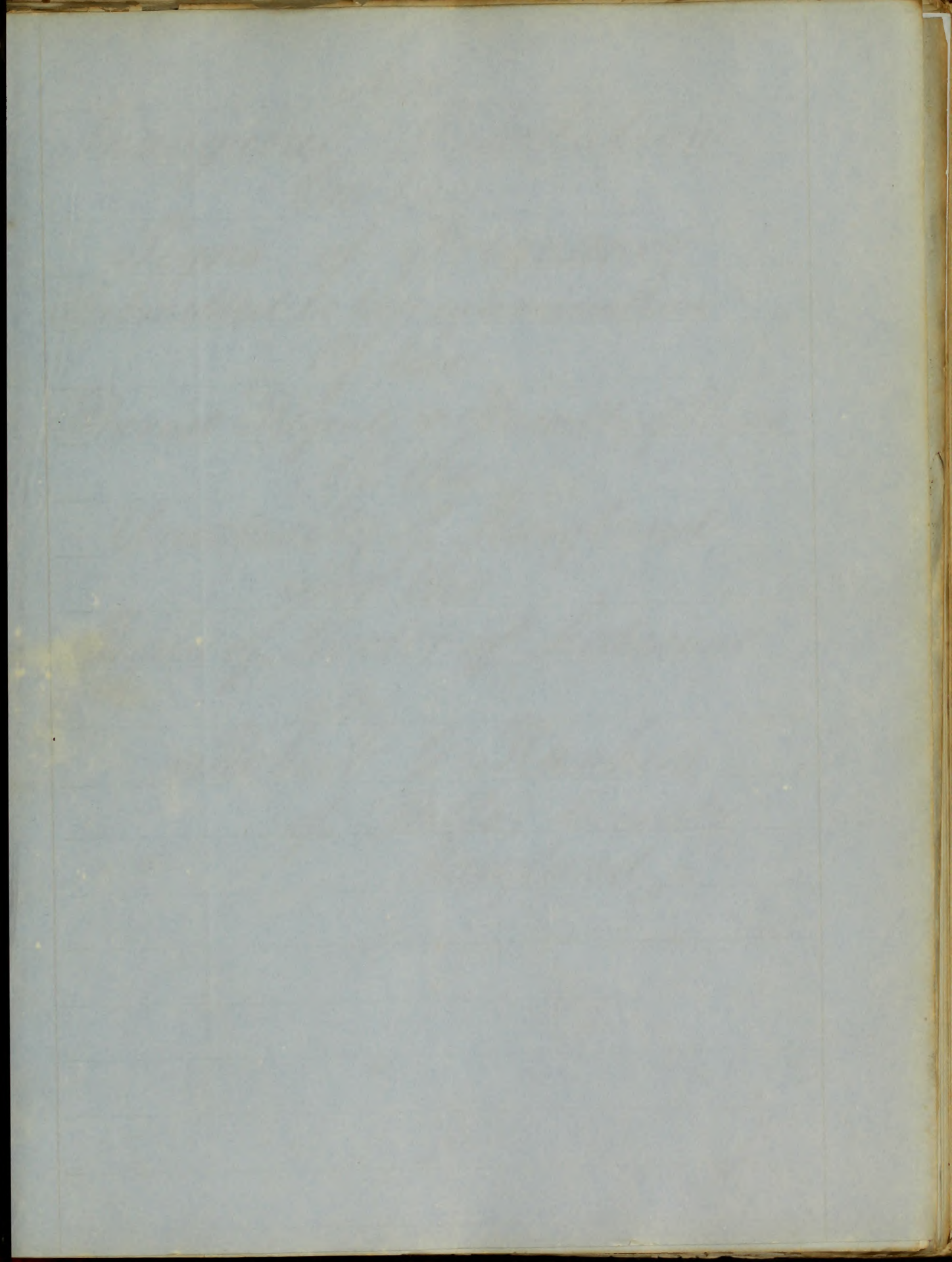


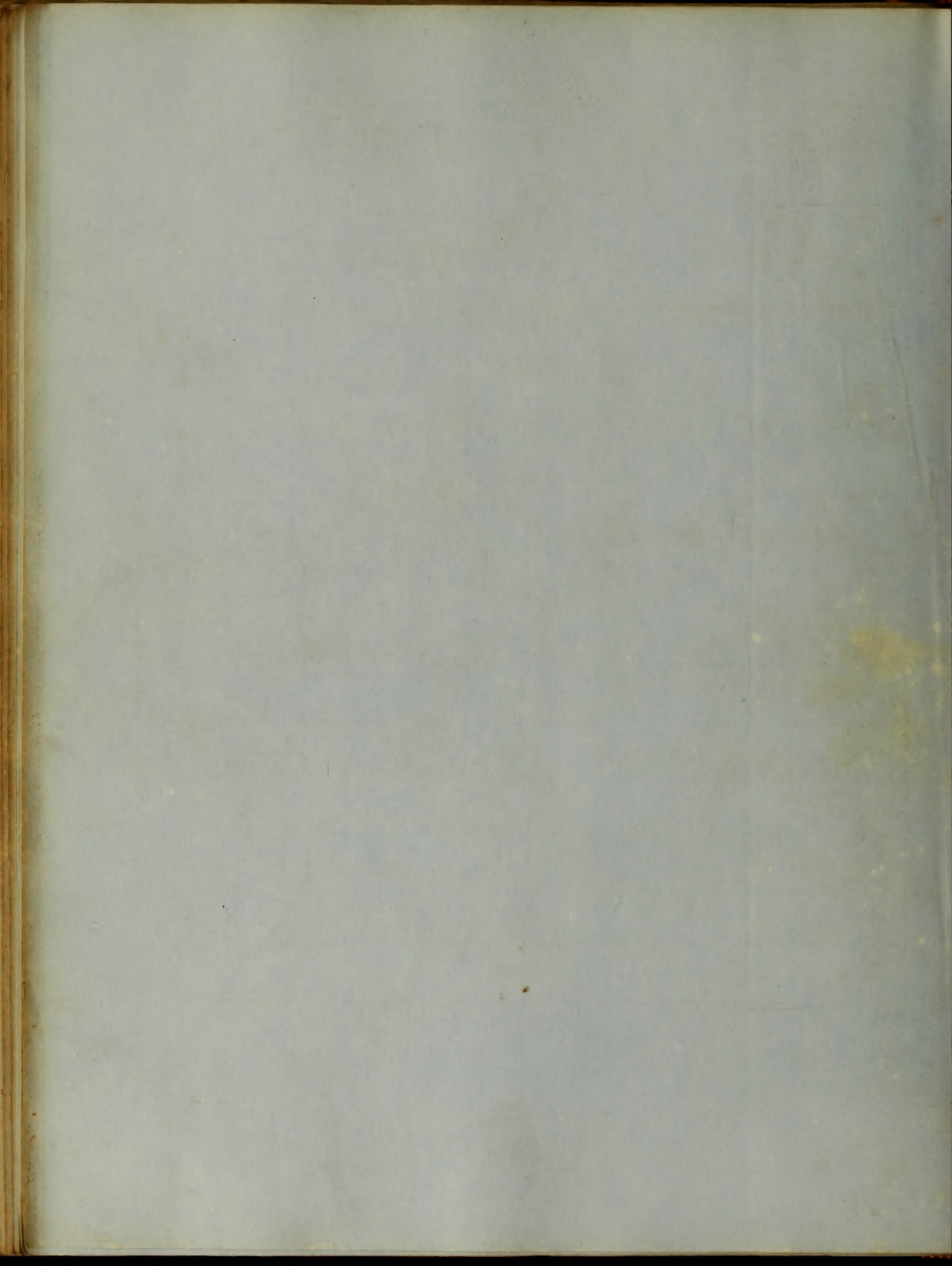




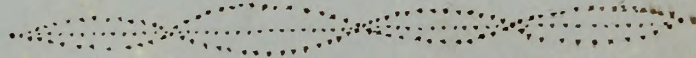


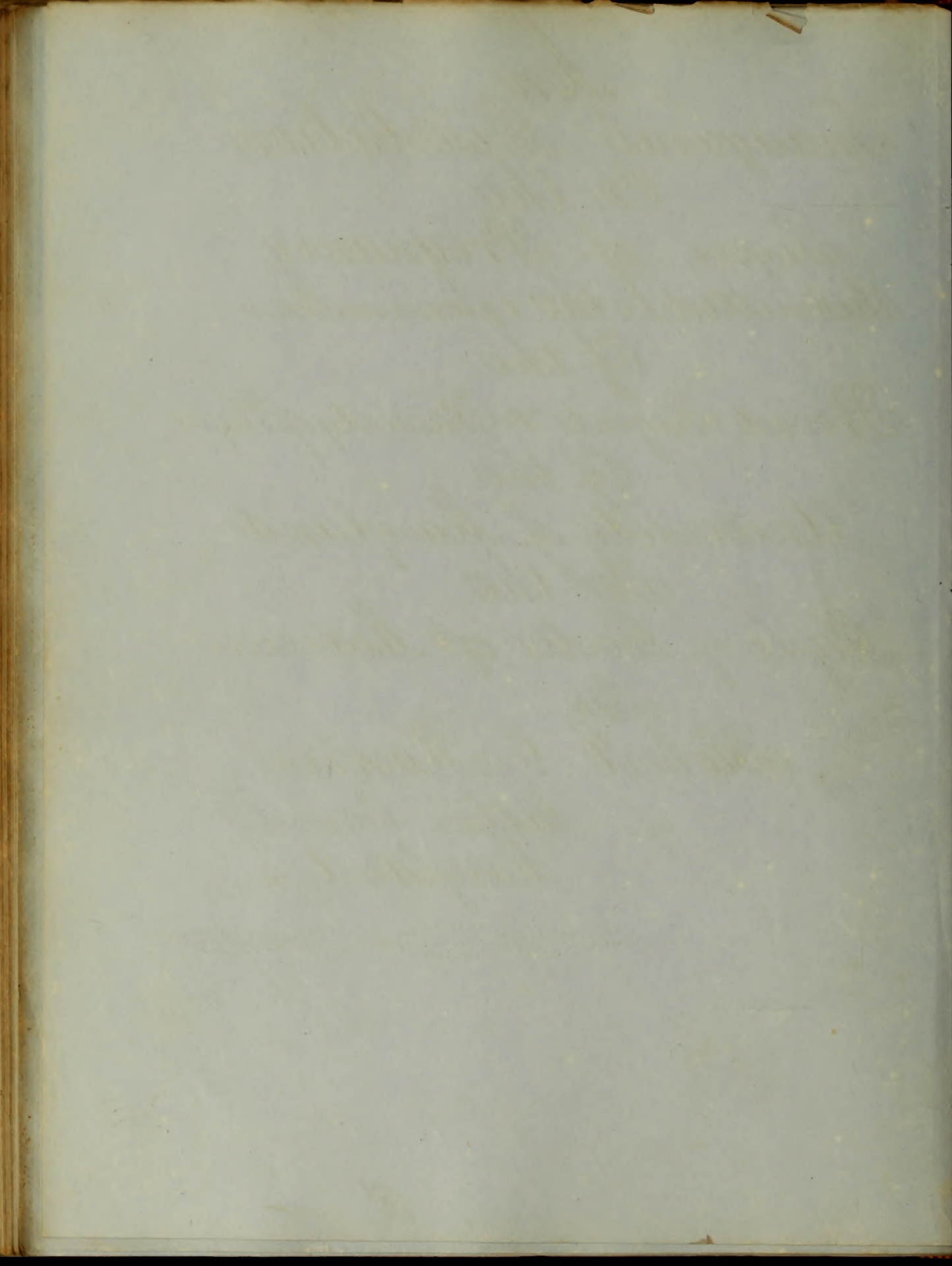






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An  
Inaugural Dissertation  
On the  
Signs of Pregnancy  
Submitted to the examination  
Of the  
Provost Regents & Faculty of Physic  
Of the  
University of Maryland  
For the  
Degree of Doctor of Medicine  
By  
Robert G. Rankin  
of Talbot County  
Maryland.

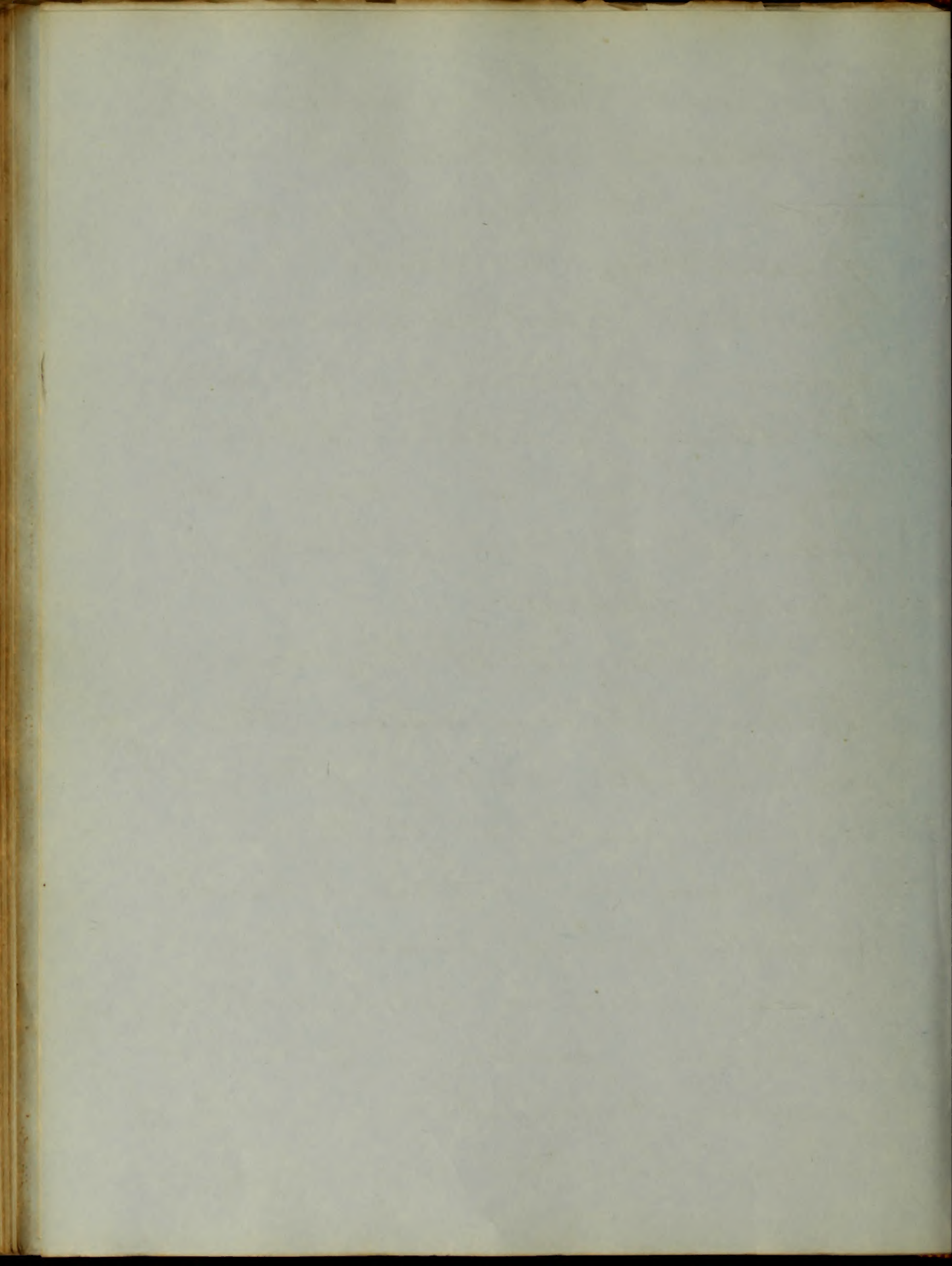






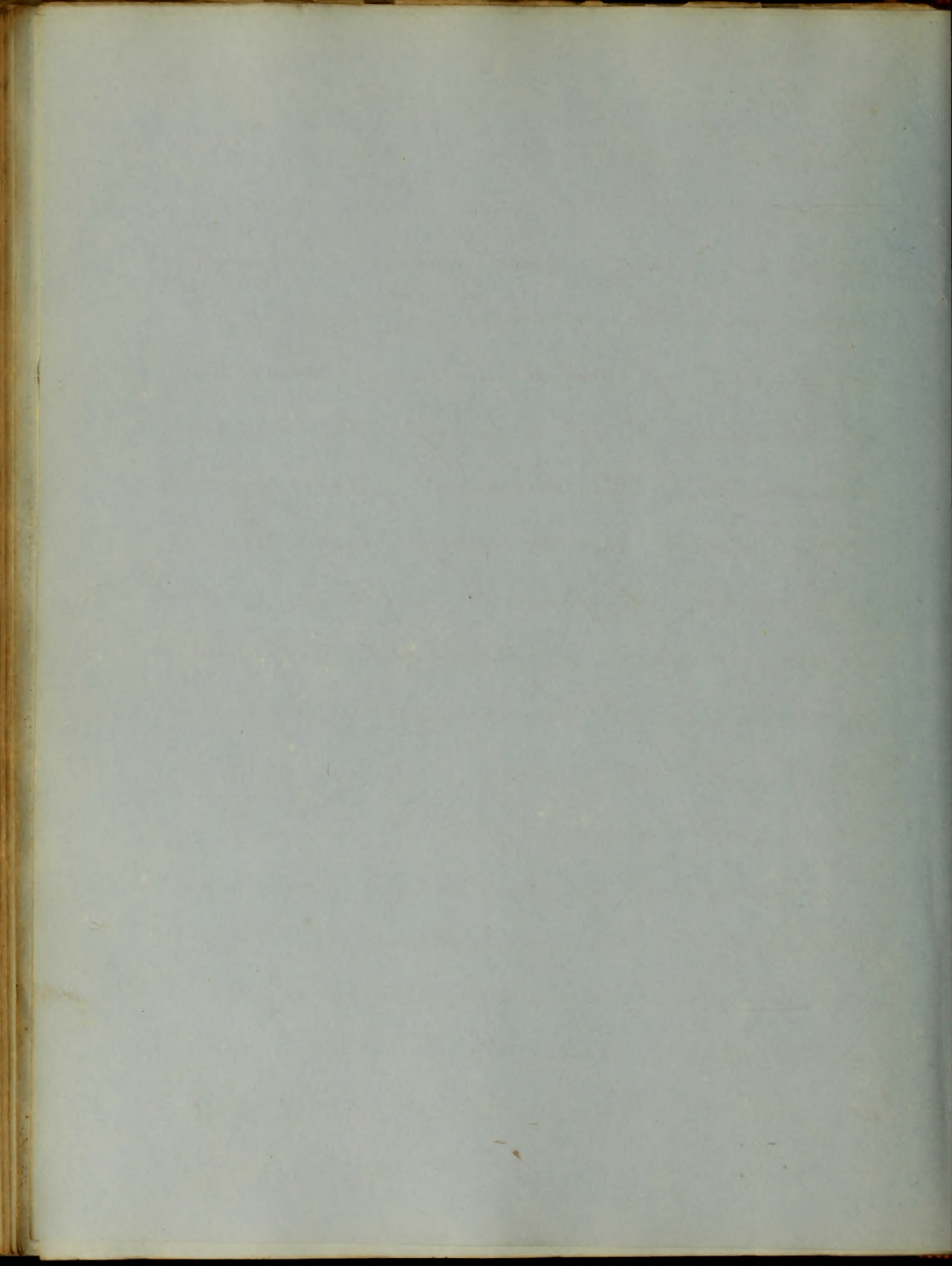
The rules and regulations of our medical institutions being such as to require an exhibit of something in shape of a thesis from every student, who would offer himself, for examination in order to his obtaining a diploma. I have therefore chosen as a theme to the following, brief and no doubt ill digested treatise.

The signs of pregnancy.  
Taking into consideration the innumerable hosts of graduates that are ushered forth every year from our different Medical institutions, each producing a thesis written on some subject relative or pertaining to the profession. It cannot reasonably be expected, that a young man

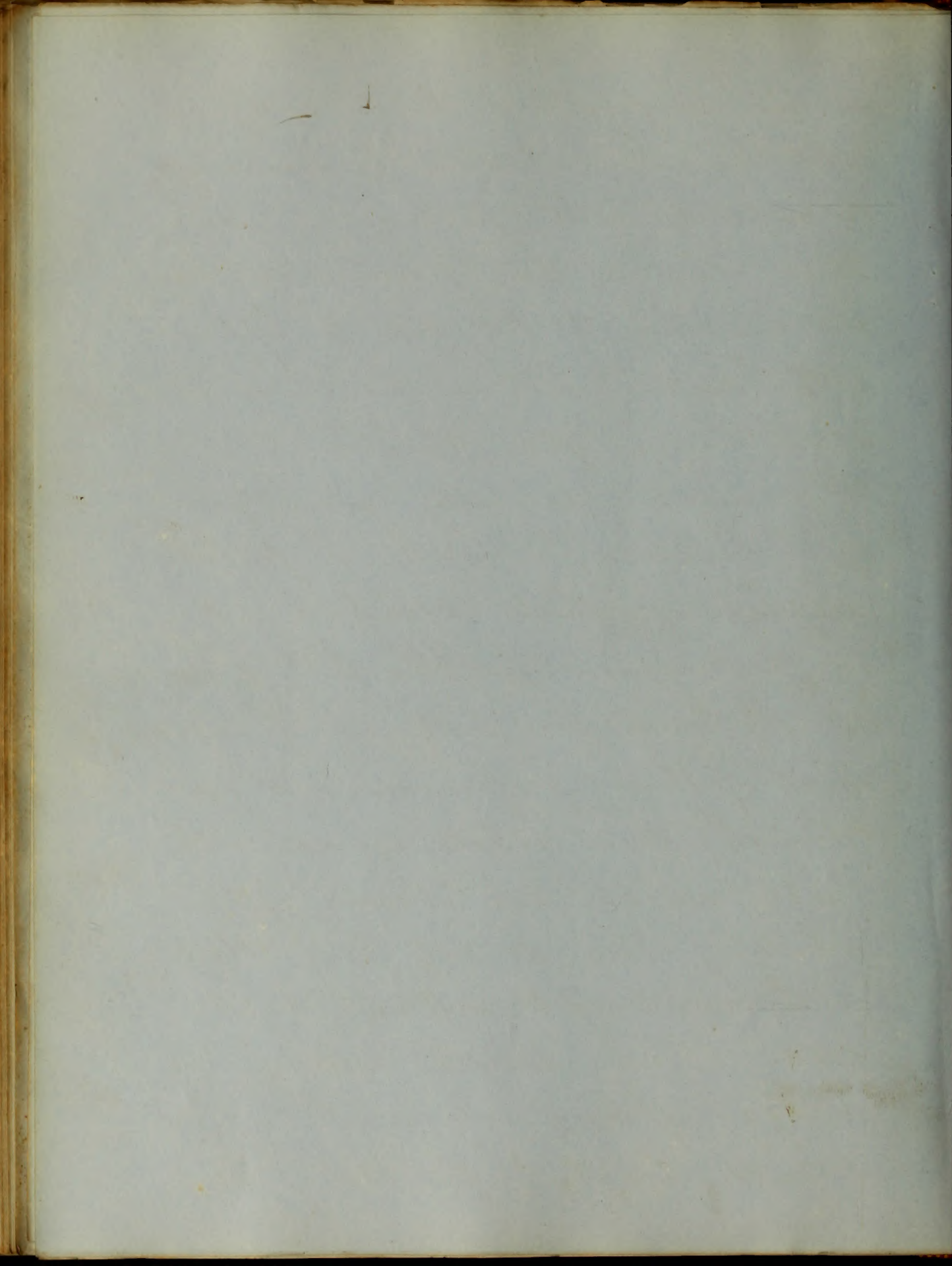


in this age of the world, be his talents what they may, or his knowledge of the theory of medicine ever so great, can advance any thing new on the various <sup>branches</sup> belonging to science of medicine, or manner of treatment of any of the diseases incident to the human family, other than such as he may have collected from the different authors he has read, or had propounded, or elucidated to him by his immediate preceptor, or the faculty, whose lectures he has been attending.

The science of medicine has ever been held as, unfathomable, and the study, therefore, a progressive, and interminable one. It therefore becomes a young man who would aspire to any degree of eminence

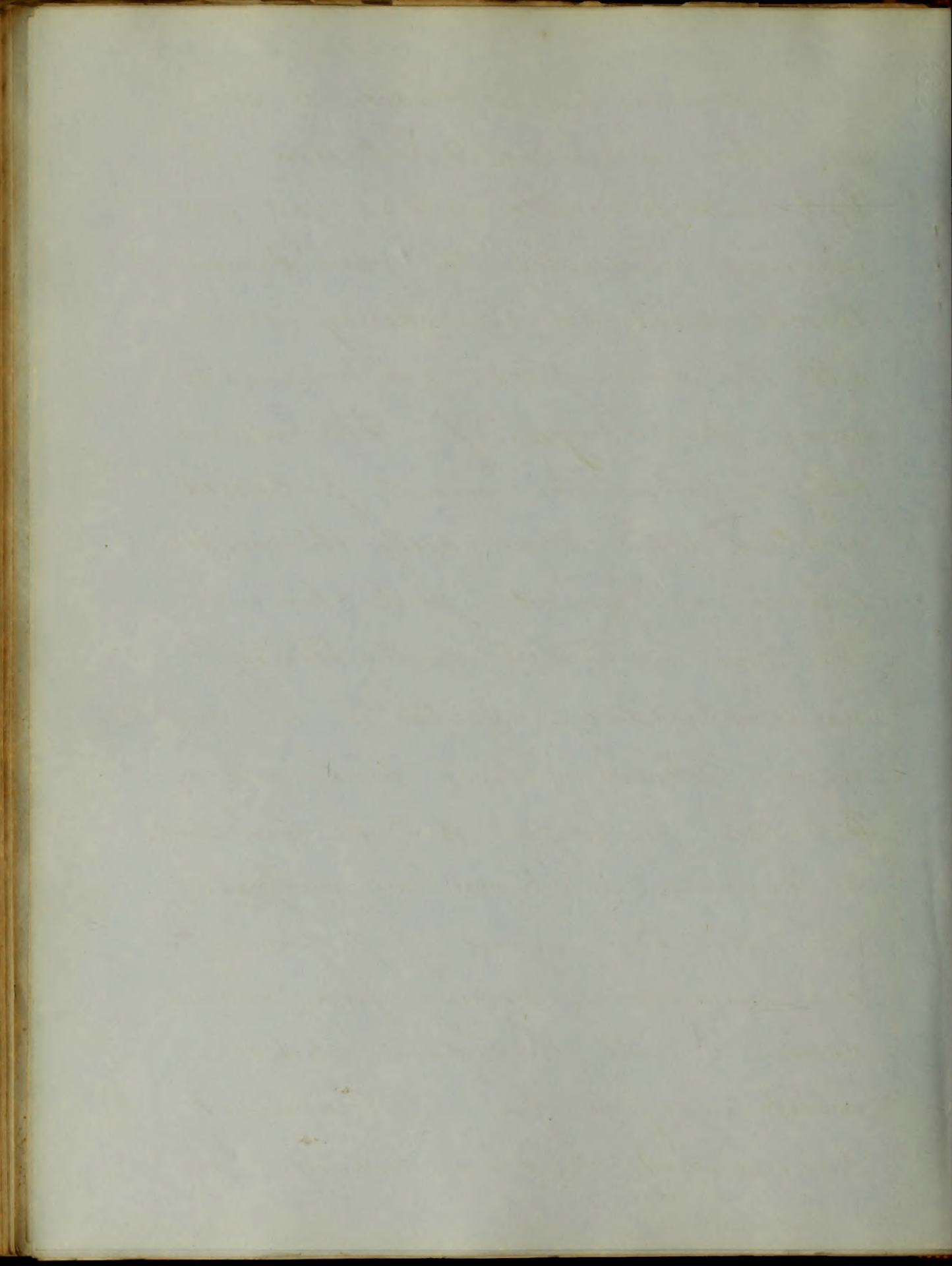


in his profession, to be indefatig-  
-able in his studies, endeavoring  
to collect with persevering industry  
those theories and knowledge which  
are necessary to fit him to appear  
with distinction on his entrance  
upon the public theatre of life.  
For most assuredly young men  
over anxious, to make a public  
display of their talents, by entering  
on the acquisition of the pitiful gain  
that is obtained by a hasty and superficial  
study of their profession, will march  
through their whole course, with  
feeble, nervous, and obscure efforts,  
which if they do not cover them  
with contempt will at least  
leave them sunk among the  
vulgar throng who make up the  
mass, or drag at the tail of the



profession. As in medicine so in all other sciences. What was it but indefatigable study and persevering industry that gave Demosthenes, such an ascendancy over all the corrupted, politicians and noisy demagogues of Athens, and obliged even the most polished orators, who knew only the modulation of periods, and charmed the ear without enlightening the understanding, yield to his superior illumination and energy. But this perhaps may be considered a digression from my subject.

As the signs of pregnancy are numerous, arising from various causes, I will therefore make mention, of a few of the most prominent, and endeavor to

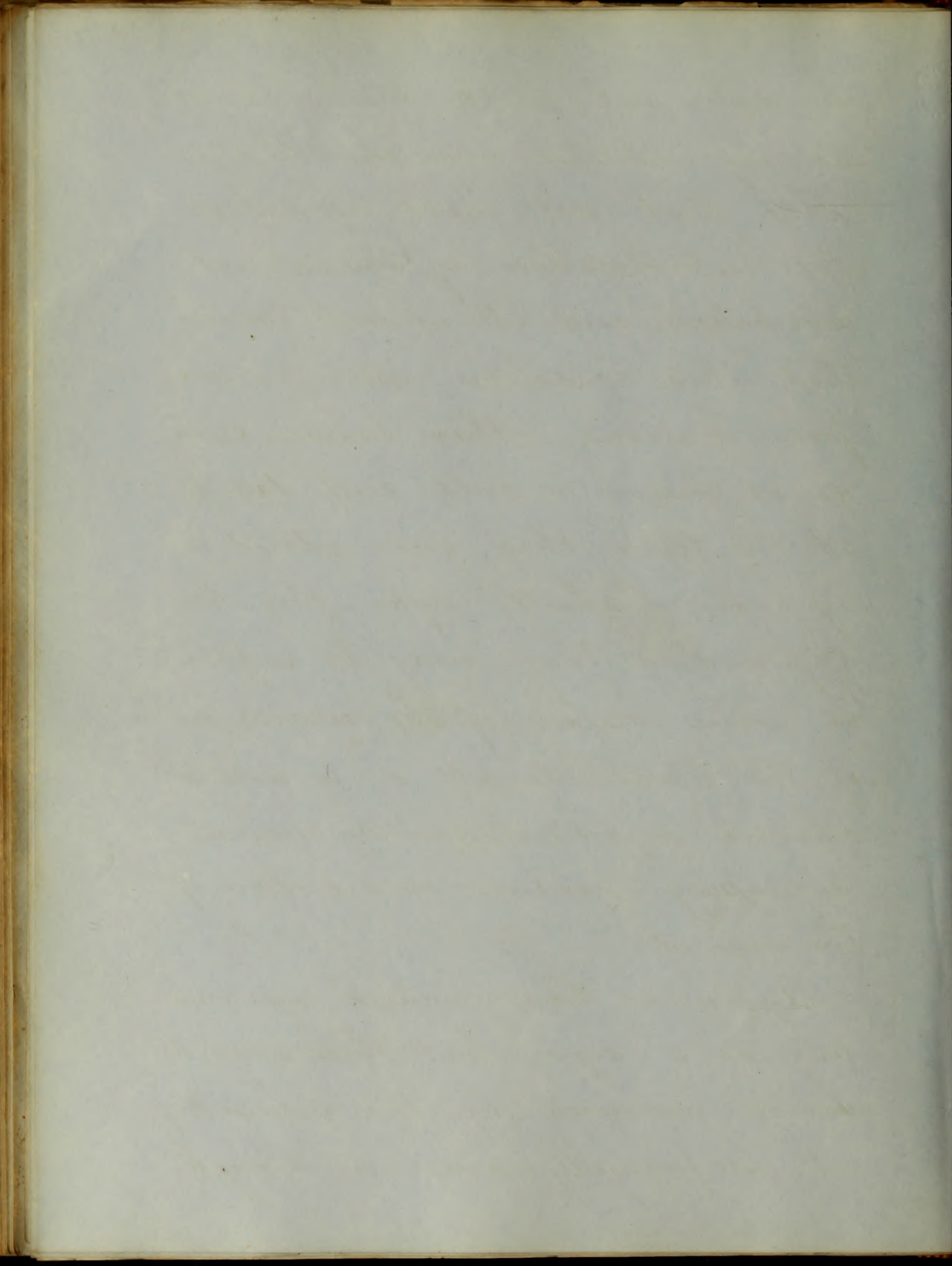




elucidate, and apply them as well as my abilities may enable me.

The first and most usual is the interruption of ~~the~~ menstrual discharge, and it is well known that this cessation may proceed from various other causes, such as exposure to cold and damp at the time they are about to appear, or shortly after they have appeared, or they may be suppressed by some disease of the ovaries, or of the uterus its-self, or by certain chronic affections, or by some depressing passion, or emotion of the mind.

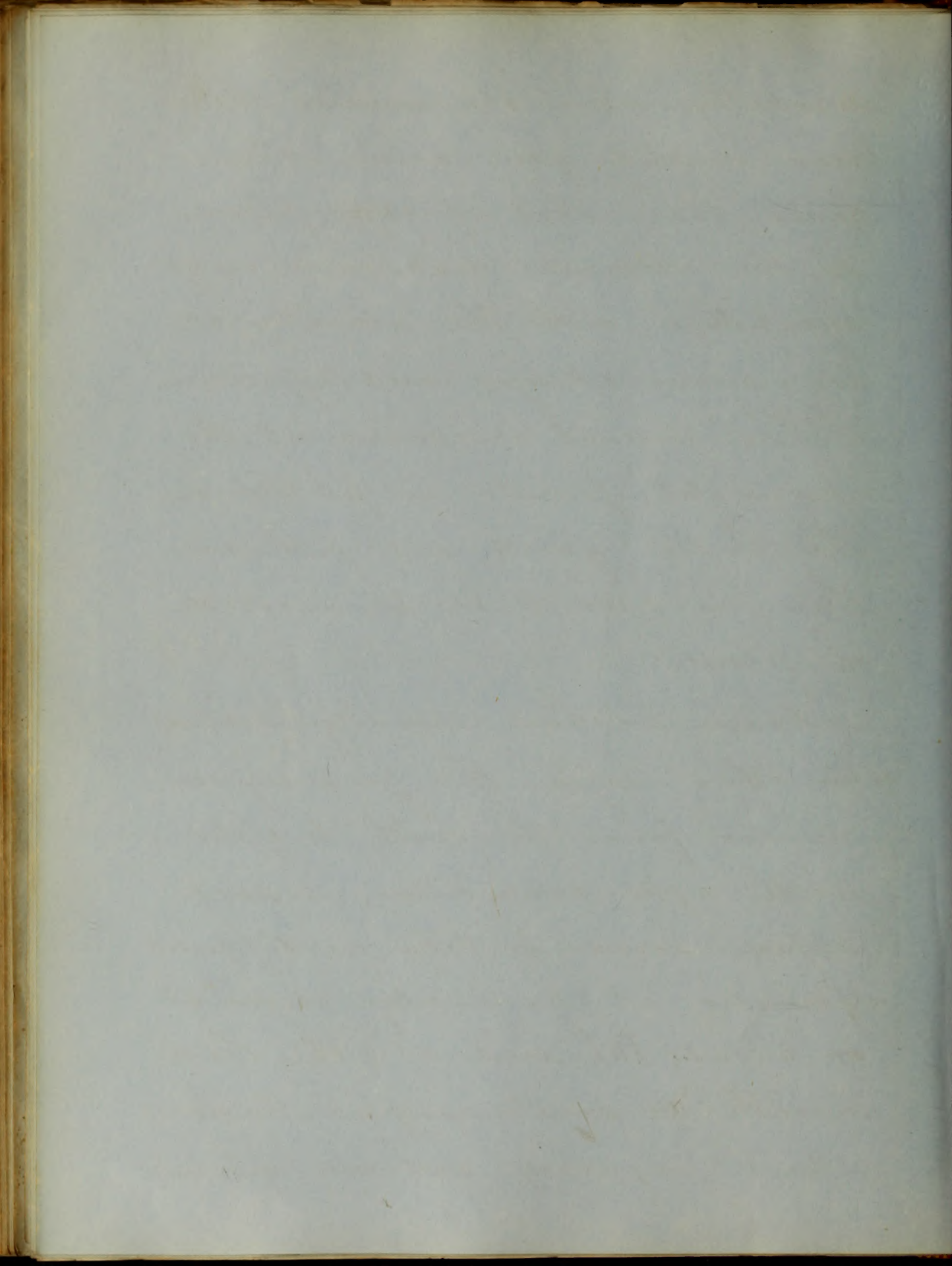
Again we have nausea and vomiting as a sign, but these may be readily produced, by other causes, they not un frequently come on through



sympathy, where the menses have been arrested, from some other cause than that of conception, as the stomach does more or less sympathize with the uterus, in all its various changes and affections.

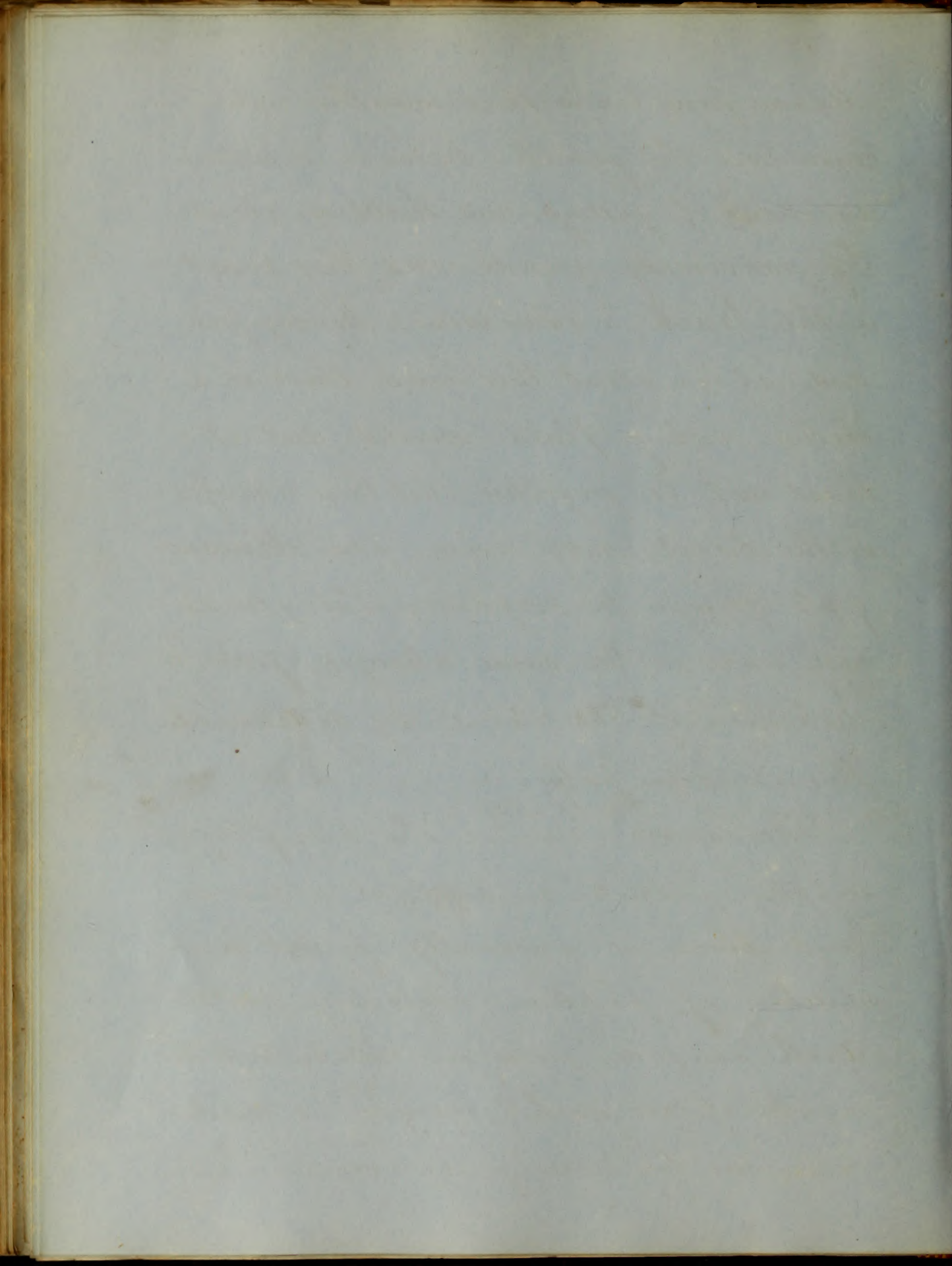
The general condition of the pregnant female is plethoric, the pulse quick and full, and there is said to be an increase of fibrin.

Again we have morning sickness as an other sign, this generally commences from the sixth to eight week after conception, it does appear sooner or later in different females. it generally ceases at or about the end of the third month. We sometimes find the sickness without pregnancy, and vice versa



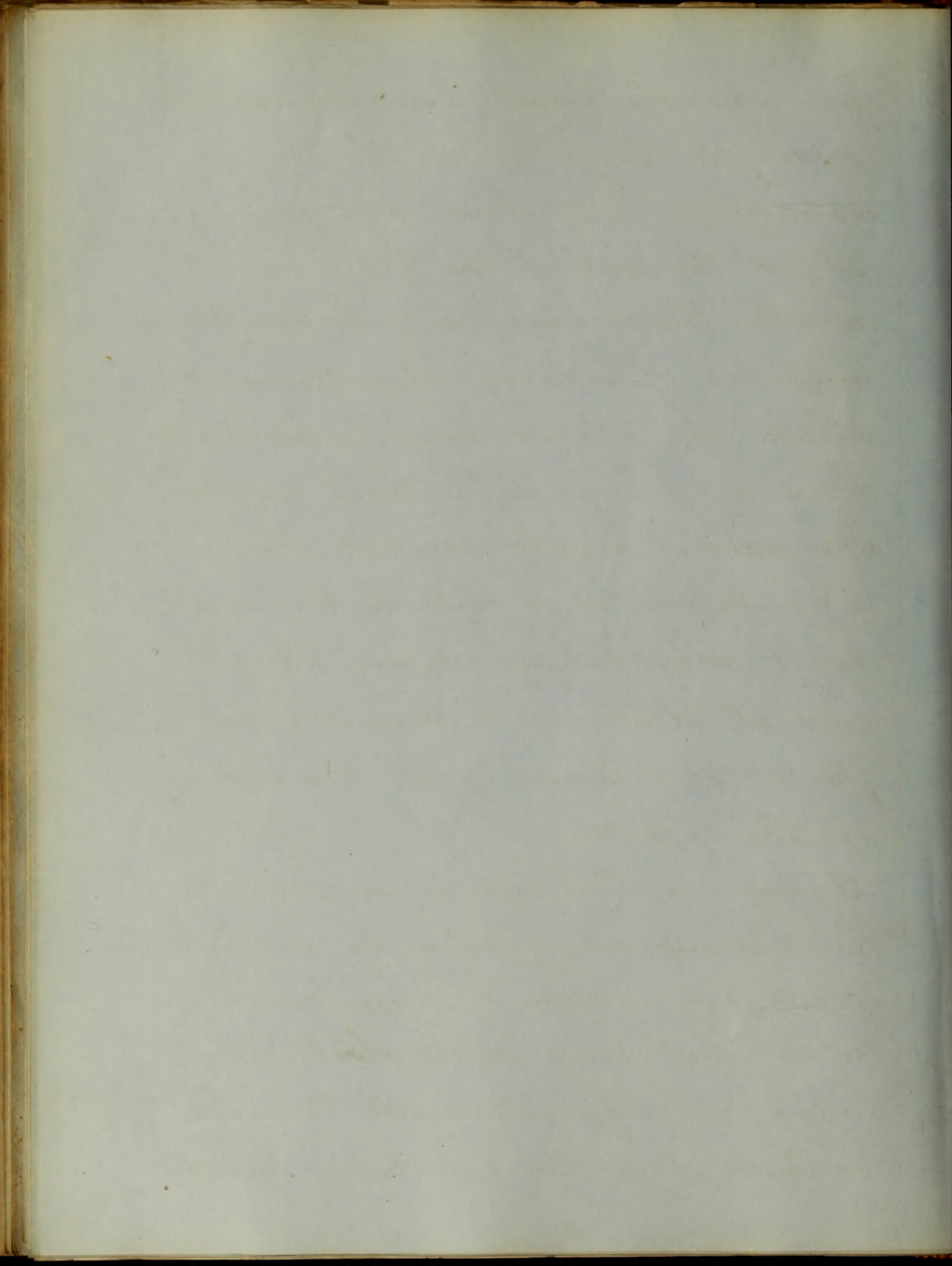
Again from two to three months after conception the female begins to experience sensations of fullness and throbbing about the mammary glands, and they present to the touch, a glandular & knotty feel; and at or about this time there is a milky watery fluid secreted, but it must not be forgotten that these changes in the breasts, may arise from other causes quite foreign to pregnancy, the glands may undergo the same changes from distention of the uterus, by hydatids etc through sympathy.

The <sup>areola</sup> around the base of the nipples, presents a darkish appearance and there is generally found a number of papillae, projecting from the dark surface, from one sixteenth to the eighth of an inch, varying in number from ten to twenty or more



and when the breasts have become hard and full, large veins may be seen ramifying over their surfaces, and about the end of the fifth or sixth month, there also may be seen a number of silvery streaks, never-theless. The glands may present all these appearances without pregnancy. The milk may be secreted by the application of a child to the breast, or it may happen during the catamenial flow or it may remain for a long time after the weaning of the child.

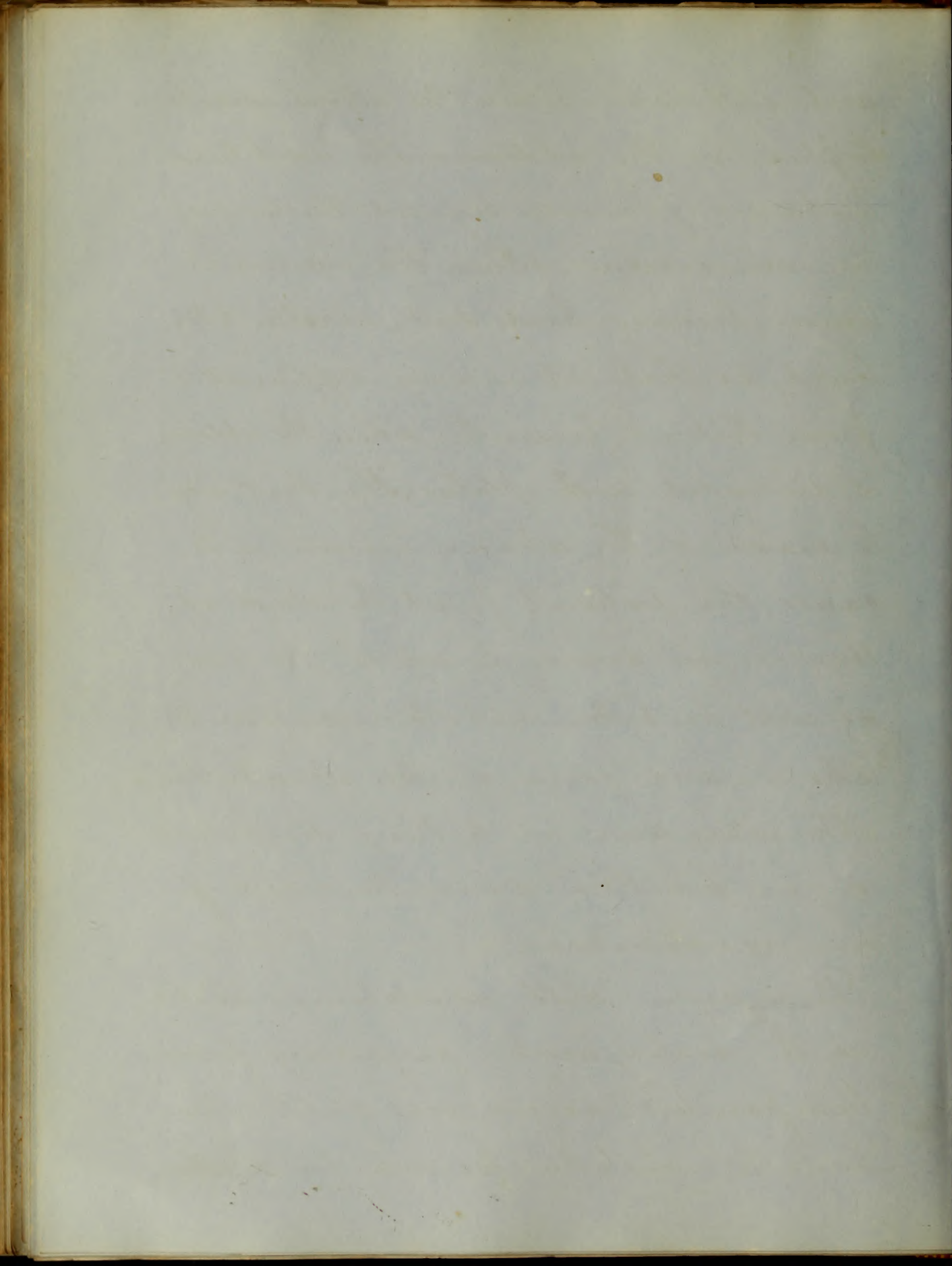
Again another sign, is enlargement of the abdomen, which during the first month of pregnancy increases by degrees, owing to the intestines being pushed above the pelvis, and about the fourth month the womb ascends above the symphysis pubis.





and still later when the uterus ascends higher in the abdomen, the umbilicus protrudes forwards beyond the level of the surrounding skin, the uterine tumor becomes hard, and elastic to the touch, so that it is very different from that it presents, when the abdomen is distended with flatus. The best way to examine the uterine tumor is to cause the patient, first to stand up, then to lie down, by which process we will be better able, to ascertain the shape and form of the womb, than otherwise, were we to keep the patient in one position, during the whole of our examinations.

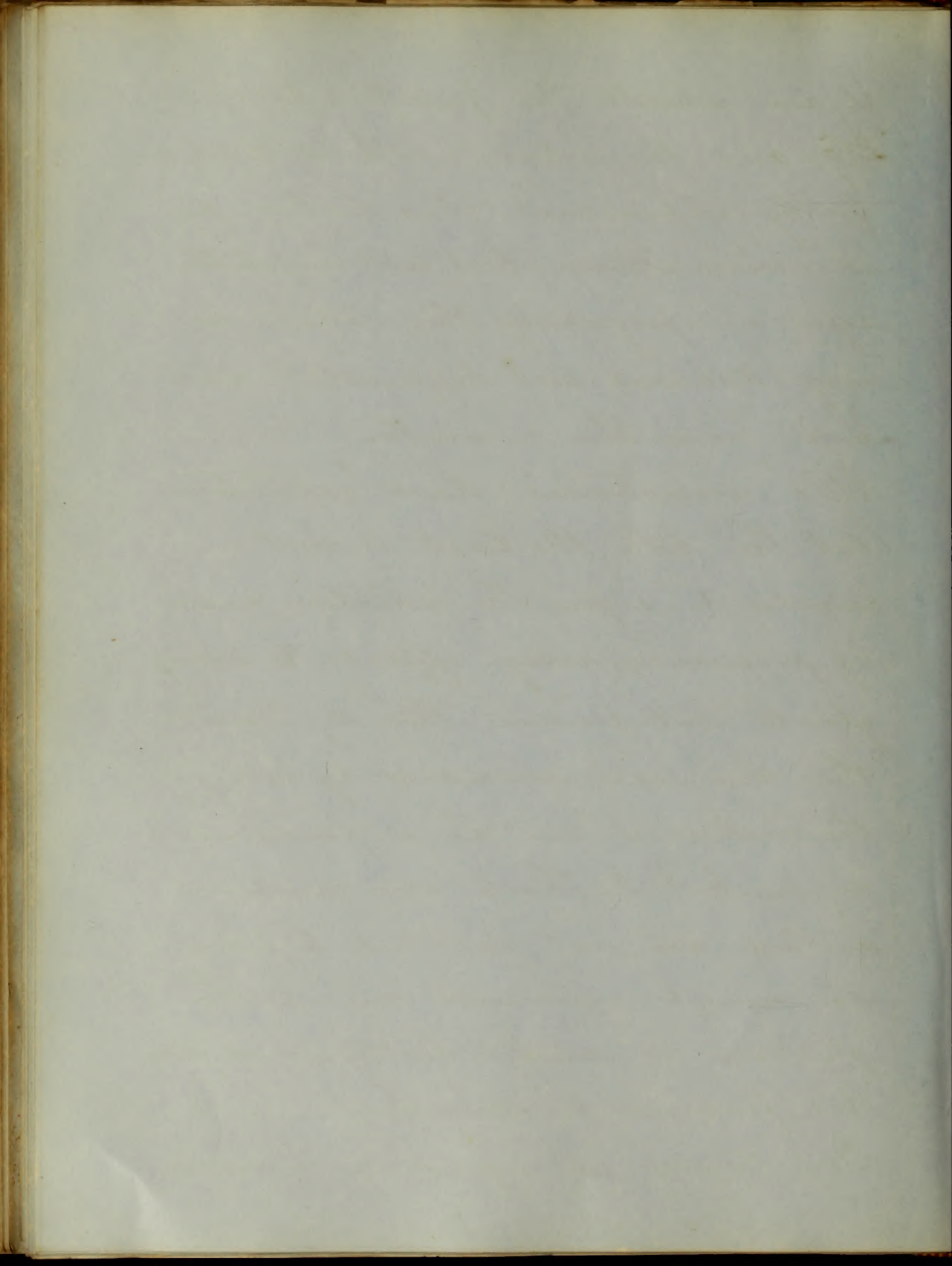
Percussion will sometimes enable us, to distinguish pregnancy from tympanitis, as we are liable oftentimes to mistake the one for the other.



Again should the female spit free-  
 ly, and the sputa exhibit, a white  
 frothy appearance. it is looked upon  
 as a very strong but not infalible  
 sign of pregnancy. The saliva is  
 very tenacious, and difficult to disch-  
 -arge from the mouth.

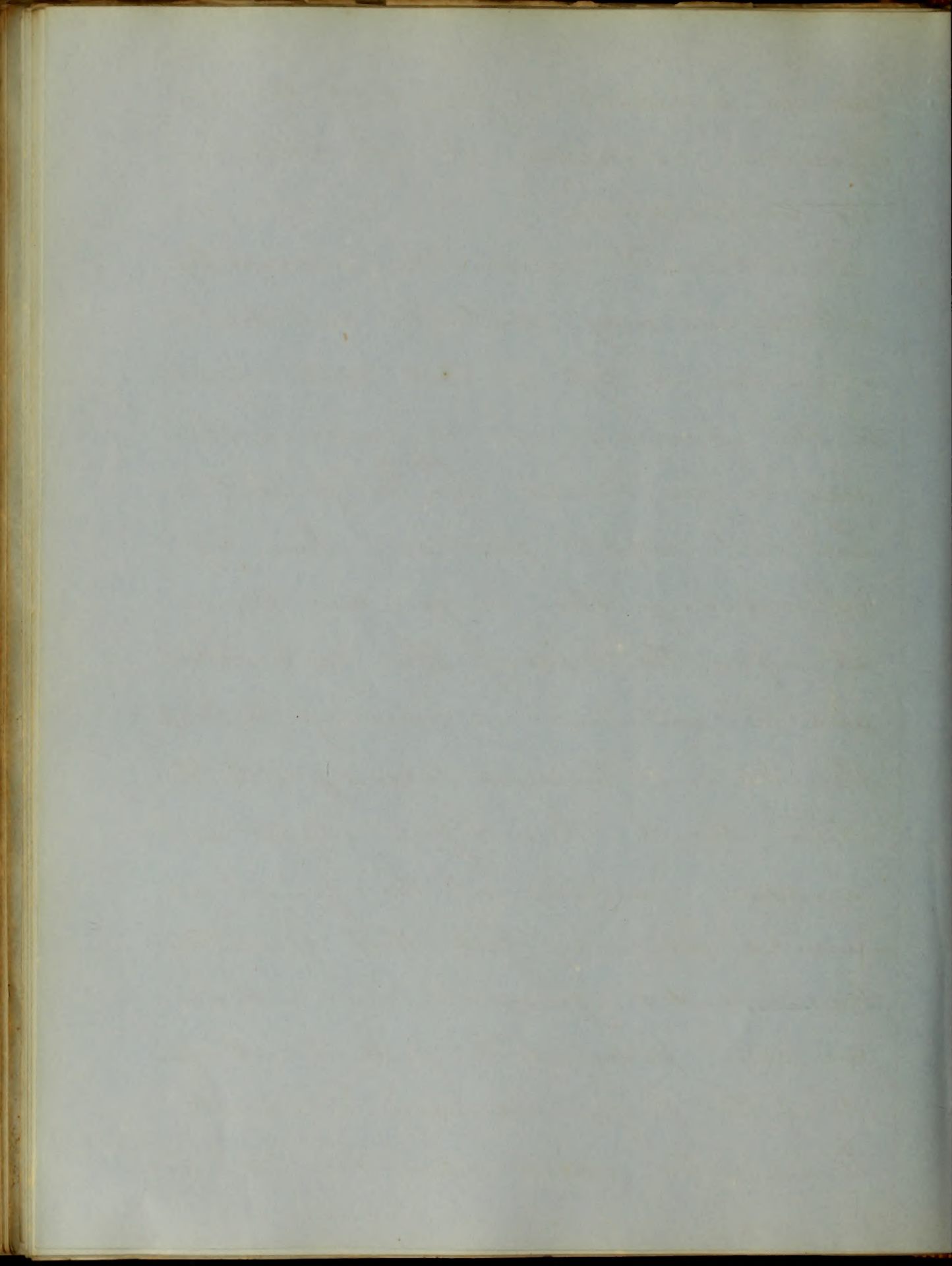
We sometimes have salivation  
 but this like the last is not a  
 constant sign. The irritation caused  
 by pregnancy, may affect the salivary  
 glands and produce this sign, and  
 this has been considered by many of  
 the earlier writers as a prominent  
 sign, but I think our modern  
 writers are not inclined to place  
 so much reliance on it. The  
 ptyalism is easily distinguished from  
 that produced by mercury.

Quickening is popularly considered



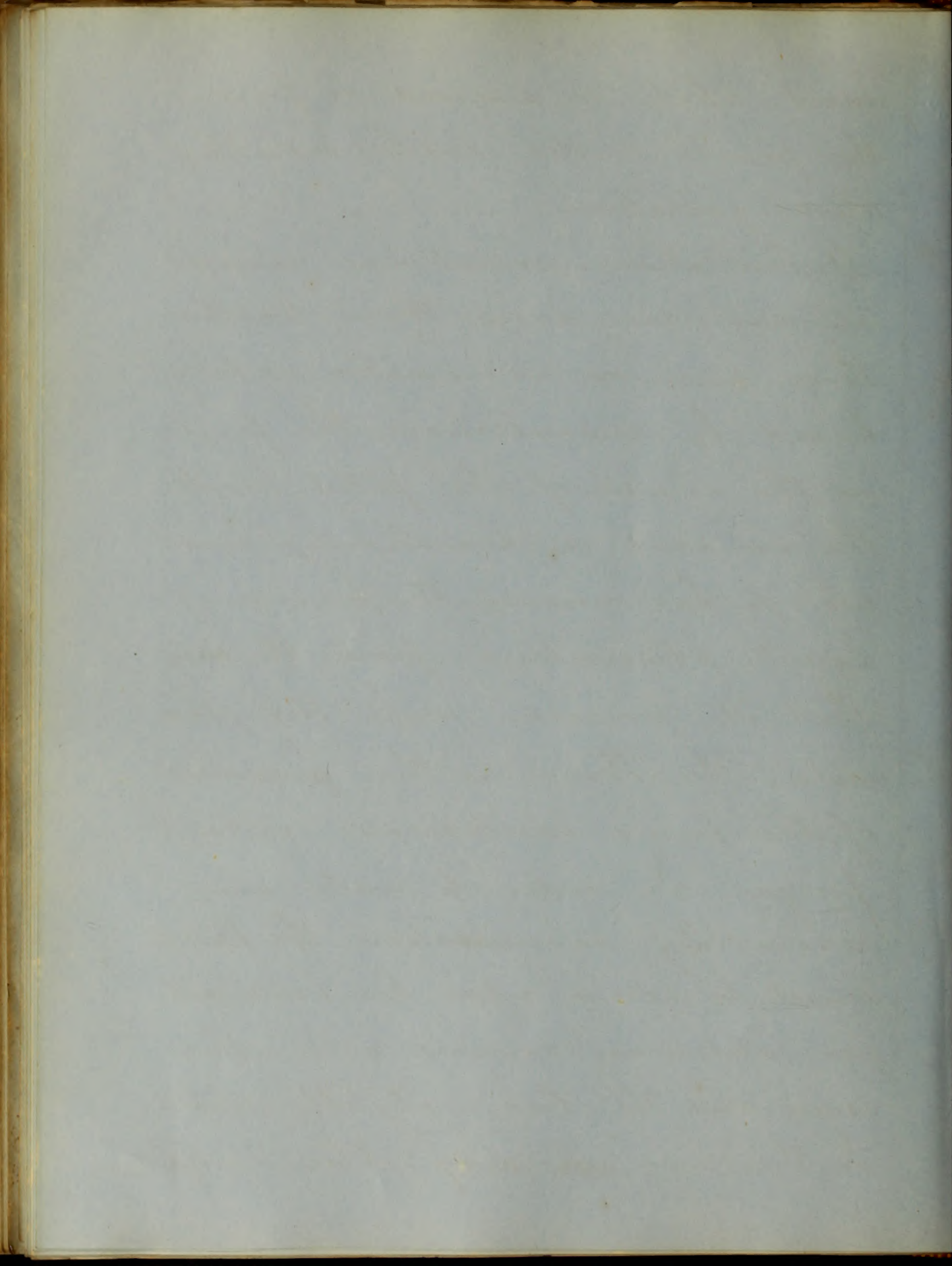
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as an infalible sign, but the pro-  
- fession consider it of little or  
no importance.

Balottement is another means by  
which we may satisfy ourselves to  
a greater or less extent with regard  
to the existence of pregnancy, this  
may be performed by <sup>placing</sup> the patient in  
an up-right position. Then by  
introducing the finger, and placing  
it upon the base of the cervix uteri  
and the sometime endeavoring to keep  
the uterine tumor steady, with the  
other hand, then by a slight and  
sudden jerking of the finger up-  
-wards, we may feel that something  
has receded from it: and which  
we can perceive to fall back upon  
it: if the finger remain a short  
time, the period when this test is



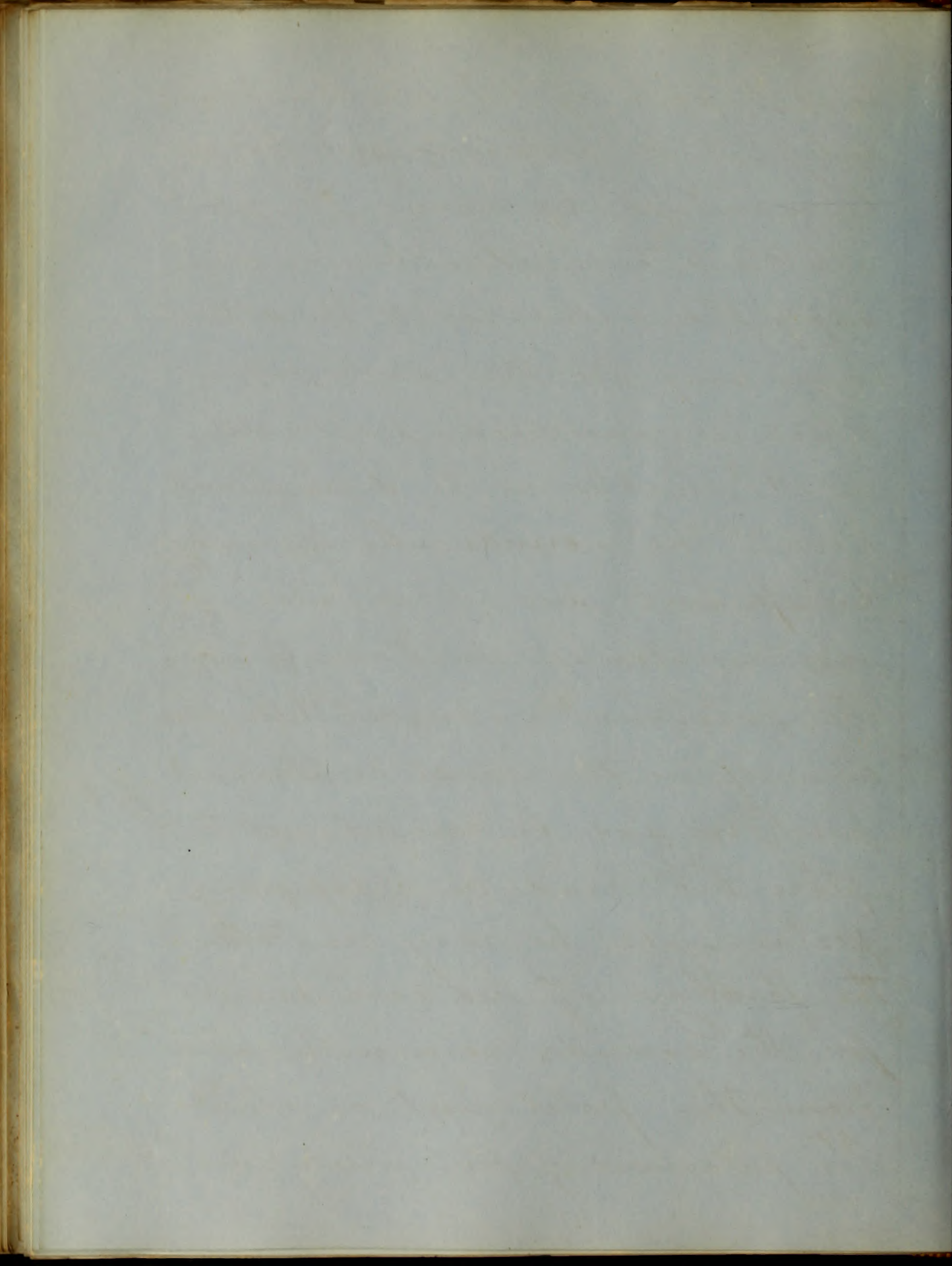
most likely to succeed is from the fourth to the sixth month of utero gestation.

Auscultation sometimes aids us in our diagnosis, there has been three sounds represented as being heard by auscultation, the first is the sound of the fetal heart. The second is a whirring sound which has received the name of *bruit placentaire*, from the belief that it proceeds from the placenta, The third is the pulsation of the *funicus umbilicalis* or *bruit fœtal*. In order to make an auscultatory examination the patient must be placed upon her back, with her abdomen covered with a thin cover, and the head slightly elevated in this way we may obtain accu-





to all parts of the uterine tumor unless it be posteriorly, and that can be examined by turning the patient a little to one side. Then we may apply the naked ear to the abdomen or we may use the stethoscope, which is considered preferable, as it enables us to define and limit, the sounds which may be present, and it is also in most instances more convenient. The practitioner should then place himself in the most convenient position and be careful not to place his head in a depending posture, else he may mistake the throbbing of his own arteries for the sounds communicated from the foetal heart or arteries. The pulsations of the foetal heart

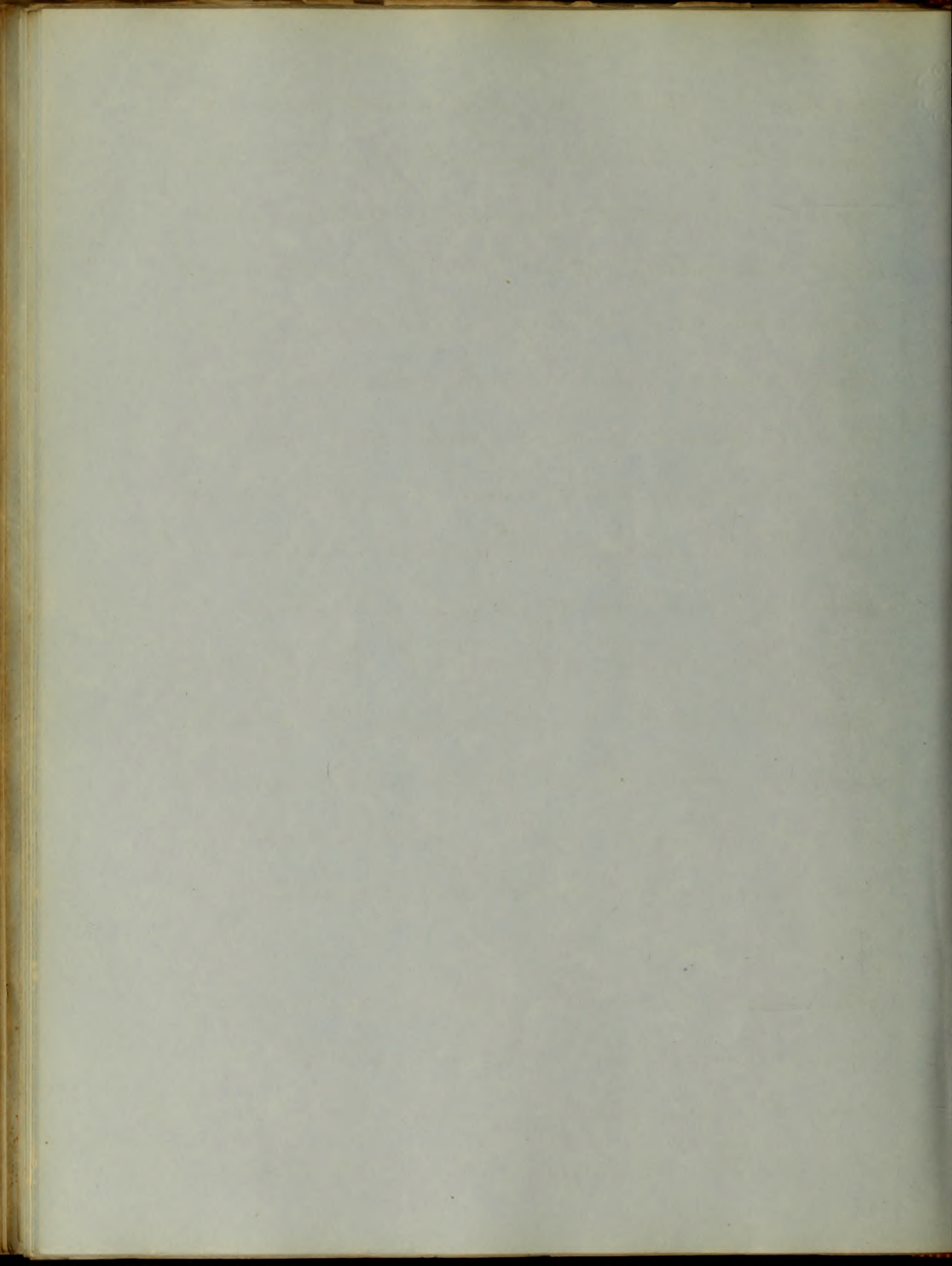


present quite a different sound from the others. it consists of a rapid succession of short regular pulsations, somewhat resembling those of the adult except not quite so strong and more frequent they average from one hundred and twenty to one hundred and forty in a minute.

The pulsations are more frequently heard in the middle or inferior abdominal region, and more frequently on the left side, the period at which these pulsations are said to be most commonly detected is from the third to the fifth month.

The pulsations when distinctly heard are generally held as a positive sign of pregnancy.

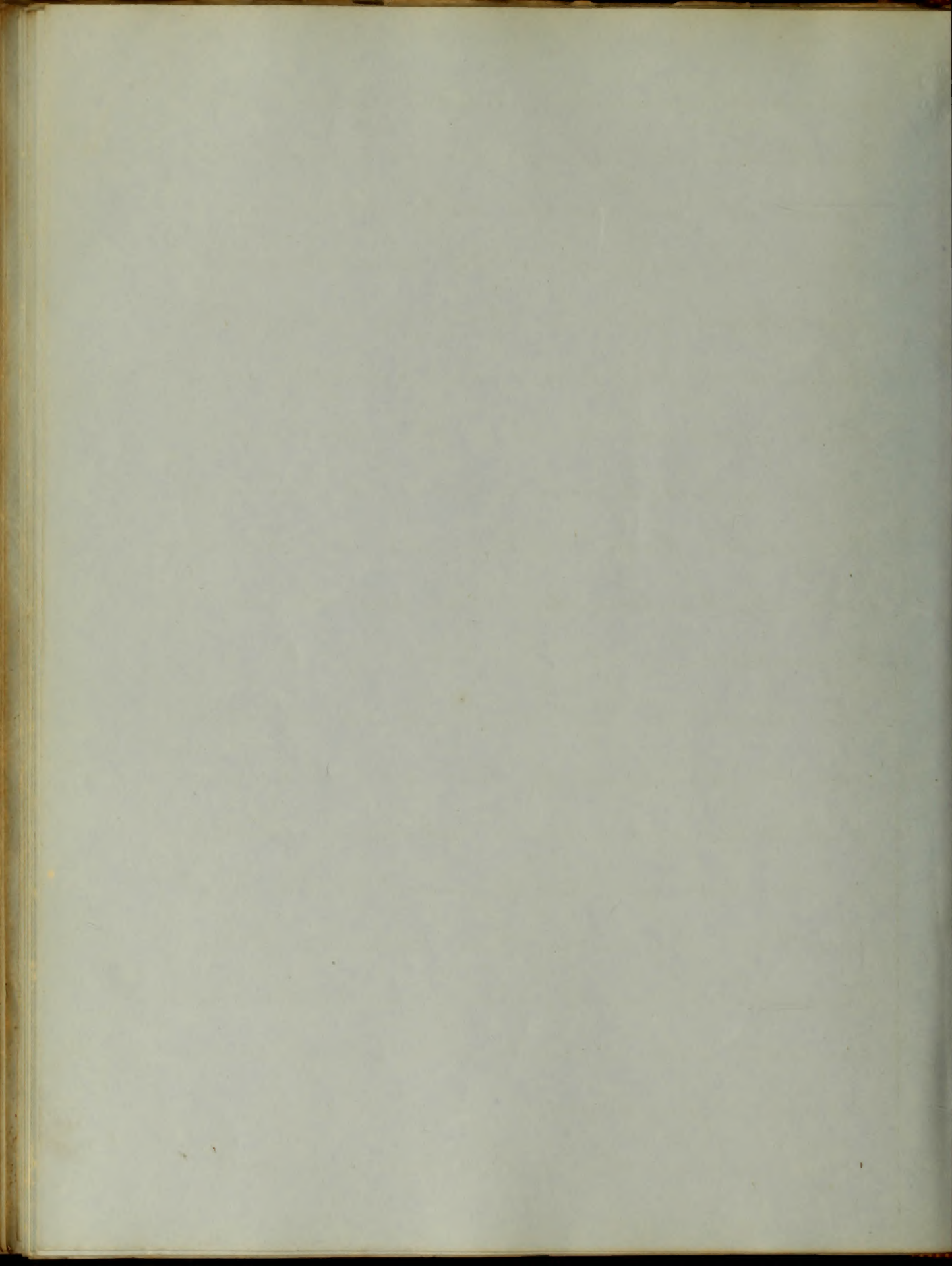
The next in order, is the uterine souffle or bruit placentaire, this is said to be a single intermitting sound heard over the uterine tumor, this like the last



generally becomes audible about the fourth month, though some writers have given it an earlier date, others later, The third sound, is the pulsations of the umbilical cord, or bruit funique, if the position of the funis be favorable, it is quite possible to hear the pulsations of its arteries, corresponding to those of the foetal heart. These are the three sounds said to be heard, when auscultation is performed.

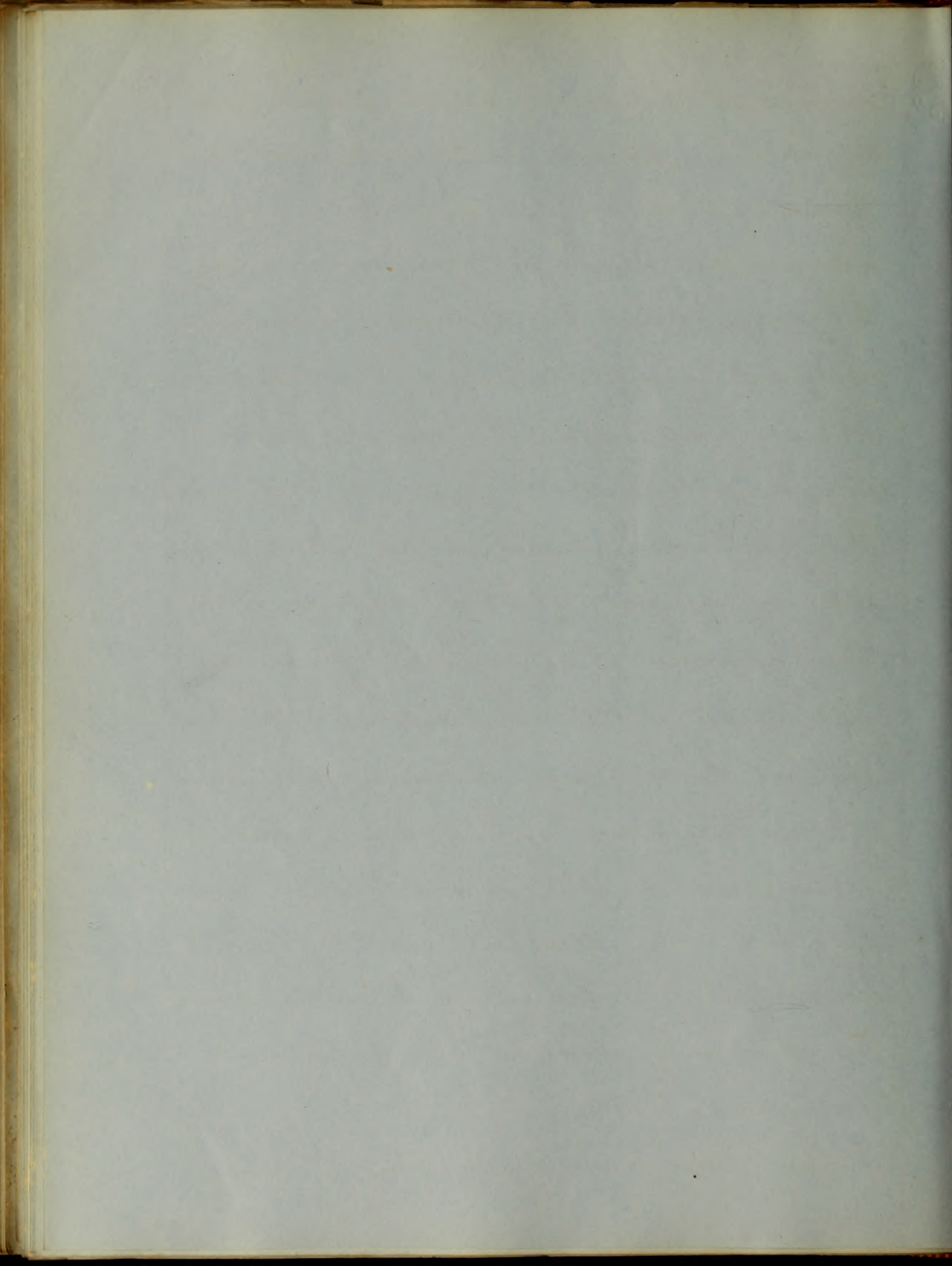
The existence of Riestine is another sign of pregnancy, by this we mean a gelatinous albuminous substance, existing in the urine, subsequent to the first month of pregnancy, this separates from the urine by rest forming a pellicle on the surface, and is held as a strong indication of pregnancy.

There is another interesting, and not.



unfrequent occurrence, which I must in conclusion advert to. It is that of twin pregnancy, the signs of which every accoucheur should be familiar, in order to qualify him for becoming, a successful obstetrical practitioner. There has been great reliance placed upon the disproportionate size, and flattened appearance of the abdomen it appears as if it was divided into two halves, and very unequal over the surface, although the abdomen of a pregnant female, may put on all of these appearances, still they are not to be relied on as infallible signs of twin pregnancy, as they may be occasioned or produced by other causes. I believe the strongest sign and one most to be relied on, is that ascertained by auscultation, viz the distinctly hearing the pulsations of two foetal hearts.

I have now enumerated and brought to

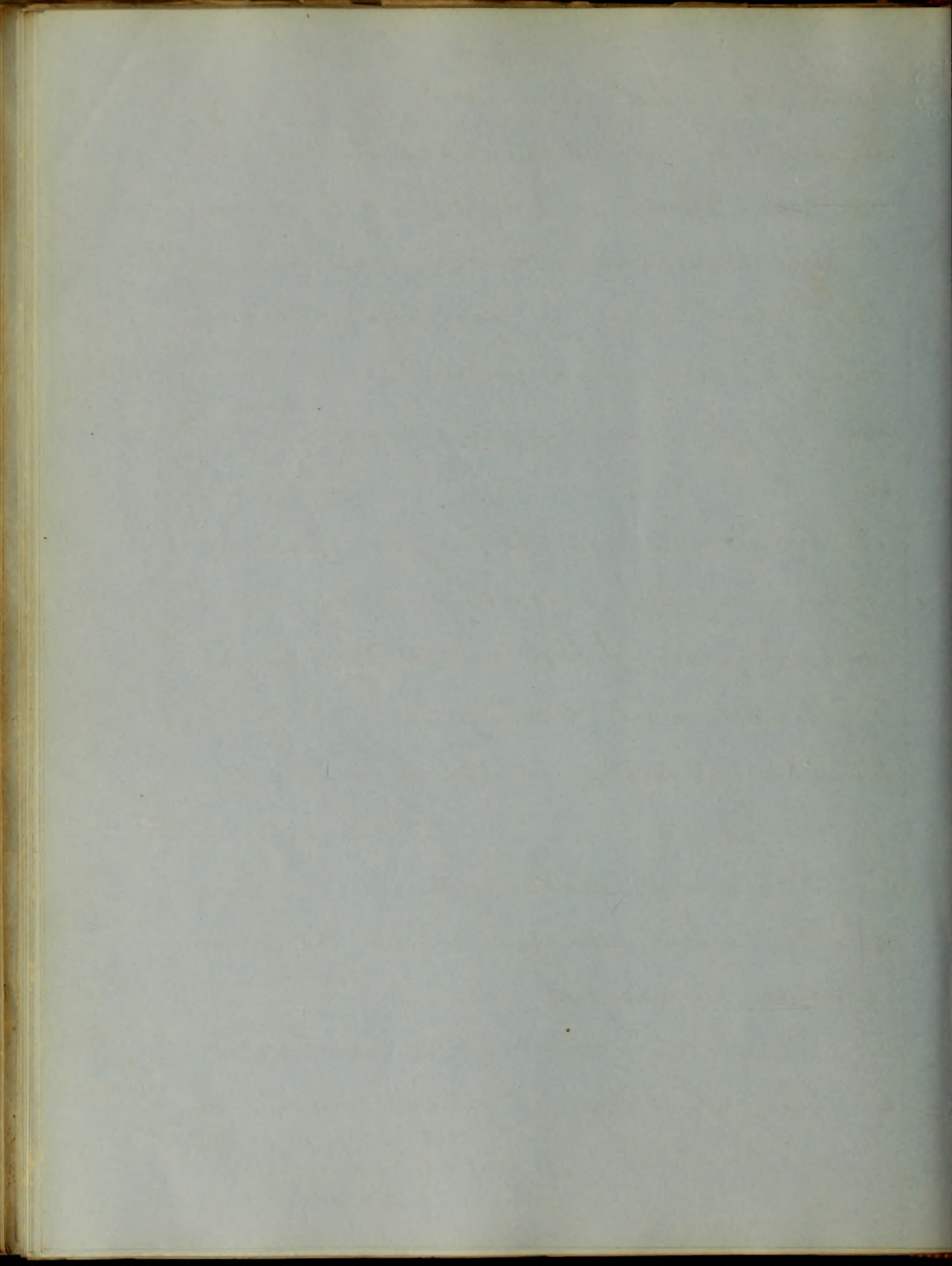




view, the most prominent signs of pregnancy, so far as my recollection has served me, and such as I hope will be approved of, and sustained by the faculty to whom this short essay is dedicated, and whose masterly, lucid, and instructive lectures I have for two successive sessions <sup>been</sup> attending to.

I have reviewed the signs and classed them in the following order. Viz. - In the 1.<sup>st</sup> place I have noticed the interruption of the menstrual discharge.

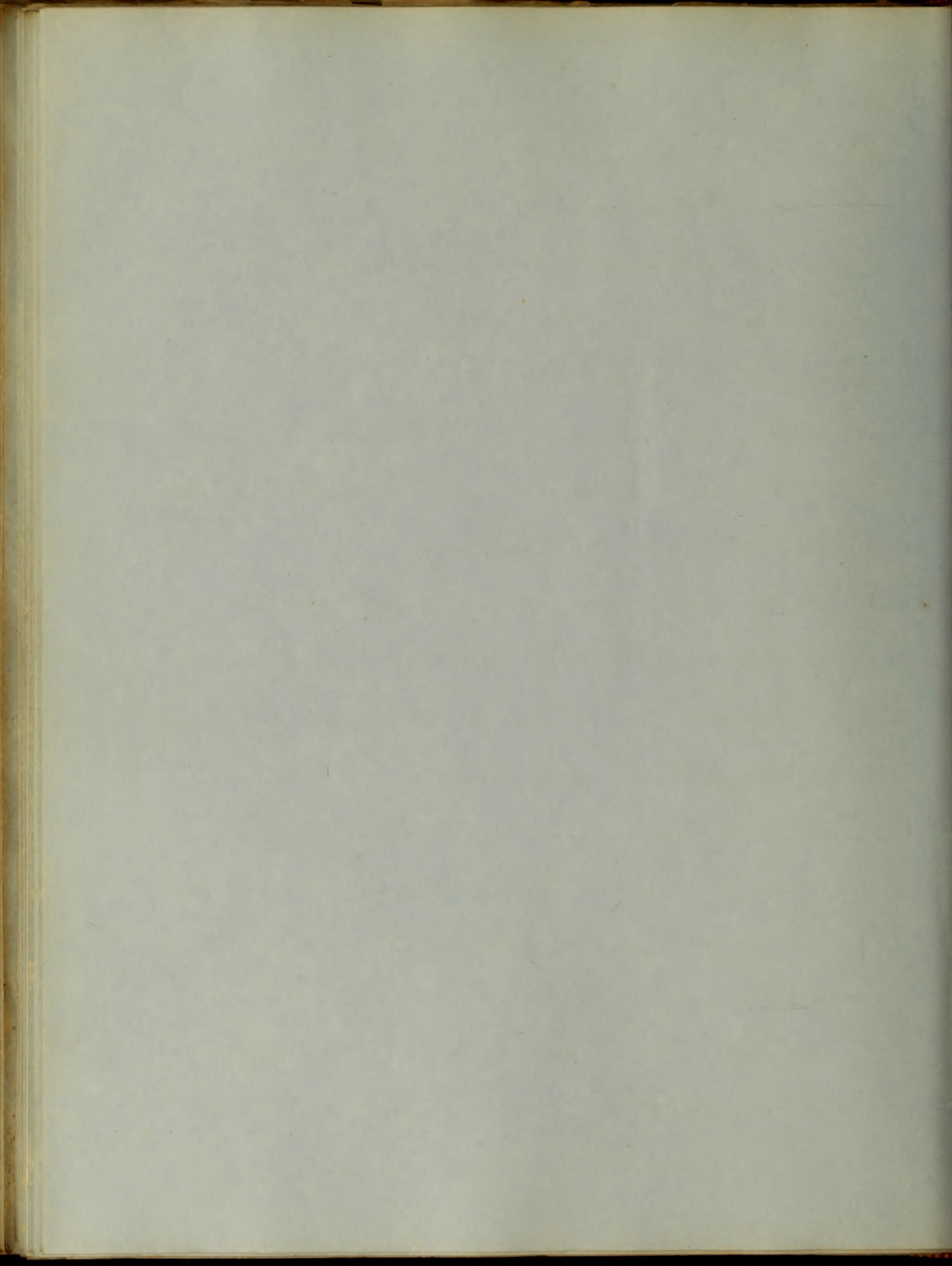
- 2.<sup>nd</sup> The condition of the pregnant female.
- 3.<sup>rd</sup> Morning sickness.
- 4.<sup>th</sup> The various changes which the mammary glands undergo.
- 5.<sup>th</sup> The enlargement of the abdomen
- 6.<sup>th</sup> The spitting of frothy saliva.
- 7.<sup>th</sup> Salivation



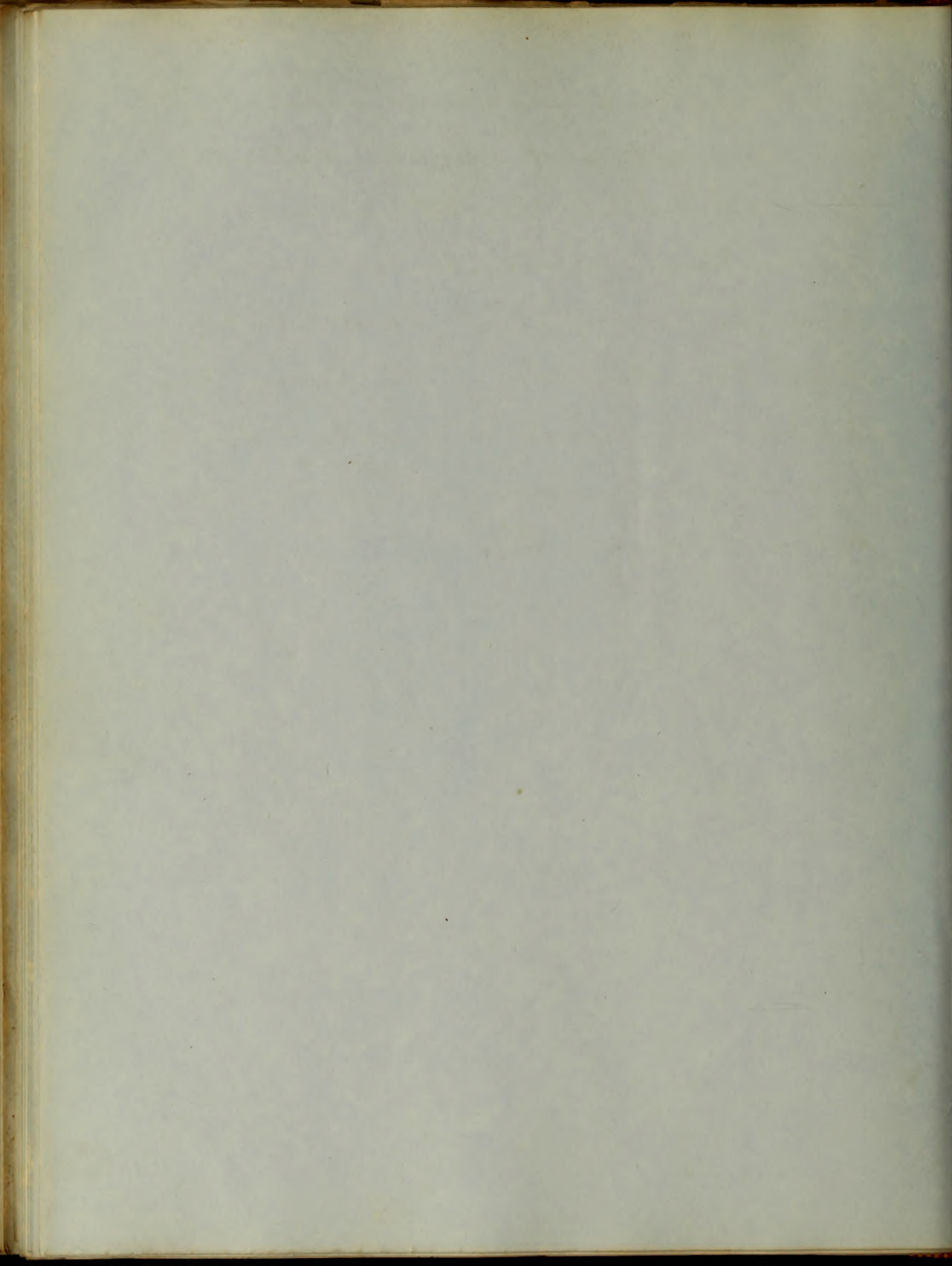
- 8.<sup>th</sup> Quickening.
- 9.<sup>th</sup> Ballotement.
- 10.<sup>th</sup> Auscultation.
- 11.<sup>th</sup> Pulsations of the foetal heart.
- 12.<sup>th</sup> Uterine soufle or bruit placentaire.
- 13.<sup>th</sup> Bruit fœtal.
- 14.<sup>th</sup> The existence of Riestine.
- 15.<sup>th</sup> A few remarks on the signs character-  
-istic of twin pregnancy.

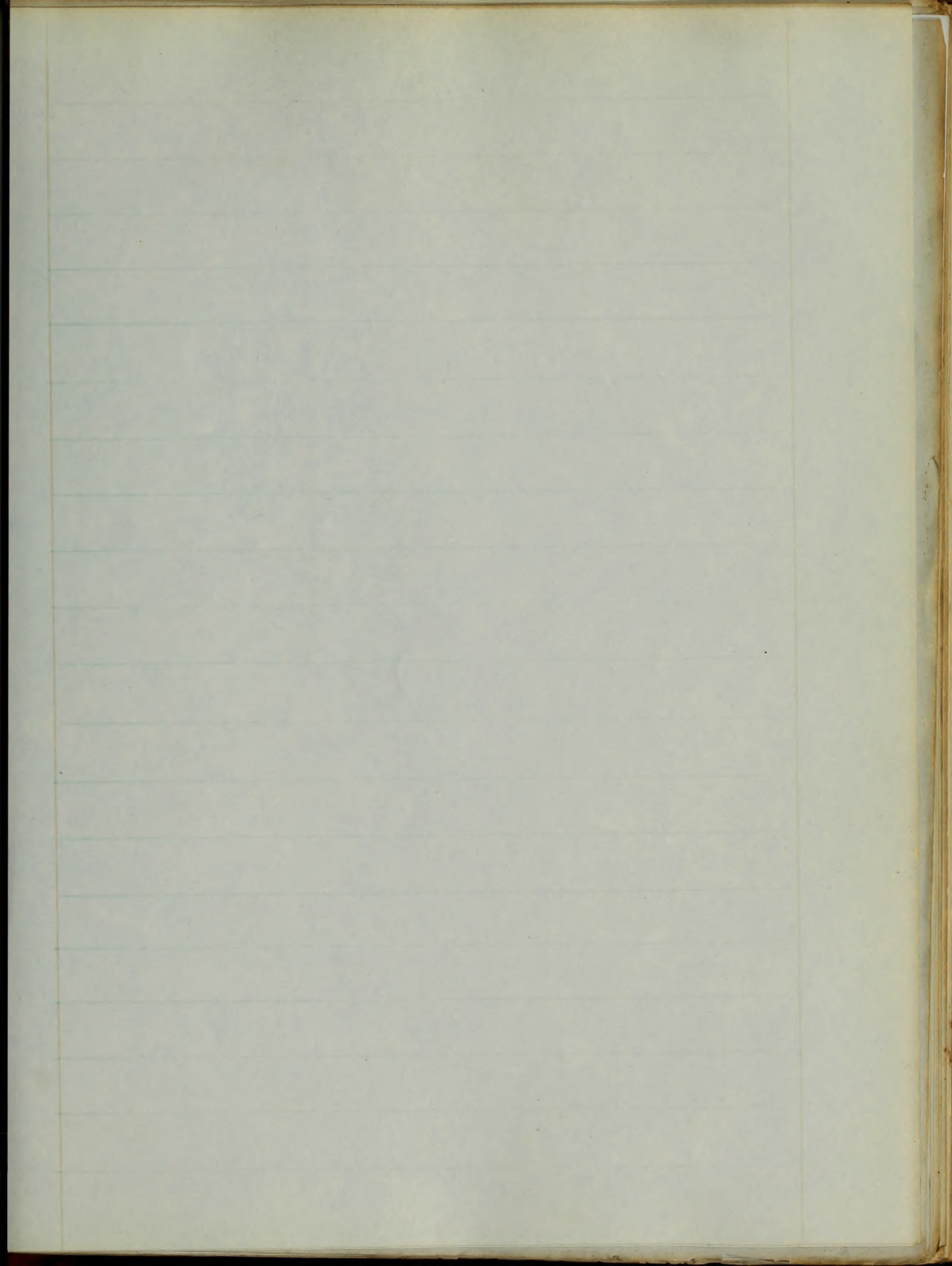
I will here conclude with a few reflections on the medical profession.

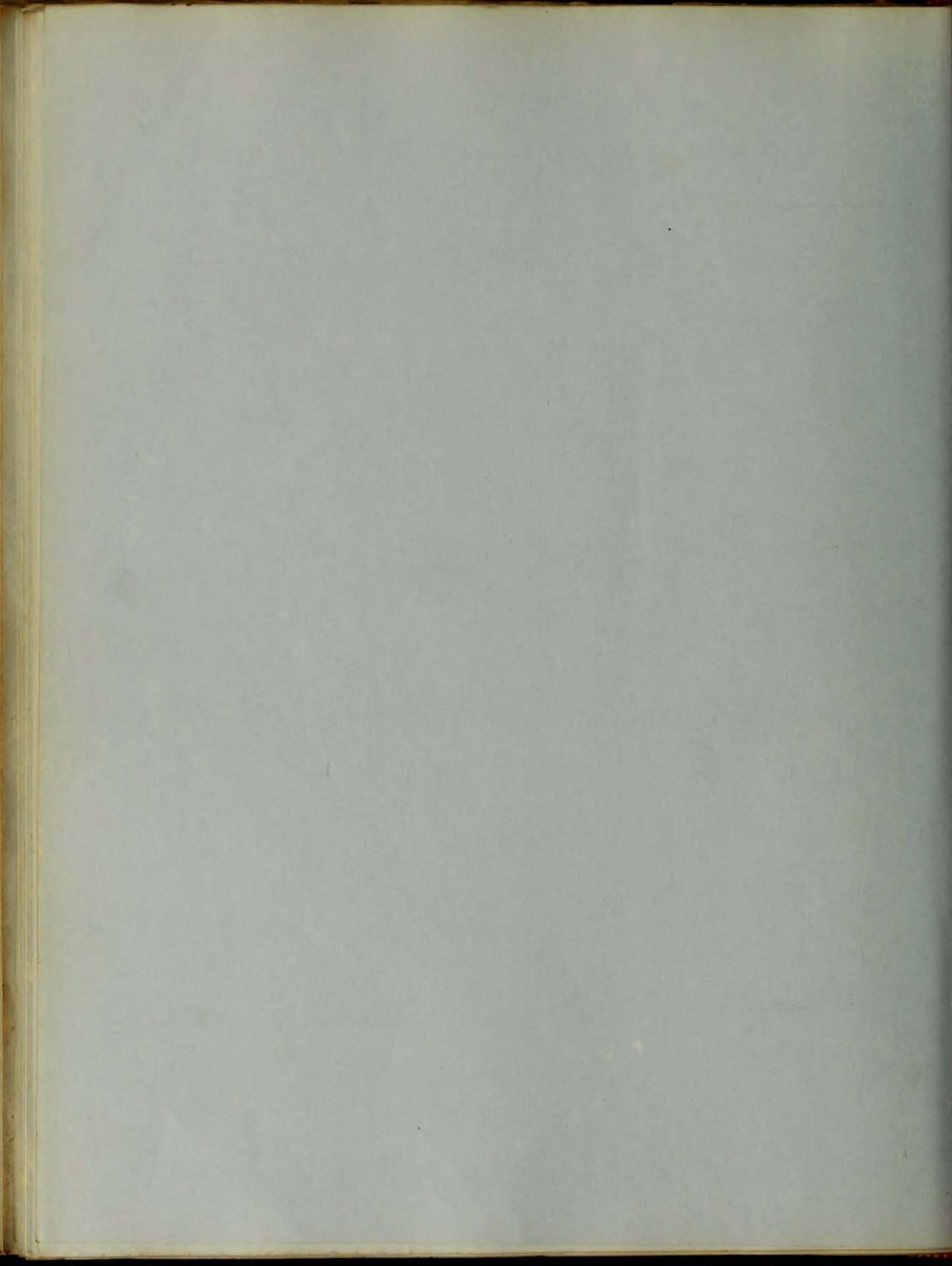
The profession of physician in all ages and countries, being held in great estimation, by reason of its intimate connection with the welfare of mankind. The cure of diseases, the restoration of health and the saving of life, are the objects to which the attention of <sup>the</sup> physician is directed and he cannot fulfil his important duties, without possessing requisite degree of



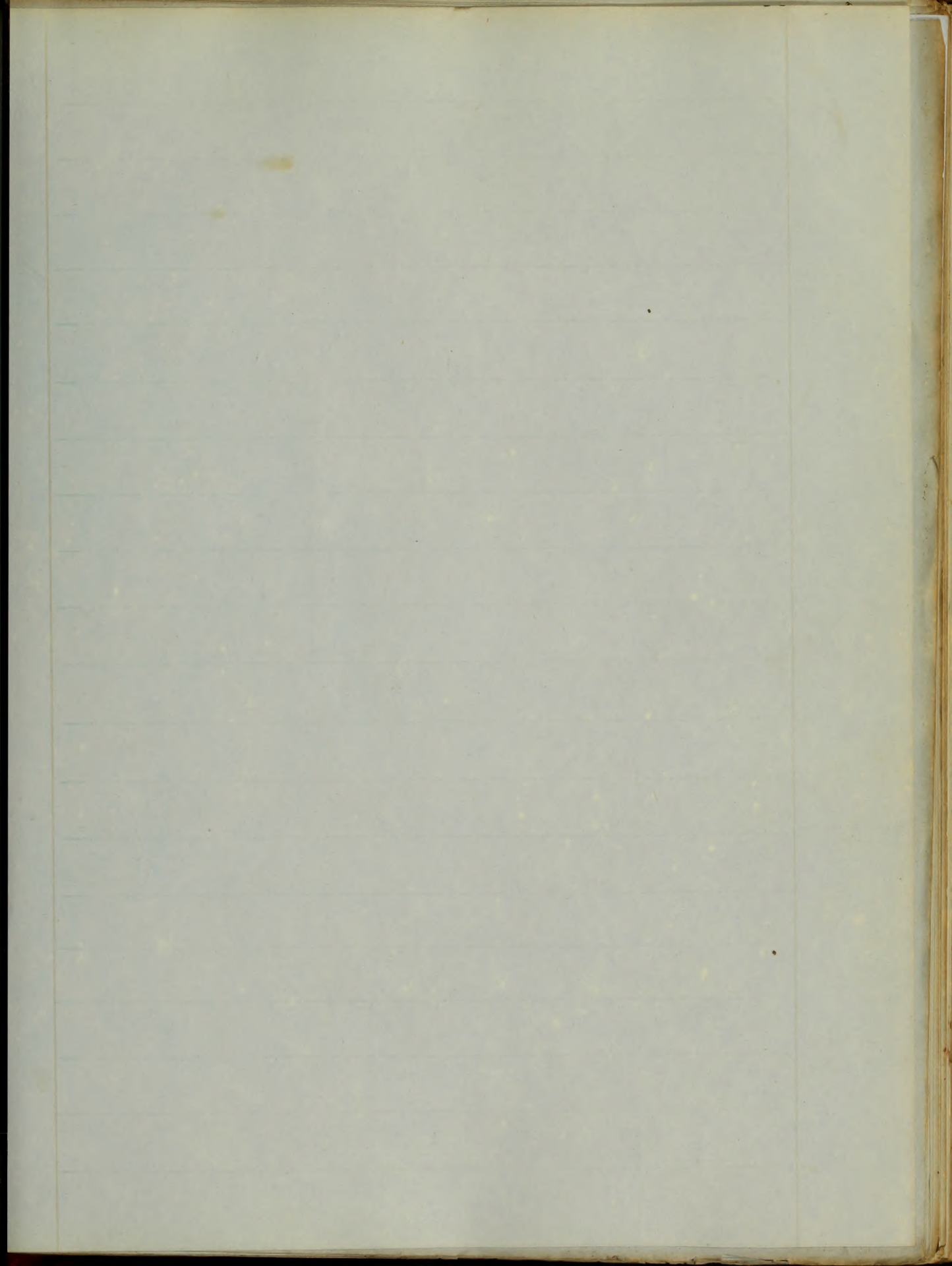
Knowledge, and exercising a due degree  
 of judgement, and sagacity, destitute of  
 the aids, which books, lectures, and  
 observation, afford, he can never ac-  
 -quire the principles of physic, under-  
 -stand the structure of the human frame  
 develop the causes and seat of diseases,  
 and become acquainted <sup>with</sup> proper reme-  
 -dies to remove them.

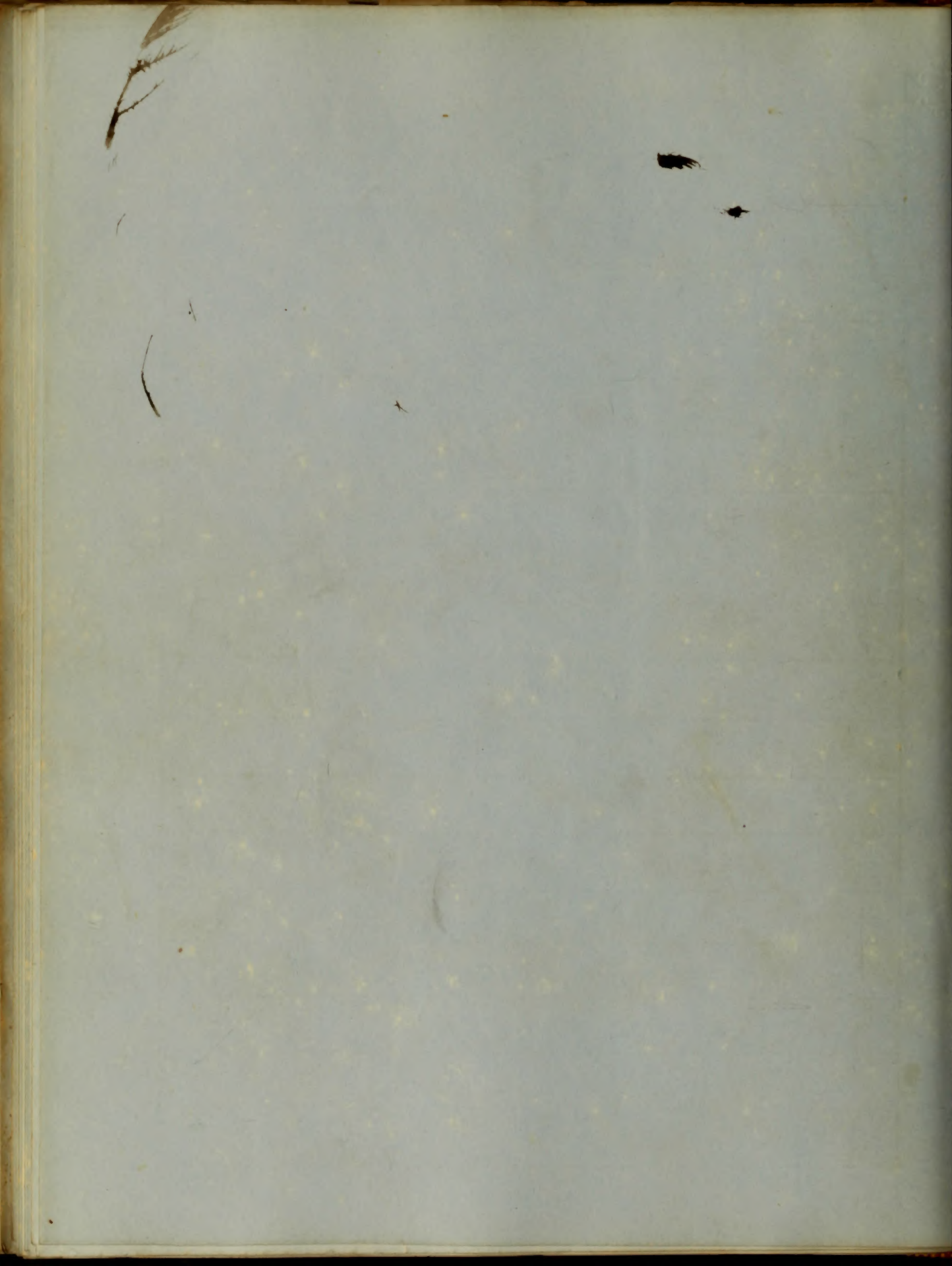












An  
Inaugural Dissertation  
on

Typhoid Fever

Submitted to the examination of the Provost, Regents

and

Faculty of Physic  
of the

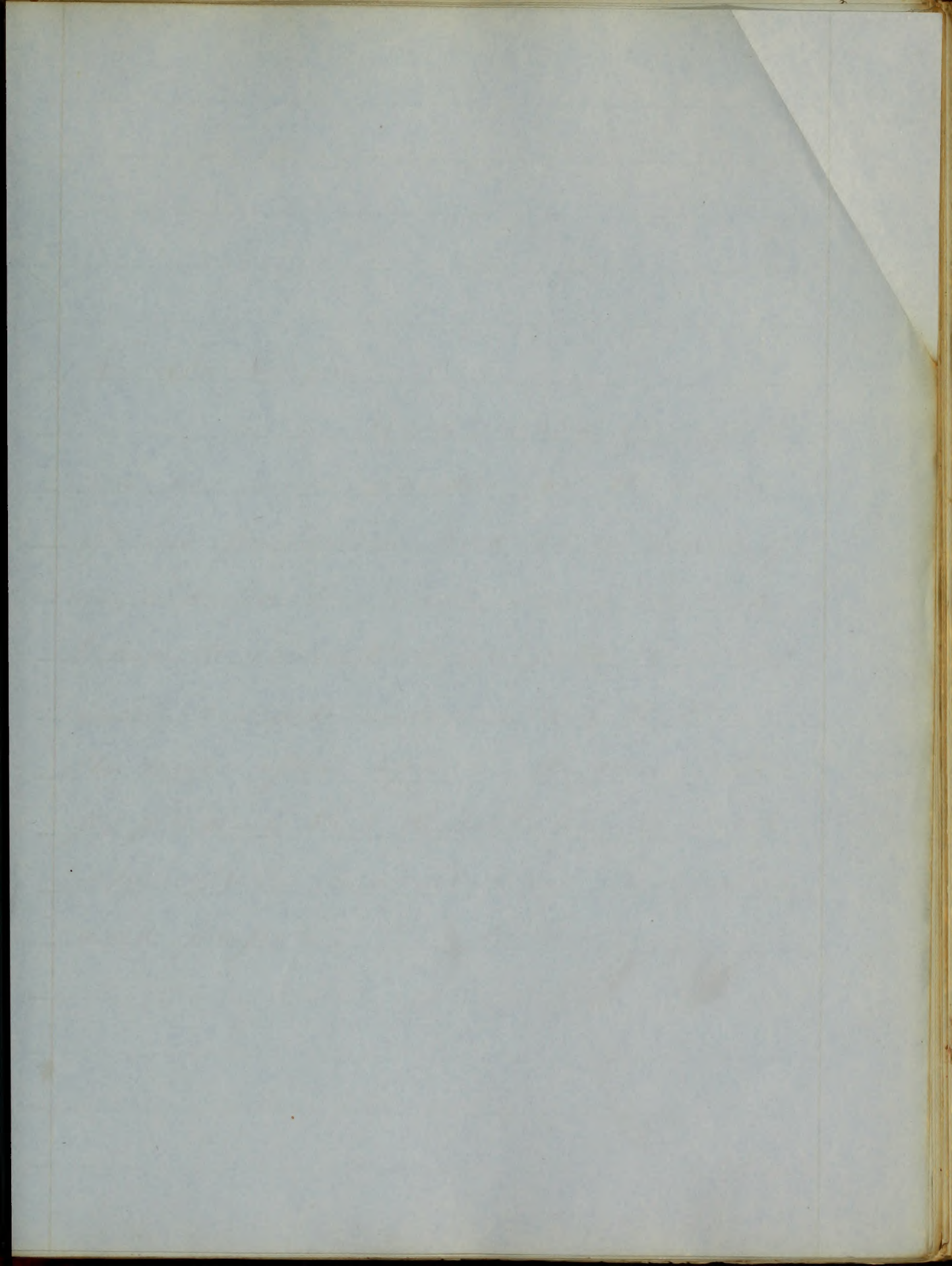
University of Maryland

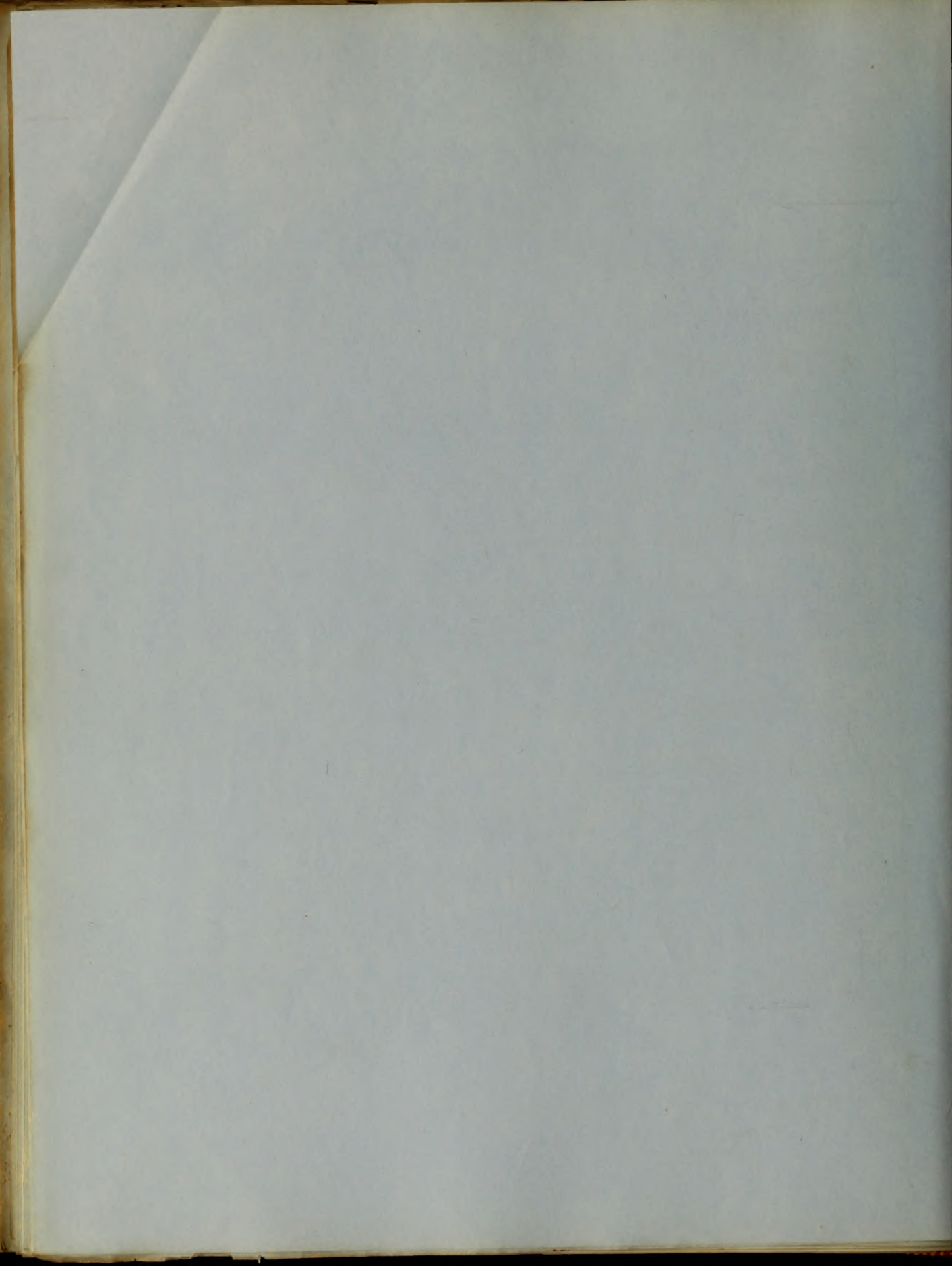
for the degree of  
Doctor of Medicine

By

George W. Heagy  
of Carroll County  
Maryland.

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To Mr. Chew

As a mark of respect  
for his high standing in the rank  
of his profession, and as a token of  
regard for the great pains he has  
taken, to render those subjects clear and  
easily comprehended, which to the  
student often appear difficult and  
perplexing, this dissertation is most  
respectfully inscribed by his friend  
and pupil

G. H. Seagy

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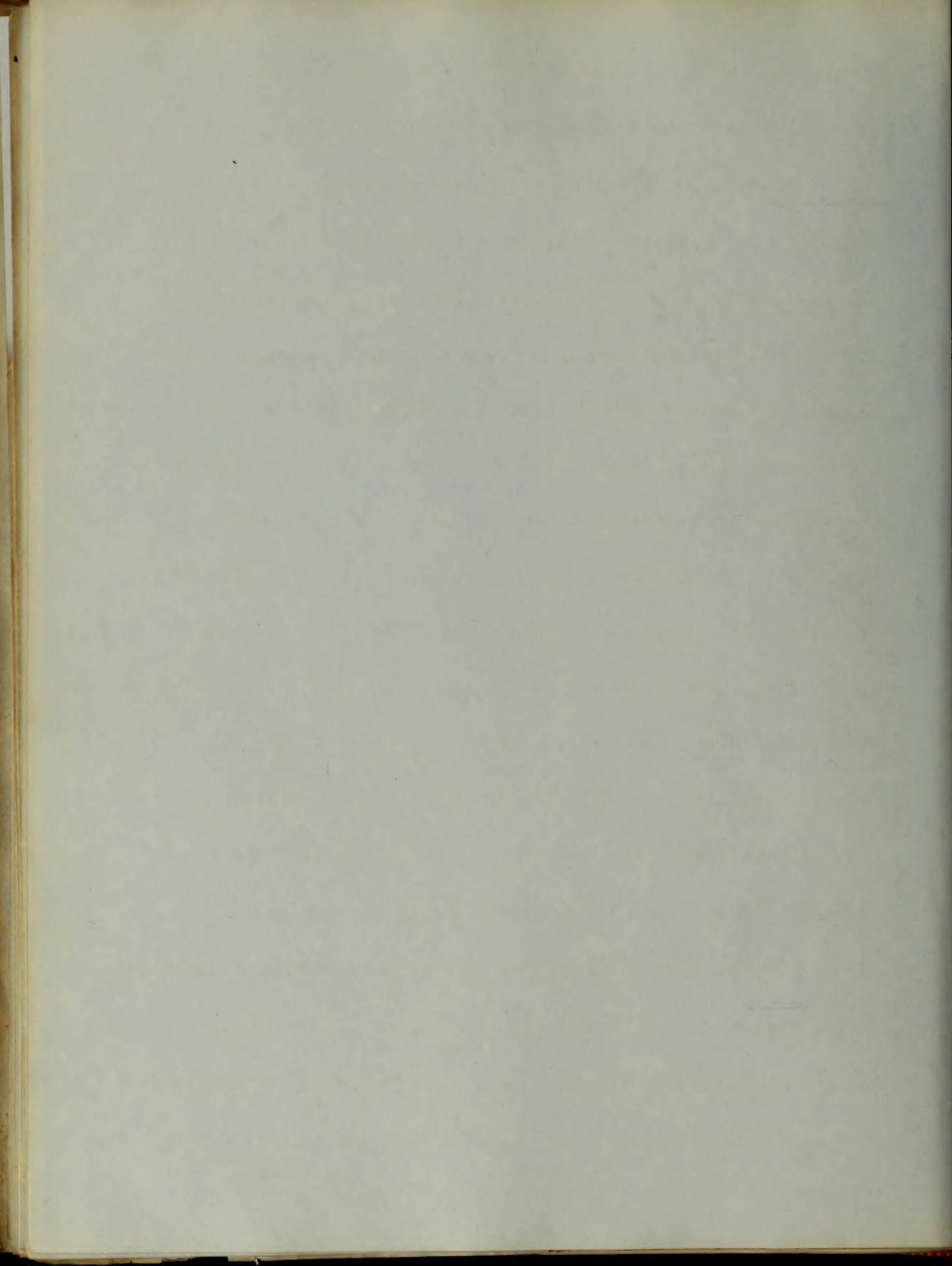
1

As it has been the established custom of the University of Maryland, since the time of its organization, to require of its candidates for graduation a thesis written on some subject connected with the science of medicine, it becomes my duty to conform with this requirement, I have therefore selected as the subject of my dissertation typhoid fever, not with the hope of advancing any new ideas as that with my slight experience would be vain and presumptuous. But knowing that in this country it is one of the most common and fearful diseases with which physicians have to contend, I think it of the highest importance that all who are about engaging in the practice of medicine should be well acquainted with its lesions, symptoms, diagnosis and various methods of treatment,

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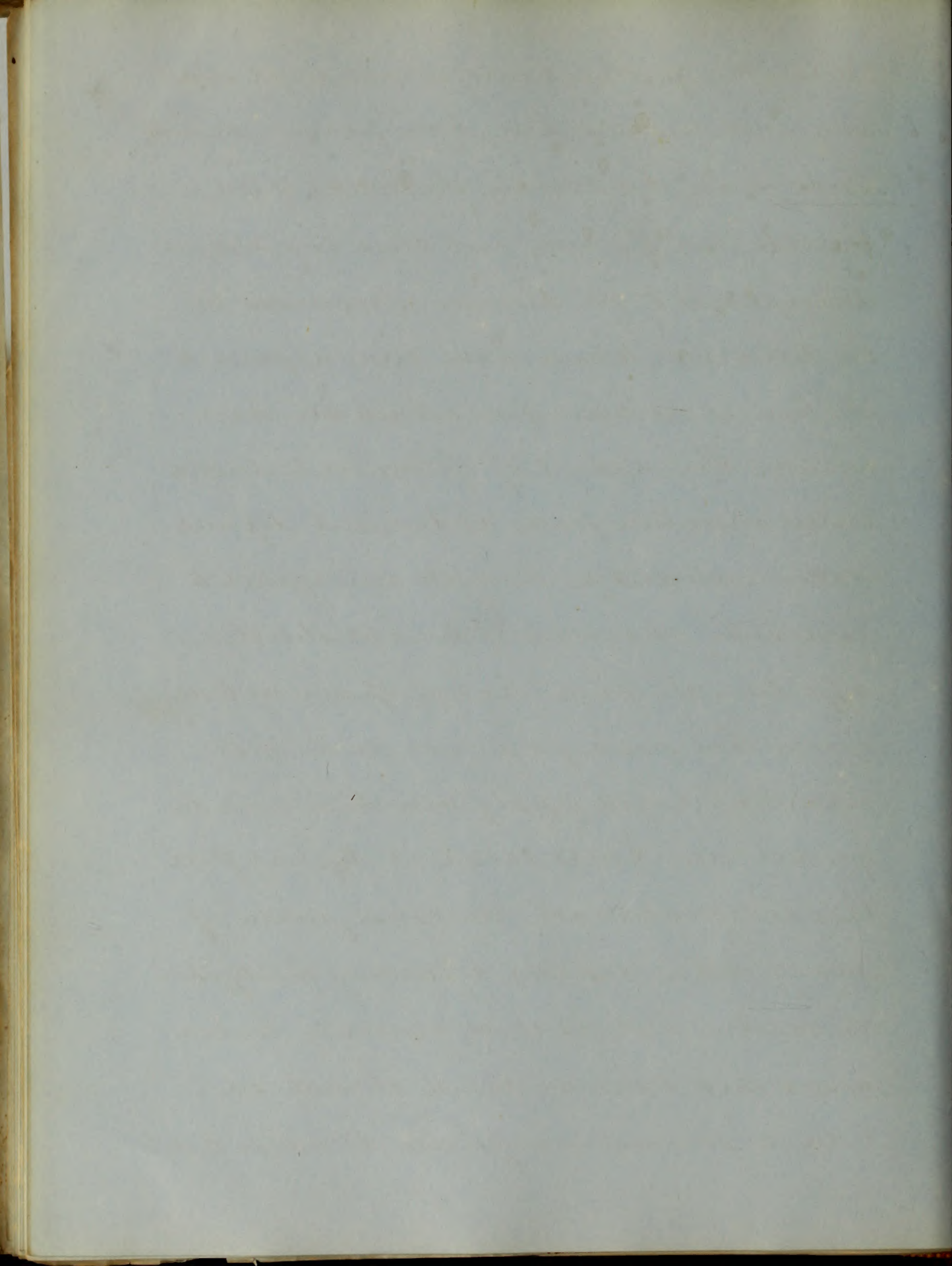
2

This is the ordinary continued fever of the United States, and a large portion of Europe. These however are not the only regions where it is found, as it is supposed to invade all inhabited countries. It has been long known and described under many and various names. We find it described by the older authors, under the names of typhus mitior, nervous fever &c. the first to distinguish it from malignant typhus, which they considered only a severe form of this disease, the latter in consequence of the nervous symptoms, which in many cases are so prominent. The first distinct account of its lesions, diagnosis and pathognomonic symptoms, was published by Louis in 1829. Dr. Nathan Smith in 1824 under the name of typhous fever published a very good description of the disease, as it occurs in this country.



3

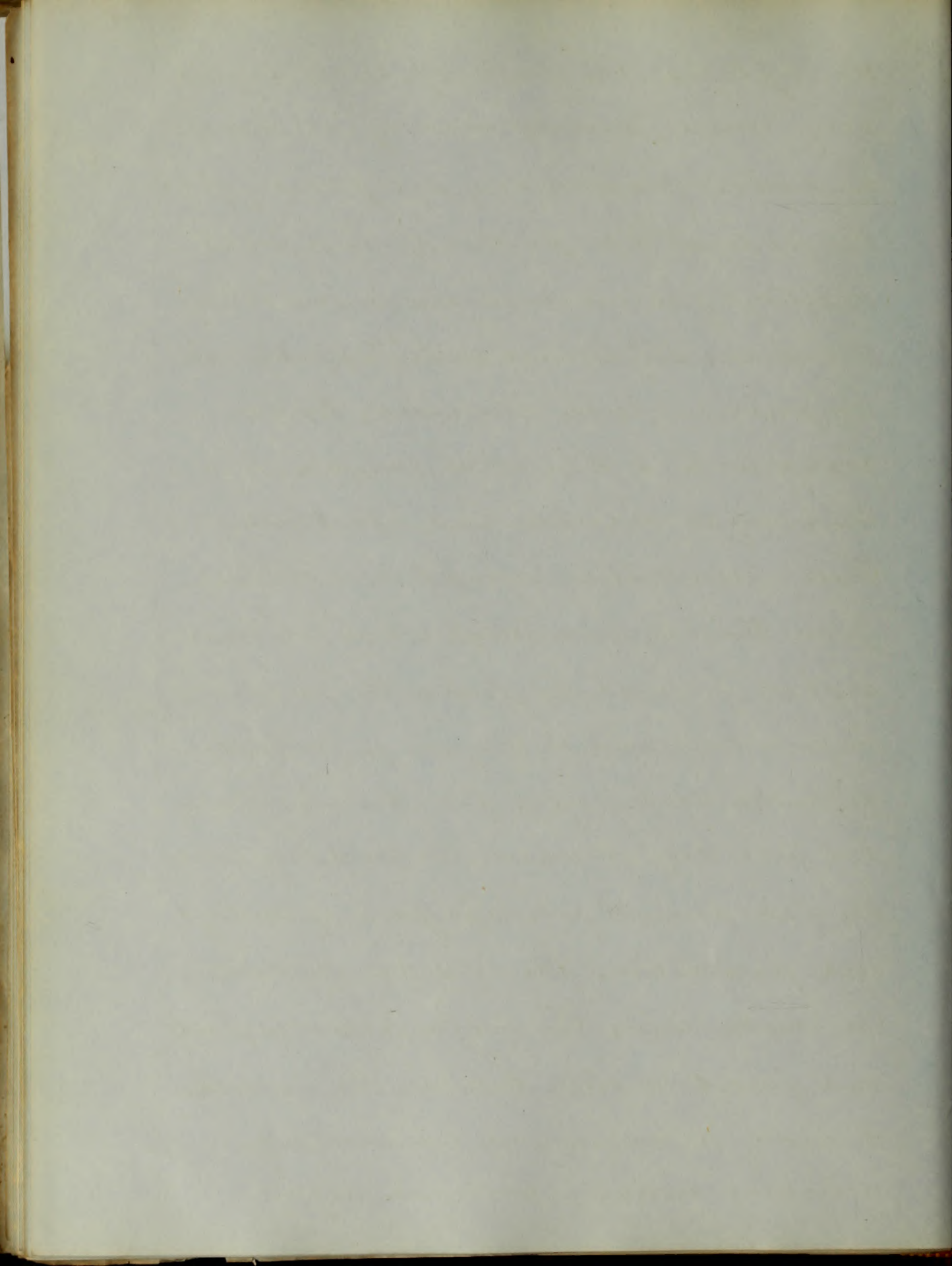
Since the publication of Louis' work, several very good treatises have been written on the subject. In this country, the works of Dr. Bartlett and Dr. Wood, give clear and distinct descriptions of the disease. Numerous as the titles are, which have been applied to it, there is no one upon which all have agreed. The names of follicular enteritis, enteromesenteric fever, abdominal typhus, dothinoenteritis &c. have all been applied to express the character of the intestinal affection. Dr. Wood has proposed enteric fever, this perhaps would be the best name, we could apply, were there none in general use. Louis called it typhoid fever, this is objectionable, in consequence of many other diseases assuming the typhoid character, but as it is generally known under this term we think it best in order to prevent confusion to adhere to it.



4

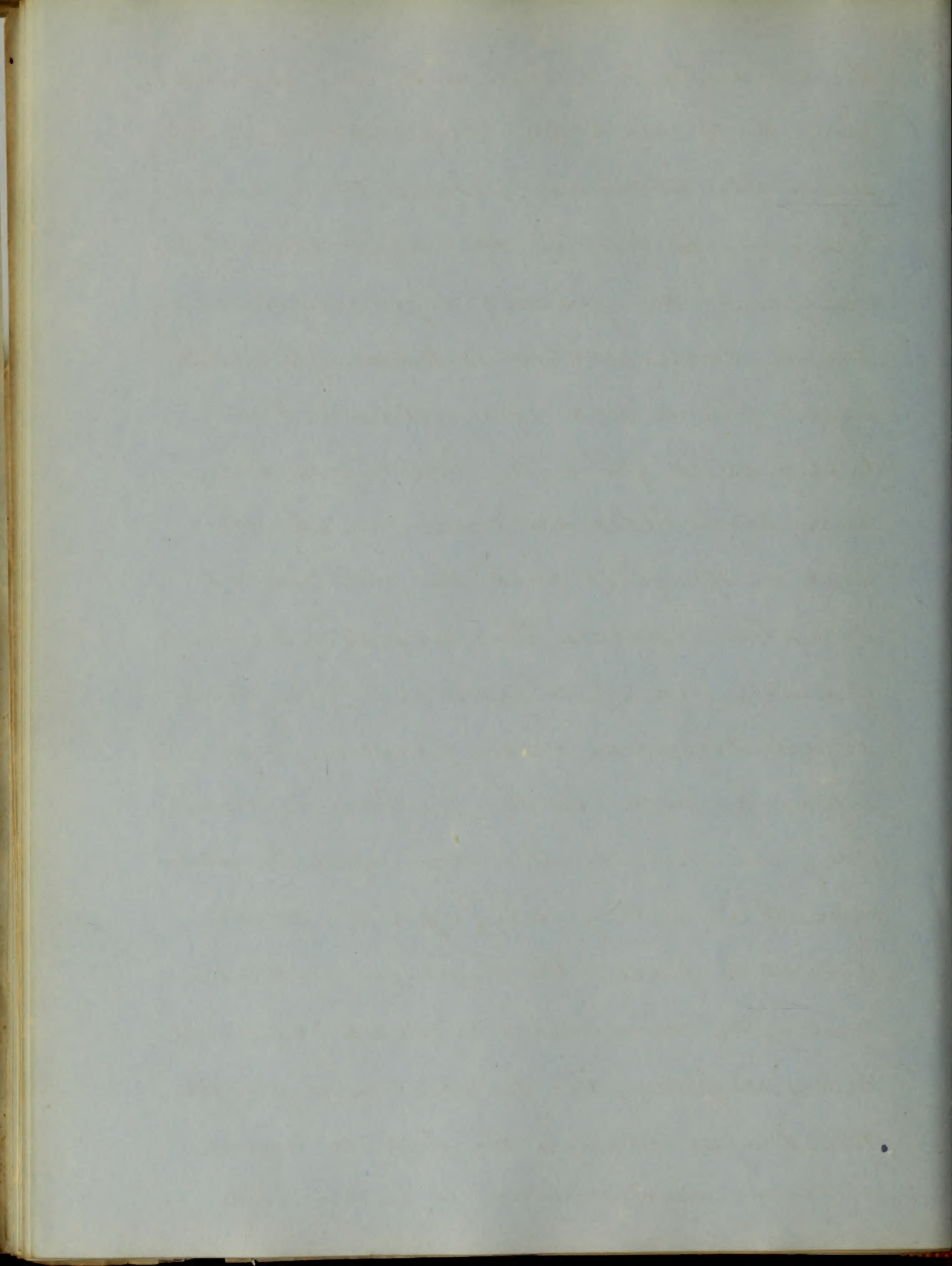
Symptoms. The mode of access differs very much. Most commonly we have the usual premonitory symptoms of fever, the patient complains of languor, debility, general uneasiness, inability to labour, slight headache, <sup>the</sup> appetite is impaired, pulse increased, tongue coated with a thin white fur, usually a tendency to diarrhoea and epistaxis.

These premonitory symptoms continue from three to seven days, when we have a chill followed by fever, the pulse now becomes increased in frequency, generally dichrotic and gassy, the skin is mostly hot and dry. Headache becomes very severe, the face presents an expression of dullness and prostration, the eyes are suffused, the cheeks livid, the tongue becomes pasty and furred, a bitter taste in the mouth, Generally delirium and insomniolence, delirium usually worse at night.

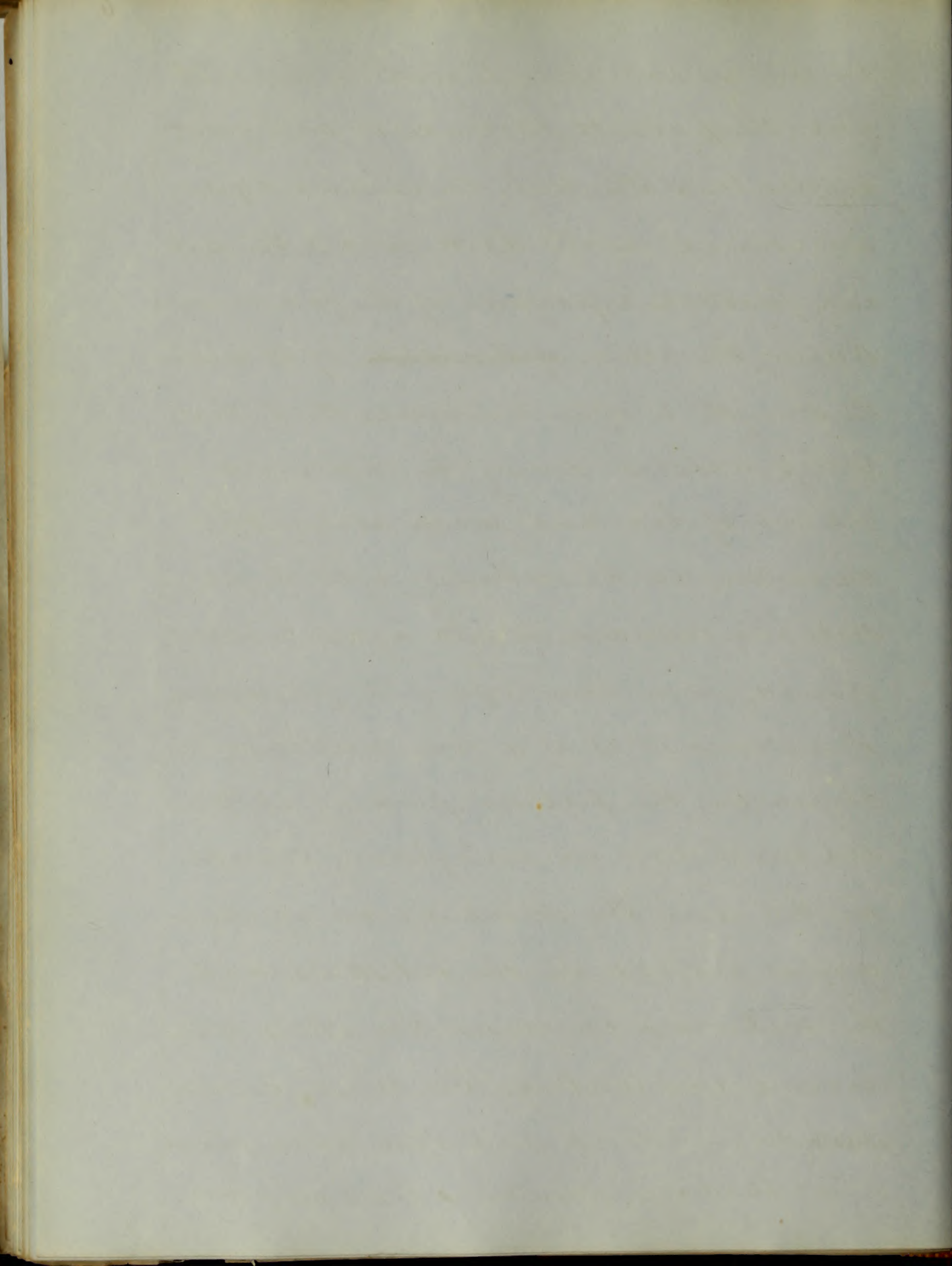




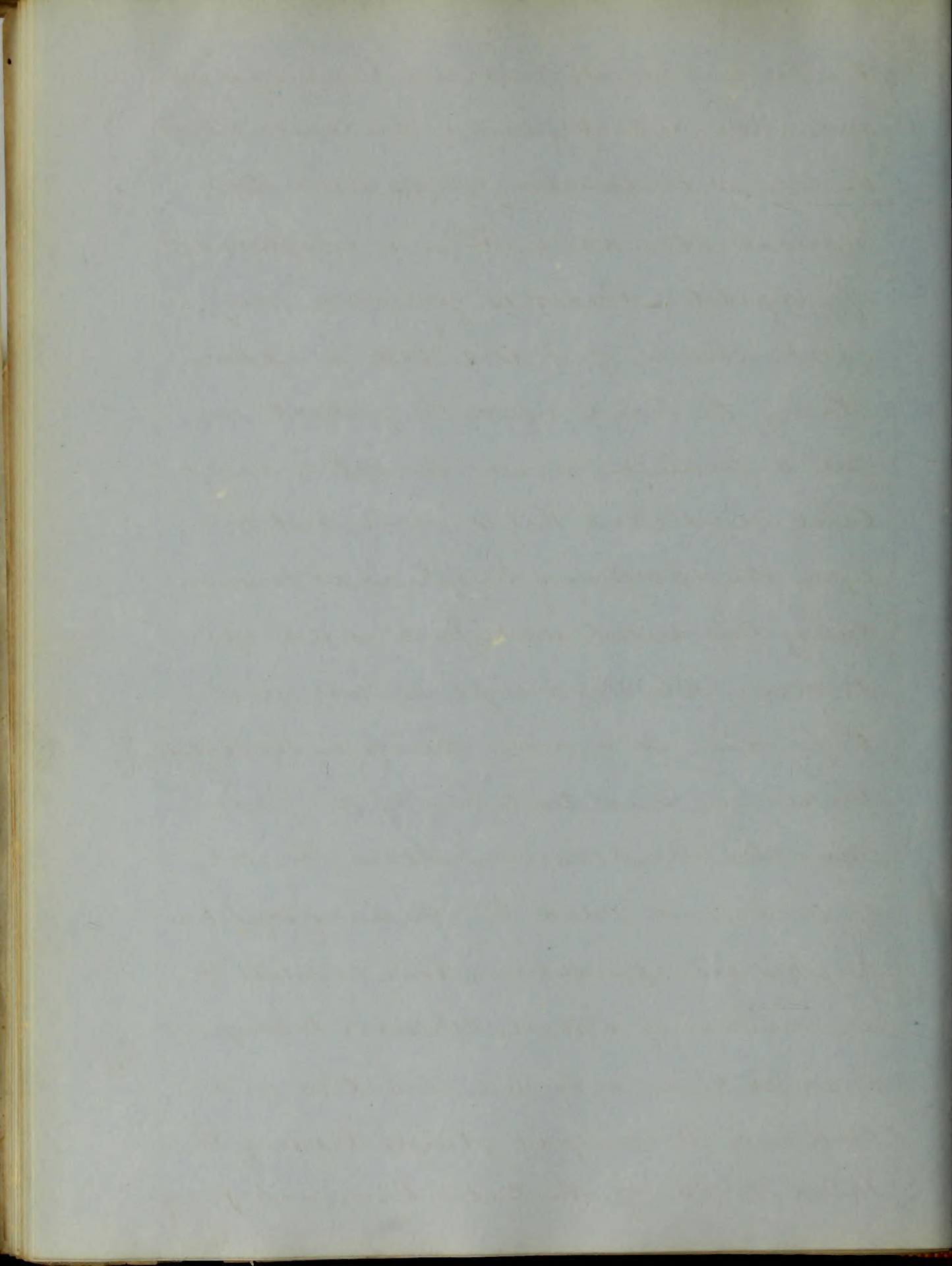
Slight deafness, sounds in the ears and swimming in the head are very common at this stage. The abdomen becomes tympanitic. Gurgling is felt in the right iliac fossa, caused by the gas and liquid contained in the caecum. There is tenderness in the right flank and epigastrium. The diarrhoea is generally increased. Cough and bronchitis are common. At the end of the first week the rose colored eruption appears. This consists of a number of small red spots similar to flea bites, which disappear under pressure, but return as soon as the pressure is removed. They are mostly situated upon the abdomen, though they may <sup>appear</sup> upon the chest, limbs or face. The headache at this time generally diminishes or ceases, giddiness takes its place. The prostration is greater. The tongue changes, the papillae become enlarged and elevated, it is dry and



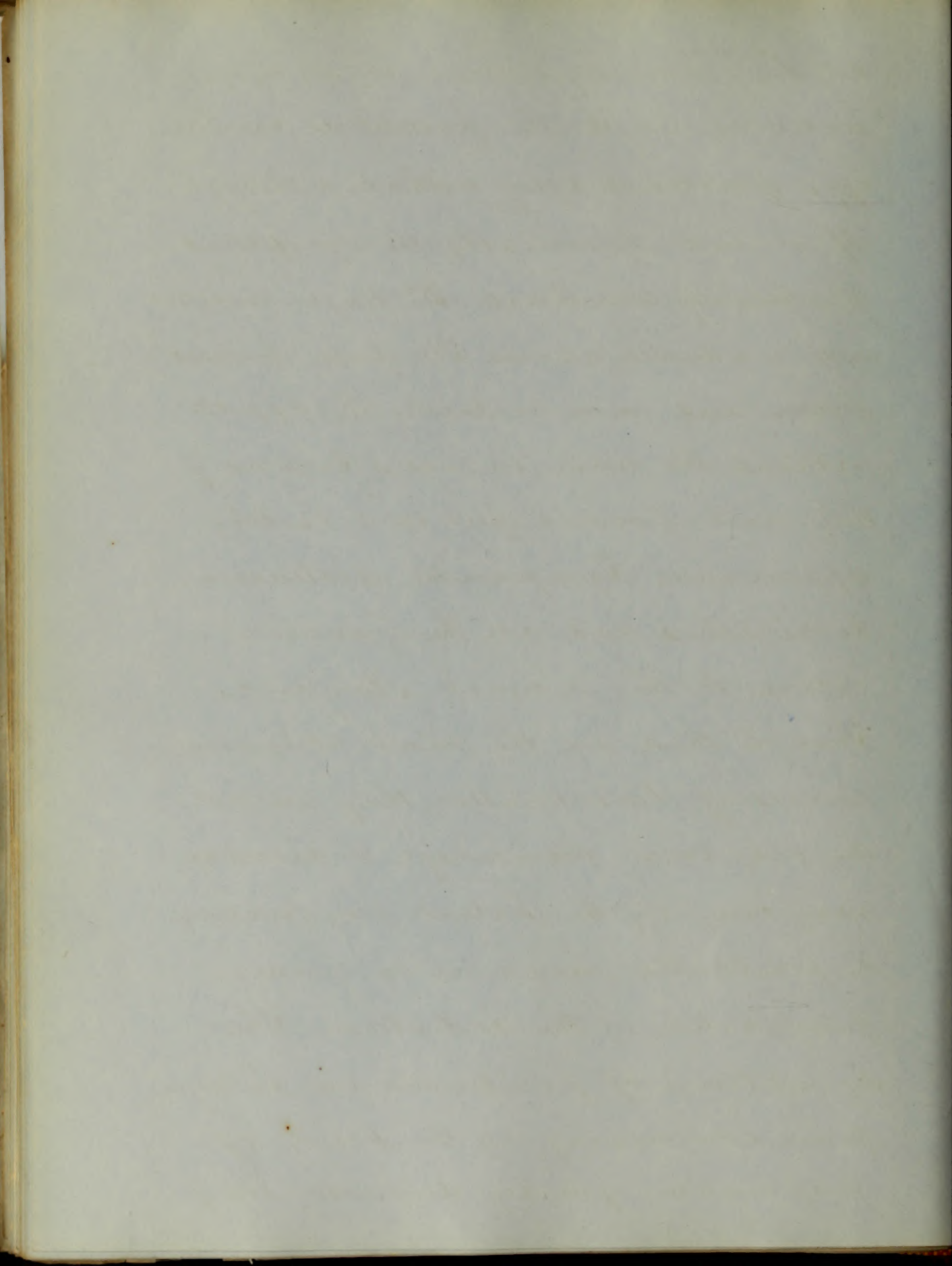
tremulous and covered with a brownish  
fur, the patient protrudes it with great  
difficulty. The teeth, tongue and lips  
are covered with dark sordes. The dull  
and prostrate expression of the face increases.  
During the action ~~of the action~~ of the delirium  
the strength is often increased, the patient,  
unless watched during the night, will  
get out of bed and walk about the  
chamber; in the morning, after the delirium  
shall have subsided, he will again be prostrate,  
generally more than before the paroxysm.  
Sometimes it is of a low, muttering  
character, the patient picking at the  
bed clothes or at imaginary objects  
in the air. The secretions are all altered,  
gas is formed in the intestines, and  
the meteorism increases. The stools often  
become involuntary. The urine is scanty,  
usually high colored and often ammoniacal.  
(The bladder sometimes loses its power.



7  
The pulse generally increases, becoming smaller and more dichrotic, though this is not always the case as it sometimes falls below the normal standard. There is complete loss of appetite. Thirst is generally very great, absence of it is a bad symptom. Placing the hand upon the patient we feel a peculiar burning sensation, called calor mordicans, this is most distinct upon the abdomen. Dysphagia is common during this second week, Eschars are apt to occur. Blisters or cups are very liable to produce sloughing. Siccough, subsultus tendinum and twitching of the facial muscles are common. About the end of the second week the miliary eruption makes its appearance, this consists of a number of small, circular transparent vesicles, caused by an elevation of the cuticle by a limpid fluid. During the third week if the case terminate fatally



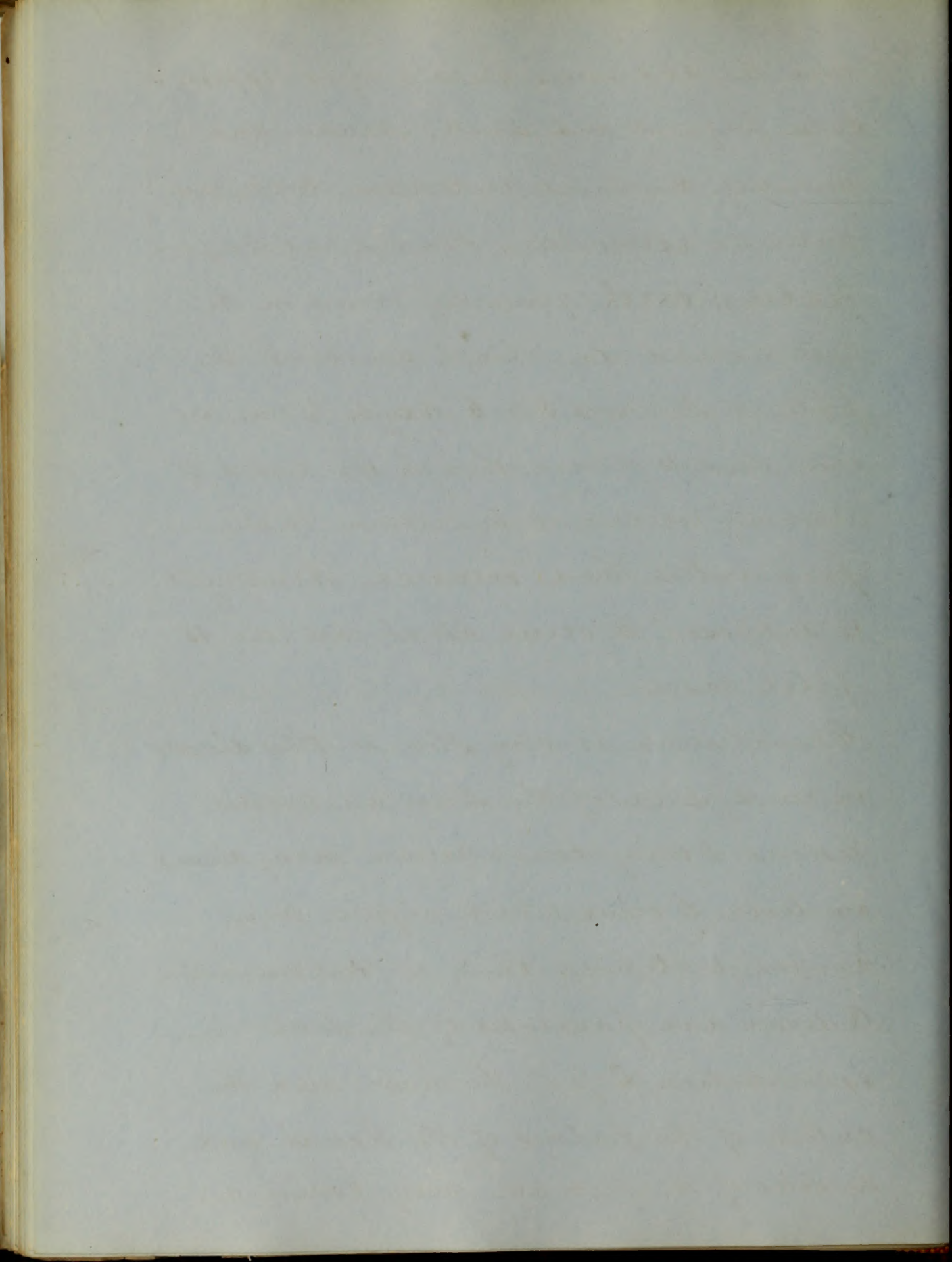
all the <sup>symptoms</sup> gradually increase in severity, until at length the patient is carried off, sometimes dying without a struggle. If it end favourably, the symptoms gradually ameliorate. The tongue moistens and gradually cleans, the pulse becomes slower and more natural, the appetite returns, the urine increases. Eschars if they have formed put on a healthy appearance. Tympanitic distension diminishes, and all the functions return to the normal standard. Though these are the most common modes of termination, they are not the only ones. Haemorrhage or diarrhoea may carry off the patient very suddenly, or peritonitis may come on from perforation of the intestine. The symptoms of peritonitis are intense pain commencing at the point of perforation, quickly diffusing itself





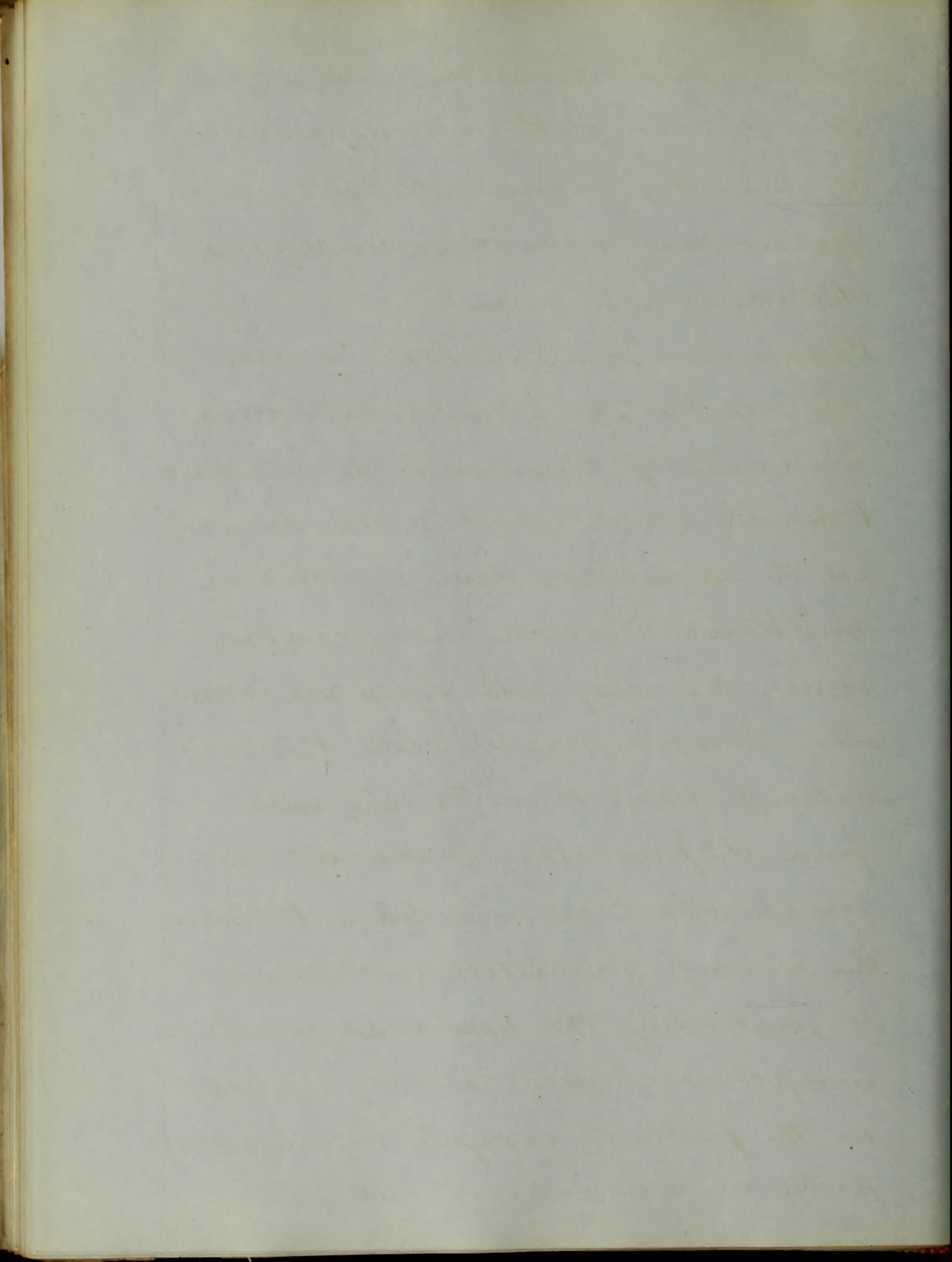
over the abdomen, Chills or rigors appear, Pulse frequent and small, Nausea and vomiting, Increased meteorism, Cold and contracted extremities, Pinched and sharpened features, Death generally occurs on the first or second day, though sometimes the patient survives 5 or 6 days, Some are even said to recover, though in cases of recovery, we cannot be certain that perforation had occurred, Peritonitis is supposed to occur about once in 15 fatal cases,

Convalescence is very slow in this disease, in consequence of the severe anatomical lesions. During convalescence many diseases are liable to occur, which require very careful watching. There is great emaciation, Oedema and paralysis of the lower extremities, Loss of the hair and the cuticle of the palms of the hands and the soles of the feet are very common,



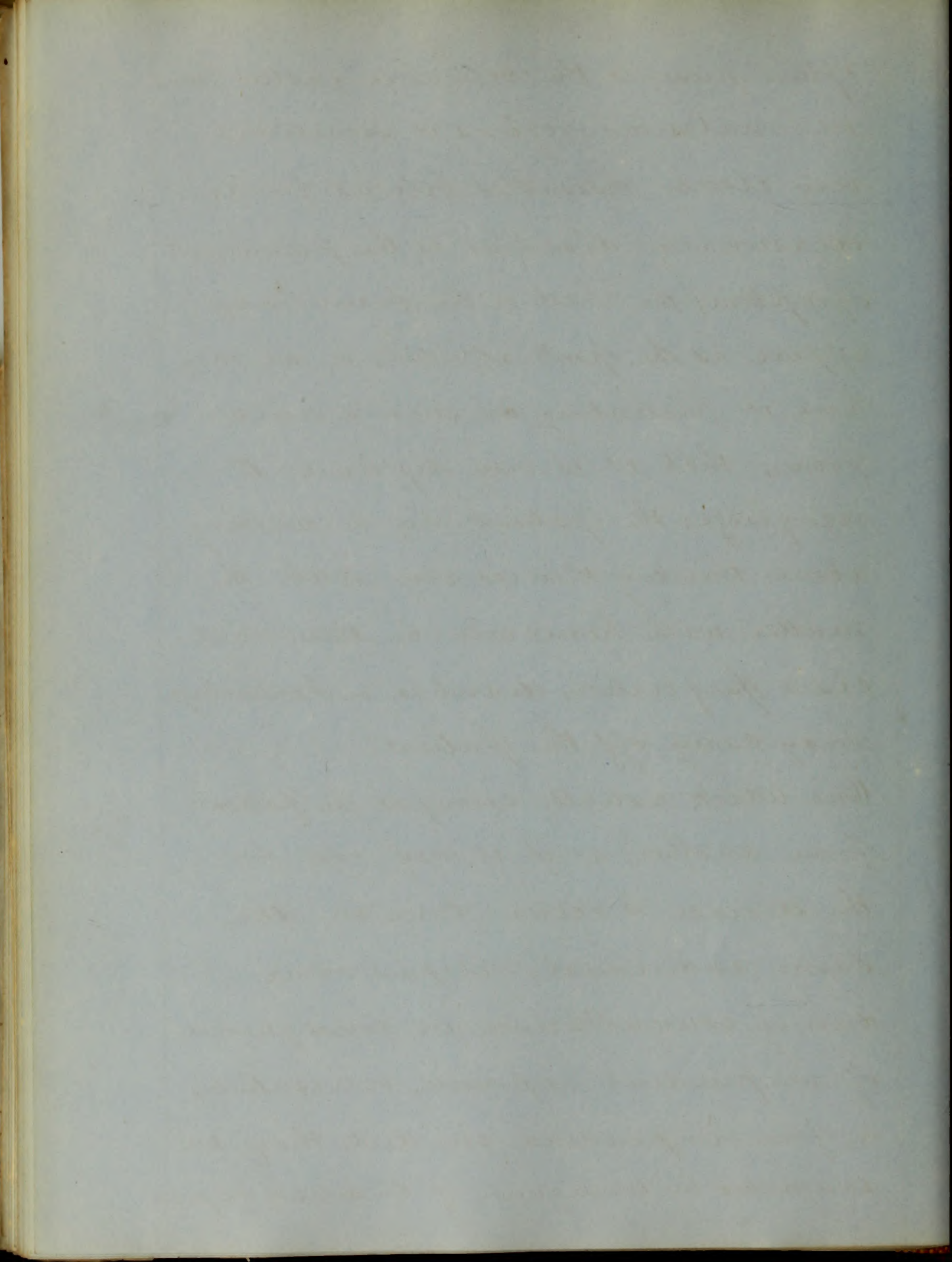
The deafness occasionally remains for some time or if there is suppuration it may be permanent. Pleurisy and pneumonia often occur. Erysipalis; otitis &c. are also common.

I have now mentioned the greater part of the symptoms which occur in a case of common continued fever. But we seldom meet a case in which all the symptoms occur, that I have mentioned. There are many cases in which the diagnostic signs are obscure, and therefore require close discrimination, to detect them. We may also find it presenting many different forms, which are very likely to mislead the young practitioner; Instead of presenting the usual adynamic symptoms at first, it may appear in the form of simple inflammatory fever; in summer or autumn it



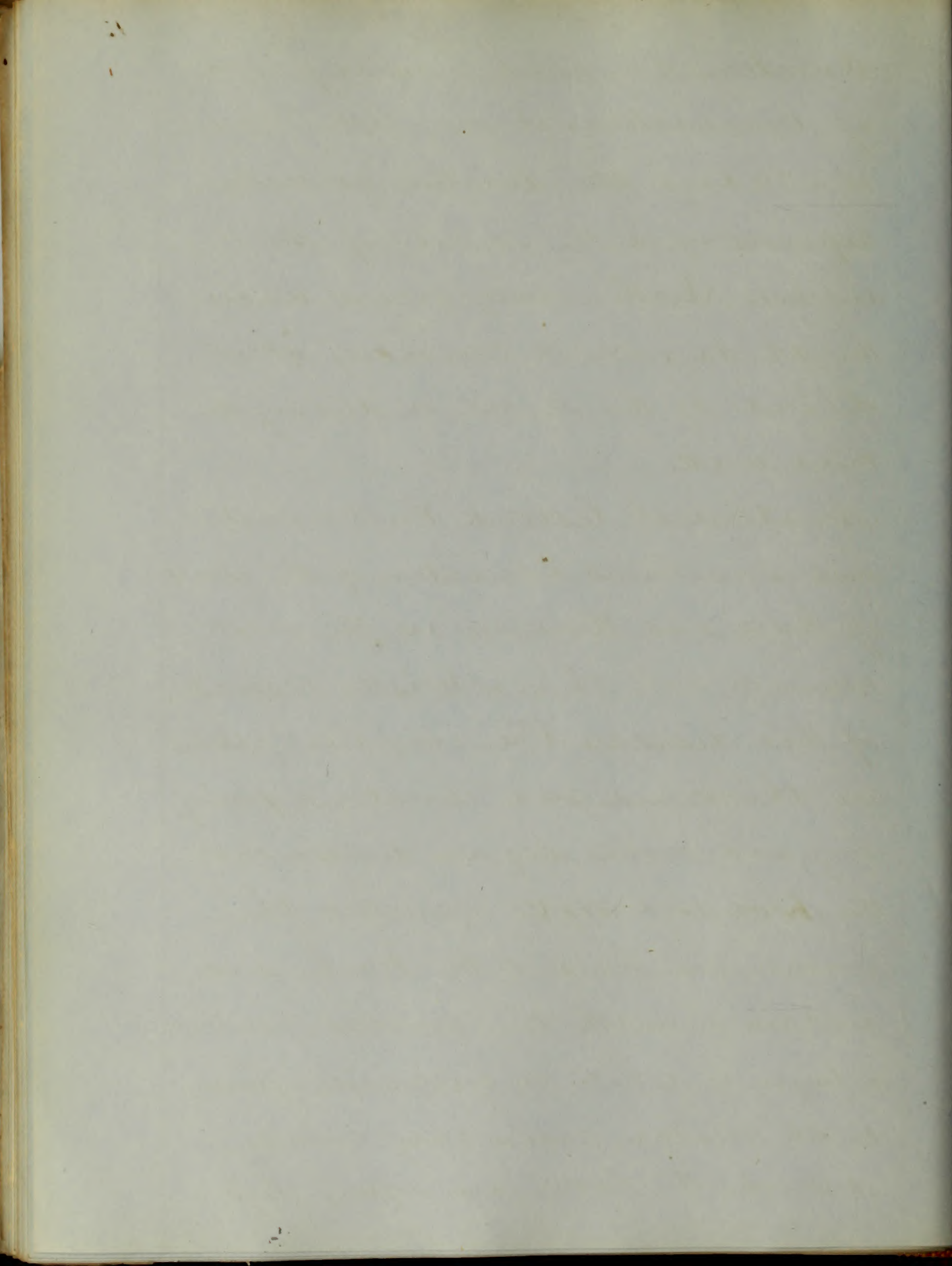
often presents the bilious or gastric form; in malarious regions it sometimes very closely resembles bilious fever; occasionally diarrhoea is the prominent symptom; the chest or the brain may appear as the part affected; or we may have it presenting in such a mild form, that it is very difficult to recognize; the patient may be walking about thinking there is very little the matter with him; even in these mild cases perforation, diarrhoea or hæmorrhage may carry off the patient.

One attack usually exempts the patient from another; as it is very rare for the disease to occur twice in the same individual; relapses occur during convalescence, in consequence of imprudent exposure, over exertion, or from imprudence in diet; they are dangerous in consequence of the debility of the patient.



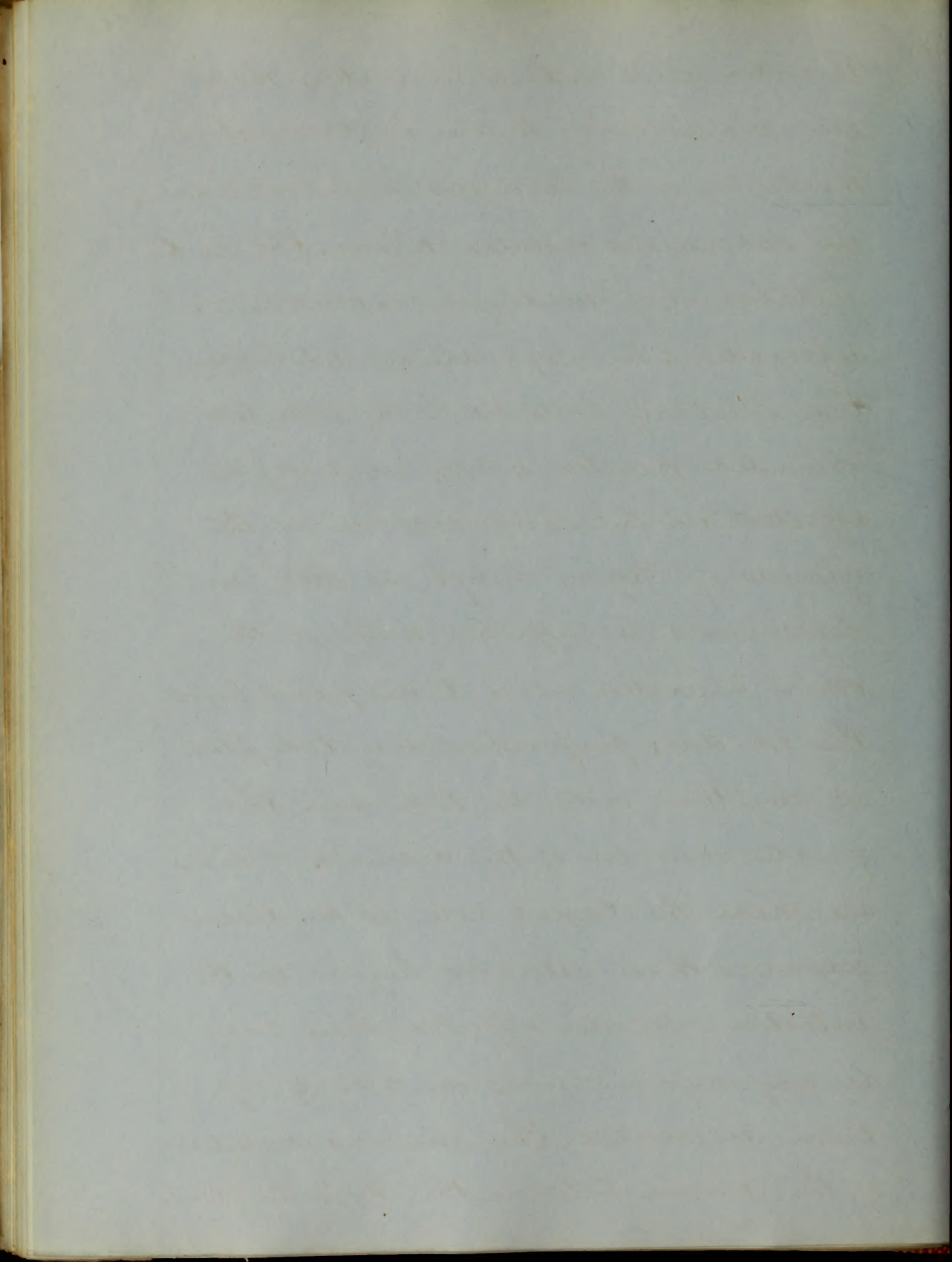
Duration: there is no regular period of termination; it may last from 15 to 80 days, the duration generally depends upon the severity of the disease. Death rarely occurs under the 9th day, most commonly about the end of the second or during the third week.

Anatomical lesions. Inflammation and sometimes ulceration of the glands of Peyer and Brunner are the most common and characteristic lesions of this disease. The elliptical patches are thickened and elevated, appearing long and ovoid; they are divided into the ~~hard~~ hard and soft varieties; the former are hard to the touch, and contain beneath the mucous membrane a layer of white or yellowish, firm, brittle matter, resembling crude tubercle: the latter are softer, less

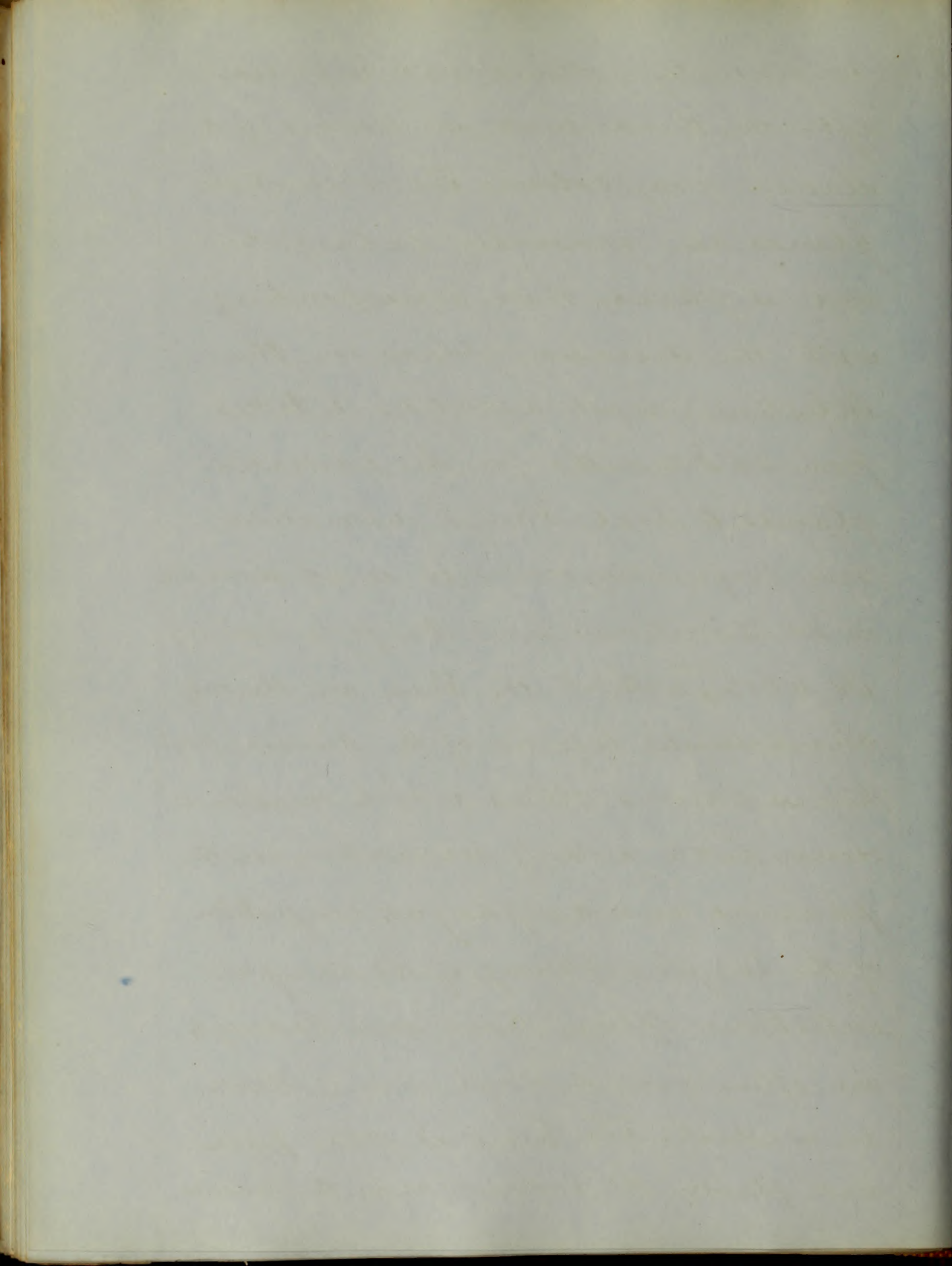




elevated and contain no matter; their elevation is owing to an inflammatory thickening of the mucous membrane and the submucous cellular tissue. The hard patches may undergo resolution or ulceration; the soft always ulcerate. The solitary follicles look like little rounded pustules; they are usually affected in the same manner as the glands of Peyer; though one may in some cases be affected without the other. Ulceration never takes place before the 9th day; perforation may take place at any time after the 12th day. The greater number of the diseased follicles are near the Caput coli, as the disease advances those situated higher in the intestine become affected; there may be any number from one to thirty of them ulcerated. The mucous membrane of the ileum between the affected glands



147  
is generally softened and injected, after the third week it becomes of a slaty gray colour. The mesenteric glands are generally enlarged and softened, those corresponding with the diseased glands in the intestine most affected. It takes from 2 to 3 months for the ulcerated glands to heal. Though ulceration very frequently occurs it is not invariable, as we sometimes have the fever running its whole <sup>course</sup> without it. These are the only characteristic lesions of the disease, though there are various others, which occasionally occur: little dots of ulceration in the pharynx and oesophagus; congestion of the lungs; softening of the large intestines, spleen, liver and kidneys, are often found though none of them are constant. The heart is often pale and flabby, the interior red; the muscles



lose their tenacity; the brain is seldom altered, sometimes a little serous effusion or congestion; the clot of blood is soft and easily broken; there is no buffy coat, the red globules are increased though changed in character.

Diagnosis. This cannot be made out, as in many other diseases, from one or two symptoms; we have no signs which are pathognomonic of the disease; we therefore have to combine a number of symptoms together, which combination gives us conclusive evidence of its presence.

The symptoms which lead us to suspect its approach, are the slow mode of attack; the epistaxis; diarrhoea; headache; frequent pulse; expression of countenance; meteorism.

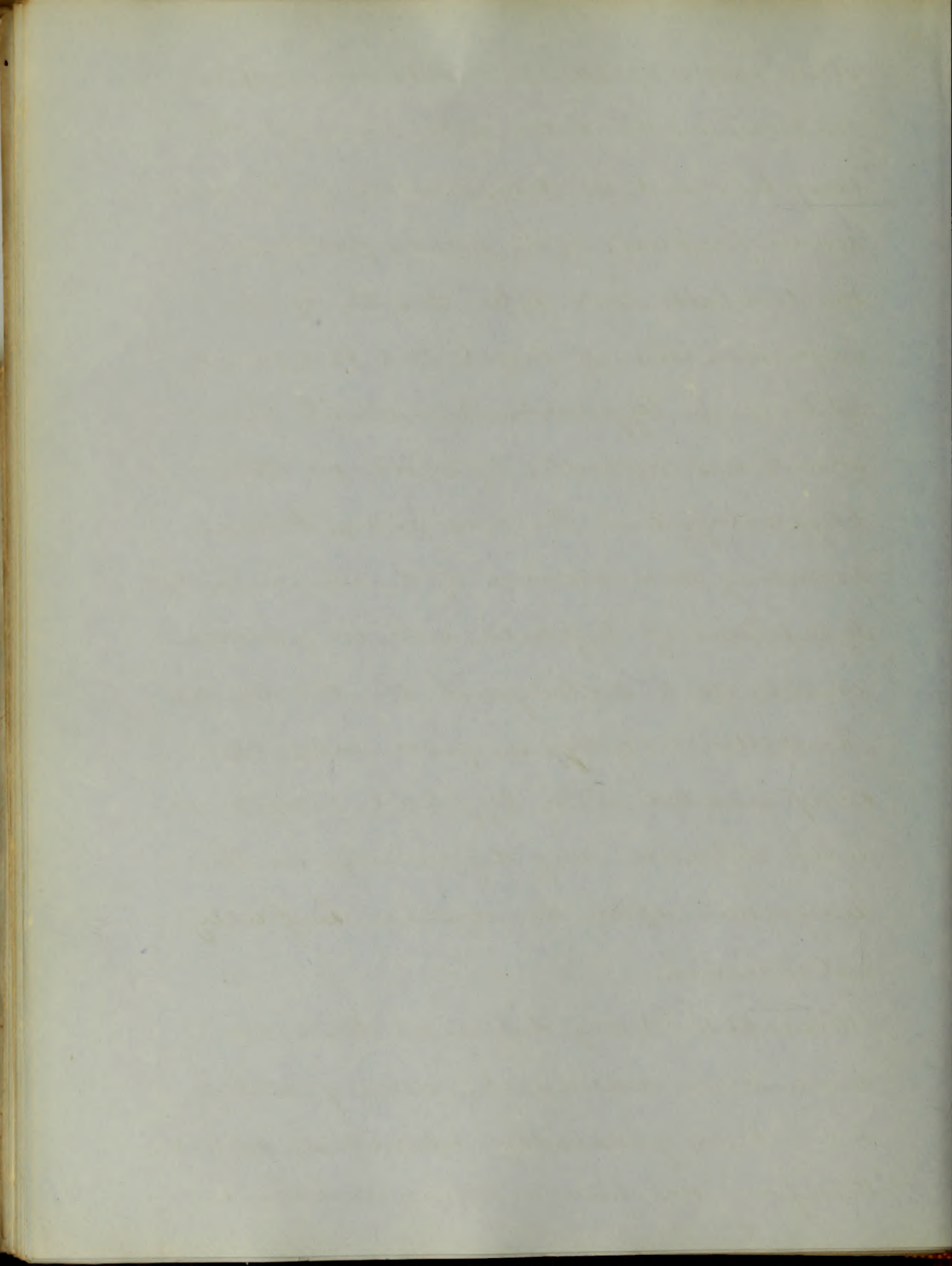
After these the rosy spots; delirium; dichrotic pulse; the gurgling; sudamina &c. give us certain evidence of its existence.

We distinguish it from typhus by the

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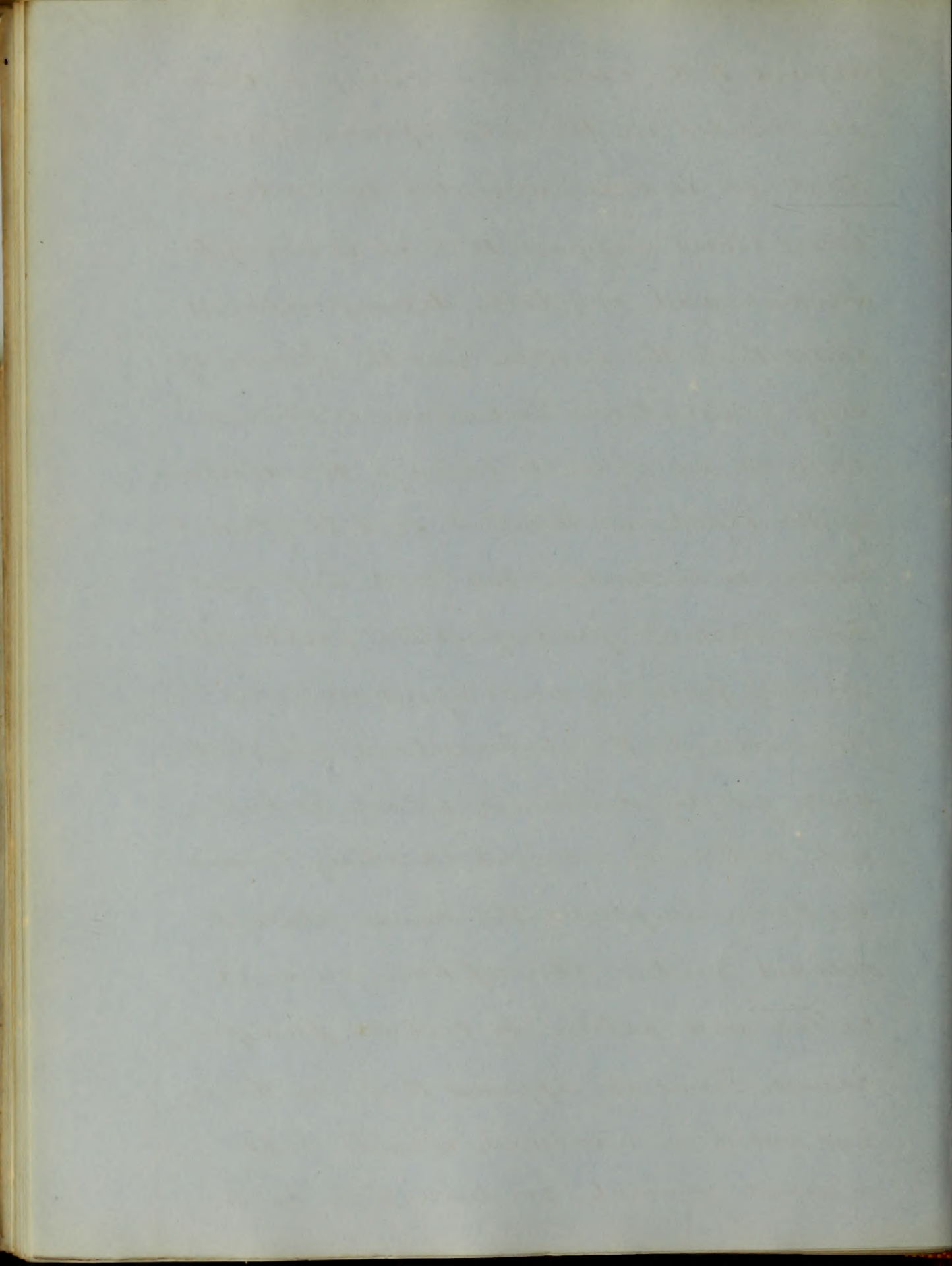
slow mode of attack; the diarrhoea, the meteorism; the later appearance of the eruption and the disappearance of the spots under pressure; by the greater prostration in typhus; and after death by the inflammation of Peyer's and Brunner's glands in typhoid. Remittent fever sometimes resembles typhoid in the beginning, but the remissions, bilious vomiting and absence of the characteristic symptoms of typhoid, will in general enable us to distinguish the two diseases. Remittent or typhus fever may be complicated with typhoid, though we have seldom any difficulty in the diagnosis after the disease is fully established.

Causes. Many different theories have been advanced, none of which have been generally admitted; as yet therefore we have nothing certain in

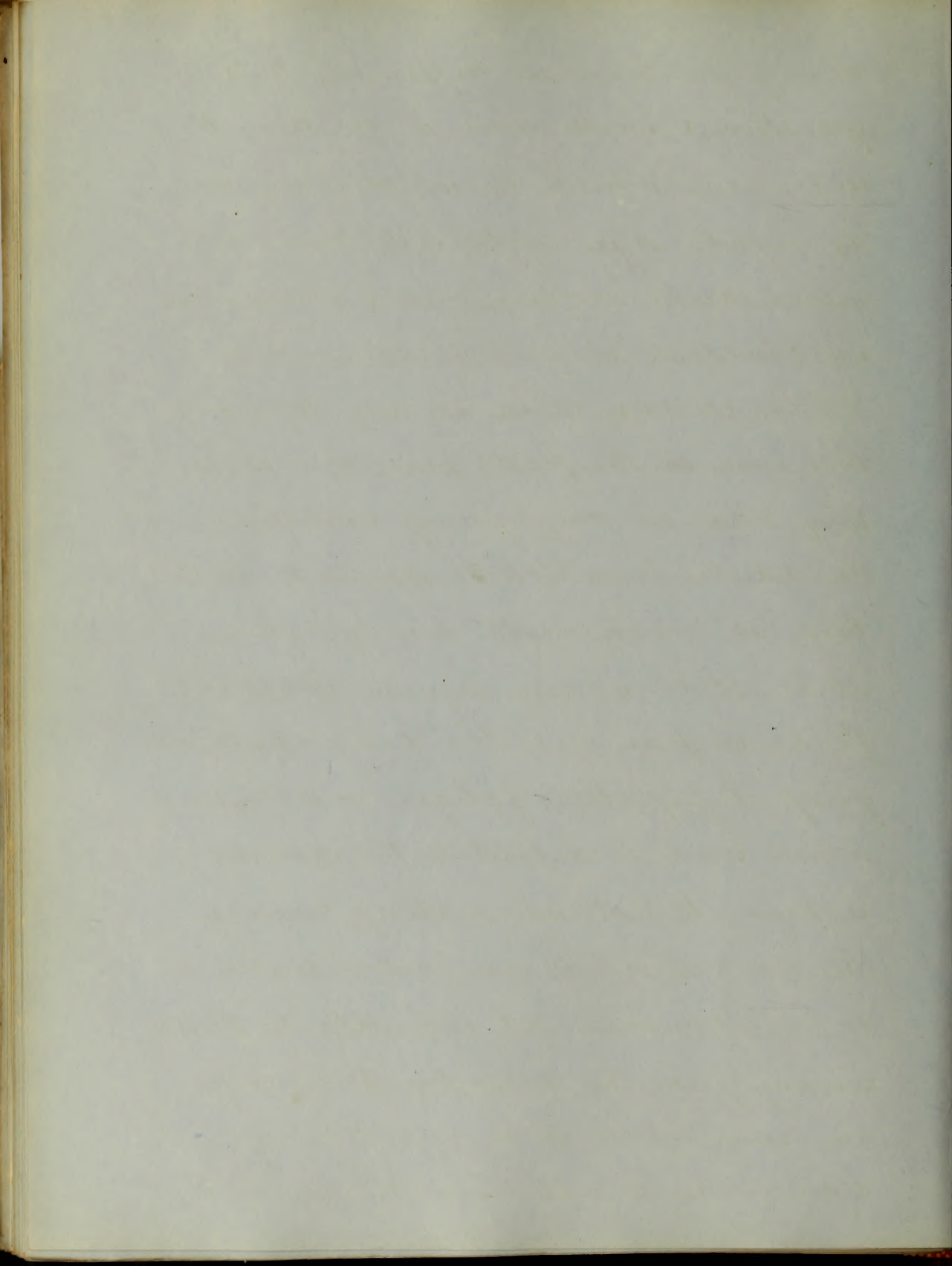




regard to the cause. Some suppose that  
 it resides in the atmosphere; others  
 that it is communicated by contagion  
 alone; others suppose that it is owing to  
 animal and vegetable decompositions;  
 others that the system has the power of  
 self generation. Sydenham supposed  
 it was an effort to change the diathesis  
 of the blood, Dr. Bartlett says the efficient  
 cause is unknown, Dr. Wood supposes  
 an inherent predisposition exists in  
 many persons, analagous in some  
 measure, to the tuberculous, rheumatic  
 and gouty diathesis, which is called  
 into action by various exciting causes,  
 Dr. Power supposes the cause always  
 resides in the atmosphere, and is  
 called into action by certain predisposing  
 causes. Thus it appears that no theory  
 has yet been advanced which has  
 received general credence, and as so

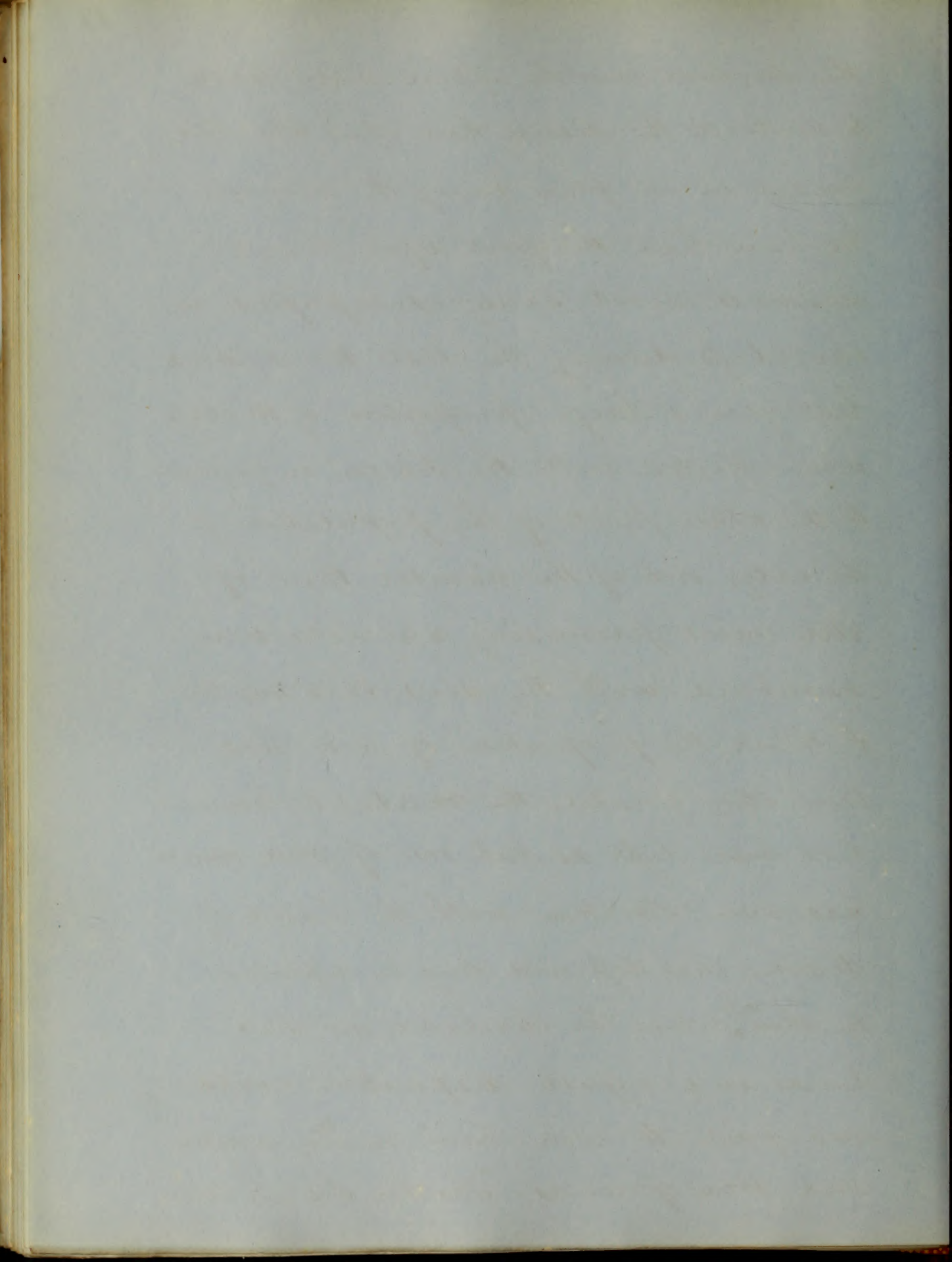


many great minds differ on this question, I shall leave it for time to determine which, or whether any one is right. Age appears to have a remarkable influence over this disease; in children it mostly occurs from 9 to 14; it may occur at any time under this, even in the first year, but it is very rare in very young children. In adults from 20 to 30 appears to be the time at which most are affected; above 50 it seldom occurs. Cold; bad food; impure air; low damp apartments; grief; dissipation; fatigue and everything which tends to debilitate the system, appear to act as exciting causes. Recent residents are more liable to be affected than old inhabitants, persons coming from the country to the city are very liable to be affected, even old residents who leave the city during



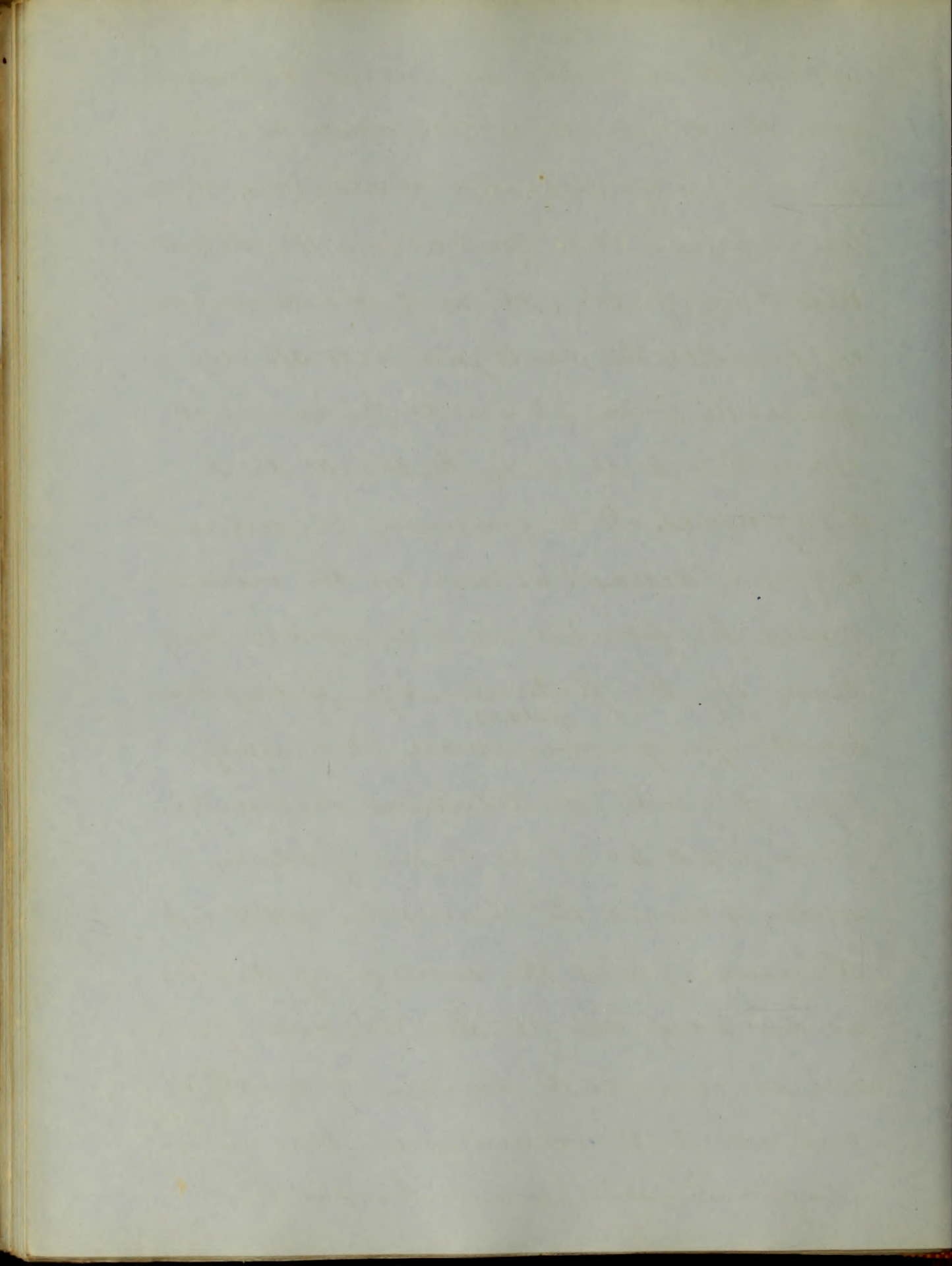
The summer months appear more liable to contract the disease than others who have resided in one place during the summer.

We have had the effect upon recent residents most sadly exemplified in our class, during the last two sessions; last year a large proportion of the class were affected with the disease, in proportion to the other part of the population of the city; out of the number three of our most promising associates were numbered with the dead. This winter I think the proportion of sick has been still greater, the mortality however has been less, as but one of our number has been stricken with the hand of death, his loss will long be deplored by those <sup>with</sup> whom he associated, as his kind and affable disposition could not fail to win him many warm and true friends. Neither sex nor season



appear to exert any important influence over the disease; it is often epidemic. It is generally supposed contagious, though it requires close contact, as the contagion acts very feebly; it may be communicated by fomites, the contagion acts slowly, generally from 3 to 4 weeks producing its effect, though it may be 50 or 60 days.

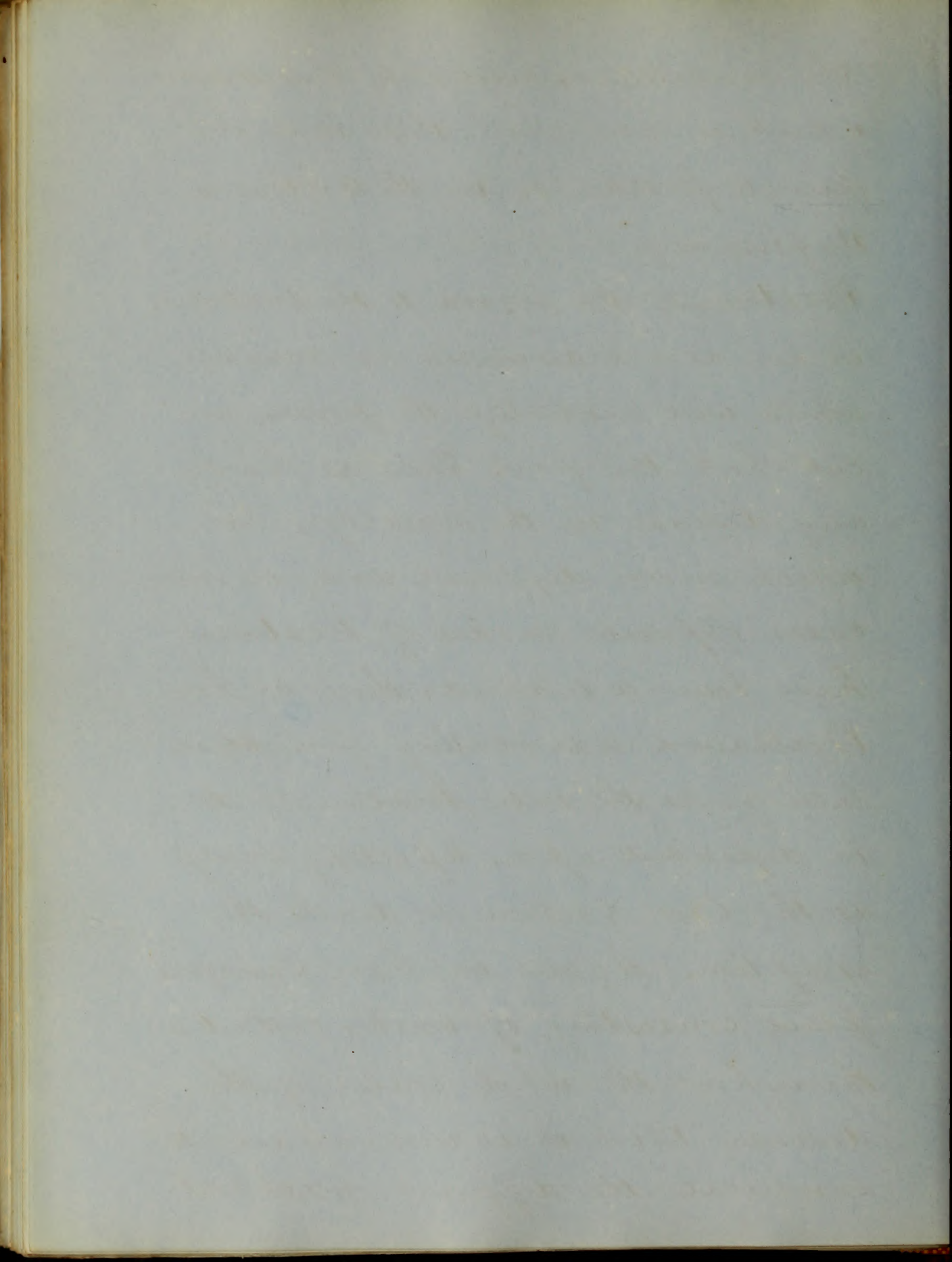
**Prognosis.** It is generally considered a grave disease, as even in the mildest cases, perforation or hæmorrhage may carry off the patient. Age is important in the prognosis, <sup>patients</sup> under 20 years of age, of good constitutions seldom die. From 20 to 40 it is more fatal, over 40 or 45, the chances are still less. Chomel gives the average of deaths as one half over 35. Dr. Jackson gives one in four as the average of deaths in patients over 35 occurring in the Massachusetts General Hospital.





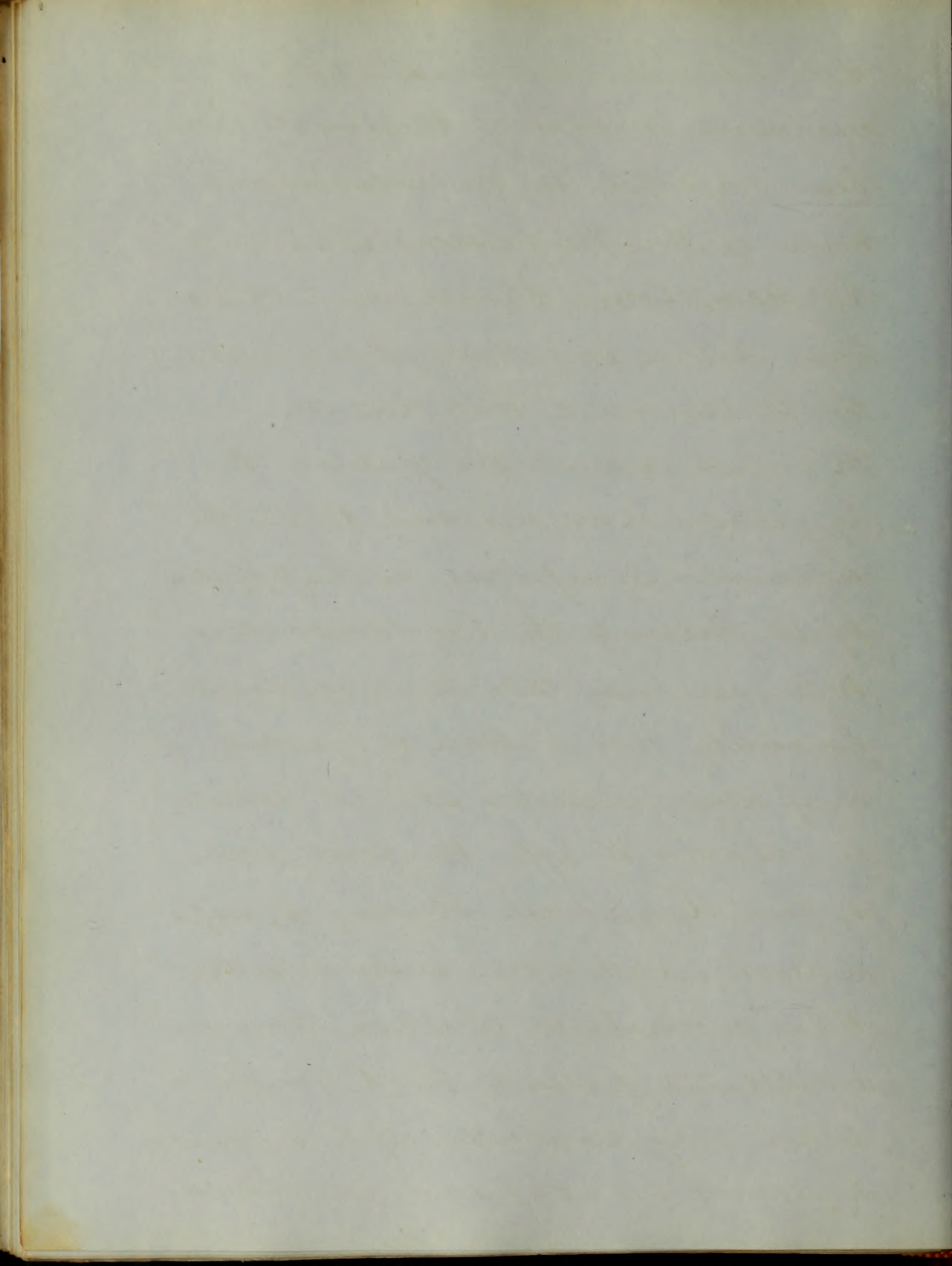
The mortality exhibited by these statistics I think is more grave, than it is, in private practice or in the Baltimore Infirmary.

Treatment. In regard to the treatment, we have as yet discovered no remedy which will neutralize the poison nor cut short the fever. There is hardly any disease in the nosology, for which more different and in some cases, opposite modes of treatment have been advanced; thus we have Boillaud advocating for blood letting, as the only treatment to be depended upon, asserting success as the law; failure or death the exception. Again we have Larocque's plan consisting of emetics cathartics throughout the whole course of the disease. But it is unnecessary to enumerate the different methods

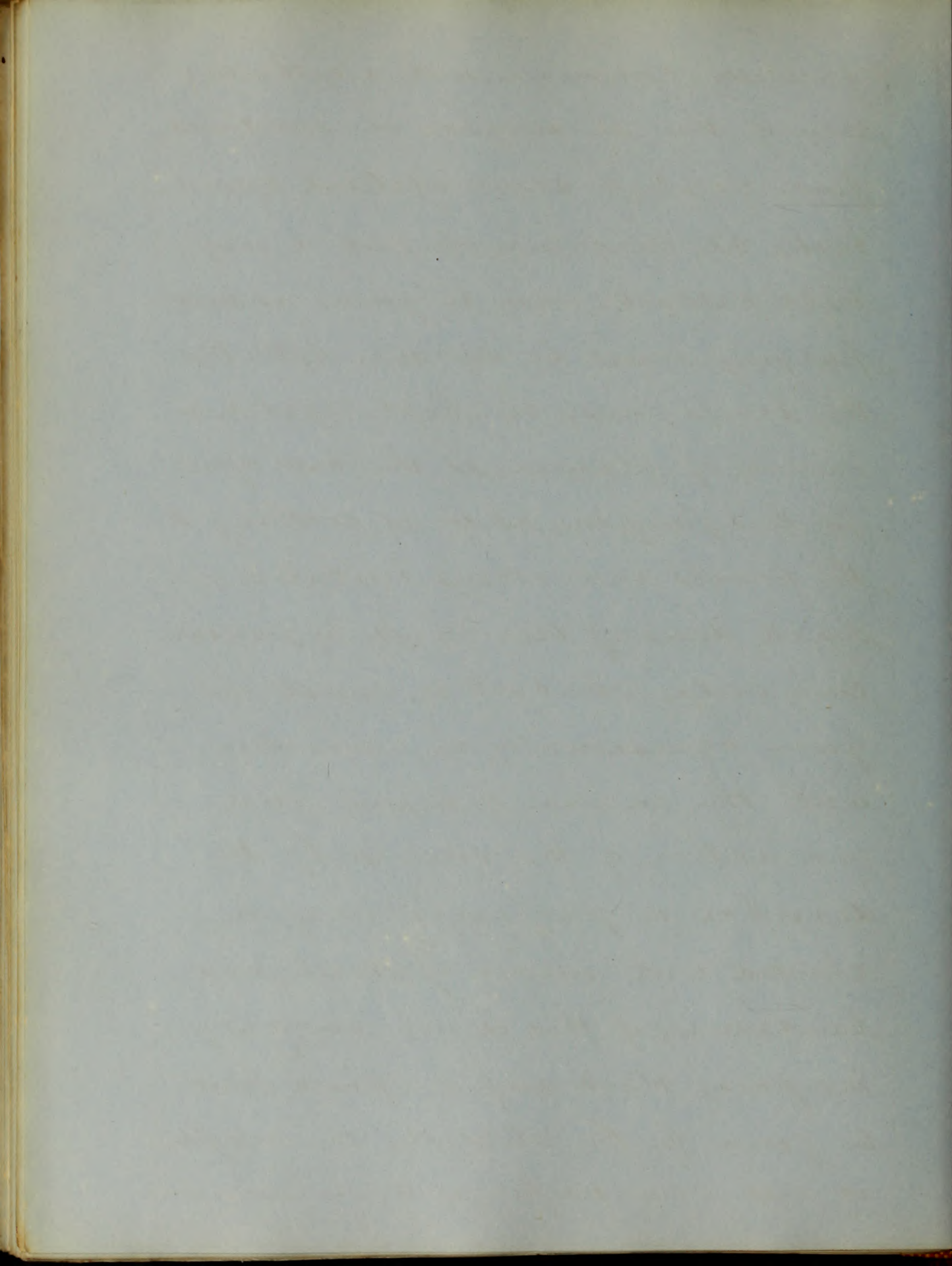


that have been advanced, as all exclusive modes of treatment have been rejected by the unanimous voice of the profession. Drs. Smith, Jackson, Louis, Chomel and others have thrown important light upon the treatment of this disease.

We must submit the patient to hygienic remedies, and treat the different symptoms as they appear. If it presents the inflammatory type, we may take blood in small quantity once or twice if found necessary; venesection should seldom be resorted to, after the first four or five days; local bleeding by cups or leeches will often answer better than general; in children and in debilitated patients blood must be taken very carefully. If the inflammatory symptoms are not present, we should



generally commence with a cathartic, even if there be diarrhoea, we sometimes find faeculent accumulations. Calomel, castor oil, magnesia, rhubarb or any mild cathartic may be given, as drastic purging must be avoided. After this the bowels must be kept regular, an enema of flaxseed is the best agent for this purpose, as it is soothing to the bowels and allays irritation: small doses of blue mass, hydragrum cum creta, rhubarb &c, must be given occasionally in connection with the enema to insure full evacuation of the bowels. If the diarrhoea is profuse, it may be checked with enema of starch and laudanum, if this is not sufficient morphia, black drop or opium must be given by the stomach; the morphia is also very useful if there is insomnia



The diet must be of the simplest kind; the drink of the patient should usually be cold and such as he prefers; iced soda water or lemonade will generally be grateful. Refrigerant diaphoretics and diuretics must be given; chlorate of potash and carbonate of soda, or any of the nonpurgative neutral salts will answer; if there is much nausea it may be checked by prussic acid. Cold water is a very valuable agent in this disease; whilst the skin is hot and dry, it should be sponged freely; if the headache is severe, ice or cold water may be applied in bladders, or cold water poured on the head from a pitcher often has a very good effect. As soon as the pulse becomes reduced, or symptoms of prostration come on we must commence the use of stimulants; the quantity and

The first part of the book is devoted to a general  
history of the British Empire, from its  
beginnings to the present time. It is written  
in a clear and concise style, and is  
well adapted for the use of schools and  
colleges. The author has done his best  
to give a full and accurate account of  
the various parts of the Empire, and  
to show the progress of its growth and  
extension. The book is a valuable  
work, and is well worth a perusal by  
every student of history.



character of these must vary, according to the degree of prostration and the character of the patient; usually wine whey, broth, beef tea, port wine will answer. If the patient has been intemperate or the prostration is very great, stronger tonics and stimulants will be necessary; as brandy, carbonate of ammonia, quinine, bark, turpentine. For the meteorism, warm fomentations should be applied over the abdomen, the bowels kept open by rhubarb, an enema of emulsion of assafoetida often produces decided benefit, turpentine is also very useful for the meteorism. If there is intestinal hemorrhage it should be checked as soon as possible, as it is a dangerous symptom; turpentine acetate of lead, elixir vitriol, tincture rhodany or any of the vegetable or

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mineral astringents may be used; mustard foot baths and flying blisters to the calves of the legs, as revulsives are also useful. If symptoms of perforation appear remove all covering from the patient, allow no food or drink to be taken and give large doses of opium, so as to keep him on the verge of narcotism for several days; this appears to be the only chance of escape, as it is the remedy recommended by all who have had any experience in the disease.

If the bronchitis is severe expectorants in small doses must be given.

If pneumonia supervenes we cannot deplete, as in the uncomplicated variety, therefore we must depend more upon revulsion and stimulation; flying blisters are very good externally, as we dare not use strong revulsives, internally, Carb. of Ammonia, Serpentina &c must be given.

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The position of the patient must be changed frequently, to prevent congestion and the formation of eschars: the parts upon which he lies should be washed with a solution of nitrate of silver, or spirit and water, or they may be covered with a plaster; air cushions are very useful in preventing eschars: if they occur great attention is requisite, as they sometimes carry off patients, who otherwise might recover, Yeast fomentics or other slightly stimulant and anti-septic applications must be made to the part. If we have headache, pain, diarrhoea or any symptom occurring periodically quinine will generally relieve it. Dr. Wood mentions a condition of the tongue in the latter stages in which the fur is thrown off in flakes, leaving the surface smooth and glossy

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as if deprived of its papilla; he recommends turpentine as the most effectual remedy in these cases, I have seen one case of this in my preceptor's practice, in which the turpentine was used with very good effect.

The above I think is the most common mode of treatment in this country. All the remedies that I have mentioned will seldom be necessary in one case, nor will they be used in the order that I have named them, but each case must be treated according as the symptoms present, and as the condition of the patient will justify. Many practitioners and some of the highest celebrity recommend a slight mercurial impregnation as one of the best modes in the early stage of the disease; but as I have never saw the system affected by mercury in this disease, I cannot of

The first part of the paper  
is devoted to a general  
description of the  
country and its  
resources. The  
second part  
contains a  
detailed account  
of the  
mineral  
wealth of the  
country. The  
third part  
describes the  
agriculture  
and the  
commerce  
of the  
country. The  
fourth part  
contains a  
list of the  
principal  
towns and  
villages of the  
country. The  
fifth part  
contains a  
list of the  
principal  
rivers and  
lakes of the  
country. The  
sixth part  
contains a  
list of the  
principal  
mountains  
and hills of  
the country.

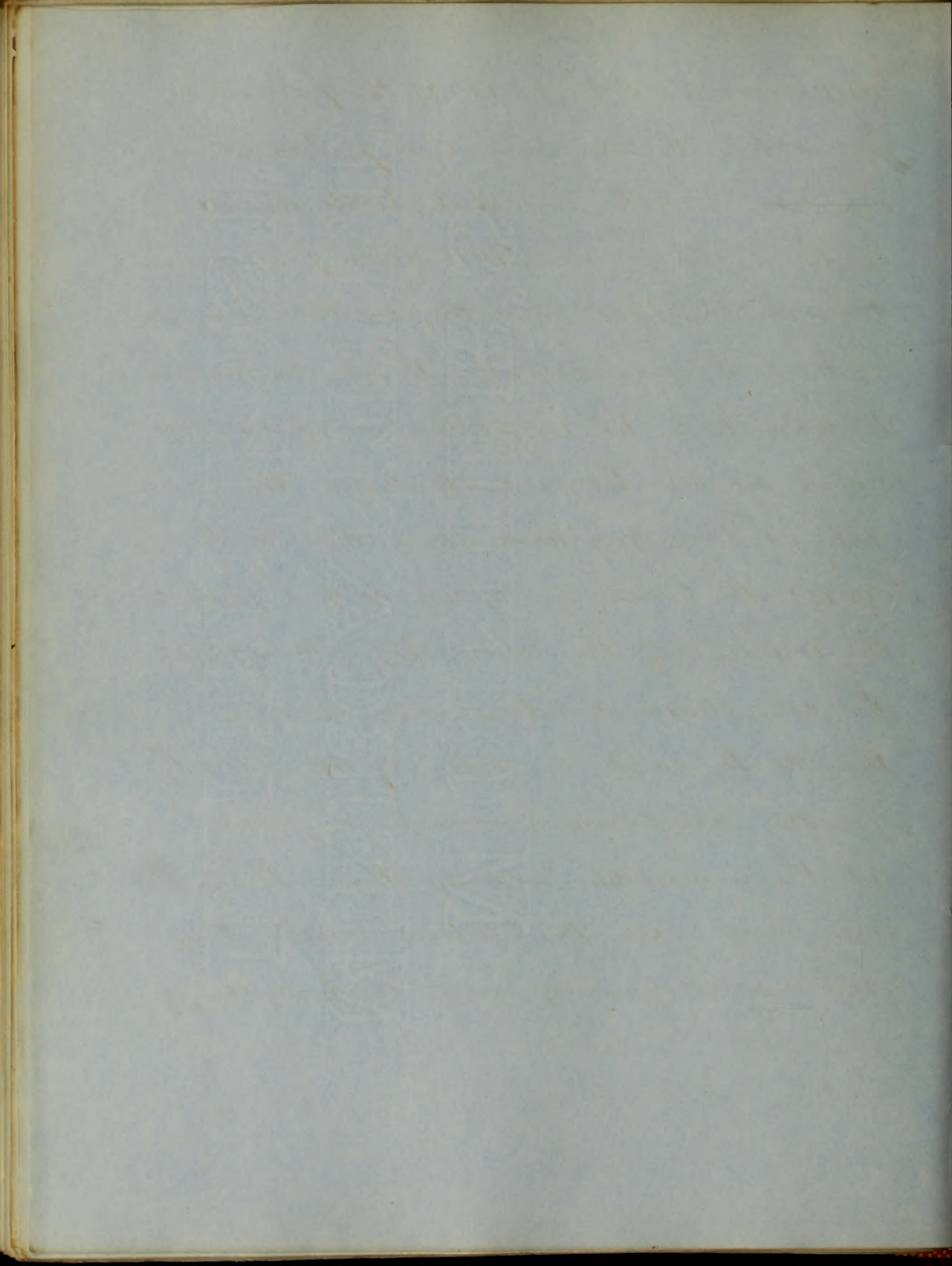


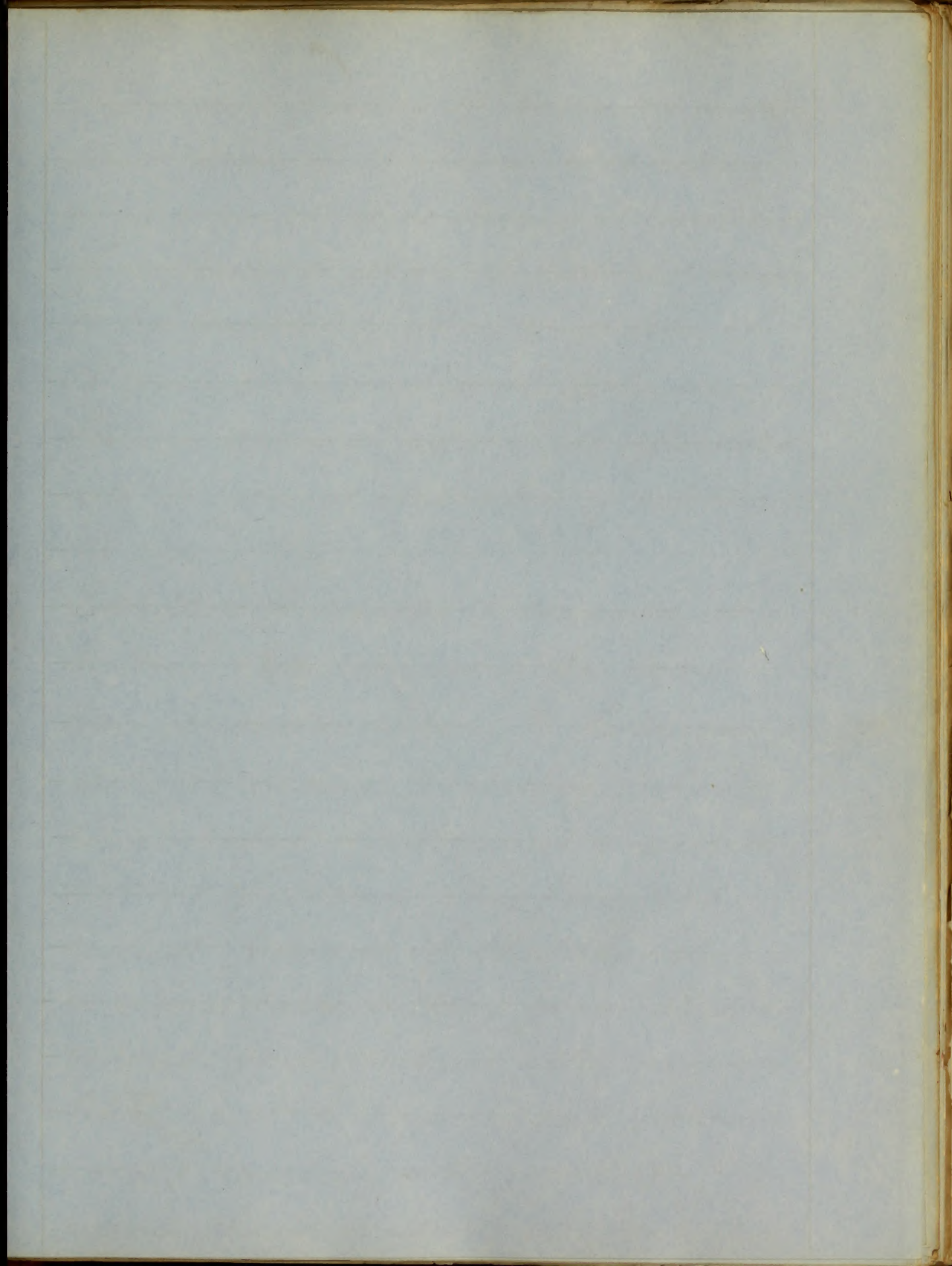
course give any opinion as to its beneficial or injurious effect. Many local remedies have also been recommended as having specific virtues, but as yet there is no one which has gained the confidence of the profession. During convalescence great care must be taken in regard to diet, exercise, exposure, in order to prevent a relapse. Cleanliness and thorough ventilation, are very important throughout the whole course of the disease.

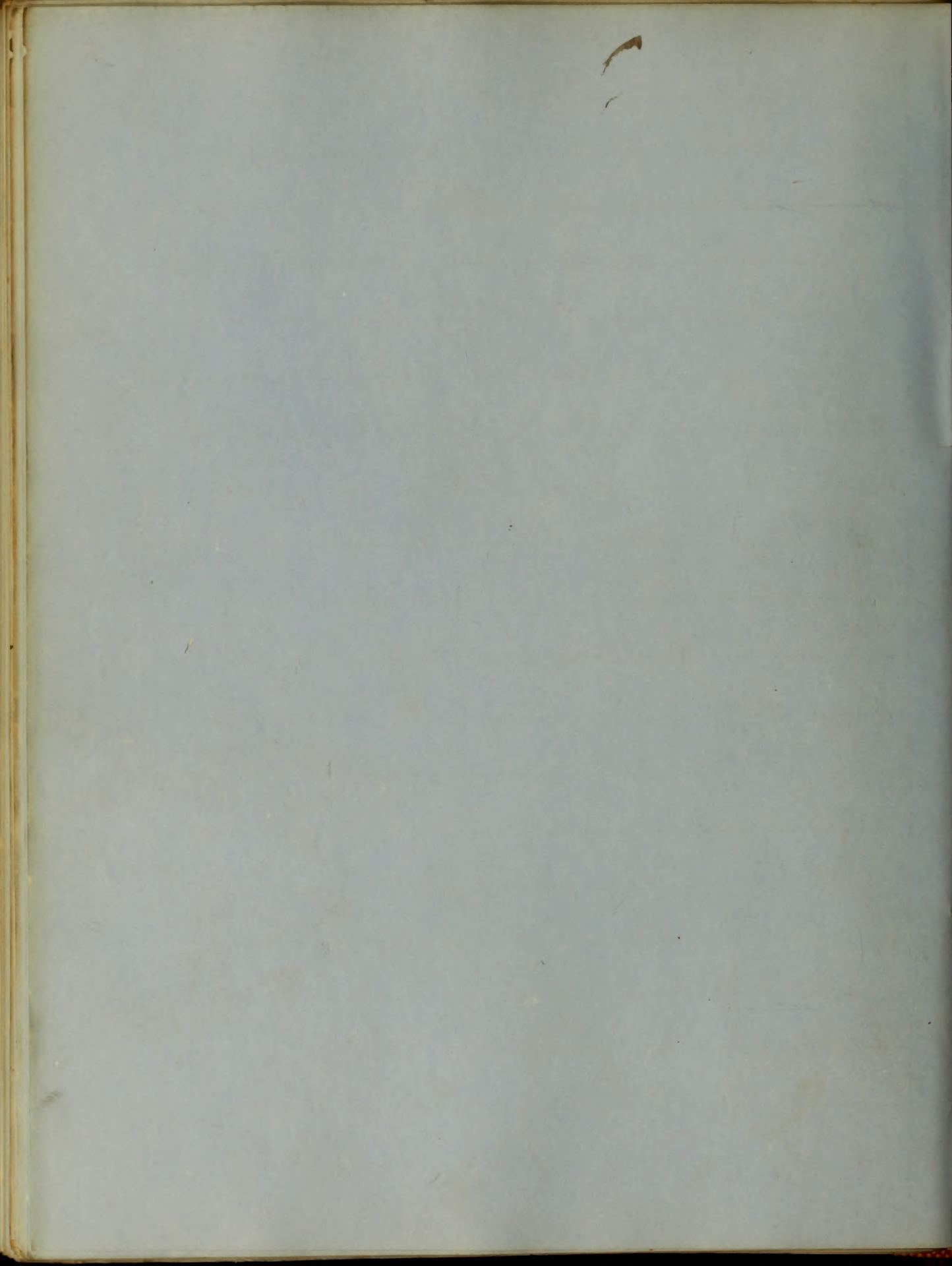
I have now concluded a brief and very imperfect history of typhoid fever, and submit it with the utmost diffidence to the examination of those, who by their long experience and unlimited qualifications will be enabled to detect many errors, which, in consequence of my inexperience I have overlooked; therefore I ask that in their criticism they

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will remember that it is the production,  
or rather I may say compilation of  
one who, as yet has but little knowledge  
of the science, and that little principally  
theoretical. But shall they in their judgments  
(at the coming examination) think me qualified  
to undertake the important responsibility,  
which at all times rests upon the  
physician, my aim shall ever be to  
assist the cause of science and to forward  
the interests of the University of Maryland.  
In conclusion I return my sincere  
thanks to each member of the faculty  
for the uniform kindness received  
at their hands, hoping that they  
may long fill the station which they  
now so honorably and usefully occupy.

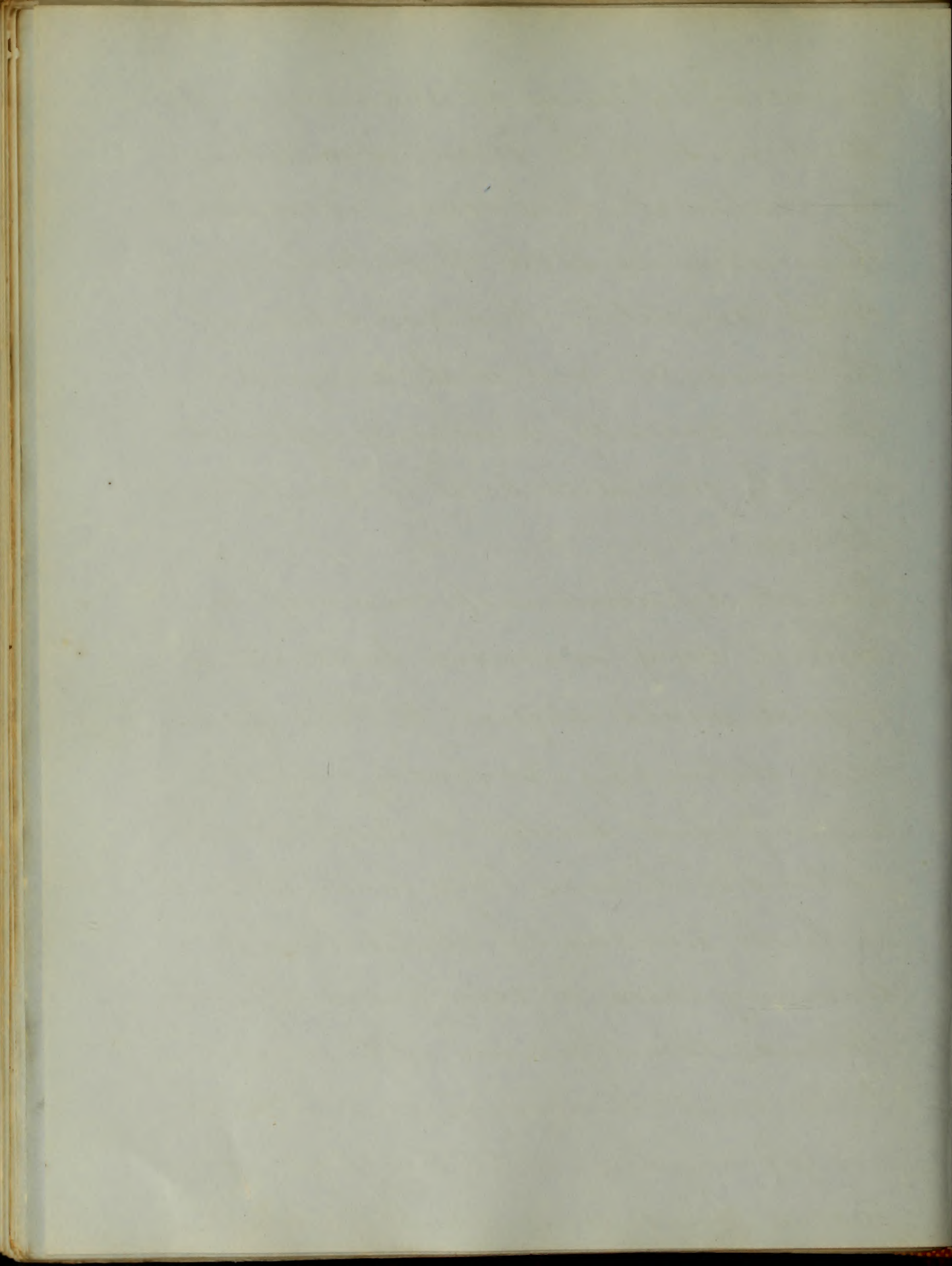






Entire deficiency of memory in the strict sense of the term is exceedingly rare; when it does occur, it constitutes, of necessity, a state of fatuity, more or less complete. This condition of the mind is met with only in certain cases of idiocy, or associated with the general imbecility of extreme old age.

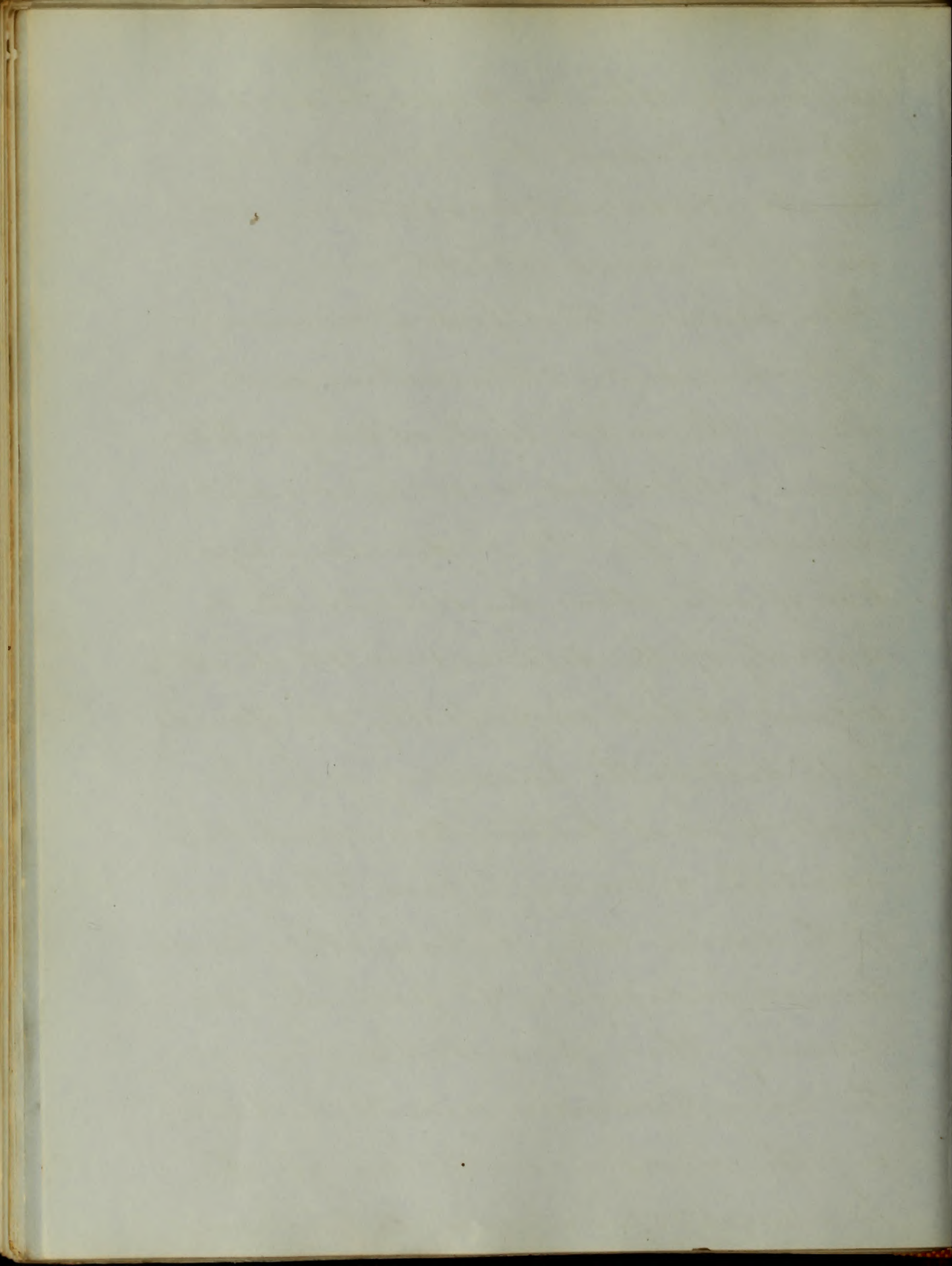
Partial deprivations of memory, is however very common; In some cases it would appear to be congenital, depending, probably upon an imperfect development of certain portions of the brain. Thus, from the earliest periods of childhood in many cases, a very great difficulty, and, sometimes an utter incapability, exist to acquire, and retain words & numbers; or to recollect persons, things, and events; and this





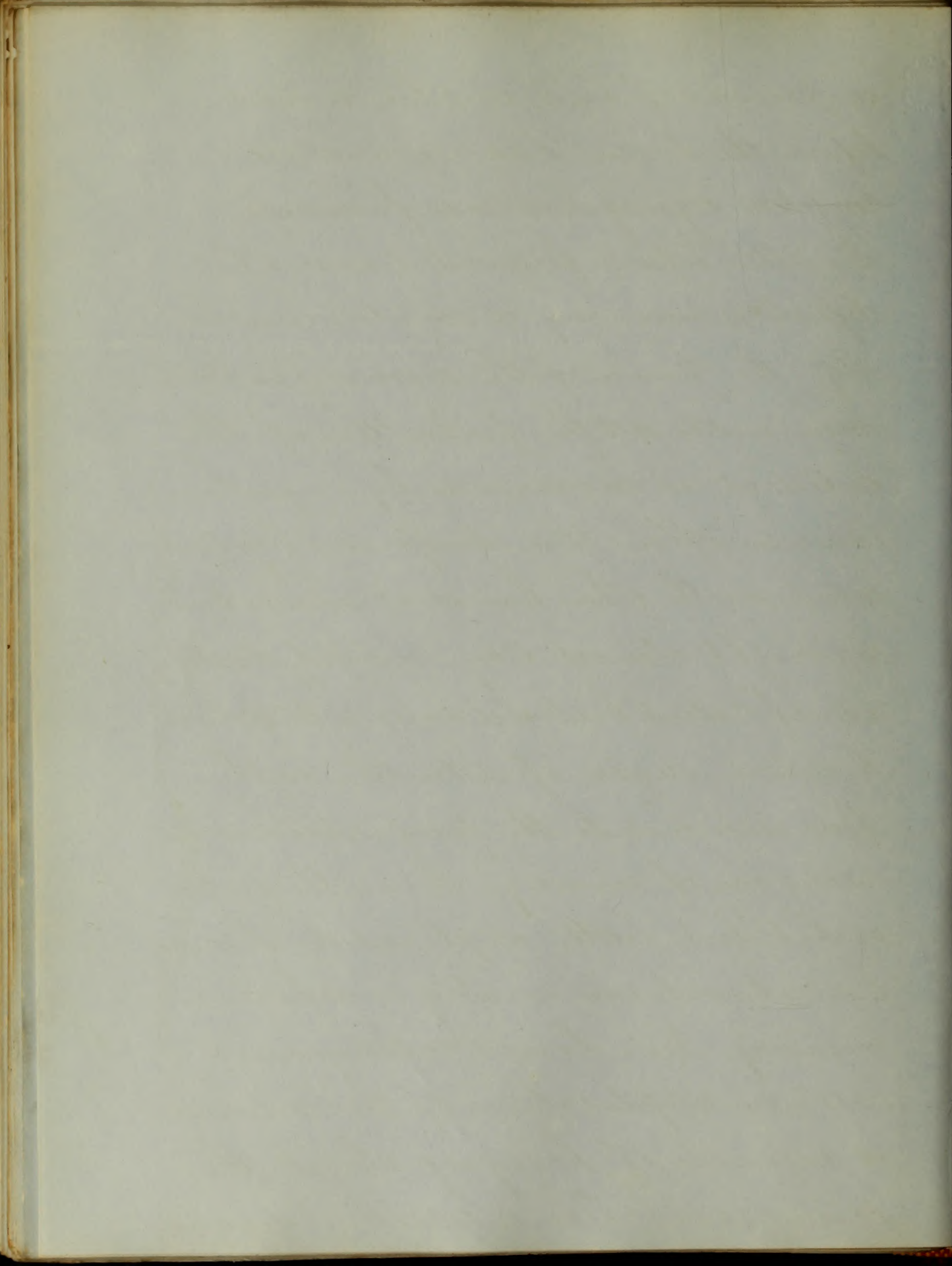
deficiency, often continues, throughout life, and cannot be overcome by the strictest applications, and most strenuous efforts,

Often however the defect of memory is produced, by circumstances, to which the individual is subjected, during childhood, or even at a later period of life. An injudicious system of education, by which, the activity of the different intellectual organs, is but imperfectly developed will destroy the harmony which ought to exist between them, and thus affect the memory. Again the organs of the mind may be exhausted, and become incapable of properly performing their functions, from the very common error of overtasking the memory, with too great a variety of subjects at too early



a period of life, in other words before the brain has acquired its complete organization and firmness.

In after life a frequent cause of defective memory is mental inactivity. The power of the memory in common with all the faculties of the intellect, is increased, by regular exercise, often to a surprising extent, while on the other hand, it is weakened, we might almost say, entirely destroyed, if called but seldom into action. A certain degree of attention is therefore essential to the perfection and accuracy of memory; hence they who exhibit but little application of mind have almost invariably a defective memory. Two long continued or intense applications of the mind is capable of bringing about the same result. The intellectual organs

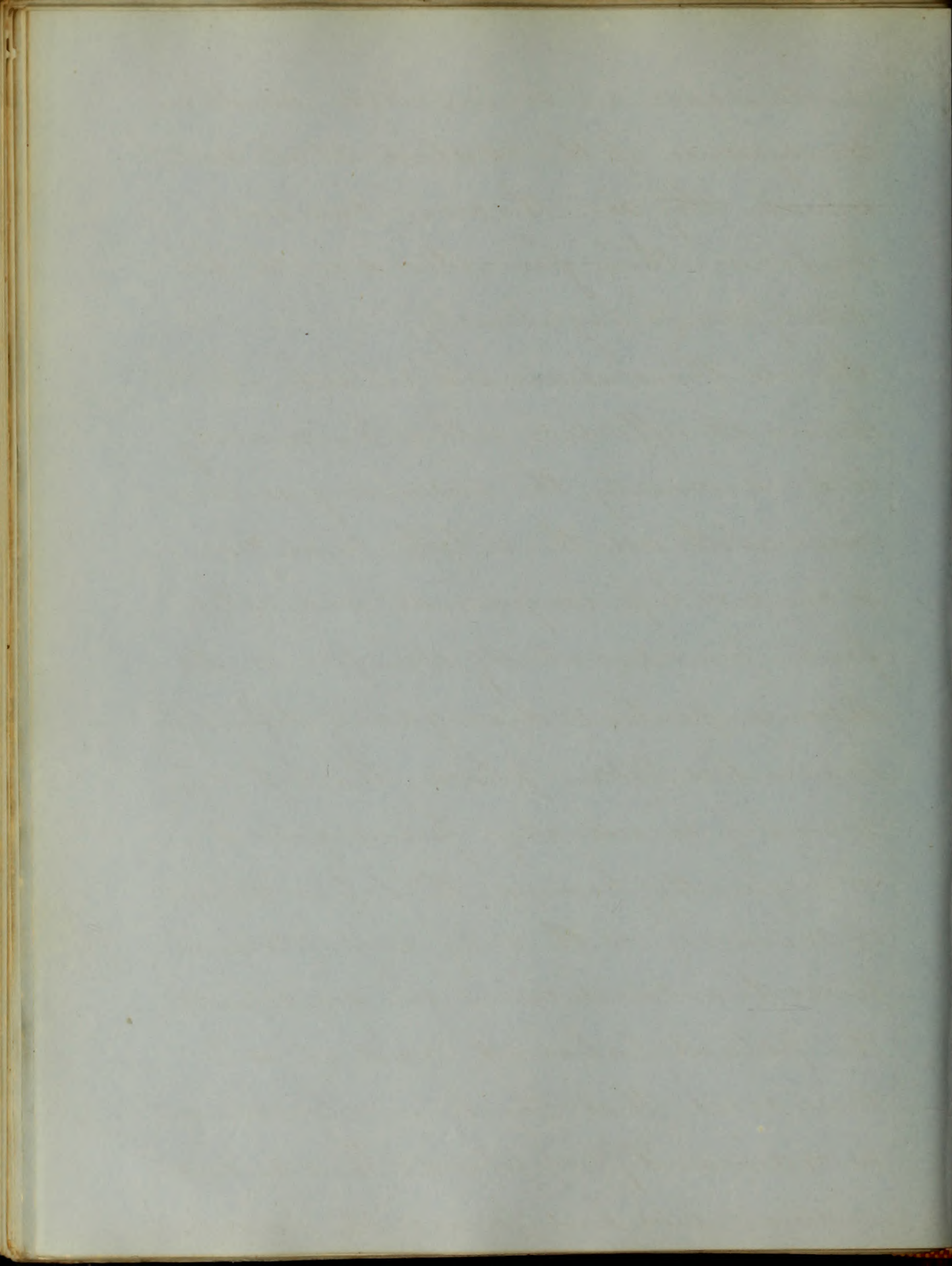


in this case are overexcited, and in consequence of the morbid state into which they are thrown, cannot perform their functions with facility and regularity.

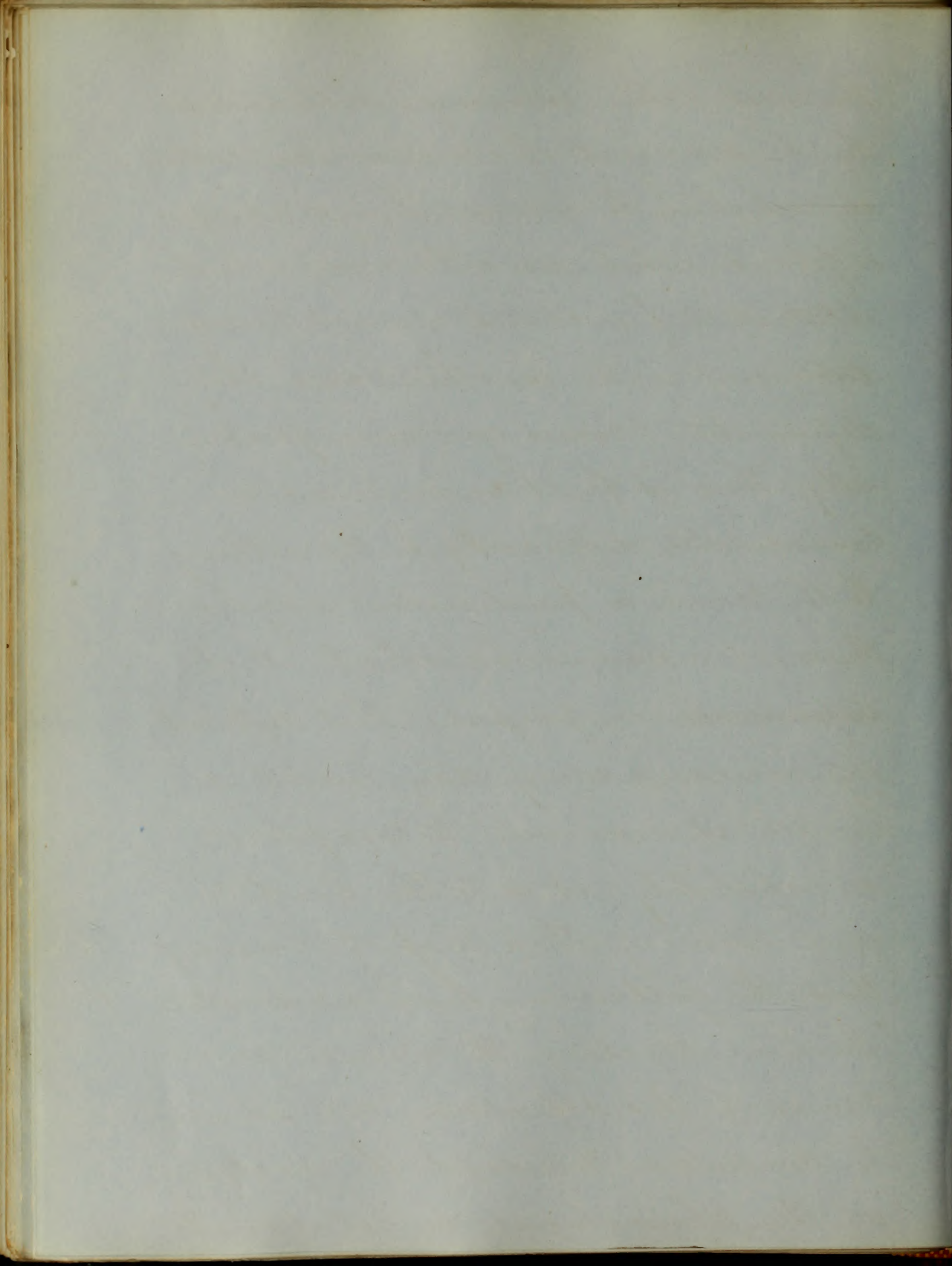
In all those diseases, in which the brain is affected, either primarily or secondarily, the memory, in common with all the intellectual powers is more or less impaired, and often for a period, entirely suspended.

When a partial disorganization of brain has taken place, the loss of memory is usually permanent.

Frequently, however the loss or defect of memory, is the only, symptom ~~or~~ or morbid condition, under which the patient labours, and it is to these cases, that the term Amnesia is ordinarily applied. Thus an individual who had previously possessed



The most active memory, will suddenly, be deprived of its exercise, either in relation to words, things, numbers, or places, while in other respects his intellectual functions, are not perceptibly impaired, in other cases the deprivation comes on more gradually, there is first experienced a considerable difficulty in recalling to the mind a particular idea, or the word or sound by which it is ~~expressed~~ expressed, this difficulty increases every day, until at length it amounts to complete incapability, it is to the brief consideration of this class of cases that the following lines are devoted, In investigating the nature and causes of this affection, we shall be compelled to adopt the doctrines of the Phrenologist, in relation to





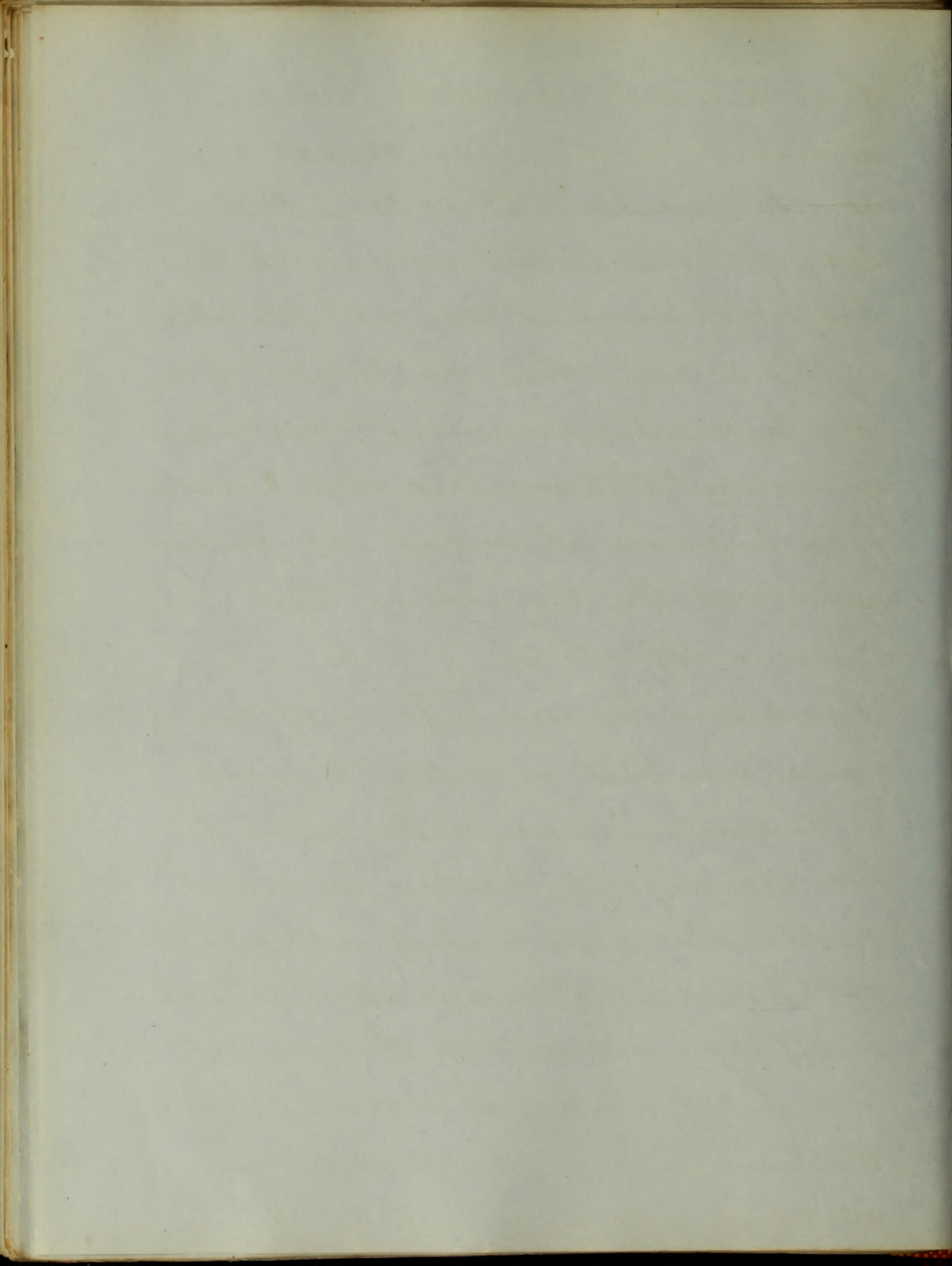
memory; viz, that it is not a distinct faculty of the mind, but one of the general attributes of the different elements of which the intellect is composed; In other words that memory, by the power of the will excites the knowing and reflecting faculties of the mind to actions, in consequence of which the idea those faculties had previously formed or acquired are recalled,

It is by this explanation alone that we can account for the difference in the powers of memory possessed by different individuals; for the fact, that in one person the memory shall be peculiarly active in relation to words or numbers but strikingly deficient in reference to persons or places, vice versa or those cases in which the recollection

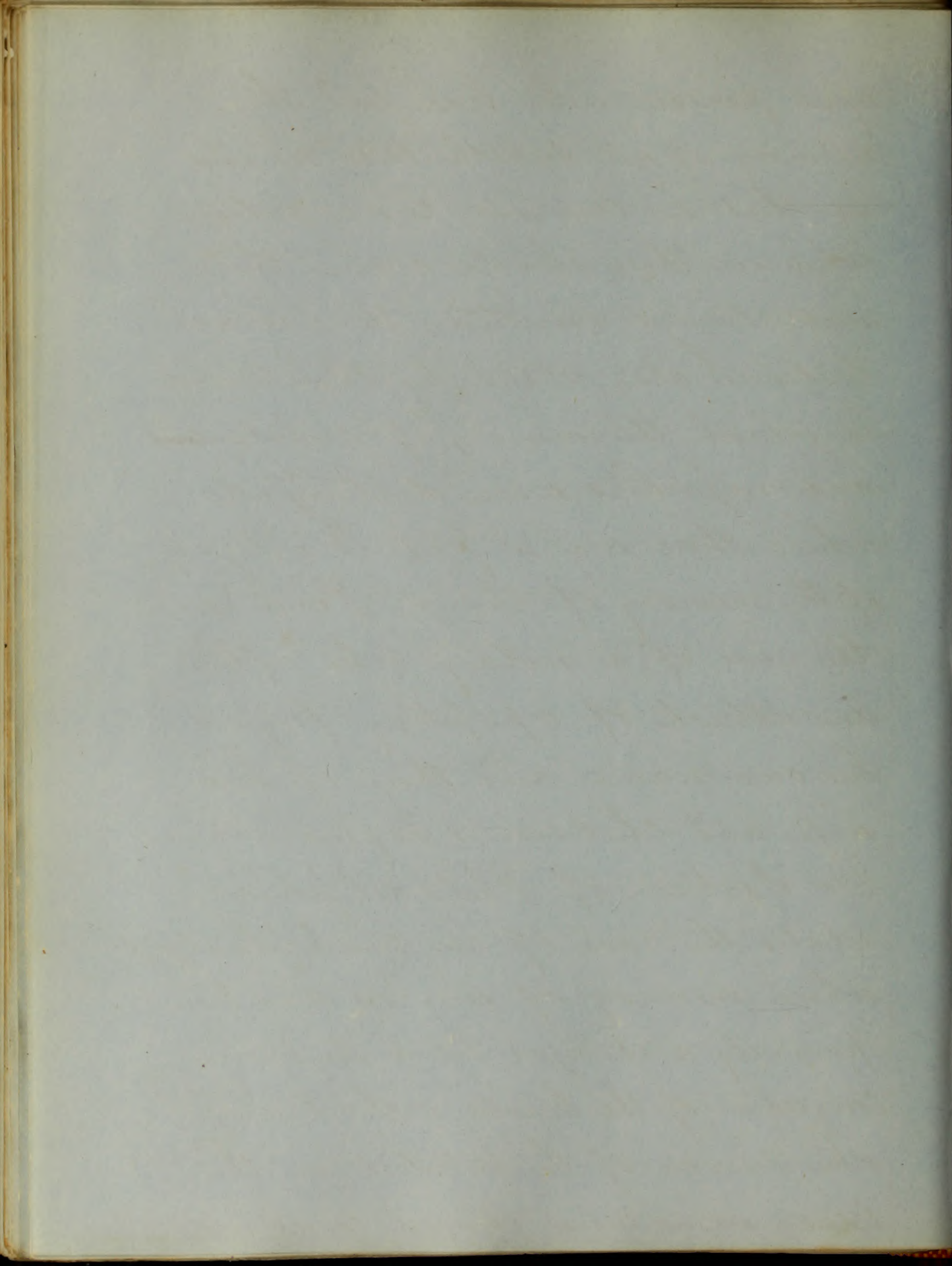


of events or dates is entirely lost, while  
in regards to all other ideas, it is  
as active as ever, It is true that  
some of the facts connected with the  
subject of amnesia are inexplicable  
by this or any other doctrine; it is  
only by a more numerous collection  
of accurate observations that we can  
hope to arrive at a correct pathol-  
ogy of all the varieties of this  
curious affection

Varieties;— The most <sup>common</sup> form of am-  
nesia is a total inability to recall  
a particular word or the name of  
a certain object, there are numerous  
instances recorded by different authors  
of this curious phenomena; Persons  
so affected lose entirely the recollect-  
ions of certain words or names, while  
they can recall with perfect ease  
all others; M. Curvier relates the case

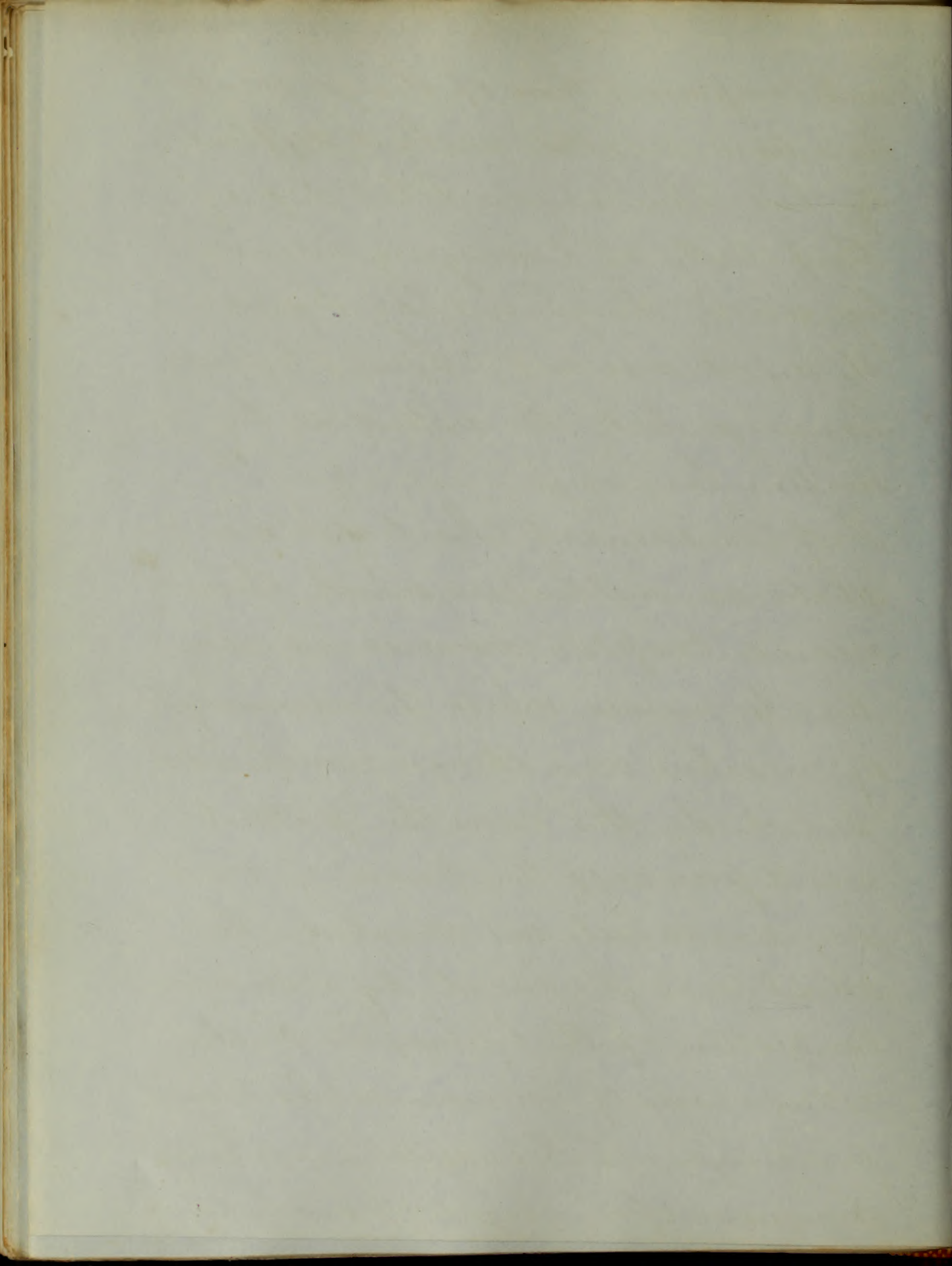


of a person, who had lost the memory of all substantive nouns. So that in common conversation whenever these should occur they were always omitted, there is an instance also related by Puilland in which the memory of substantives and adjectives were destroyed while there was a perfect integrity of the memory of things; Pinel records the case of a notary who after an attack of apoplexy forgot his own name and those of his wife and children & acquaintances Dr. Jackson of Philadelphia relates the case of an individual whose memory of words was temporarily destroyed by a sudden congestion of the brain, without any other disorder of the intellect in this case, ideas were formed combined



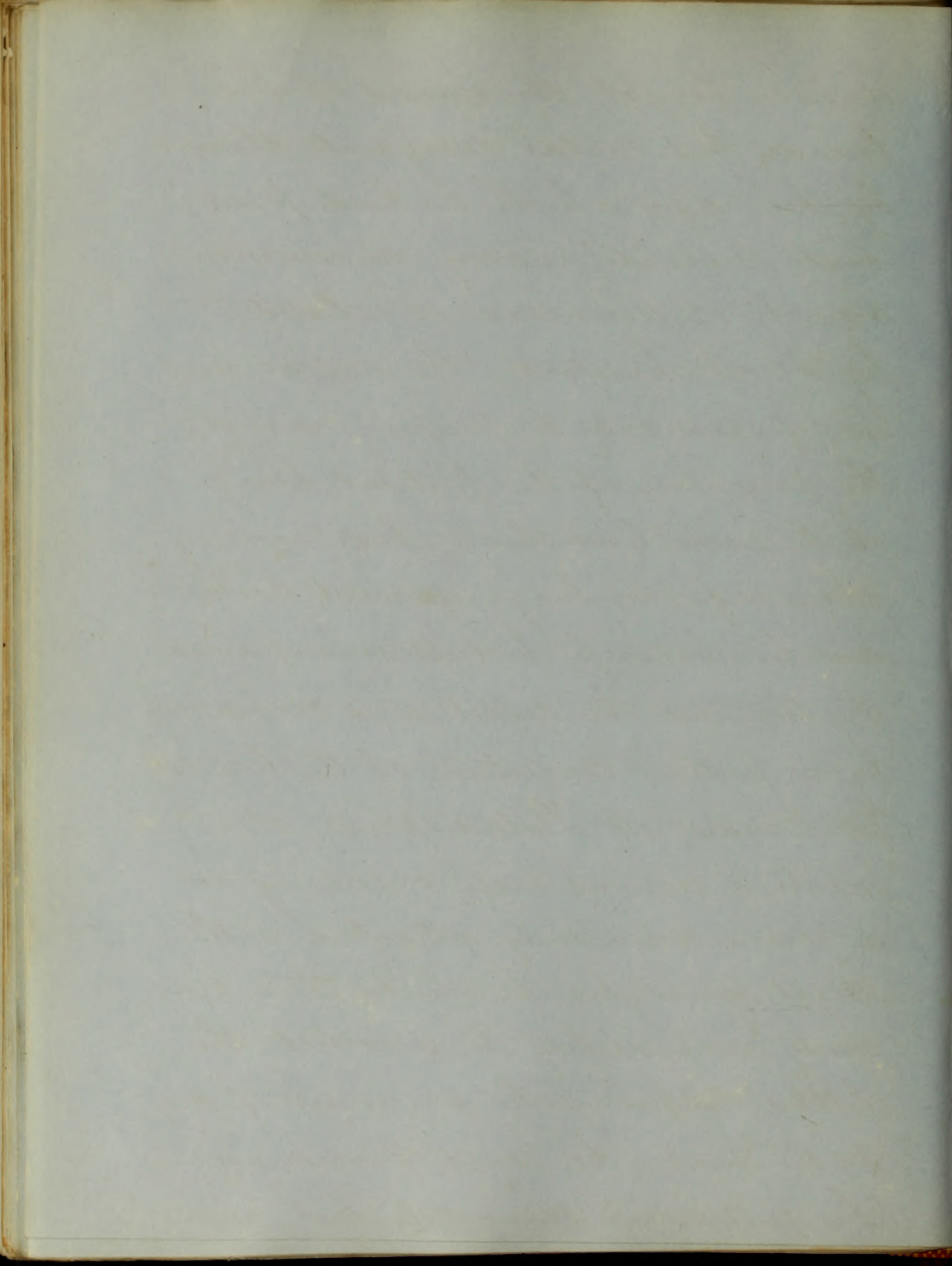
and compared; those of things, events  
and time recalled without difficul-  
ty, but. There was a total loss of  
the faculty of conveying ideas  
by words, though not by signs,  
the defect was not confined to spoken  
language, but. also extended to  
written language

Prof. Dickson of Charleston &c  
relates an instance, in which there  
occurred complete amnesia in rela-  
tion to names, while the memory  
of numbers and things remained  
perfect, In this case the patient  
was deprived of the power of read-  
ing words but. not. numbers, the  
attack was produced by a sudden  
congestion of the brain, Dr Rush  
notices a case of amnesia which occurred  
to a citizen of Philadelphia, who in  
consequence of a slight paralytic



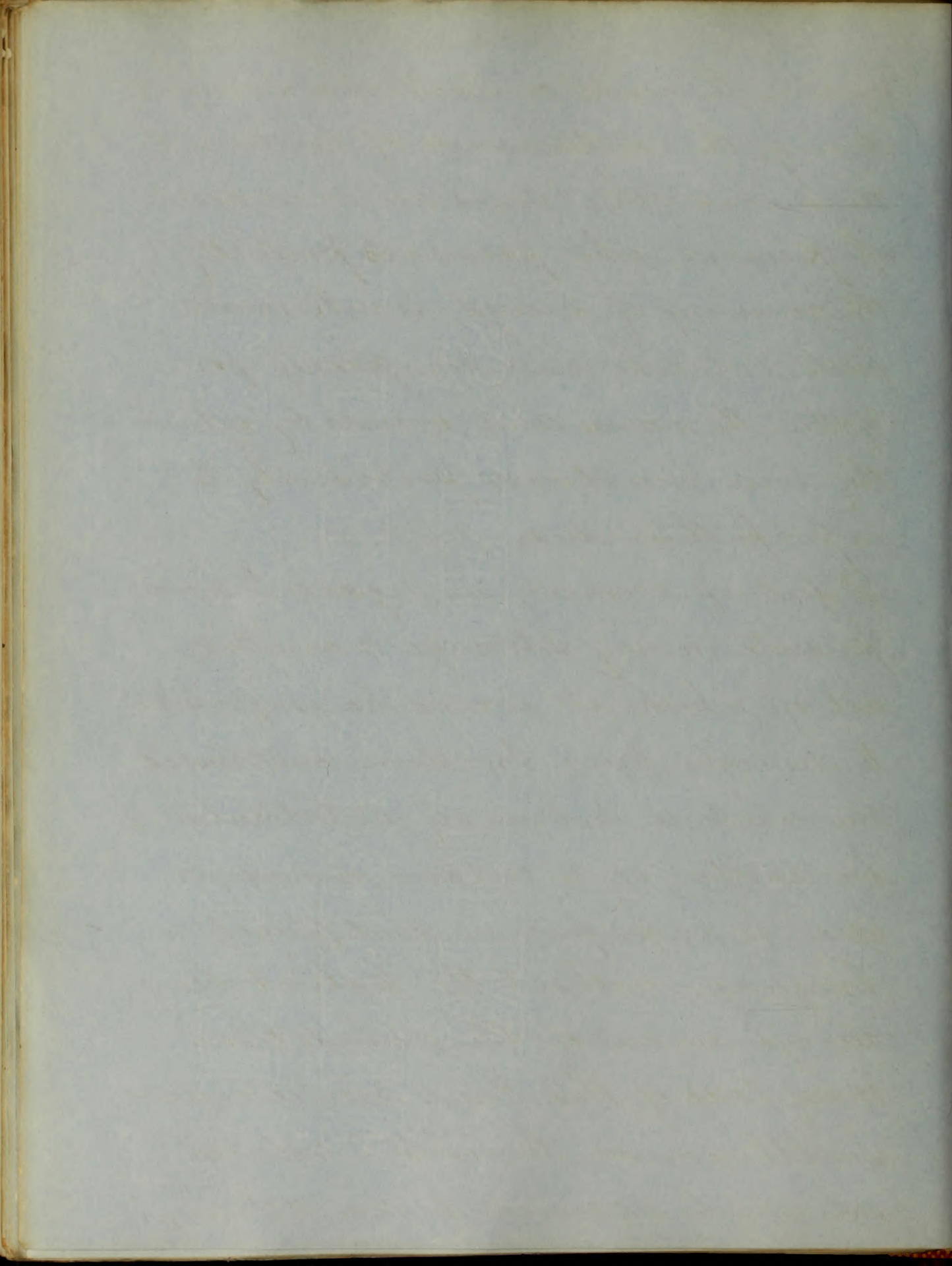


disease forgot the names of his friends, but could designate them by their age which he had previously learned; a very uncommon variety of amnesia is related by Dr. Hahnstocks, the defect was in reference only to proper names; the perception of the patient, being at the same time clear, his memory otherwise good, his judgement sound, and his business habits unimpaired. In this case the defect was occasioned by a partial congestion of the brain. Dr. Bondie, of Philadelphia, also relates a curious case, occurring in a person suddenly attacked with slight paralysis, in which there was merely an inability to recollect the letters, composing the surname of an individual, he could pronounce his full name accurately but was



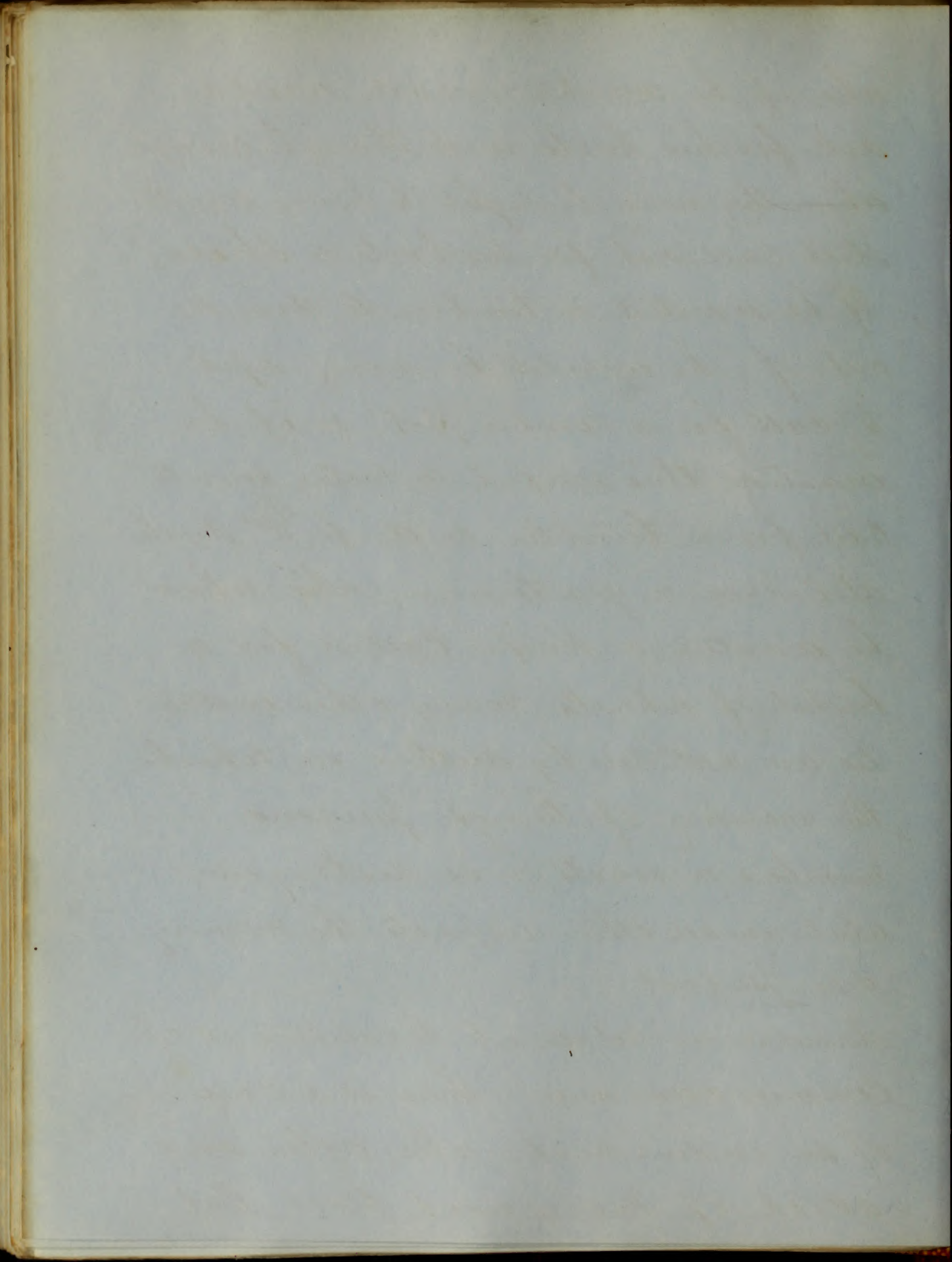
unable to write or spell his surname during the continuance of his disease, numerous other cases are recorded of persons, who preserved perfectly the memory of beings, events and facts, but who had completely forgotten the names and words by which they were accustomed previously to express themselves.

Defect of memory in regard to words presents many strange varieties, all of which it would be impossible to describe here, In some instances one word is erroneously substituted for another, or, a certain name or idea, is expressed in a different language, without the patient being always aware of the substitution. Many cases of this kind are recorded Sir Alexander Crichton relates one which occurred to an attorney;



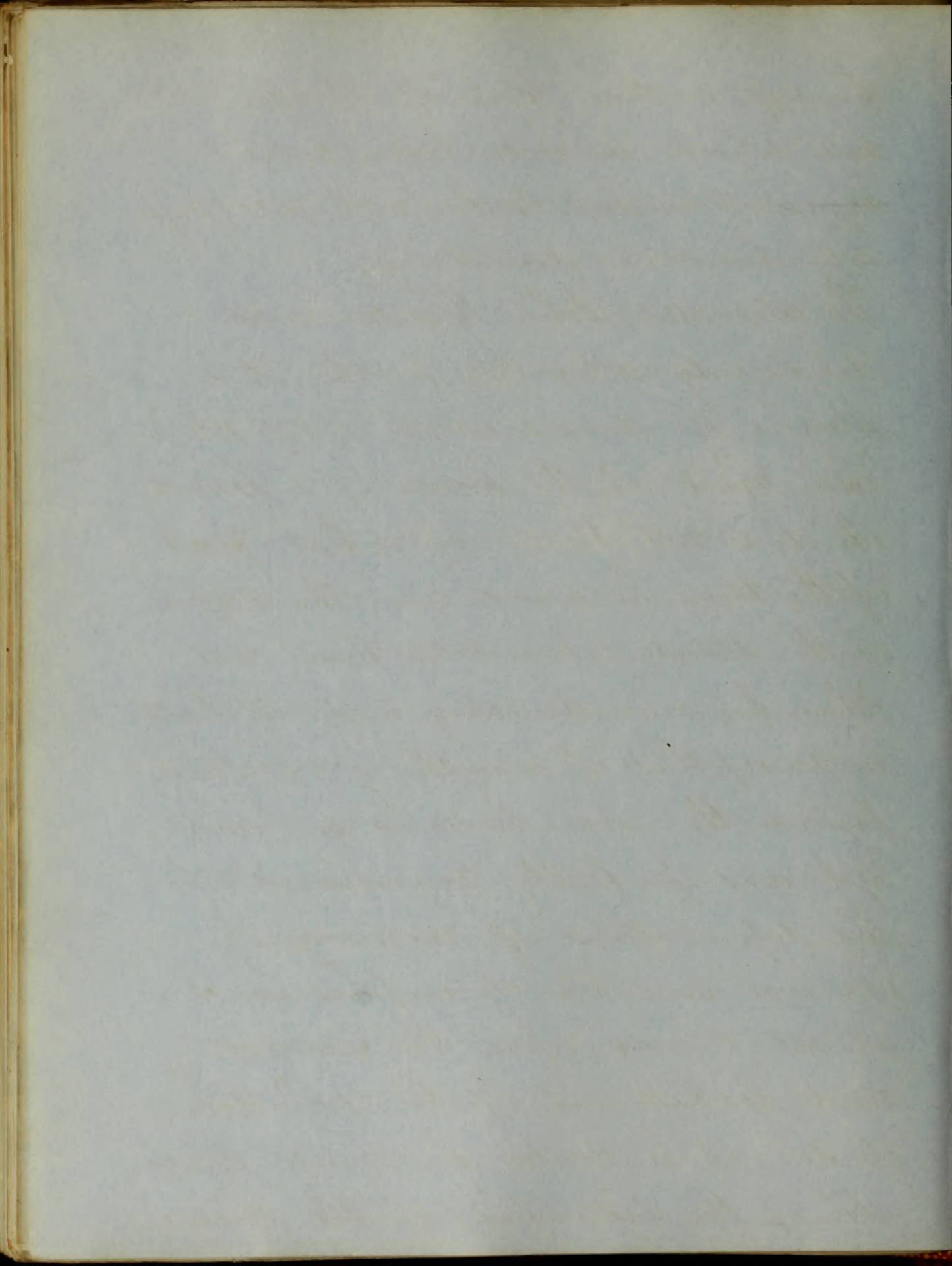
who, if he wanted, bread, would ask for his boots, and though enraged when they were brought to him, would still call out for his boots or shoes, If he wanted a tumbler to drink out of, he would be very apt to call for a Chamber Pot; or if he wanted this useful article, would call for a tumbler or dish, Dr. Rush also knew a gentleman, who when he wanted a Knife, called for a bushel of wheat, many other instances are noticed by authors in which the memory of things persons numbers or events, was destroyed, while in all other respects the memory was perfect.

Amnesia in relation to localities is of common occurrence, there is a case of an individual, who, after an attack of Malignant fever, lost.



himself in those parts of London with which he was before well acquainted, and could not recognize even his own dwelling,

The celebrated, John Hunter was suddenly attacked with this species of Amnesia in 1789. While on a visit at the house of a friend, he did not know in what part of the town he was or even the name of the street; when told him, nor where his own dwelling was; he had no conceptions of anything existing beyond the room he was in, and yet was perfectly conscious of his deprivation of memory. He was sensible of impressions of all kinds upon the senses, and looked out of the window to see, if he could be made sensible of the situation of the house





The defect of memory went off gradually, and in less than half an hour recollection was perfectly restored,

Dr Condie, knew two instances of this kind in which the individuals, at other times perfectly familiar with the streets, suddenly lost their recollection of locations, and were obliged to inquire what part of the town they were,

Persons are sometimes affected with a total inability to recall particular sounds, even those of the most common occurrence, There is a case related in which the patient could not pronounce certain words, but could write them, Dr Rush related a case in which there was a loss of the sounds of words but not of the

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letters of which they are composed,  
the person being compelled to spell  
every word he employed to convey  
his ideas, some individuals lose  
the power of reproducing certain  
musical tones, and are on that  
account compelled to give up  
singing,

In some cases there is a complete  
forgetfulness of events, time and  
place with a perfect recollection  
of persons & names, Dr Rush  
relates cases of this kind,

The most curious form of Amnesia  
is that in which the memory of all  
foreign and acquired languages  
is lost, A case occurred in one of  
the London hospitals, the patient  
had an ~~and~~ affection of the brain,  
and as he grew better spoke in a  
language which his attendants.

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did not understand, a welsh milk woman accidentally going into the ward, heard him, and conversed with him, it was then ascertained that the patient was a native of wales, but had left that country in his youth, forgotten his native dialect, and used english entirely for the last thirty years; and that he had now entirely forgotten the english and suddenly recovered the welsh; Dr. Rush mentions the case of an Italian Physician who died in the city of new York in 1789. of yellow fever; in the commencement of his disease he spoke nothing but english, subsequently he could express himself only in french, and on the day of his death, spoke only his native language.

There is sometimes an entire loss of written language, there is a case related of a, Spanish tragic actor

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who in consequence of an acute fever, not only forgot all the languages he had previously learned but even the alphabet, and was under the necessity of again learning to spell and read, Dr Rush also cites the case of a clergyman, who subsequent to an attack of malignant fever forgot everything he had learned including the alphabet; and had to commence his education anew. One day however, whilst repeating his grammar he called for a latin classic, which he had read prior to his attack, and at that moment all he had learned before revived in his memory.

An entire loss of memory as has been before remarked is extremely rare, and is always associated with idiocy; but the memory may be entirely and even permanently lost in relation to a certain series of events, without the patient-

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exhibiting the least defect of intellect, in any other respects; Thus, cases are on record in which everything that occurred to the patient, during one or more days has been entirely forgotten, It is stated that persons who recovered from the celebrated plague of Athens, lost entirely the recollection of past events, and many for a time knew neither themselves nor their friends

It is also stated by Orfila, that upwards of one hundred and fifty French Soldiers who had eaten of the berries of belladonna, became affected with alarming symptoms of cerebral disease, and after their recovery none of them had any recollection of what had occurred during their illness,

After recovery from a state of intoxication, many persons have not the slightest recollection of what had passed around them, during the period of a week

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There is a highly interesting case related of a woman, who, completely lost her memory for the period of 12 years, this condition of her mind was brought about by a severe and neglected diarrhoea, she resided in the City of Edinburgh for twelve years, the recollection of which portions of her life she had entirely lost. Her ideas were consistent with each other, but they referred to things as they stood previous to her coming to that city,

Many more examples of the various forms of Amnesia might be given; the preceding however are enough to illustrate the general principle that the memory of a certain class of ideas may be lost, either for a time or permanently, while the power of the intellect in all other respects, shall be entirely unaffected, We shall now proceed to notice the symptoms and progress of

The first thing I noticed when I  
got up in the morning was  
for the first time in years, the  
of the house was bright about  
was a great surprise, the  
with a lot of things for  
years the weather was so  
of the life, the sun was  
was beautiful and warm, but  
after a while, as the  
to be happy, the  
things were beautiful, the  
of the house was so  
the first thing I noticed  
to be happy, the  
the sun was so  
of the house was so  
a beautiful life, the  
it was so warm, the  
which was so  
was a great surprise

this partial deprivation of memory

In many cases the attack comes on suddenly in persons who are in perfect health, and as suddenly disappears,

Thus many individuals, whose minds are labouring under any unusual excitement, lose entirely the command of language, or are unable to recall a particular phrase or words; How often do we find persons, who under ordinary circumstances, express themselves with clearness and fluency, but when called upon to address a public assembly are unable to recall a single idea or frame the simplest sentence

In all these cases the amnesia disappears with the emotions of the mind which produced it

In general the attack is preceded by headache, particularly in the fore part of the



head, this pain in the head, is accompanied ordinarily with more or less defect of visions, dullness of intellect, and other symptoms of Cerebral Congestion. In other instances, the defect is more gradually developed; the patients are then generally the first to perceive, and point it out to their physicians; though case are or records, in which the persons affected were totally unconscious of its existence,

When it is produced by an injury inflicted upon the brain, or is the consequence of some affection of that organ, it is often not until the patient has become convalescent that it is observed.

In chronic affections of the brain terminating, even in disorganization of its substance, the amnesia may constitute, for a considerable time the most prominent symptoms of the disease,

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The progress of all the varieties of Amnesia is of course variable, depending entirely upon the nature~~and~~ and extent of the lesion of the brain upon which they depend - when the brain is affected simply with partial irritation or congestions, the amnesia may cease, spontaneously, within a few days or even hours; in other cases it may endure for weeks, and when disorganization of the brain has taken place, for the remainder of life,

In some cases it has assumed a remittent form, There is a case related of a young man who was deprived of memory during the heat of summer but regained it, when cold weather set in, And it is stated of the great Milton, that his memory was far less active in warm than in cold weather



When dependent upon an acute affection of the brain, the Amnesia in general, disappears with the symptoms of the latter; or as the mind and body of patient regain their ordinary vigor, In those case which supervene upon an attack of Apoplexy, the memory is frequently restored, as the blood effused in the brain becomes absorbed, and the cicatrizations of the ruptured fibres of the brain is effected. In many cases the Amnesia disappears even though the paralytic affections of the limbs remain permanent.

Exciting causes. — These are all those circumstances which directly or indirectly produce irritation inflammation or — disorganizations of the brain — Hence it has been found to follow blows, or falls upon the head, and wounds of the brain, cases of this kind are related by nearly all the surgical

The first part of the book is devoted to a general history of the world, from the beginning of time to the present day. The second part is a history of the British Empire, from the reign of King James I. to the present day. The third part is a history of the British Colonies, from the first settlement in North America to the present day. The fourth part is a history of the British Empire in the East, from the first settlement in India to the present day. The fifth part is a history of the British Empire in the West, from the first settlement in the West Indies to the present day. The sixth part is a history of the British Empire in the South, from the first settlement in South Africa to the present day. The seventh part is a history of the British Empire in the North, from the first settlement in the Arctic to the present day. The eighth part is a history of the British Empire in the South Pole, from the first discovery to the present day. The ninth part is a history of the British Empire in the North Pole, from the first discovery to the present day. The tenth part is a history of the British Empire in the South Pole, from the first discovery to the present day.

writers, Baron Lary in particular,  
has recorded in his surgical memoirs  
numerous instances of wounds from swords  
or bayonets, penetrating the brain, through the  
orbits, in which the memory for words was  
lost; but not that of things, Amnesia.  
has also been produced by excessive appli-  
cation of mind, violent paroxysms of  
anger, inordinate grief, and the other  
depressing passions. It has also been  
frequently brought on by a vicious course  
of life, particularly, except in venereal  
pleasures, One of the most frequent causes  
of Amnesia is the unnatural excitement of  
the genital organs in youth by masturbation.  
Many young persons, who, in the commence-  
ment of their studies, manifest the most  
happy dispositions, and give promise of  
eminence, soon become imbecile and their  
powers of mind & memory destroyed,  
by Onanism and other species of

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debauchery, A melancholy instance of  
this kind, came under my own observa-  
tion at the Balt. Infirmary a short time  
since, the patient was the son a respect-  
able merchant of New York City, he  
studied Law, and gave evidence of  
considerable talent & Genius, his attain-  
ments in music and drawing were also  
considerable, his prospects in life were  
bright & promising, He was known  
however to be addicted to the cursed  
practice of onanism, and this gave  
rise to fits of melancholy & despondency,  
he was remonstrated with by his friends,  
and made aware of the dangerous,  
and almost certain destructive tendency  
of his practice, These warnings were  
in vain, the habit continued, his gloomy  
moods grew & more frequent, and it was  
determined at last to give him the  
benefit of new scenes and change of

The first thing I noticed when I stepped  
out of the car was a warm, sun-drenched  
welcome. The air smelled of salt and  
freedom. I had heard the stories, but  
nothing could prepare me for the  
feeling of being here. The ocean was  
just what I needed. I had been  
told it was magical, and now I  
knew. The waves were like a  
hug. I had found my place.  
The sun was just what I needed.  
I had heard the stories, but  
nothing could prepare me for the  
feeling of being here. The ocean  
was just what I needed. I had  
been told it was magical, and  
now I knew. The waves were  
like a hug. I had found my  
place.



of air, with this view he was, placed upon a vessel bound for California, after having been some time, at sea (his practice continuing) his mind became more and more affected, the Captains of the vessel, was in consequence, compelled to stop at the port of Rio and put him in charge of our Consul there, by whom he was sent from thence to Batavia, at the time of his arrival here, he was in a state of perfect insanity.

His Father & Brother having been made aware of his whereabouts, came on to see him, and the spectacle which was exhibited, at the meeting was truly heart-rending;

There lay the Son whose cheeks, a few months previous, possessed the glow of youth, whose eye sparkled with the scintillations of filial affections, whose words had given evidence of a bright mind, and whose sentiments, bestrode



qualities of heart. which all admired, but now how altered, his features were contorted with the hideous smile of insanity, his eye stared the vacancy of idiocy - his muttered broken expressions, as they fell from his lips, betokened indeed a sad dethronement of reason, while the total unconsciousness of the presence of his Father betokened a no less sad bereavement of memory, on the other hand, there stood beside the bed, the aged form of the Father, endeavouring to arouse his Son to a sense of his presence, the tears coursed each other down his furrowed cheek, while the deep drawn sigh, gave evidence of a heart fair bursting with parental affection and anxiety.

The suppression of the hemorrhoidal flux, of the menstrual discharge, or of any habitual discharge from the body by producing congestions of the brain,



~~by producing~~, frequently causes Amnesia  
which after, disappears the moment, these  
evacuations are restored, Exposure to  
intense Cold, or to excessive heat, over-  
fatigue, intemperance in ~~the~~ eating  
and drinking, or the habitual use  
of intoxicating drinks, are likewise  
frequent, exciting causes of Amnesia  
Certain Poisons such as opium, belladonna  
hyosciamus, Stramonium, and Cicuta,  
very generally produce Amnesia, it  
has been observed that - an immoderate  
use of mercury, brought about the same  
result. Profuse hemorrhages, long continued  
diarrheas, the want of food or the use  
of that of an unwholesome quality  
have also been known to produce  
a marked diminution of the powers  
of memory — — —

Post. Mortem Appearances — — —

The Autopsic appearances in the brains

2

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of those, who have died, whilst, labouring under Amnesia, have been extremely various

In many cases no morbid, appearances could be detected, sufficient, to account for the defect of memory; the irritations and congestions which gave rise to it having in all probability ceased, with the life of the organs. In the greater number of instances however, effusions of blood are discovered, in the brain or softening of its substance, or some abnormal productions, especially in the cerebrum

Pathology — Amnesia has by some writers been styled a paralysis of the organ of memory, and by others, partial apoplexy. But neither of these propositions, conveys any definite idea, as to the seat or nature of the lesion, by which it is produced.

That it is caused by a lesion the same

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portion of the brains, is rendered evident, as well by the particular circumstances under which it occurs, as by the phenomena which ordinarily accompany it: and the appearances discovered in the bodies of those who, have died whilst, labouring under this affection, The fact. is that in a large number of Cases, the defect of memory occurred subsequent. to an attack of Apoplexy, It has been, attempted to be shown that all the varieties of Amnesia, depend upon disease of the anterior lobes of the Cerebrum And it is in this portion of brain, that according to Spurzheim, all the organs, upon the activity of which memory depends, are seated, The history of numerous cases, and post. mortem examinations, seem to lead truth to this theory, but: on the other hand many cases are stated, by other writers; of an almost. total loss of memory in which the Anterior lobes of the Cerebrum

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second of the three is the  
third of the three is the  
fourth of the three is the  
fifth of the three is the  
sixth of the three is the  
seventh of the three is the  
eighth of the three is the  
ninth of the three is the  
tenth of the three is the  
eleventh of the three is the  
twelfth of the three is the  
thirteenth of the three is the  
fourteenth of the three is the  
fifteenth of the three is the  
sixteenth of the three is the  
seventeenth of the three is the  
eighteenth of the three is the  
nineteenth of the three is the  
twentieth of the three is the  
twenty-first of the three is the  
twenty-second of the three is the  
twenty-third of the three is the  
twenty-fourth of the three is the  
twenty-fifth of the three is the  
twenty-sixth of the three is the  
twenty-seventh of the three is the  
twenty-eighth of the three is the  
twenty-ninth of the three is the  
thirtieth of the three is the

were found unaffected after death, the disease of the brain being seated at a distance from the frontal regions, It will be perceived by what has been said, that pathology of this disease is somewhat uncertain, much in relation to it is involved in obscurity, and requires for its elucidation a far more extended series of observations than we now possess.

The only conclusions that can be clearly deduced from the facts on record are; 1<sup>st</sup>. that whenever the cerebrum, particularly its anterior lobes, is the seat of irritation and congestion, or of inflammation, the memory is altered, to a greater or less extent, frequently entirely suspended and is again restored to its normal condition when the morbid state of the brain is removed,

2<sup>nd</sup>. When particular portions, become disorganized or the seat of any

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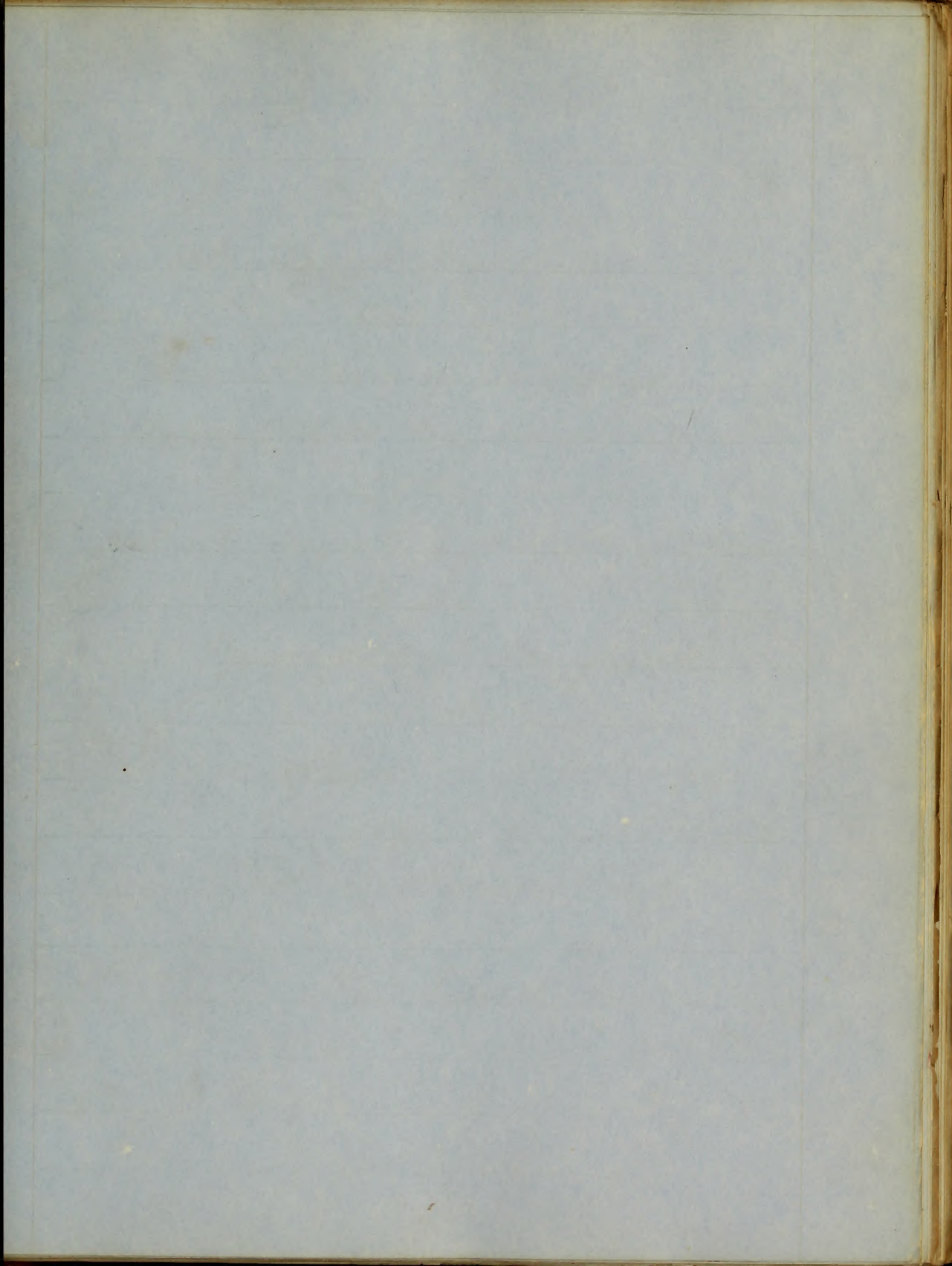
permanent lesions, the memory, is impaired or completely destroyed, and is then, incapable of being reestablished,

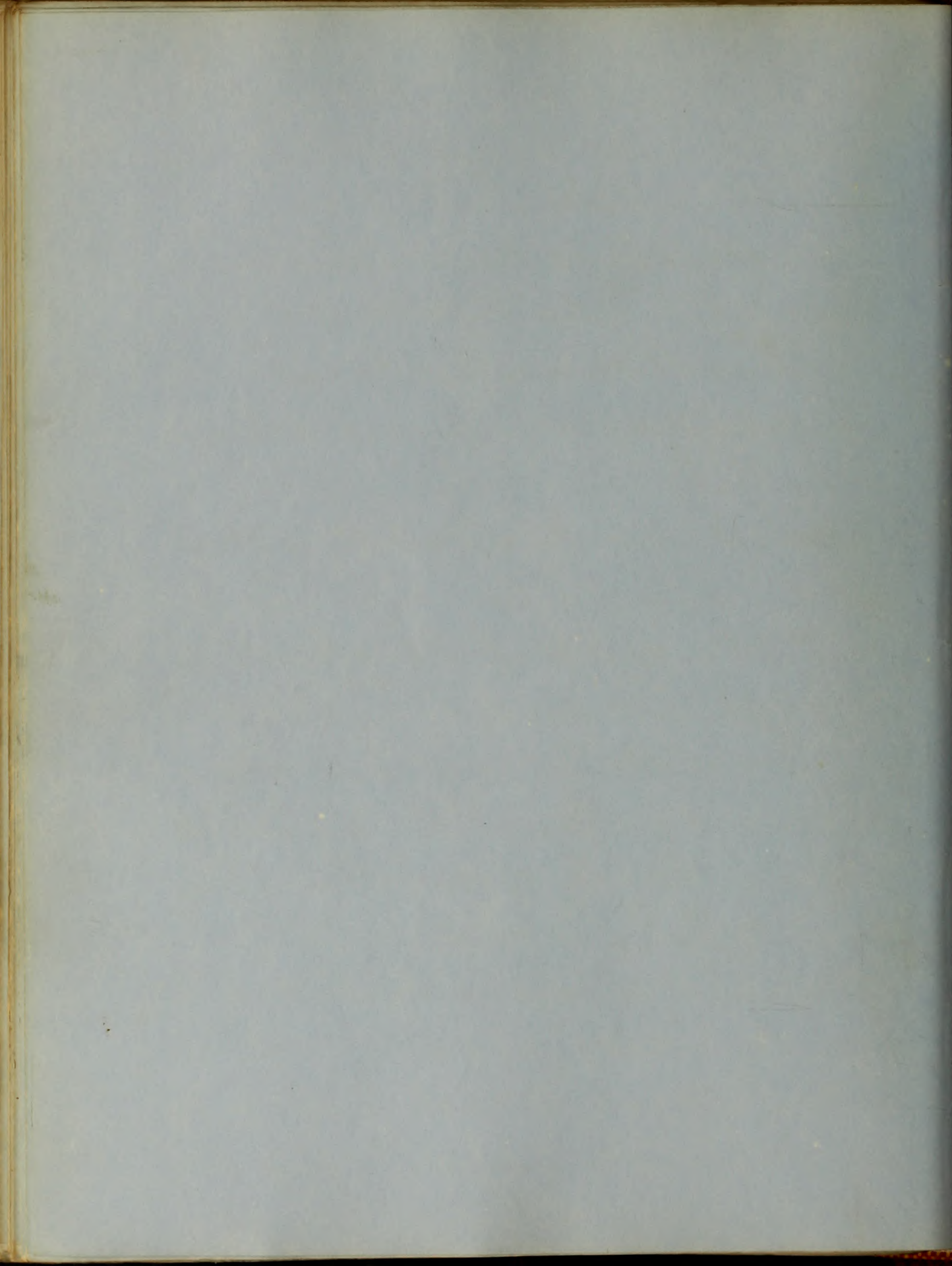
Treatment, The proper treatment, will depend entirely upon the state of the brain, pointed out by the particular phenomena accompanying each case; it will be unnecessary therefore, to consider, it in detail here,

The abstraction, as far as possible of all the remote and exciting causes, that may be presumed to have given rise to the affection, is all important in every case, and, with a properly regulated diet, and regimen will often be sufficient to restore the powers of the memory, even when for a time, they have been completely lost.

In a majority of cases in which the affection occurs, suddenly, in persons otherwise in perfect health, it will be found by an attentive examination of the concomitant symptoms, that a partial congestion

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general introduction to the subject  
of the paper. It is divided into  
two parts. The first part is  
a general introduction to the  
subject of the paper. The second  
part is a detailed account of the  
work done during the year.  
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subject of the paper. It is  
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the year.



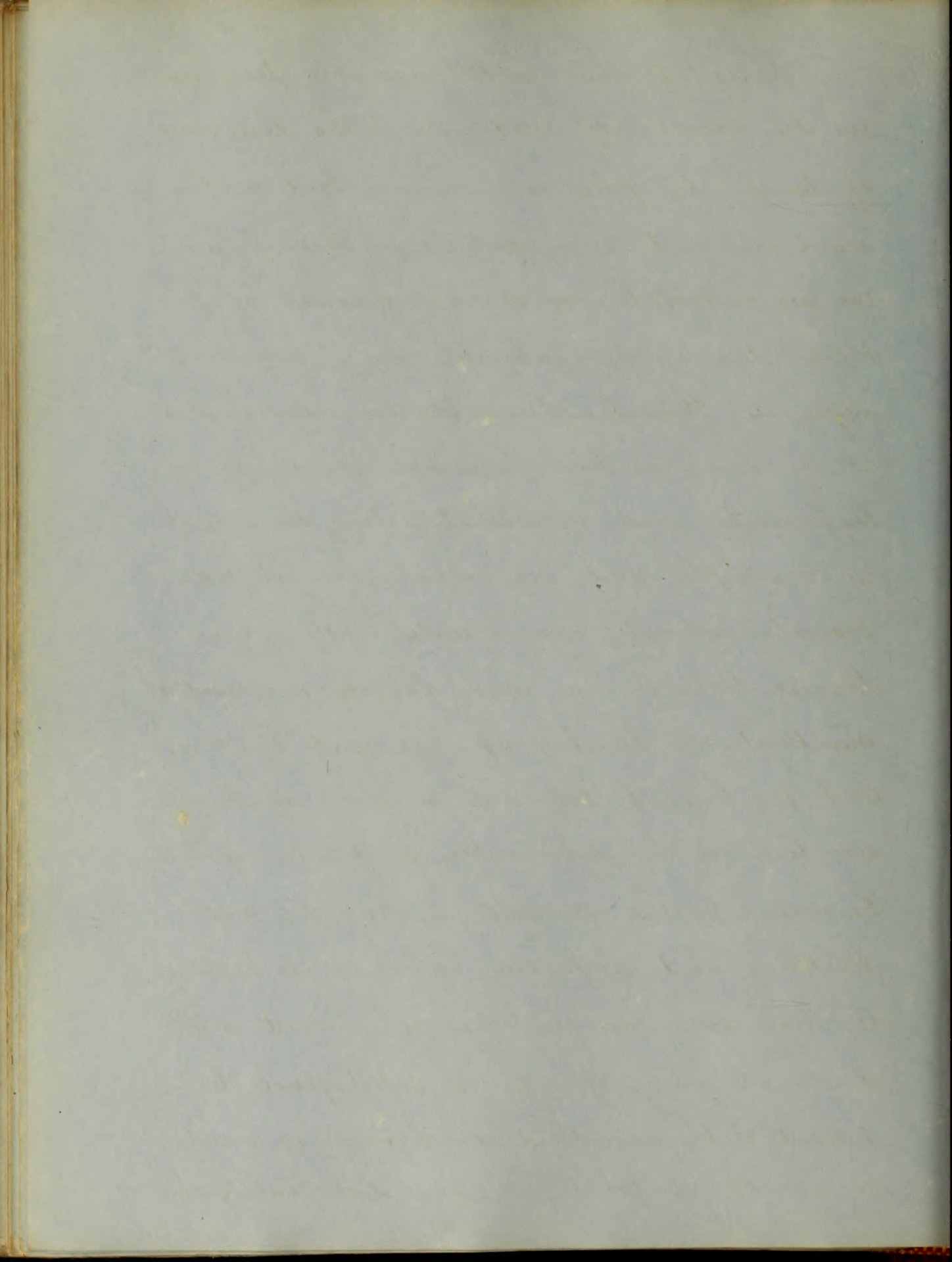




An  
Inaugural Dissertation  
On  
Auscultation of the Lungs  
Submitted to the examination  
of the  
Provost, Regents & Faculty of Physic  
of the  
University of Maryland  
for the  
Degree of Doctor of Medicine  
By  
Robt E. Bromwell  
of  
Maryland



1  
One of the most valuable discoveries in the science of medicine is the diagnosis of disease by physical signs - And to the assiduous and successful researches of Laeene, we are indebted for a vast amount of the knowledge of the subject, which we now enjoy - Though Auscultation was hinted at so much as two thousand years ago by Hippocrates, and notwithstanding the subject is so simple and yet so valuable it was scarcely noticed again until 1816 when Laeene took it up and largely increased to mankind the blessings of life and health, and for himself achieved a name which will ever live in the honourable profession, of which he was a worthy member - But the most startling and surprising part of its history is, that even now, in this enlightened age medical men of reputed intelligence, have passed it by unnoticed, or thrown it aside as something totally unfounded or altogether



useless — It would be entirely unnecessary to attempt, in this imperfect treatise, to advance any arguments in support of the science, since a short study of it is a most convincing proof of its utility.

To appreciate the valuable information attainable by auscultation in disease, it is of course, essentially necessary, that the ear should be well trained and perfectly familiar with the sounds of the organ or part in health —

For the purpose of conducting, and more clearly transmitting sounds under certain circumstances, the stethoscope is employed, instead of the naked ear — It is applicable to those cases, more particularly, where the ear cannot be accurately adapted to the part — where from some cause we are unwilling to apply it — or where we wish to ascertain the sound in a small or circumscribed spot.

In using this instrument, or ausculting with the naked ear, it is necessary that either should

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be very accurately, and at the same time light  
 ly adapted to the part, so that we may catch  
 with accuracy the slightest sounds -

### - Auscultation of the Lungs -

In examining the lungs we should in every  
 case examine both sides comparatively, for by  
 comparison alone, we ascertain in many in-  
 stances, morbid changes which otherwise would  
 be overlooked - In healthy respiration, the act  
 of inspiration is more forcible and about three  
 times longer than expiration - a fact which  
 was first noticed by Dr. James Jackson of  
 Boston, in the examination of a case of phthisi-  
 sis, of which disease, an increase in the length  
 of expiration is one of the first symptoms -

At the bifurcation of the trachea we have  
 the respiratory murmur ruder than at any  
 other portion of the chest, but equal on both  
 sides, except, occasionally at the summit of the  
 right lung it is a little rougher -

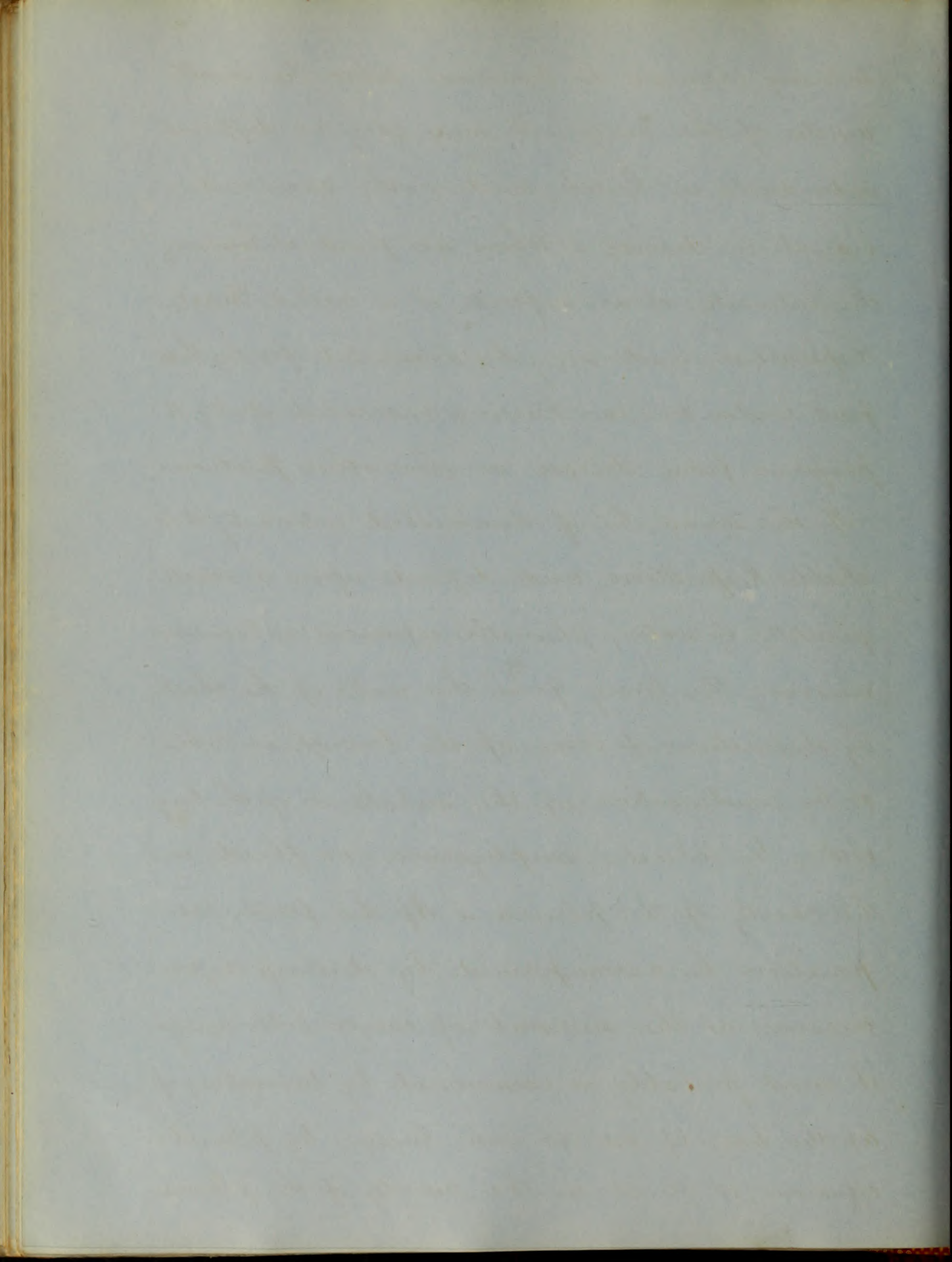
Respiratory murmur, is produced by the air

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entering through the bronchial tubes the small vesicles of the lungs - It may vary in different individuals in health, and in the same individual in disease - When we find it having the intensity of an infant's, it is called *Puerile Respiration*, and may be accounted for, by the part under our ear having increased duty to perform from disease in some other portion.

If the sound be of diminished intensity it is *Feeble Respiration*, and depends upon a small quantity of water, pleuritic effusions, or tumours removing the lung from the walls of the chest - by obstruction of some of the bronchial tubes - or by condensation of the substance of the lung either by tubercles, emphysema, or fluid in the cavity of the pleura - If the feeble respiration be accompanied by dullness on percussion at the summit of one, or both lungs it most probably is occasioned by tubercles, if at the base of one or both lungs, by pleuritic effusions, or fluid in the cavity of the pleura.



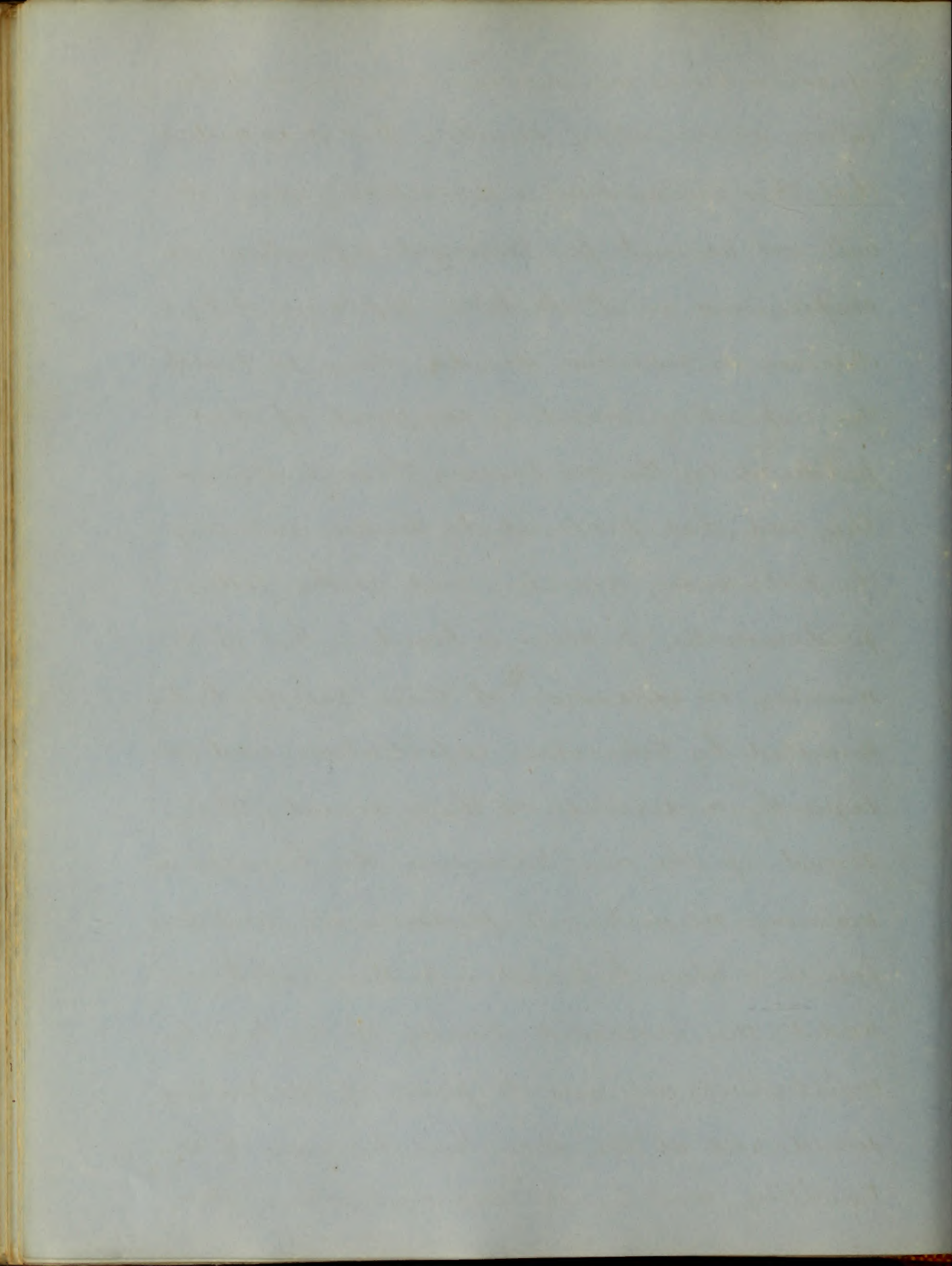
Complete absence of respiratory murmur might be occasioned by an increase of any of the same causes, but is generally the result, if on one side only, of effusion from pleurisy, if on both sides, Hydrothorax

The next sign to be noticed is the change in relative length of inspiration and expiration which in the healthy lung is about three to one - Any change from this proportion seems to be owing to an increase in length of expiration, and indicates either, a deposition of tubercles, hepatization at the root of the lung, or pulmonary emphysema - they are to be distinguished from each other by the location of the sign and the general symptoms of the patient

The immediate cause of prolonged expiration has not been very satisfactorily explained - by some it is supposed to be produced by a deposition of tubercles in the lung which produces prominences on the interior of the final bronchial ramifications, offering resistance to the egress

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of air - hence an increase in force and duration of expiratory sound - but it is evident that this explanation is incomplete, since it will not account for prolonged expiration in emphysema - Dr Jackson explains it by a decrease in vesicular sounds, thus, in health the respiratory sound is composed of that produced by the air passing through the bronchi, and that produced by the air entering the pulmonary vesicles, and as the latter predominates, it alone is heard - but if the number or expansion of these vesicles be diminished by tubercular infiltration, and consequently a decrease of their sound, the sound of the air traversing the bronchi remaining normal, will predominate, and therefore will alone be heard - To this has been added, the increased density of the lung by infiltration, increases its power of conducting sound and at the same time decreases its contractility, and by its slow contraction the



respiratory murmur is prolonged - All of these explanations seem liable to the same objections - viz. they are incomplete - for if we have prolonged expiration in emphysema, it is very certain that it is produced by some cause which is not given to us in any of the above explanations, since emphysema is not necessarily coexistent with tubercles - If Dr Jackson's theory will allow that the decrease in number and increase in size of the vesicles in emphysema, will give rise to the same phenomenon, in regard to expiration, as a deposition of tubercles - then his theory would seem to me decidedly the most plausible - and yet, it would not answer in cases where expiration is prolonged to three times the length of inspiration, but this is rather deep water - so we will pass on to

Harsh Respiration - It is produced by thickening of vesicular walls, and may

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occur in any case of pulmonary induration as a general rule where we have harsh respiration with great clearness on percussions and prominence of the chest, we have emphysema - but if it be accompanied with dullness at the summit of the lungs, with increased expiration and resonance of the voice, we refer it to the presence of crude tubercles

#### Tubal or Bronchial Respiration -

May be imitated by blowing rapidly through a stethoscope or any similar tube.

It is occasioned by hepatization or solidification of the vesicular structure of the lung from any cause, as crude tubercles, pulmonary apoplexy, effusion of water into the cavity of the pleura, tumours compressing the lung, or by uniform dilatation of the bronchial tubes with induration of the parenchyma - The diseases in which we most frequently meet with are, pneumonia in the second stage, phthisis pulmonalis, and

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pleurisy - If it be found at the summit of the chest, not well marked, and during some chronic affection, it indicates tubercles.

If it be accompanied by some acute affection, well marked, and proportioned in extent to the dullness, we would pronounce that it pneumonia - but if not proportioned to the dullness, it is produced most likely by pleurisy -

Cavernous Respirations - is produced by a cavity, and in nine cases out of ten, this cavity is the result of softened tubercles, it may also be produced by a cavity from abscess or gangrene, or the dilatation of a bronchus - The sound may be imitated by blowing into a hollow vessel, or forcibly into the hands fixed together so as to form a cavity - When the cavity is small it is hard to distinguish it from bronchial sound - Its ordinary seat is at the summit of the chest -

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. Amphoric or Metallic Resonance - It is occasioned by the air entering a large cavity in the lung through a small opening, or passing through a small aperture into the cavity of the pleura - It may be imitated by blowing into the bung hole of an empty cask, or into a thin decanter partly filled with water - It is more evident in inspiration, and generally accompanied with metallic tinkling - When well marked, it almost invariably indicates pneumo-thorax with pulmonary fistulae - when not so well defined, it may be the symptom of a large cavity, generally tuberculous, though it may be from gangrene or abscess - Its general seat, is the lateral, and posterior middle, region of the chest

Abnormal Sounds

These are Ronchi, Rattles and Friction sound of the pleura - Ronchi or Rattles are produced by altered secretion - called Ronchus when the sound is musical, and rattle

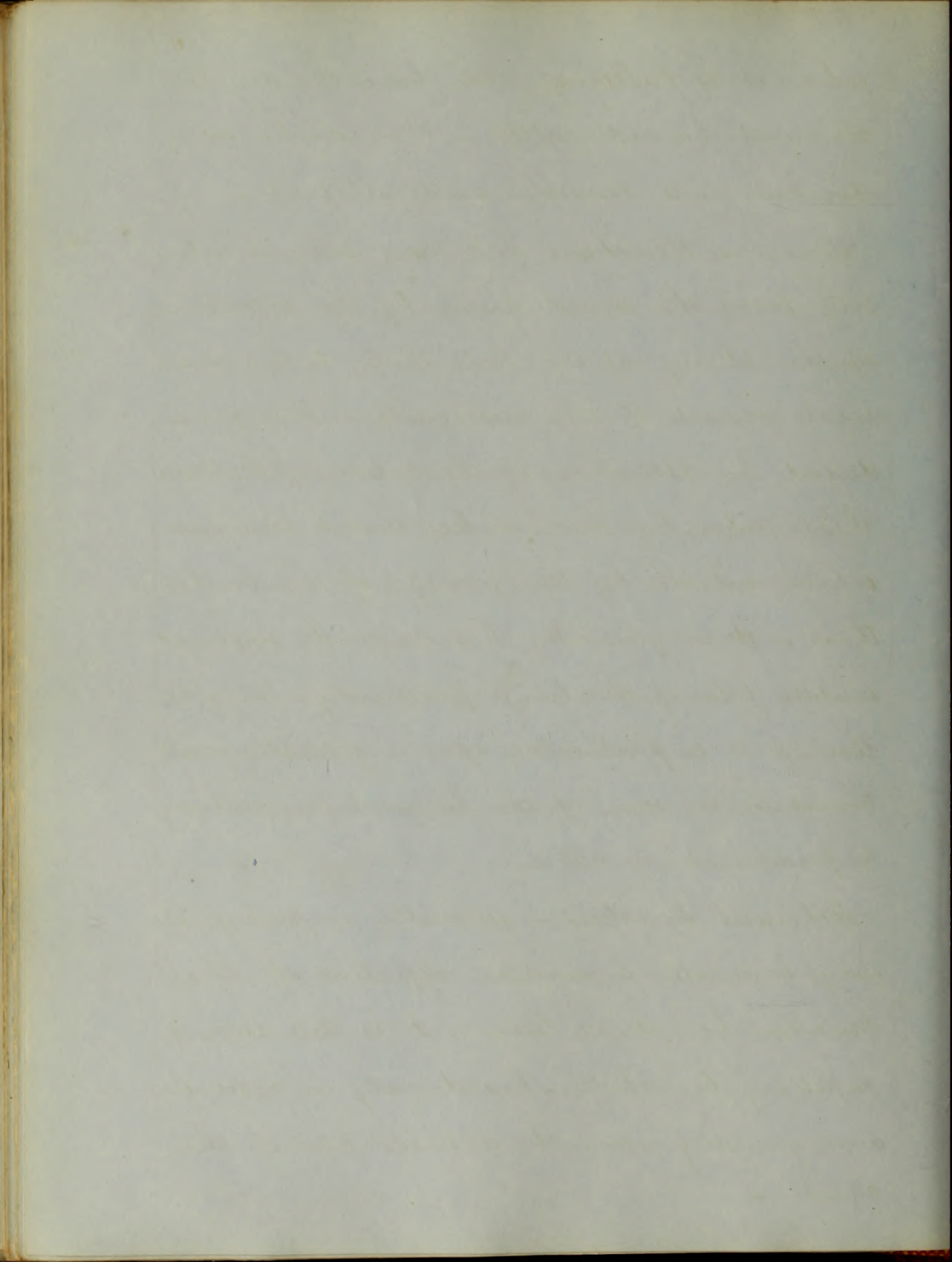
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"

when it is bubbling - we have the dry ronchi and humid rattle - the ronchi are divided into sonorous and sibilant -

Sonorous Ronchus - I may vary in intensity from the sound given by the vibrations of the string of the bass viol, to the musical sound of the musquito - It is produced by alteration of the calibre of the bronchial tubes, by more or less viscid mucus which vibrates by the passage of the air through them - it is generally heard in the upper and middle lobes of the lungs posteriorly - may be limited to a particular spot - generally means bronchitis in some of the larger tubes, and may be permanent or not -

Sibilant Ronchus - generally or perhaps always indicates a similar affection of the smaller bronchial tubes - It is the sign of capillary bronchitis - heard only in expiration and generally upon the anterior part of the chest -





## Humid or Moist Rattles

Crepitant Rattle - It is met with only in an engorged or congested state of the lung

It is so seldom found in any other disease, it may be considered pathognomonic of pneumonia in the first stage - it is heard only in inspiration, and gives us a dry crackling sound, similar to that produced by throwing salt on a hot shovel or compression of a piece of sponge cake, or rubbing together a lock of hair near to the ear - It seem like the bursting of numerous and small bubbles in rapid succession - It is heard most distinctly at the posterior and inferior part of the lung, generally on but one side - it may be perceived only after coughing, and is sometimes mingled with other sounds - In resolution of pneumonia the bubbles are coarser and louder.

The cause of crepitant rattle is the separation of the walls of agglutinated vesicles which have been brought in contact by con-

The first of these is the  
fact that the world is not  
a uniform whole, but is  
divided into many different  
parts, each of which has  
its own characteristics and  
its own laws. This is the  
principle of diversity, and  
it is the basis of all  
science. The second is the  
fact that the world is not  
a static whole, but is  
in a constant state of  
change. This is the  
principle of flux, and it  
is the basis of all history.  
The third is the fact that  
the world is not a  
mechanical whole, but is  
a living whole. This is  
the principle of organic  
unity, and it is the basis  
of all philosophy.

-gestion and which adhere by a viscid secretion which they contain

Subcrepitant Rattle, is produced by the passage of air through some secretion - It sounds like the bursting of numerous and unequal soap bubbles but varying both in number and character, it is found both in inspiration and expiration, and generally seated at the inferior and posterior portion of the chest on both sides, though it may be more distinct in some cases at the superior part of the lung - When the bubbles are numerous at the base of the lung and decrease as we ascend, we may be almost certain that bronchitis exists - but if they are almost or entirely absent at the base of the lung, and increase in number as we reach the summit, we are led to suspect softened tubercles, especially if it be confined to one side

Moist Crepitant Rattle - is produced by the air mingling with a liquid which is not vis-



cid in the vesicles or smaller tubes - it sounds like the bursting of bubbles on soda water or champagne, and is heard in oedema of the lungs, pulmonary apoplexy or hemorrhage of the lungs - it is found in no particular portion of the organ

Cavernous Rattle, is always accompanied by cavernous respiration, and is produced by the bursting of a few large irregular bubbles, it is heard in both inspiration and expiration, generally at the summit of the lung, from the fact that the cavity which gives rise to it, is the result of softened tubercles -

Friction sound, is produced by pleuritic effusion, tubercles of the pleura, and rarely by emphysema giving rise to an irregularity on the surface of the pleura, for in perfect health the polished surfaces of the pleura give out no sound as they glide upon each other - As a general rule it means an improving pleurisy - though if it be confined to the sum-



mit of the chest, it may indicate tubercles -

There are a few other abnormal sounds which are not well characterized, and for the most part produced by tubercles -

### Auscultation of the Voice

When a person in a state of health, speaks, the sound is transmitted through every part of the respiratory apparatus, and differing, as we apply the stethoscope, or ear, to different parts - The resonance is greatest at the larynx and superior part of the trachea, and decreasing as we descend along the course of the bronchial ramifications when we come to the pulmonary tissue, it is scarcely heard, and we discover nothing more than a slight trembling, such as is observed by palpation - It, like respiration is equal on both sides of the chest at corresponding points, except perhaps at the summit of the right lung, where from the greater size and more numerous branches of the right bronchus, we have slight increase of resonance





In emphysema, the resonance is decreased, so that we have merely a purring sound - In Pneumo. Hydrothorax and in pleurisy with great effusion the resonance is entirely lost - these are the only cases in which it is decreased - but it may be frequently increased -

Broncophony, is produced by the solidification of the lung, generally from effusion of lymph in pneumonia or infiltration of tubercles in phthisis,

It is a very much increased resonance, and sounds like the voice came partly into the tube of the stethoscope - When this sign is of less intensity, it is called, Increased resonance, and corresponds to rude respiration, which together with prolonged expiration, are the earliest symptoms of phthisis - Broncophony is generally heard most distinctly over the inter scapular region -

Pectoriloquy, was the first auscultatory phenomenon observed by Laenec - it is produced by the vibrations of the voice in a cavity

The first part of the paper is devoted to a  
general survey of the subject, and to a  
statement of the objects of the present  
enquiry. It is then divided into three  
parts, the first of which is devoted to a  
description of the various species of  
the genus, and the second to a  
statement of the characters of the  
genus, and the third to a  
statement of the characters of the  
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description of the various species of  
the genus, and the second to a  
statement of the characters of the  
genus, and the third to a  
statement of the characters of the  
species.

communicating with one of the bronchi, and in nine cases out of ten, is the result of softened tubercles - In pectoriloquy, the voice seems to pass directly through the stethoscope to the ear and we hear articulate words

Egophony, is pathognomonic of pleurisy - It is produced by a thin layer of water compressing the lung - In acute pleurisy it may be heard twice, (provided the patient recovers) 1<sup>st</sup> when the water has accumulated to a certain amount, and again when it has been absorbed to the same quantity - if the fluid be more or less than a certain amount, the sign is lost - It is a bleating or a goatlike voice and seems to be some distance from the ear - usually heard about the lower angle of the scapula, though it may change its seat by a change in the position of the patient - It is a symptom peculiar to pleurisy, yet pleurisy may exist without it -

Doctor Power has observed egophony, in one case of pericarditis with effusion -



## Auscultation of the cough

The cough may be either bronchial, tubal, cavernous, or amphoric - all of these peculiarities are very similar to the corresponding peculiarities of resonance of the voice and respiration and are heard in the same diseases

**Metallic Tinkling** - By metallic tinkling is meant a sound which occurs in that condition of things which gives us amphoric resonance - viz. a cavity partly filled with fluid into which the air passes in respiration -

It sounds like striking a piece of metal or glass with a pin, or by dropping grains of sand into a glass - It indicates a serous or purulent discharge in the pleura with pneumo-thorax, or a large tubercular cavity partly filled with liquid pus, but as a tuberculous cavity is seldom large enough to give this phenomenon, it is almost pathognomonic of hydro-pneumo-thorax with a fistulous communication between the pleura & bronchus -

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of the brain has taken place, in such cases, bleeding, either local or general, or both, according to circumstances, will be dem~~anded~~anded together with purgatives, cold applications to the head, counter irritants to the extremities, perfect quietude of mind, and body, and a very restricted diet;

When Amnesia is perceived in the Convalescency from Apoplexy or acute affections of <sup>the</sup> brain, great advantage will be derived from blisters or an issue at the nape of the neck, cold sponging of the scalp, and frictions of the surface generally, care should be taken also not too soon to excite or fatigue the mind by intellectual labours of any kind, or by the ordinary course of business, when the patients

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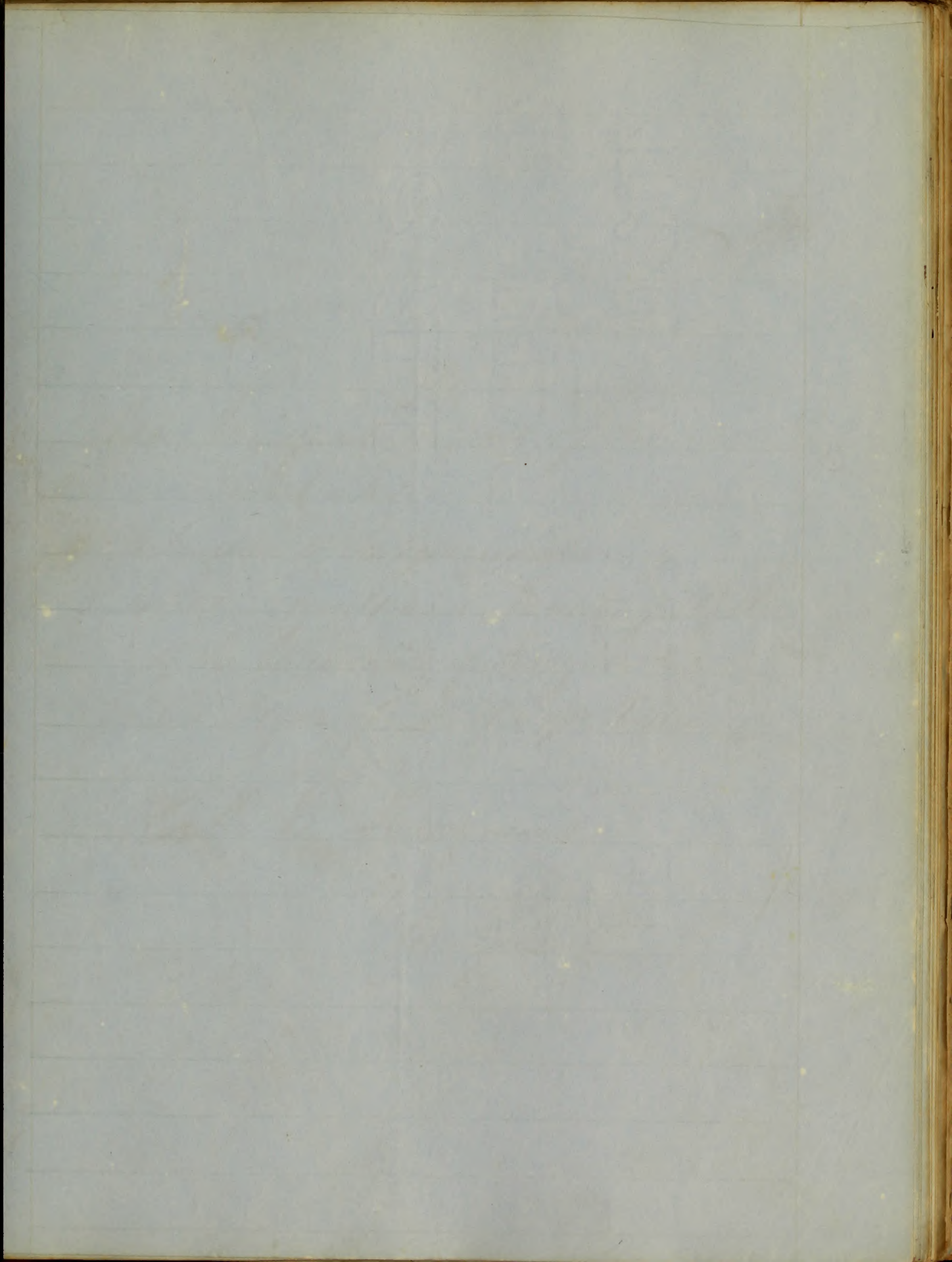


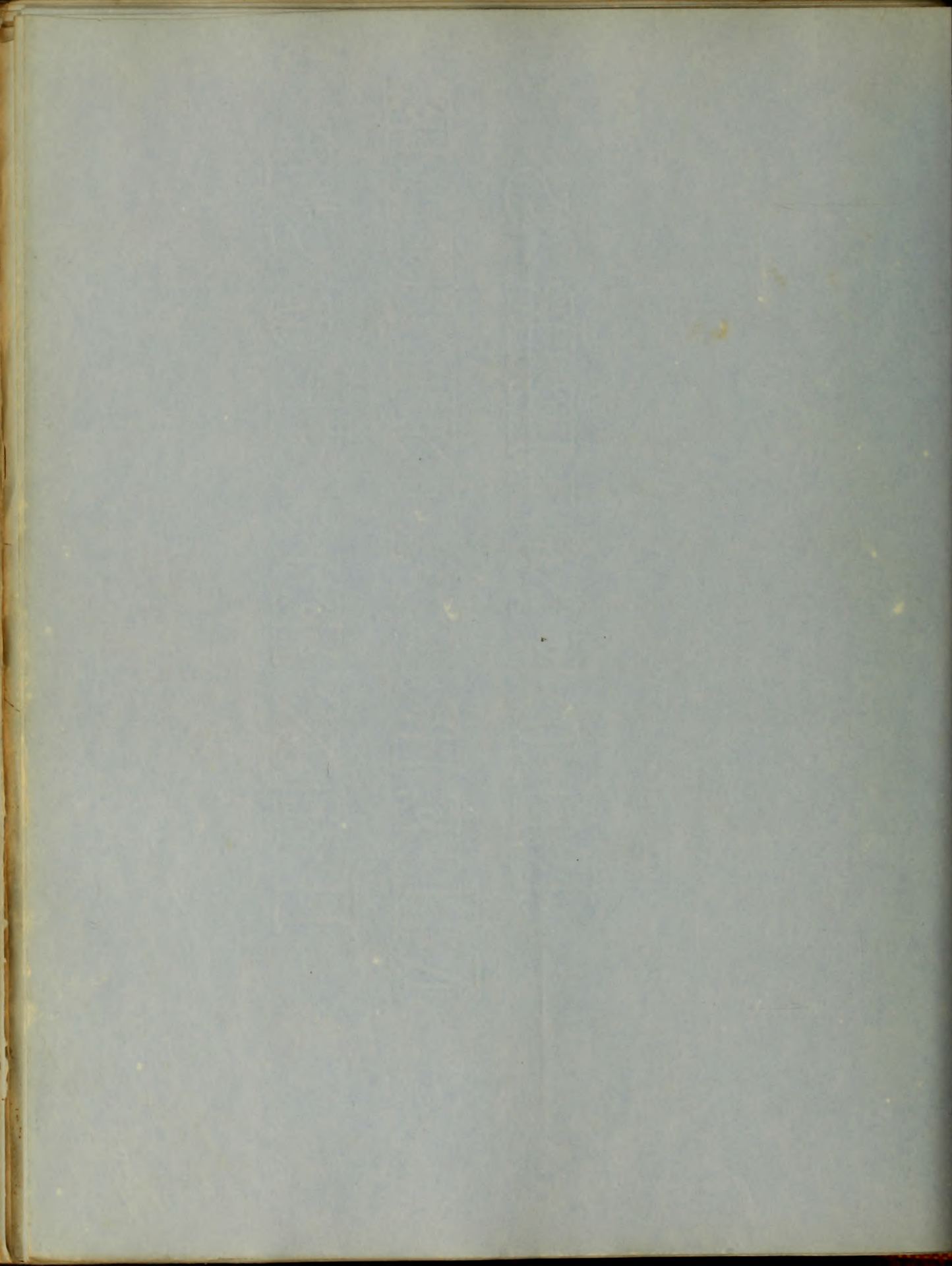
Strength is sufficiently recovered  
a short journey will often be  
decidedly beneficial,

When disorganization, has taken  
place in the brain, the Amnesia  
in a majority of cases, continues  
during the entire life of the patient,  
in spite of remedies — — —

Concluded

thought in a little while  
a short period of time  
to be very important  
the things that are  
done in the house  
is a matter of  
the order of the  
house of commons  
and the  
house of lords

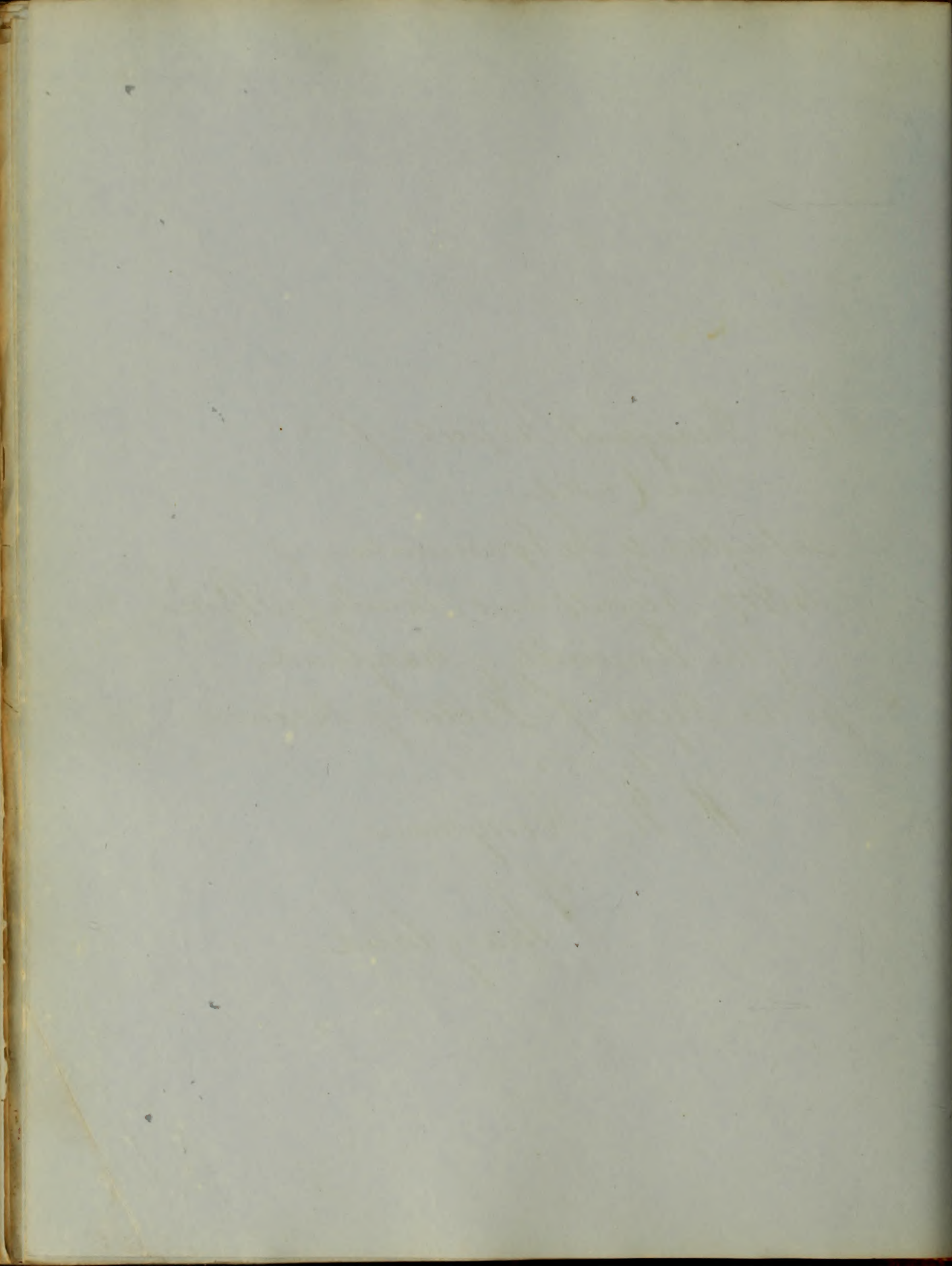


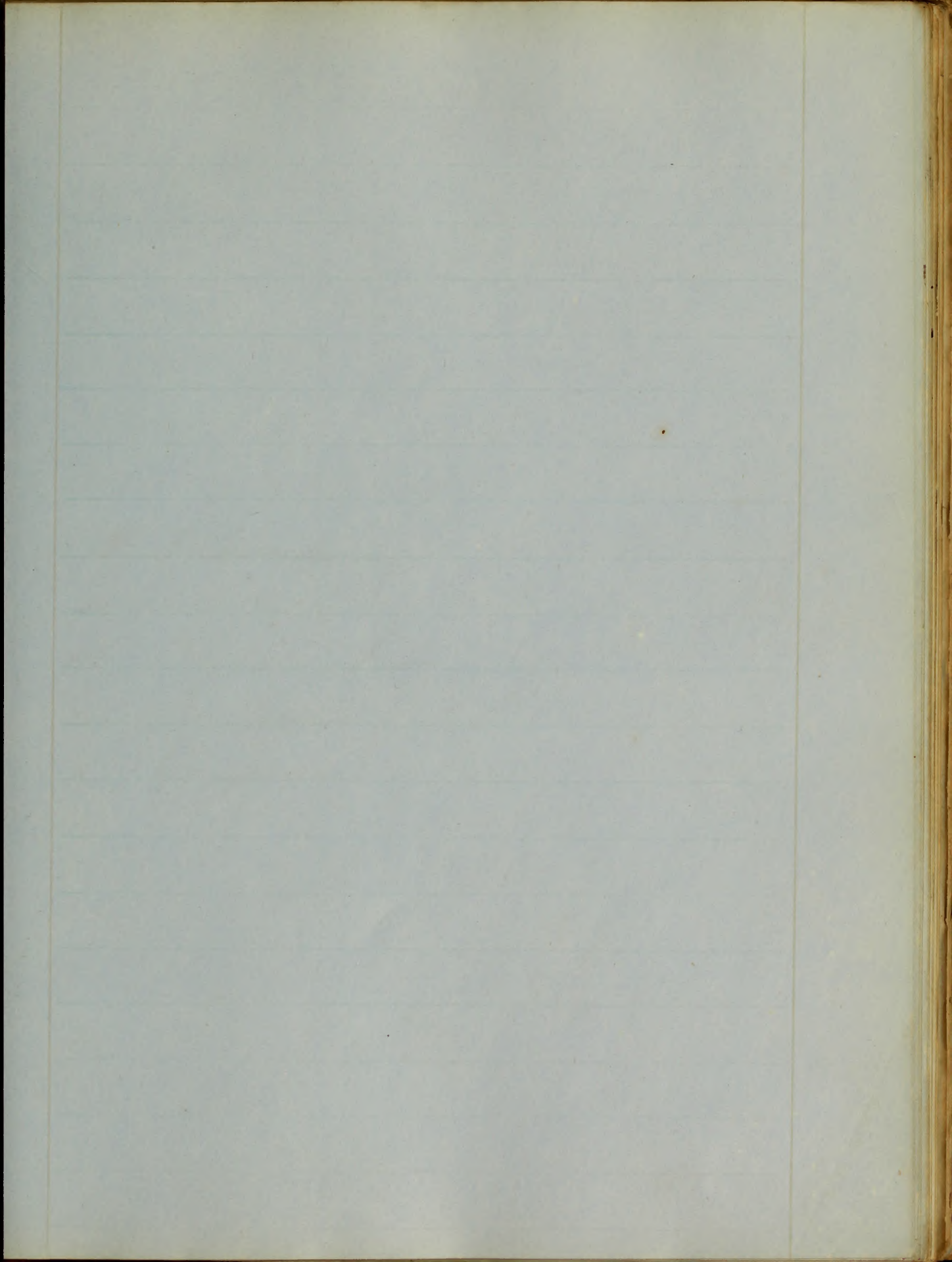


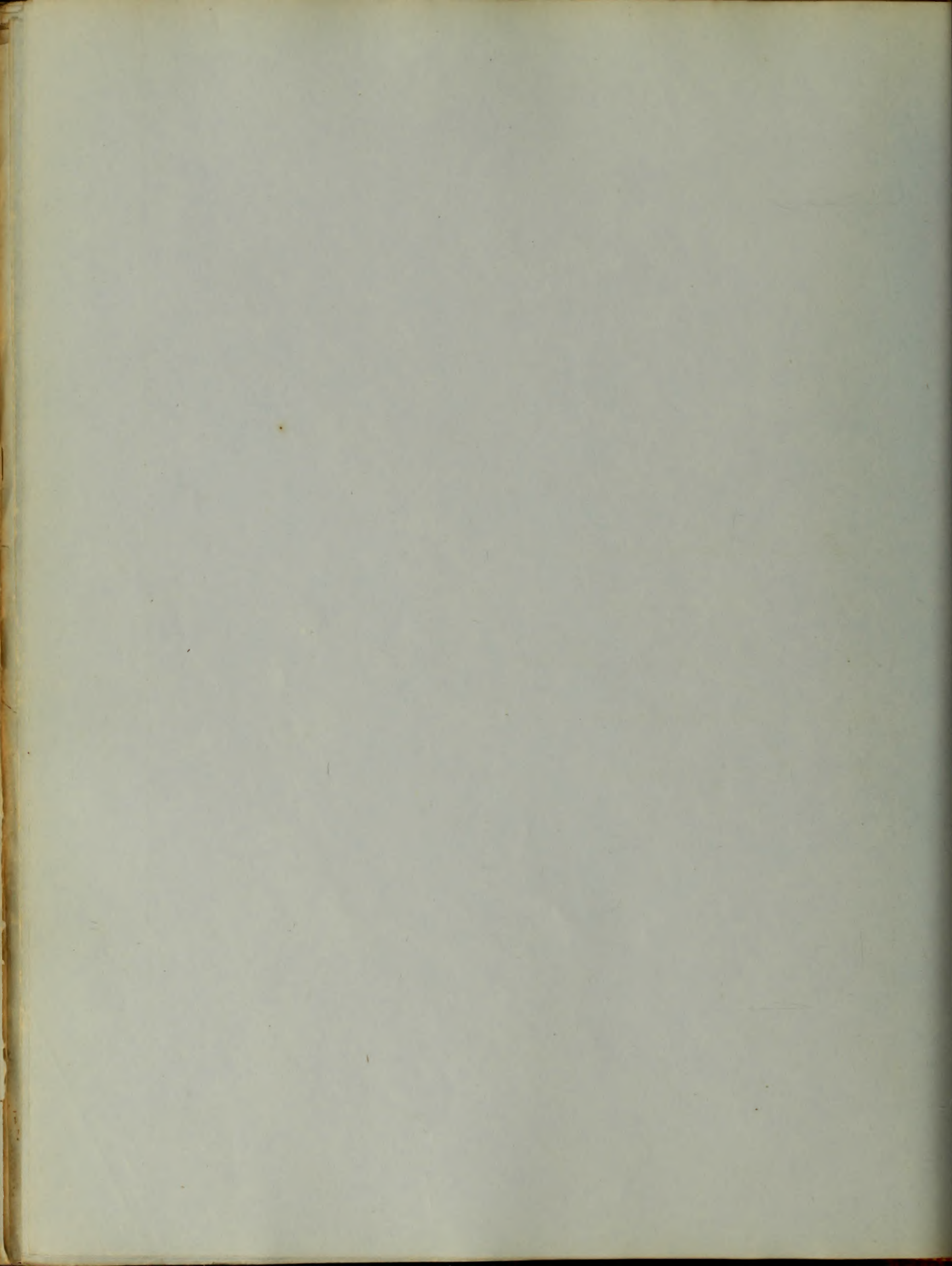
An Inaugural Report of  
Five Cases-

Submitted to the Examination of  
Trusts, Regents and Faculty of Physic  
of the University of Maryland,  
for the Degree of Doctor of Medicine

by  
M. W. Merriman  
of Maryland -









- I. Pneumonia
- II. Phthisis
- III. Typhoid Fever
- IV. Scarlatina
- V. Compression of Brain.



The first case to be detailed is that of a Sailor  
Boy - aged sixteen years - of delicate frame but  
good constitution - who entered the Marine ward  
of the Baltimore Infirmary on the seventh of  
April - 49 - . On the ninth he had been exposed  
to boisterous weather down the Chesapeake - but sus-  
tained no inconvenience until the evening of the  
eleventh, when after a most extravagant debauch  
upon fried eggs, he was attacked with vomiting  
purging, tormina ventris & other symptoms of gas-  
tro-enteritis - . In the course of a few hours, these  
subsided & were succeeded by high febrile reaction  
Headache - Thirst, loathing of food - severe heavy pain  
along right side, hard cough & occasional delirium  
all of which continued, increasing in severity, up to  
the day of his admission into the hospital. He  
had been subjected to no professional remediations,  
but a blister had been applied to the seat of pain  
& a few doses of medicine administered by the  
Captain of the vessel upon which he was employed.  
Upon examining into the condition of the pa-

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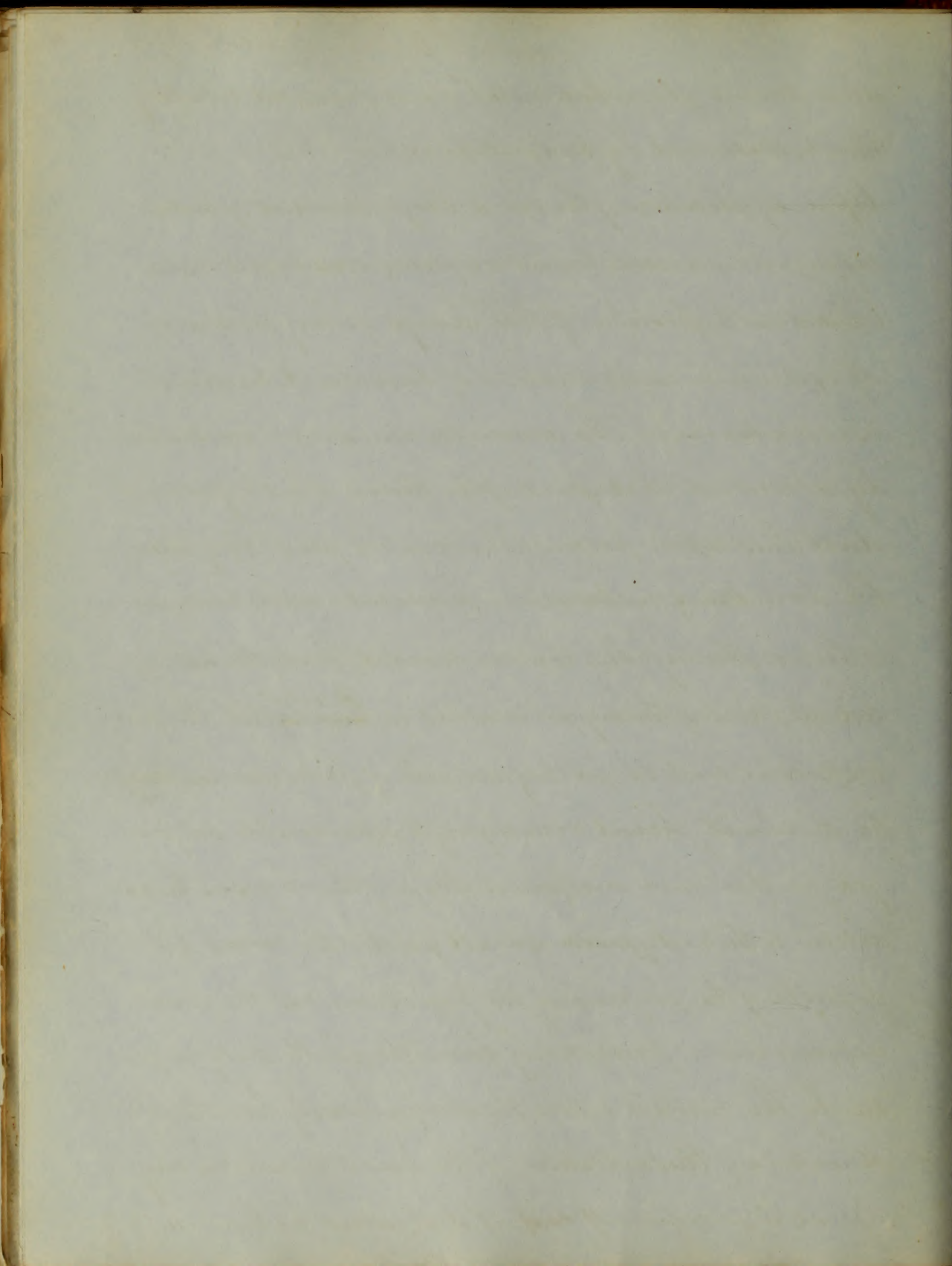
tion. His complexion was found to present the  
dusky, livid tinge characterizing a want of de-  
carbonized blood in the capillary vessels - decubitus  
upon back, inclined to right side - upon which side  
still existed the dull heavy pain alluded to above -  
the tongue was coated with a stratum of yellow-  
ish white fur - there was some nausea, thirst, and  
anorexia, constipation <sup>Scanty high colored urine</sup> - distressing pain in the  
head & wandering of mind - when undisturbed.  
In addition to these <sup>Symptoms</sup> the patient complained of  
great soreness of throat - exalted respiration - it being  
doubled in frequency compared with healthy stan-  
dard - a harsh painful cough, attended with  
scanty, tenacious rusty-colored expectoration -  
the voice exhibited the low suppressed tone so con-  
stantly observed in pulmonary inflammation - pulse  
was full - tolerably resisting & frequent - numbering  
one hundred & twenty strokes per minute -

The posterior & inferior half of right side of the  
chest - yielded upon percussion a dull flat sound.  
& the anterior surface of the same side the pec-

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without <sup>from accumulation of mucus in the</sup>  
<sup>bronchial tube</sup>  
ular sound of "cracked metal" - also increased vibratory  
Thrill, discovered by palpation.

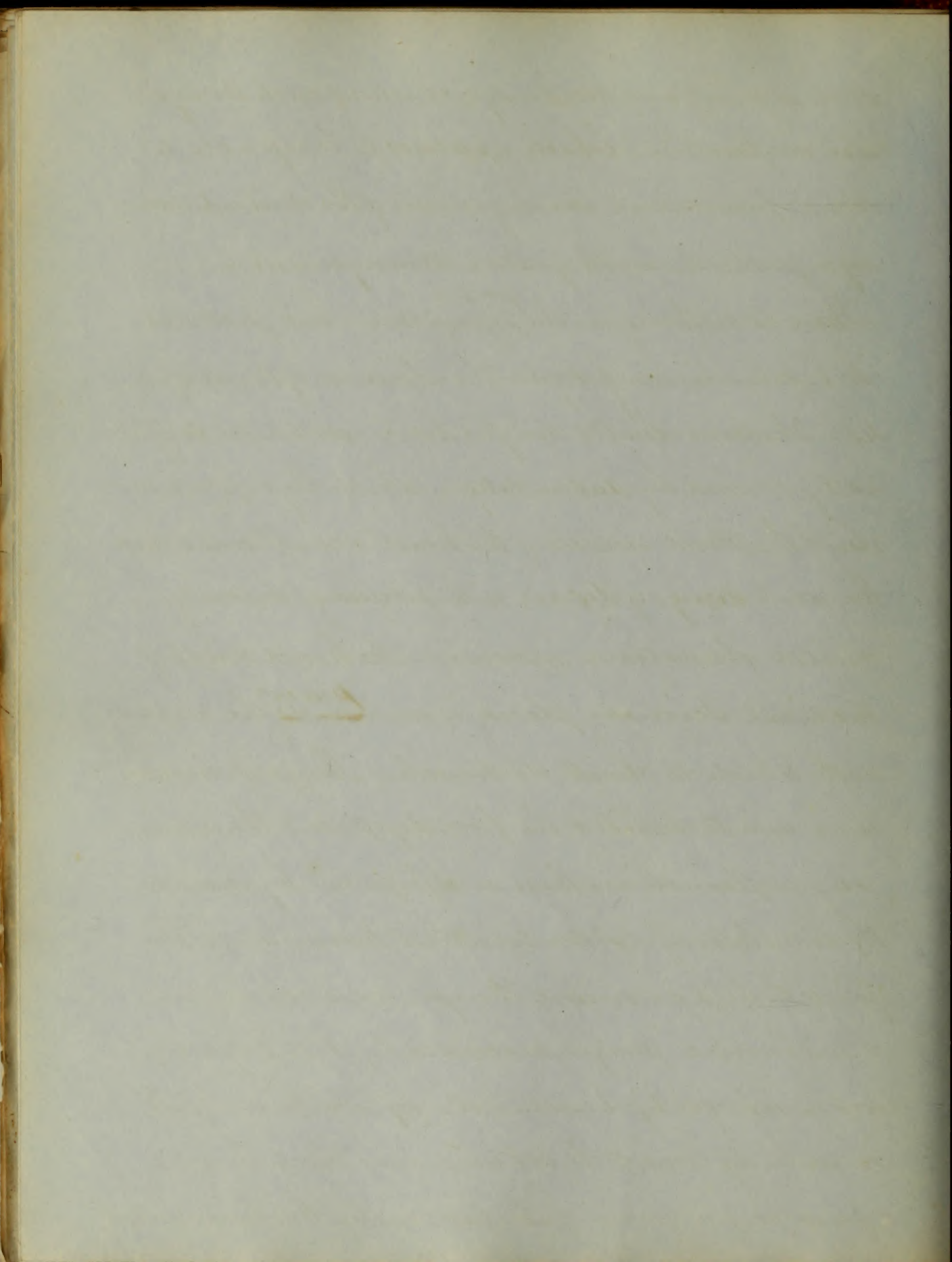
Upon application of the ear, a large amount of rude  
respiration & coarse moist crepitation were heard over a  
considerable portion of both lungs - giving evidence  
of extensive inflammation of bronchial mucous  
membrane. The vesicular murmur was entire-  
ly absent in that part of the thorax which gave out  
dullness upon percussion & in its place very aud-  
ible bronchial respiration, increased vocal resonance  
& broncophony. As the ear receded from the carinif-  
ed portion of the organ towards its summit - the fine  
crepitant crackle - pathognomonic of pneumonia - might  
be distinctly heard. occupying a considerable surface  
yet in the more incipient stage of the disease. In ad-  
dition to this - diffused over all parts of the viscus yet  
capable of the performing its function - was the purile  
respiration - proceeding from the double duty impos-  
ed by the morbid upon the comparatively healthy  
structure. Auscultation of the heart revealed a very  
more & peculiar species of disordered action - a





Sort of whiffing noise. synchronous with the sys-  
tolic contraction. which appeared to be referable to  
some functional derangement of the Mitral valve  
sympathetic with gastric derangement.

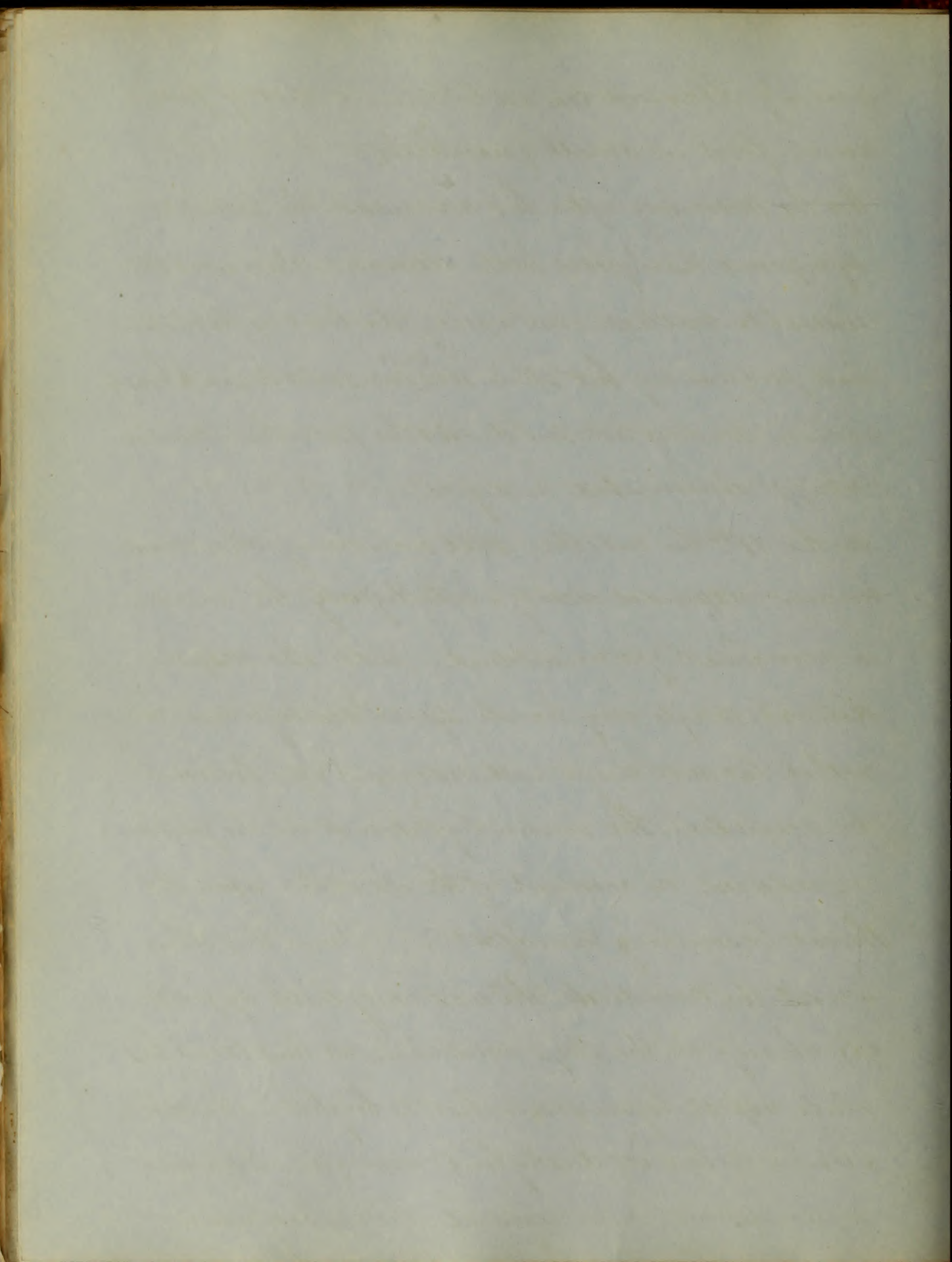
There is nothing in the <sup>group of</sup> symptoms here presented  
to bedim in any degree the clearness of the diagno-  
sis. Whatever doubts might have existed. are ~~so~~ effect-  
ually removed by auscultation, which lays open to our  
view the "secret recesses of the breast" & enables us to read  
the dark doings of disease with precision & certainty.  
Whilst observation & experience, the hand-maid of  
Medical Science. places in our ~~hand~~ <sup>power</sup> the weapons  
with which to check its march. The great indica-  
tions are to combat the fever, dyspnea & the advan-  
cing inflammation & these are fulfilled by means  
of bloodletting, tartar emetic & Mercurials. The  
first things premised therefore were venesection  
& mercurial purge. succeeded by ℞ Hydrag.  
submur. grs xij. Emet. Tart. grj. Ac. Gum. ʒj. ℞  
in pulv. viij. one to be taken every three hours &  
quarter of a grain of Tartar emetic the hour inter=



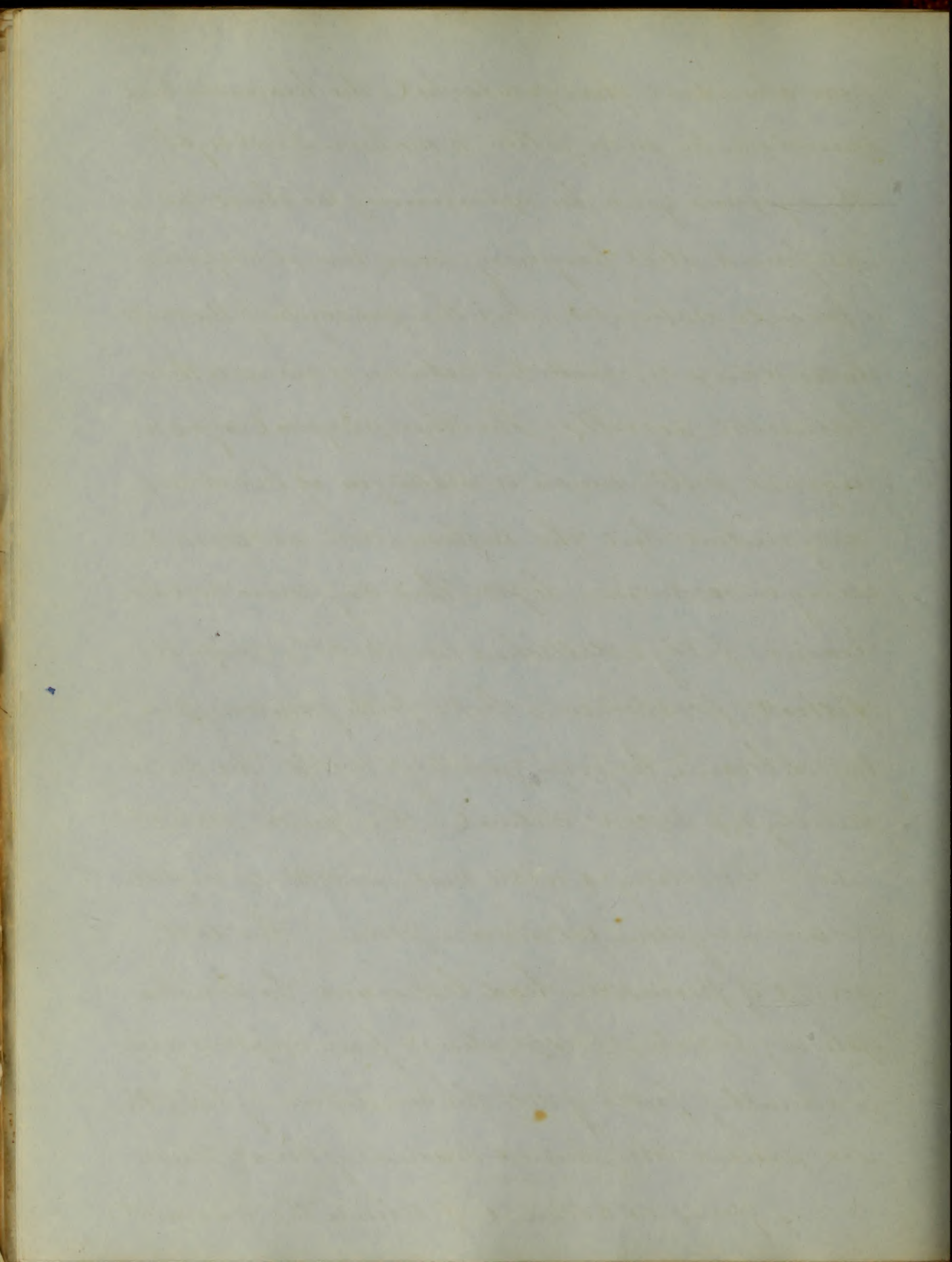
verring. Flaxseed tea ad libitum & diet of farina-  
cious food in small quantities.

On the morning after his admission the patient's  
symptoms manifested little alteration - There were con-  
siderable restlessness & anxiety. The local inflammation  
was progressing - but skin was <sup>more</sup> moist & relaxed, & heart's  
action somewhat subdued & the peculiar morbid  
'whiff' diminished in degree -

On the 18<sup>th</sup> the intellect still wandering, when roused  
however responded clearly & intelligently - the pneumonia  
remained yet unsubdued - pulse 130. respira-  
tion 40 - cough very harsh - sputa scanty & more cat-  
arrhal but still tinged with redness - Cups between  
the scapulae. The amount of Calomel in the powder  
was reduced on account of the its action upon the  
throat becoming manifest - - From this time  
until the twentieth there was very little apprecia-  
ble change in the Boy's condition - at this time his  
whole aspect began somewhat to brighten - the com-  
plexion to lose its dusky hue - respiration to become  
softer, slower & more natural - The expectoration



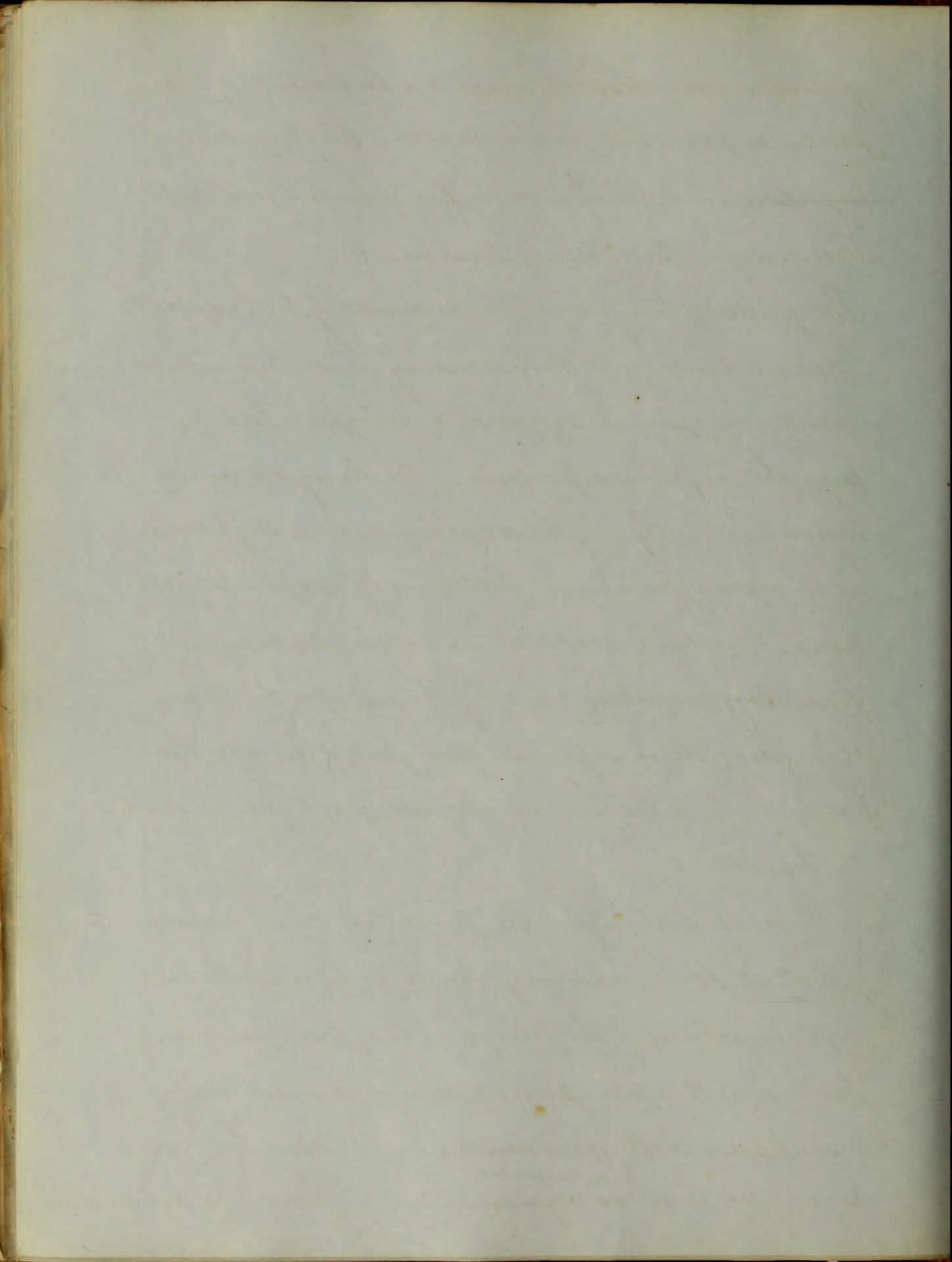
more abundant. glairy & catarrhal; the headache had  
vanished. the pulse fallen to one hundred & eight.  
& the dyspnea gone. On examining the chest the  
was found still lingering some moist crepitations  
& puerile respiration. but the presence of the crep-  
itatio redux evinced the return of air into the  
obstructed air cells. The other physical signs re-  
mained pretty much in statu quo. it but it was  
very evident that the inflammation was termin-  
ating in resolution. After this day convalescence  
became fully established. On the 22<sup>d</sup> a profuse  
critical perspiration broke forth from every pore  
urine became larger in quantity & turbid. The pulse  
scarcely six soft & natural. The sputa scant  
& glairy & untinted with rust. intellects brighter  
& nervous system calm & composed. The dull  
sound of percussion had lessened. The broncho-  
phony bronchial respiration & fine crepitation were  
gradually fading into the condition of health.  
The patient complained soreness of throat; tender-  
ness of gums. on account of which the mercurial



powders were discontinued & a lavement of Turpentine prescribed for the month. An Infusion of Eupatorium & Senega with Tar. emetic was substituted for the previous treatment.

The patient lingered about the wards of the Hospital for some time & notwithstanding his imprudence & careless exposure suffered no relapse. For some days the inflamed portion of the lung evinced remaining vestiges of the disease. Such as slight dullness upon percussion. feebleness of respiratory murmur. bronchial respiration & a small amount of fine dry crepitations. but by the aid of a few tonic remedies these sequelae soon faded away & the patient left the house almost perfectly restored to health.

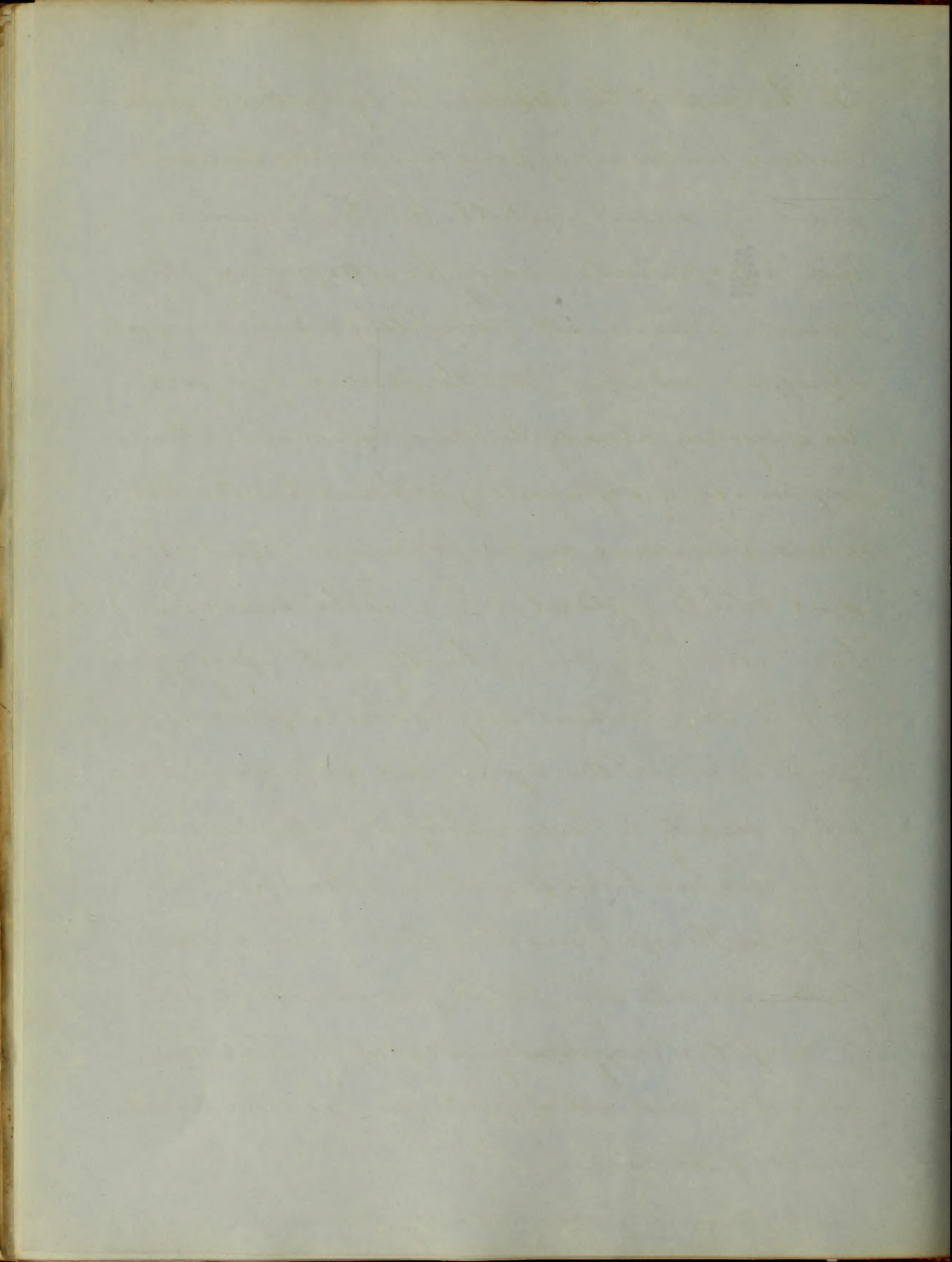
There is nothing in the preceding case to distinguish it above ordinary faint, uncomplicated inflammation of the lungs - or to afford opportunity for remark upon points which are not daily discussed & well understood. It may be regarded as a type case <sup>with respect to</sup> ~~as regards~~ severity, progress & duration.



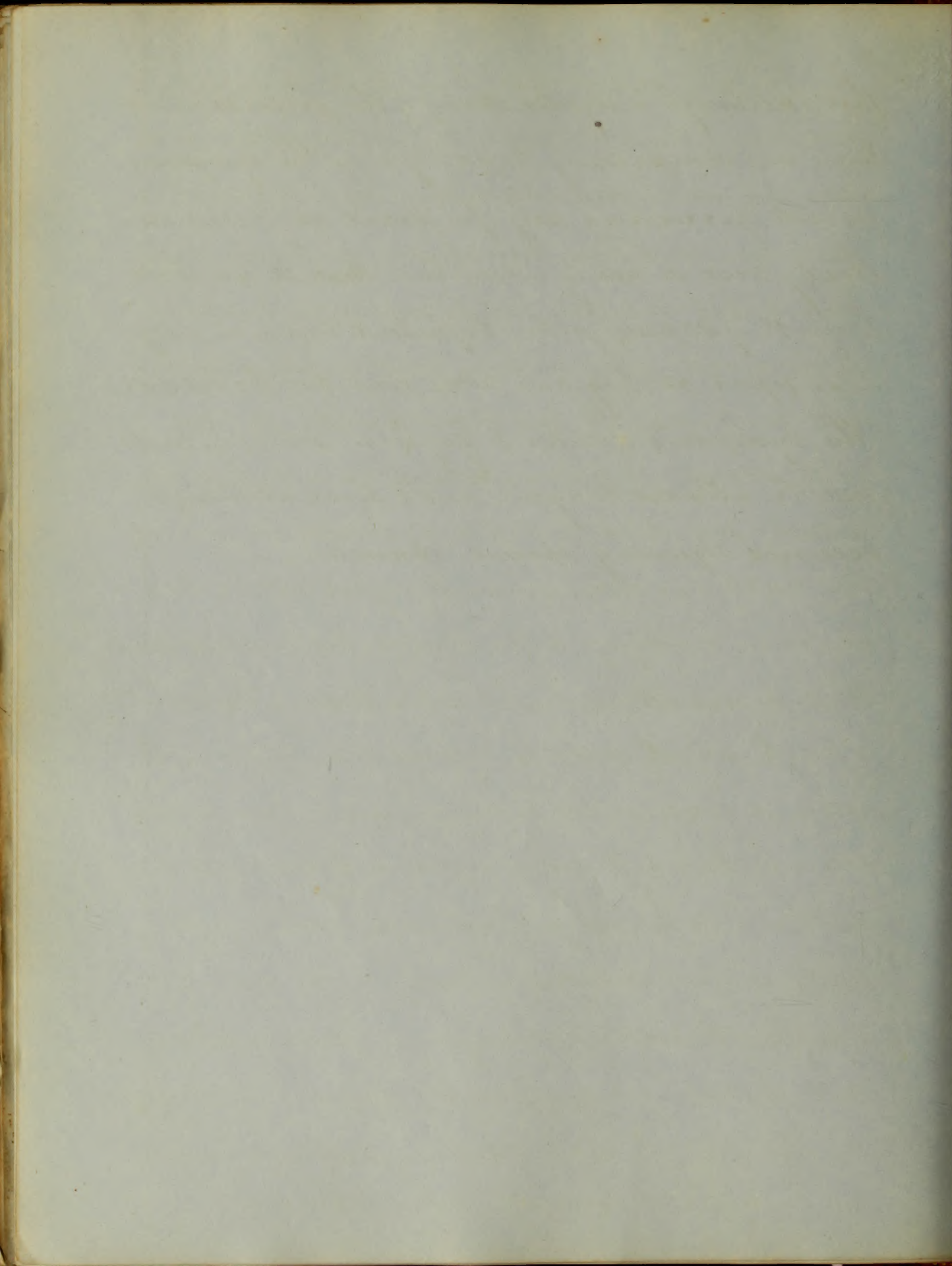


In the onset of the disease. The symptoms of Gastro-intestinal irritation appeared to supersede the usual mode of attack by chill - but this occurrence did not appear to modify the after progress of the disease & was in all probability a more incidental affair resulting from the presence of ingesta in a system already to some extent under the influence of inflammatory action & that the chill would have come on, but for the more violent accident which replaced it -  $\frac{1}{2}$ . As the disease had been advancing triumphantly for the space of four or five days without any barrier to oppose its progress - of course the system did not respond so happily & readily to the antiphlogistic treatment as if the case had been seen at an earlier date - the prognosis therefore was somewhat grave upon the sixth or seventh day - but the judicious Medication so promptly & energetically adopted by Prof. Chew - soon removed all apprehension as to the final result of the case -

It may be parenthetically remarked -



that. although a regular diary of the patients condition was scrupulously kept. yet, as the symptoms on each ~~or~~ ~~existing~~ day for several days consecutively were so nearly identical. ~~that~~ it was held a work of supererogation to present them in a regular report as they were noted down at the bed side. The symptoms detailed to day (as an instance) - would not be alluded to again. until some alteration occurred requiring special observation -



The following case is that of an Irish Boy - aged  
seventeen years - possessing a frame rather indic-  
ative of a delicate constitution - a contracted chest,  
dark hair, dark eyes - complexion of a dusky florid  
hue & that peculiar pearly cast of conjunctiva  
so frequently met with in persons of the phthisi-  
cal diathesis. He was born of healthy parents  
in the county of Galway, Ireland - where he had been  
actively employed in some agricultural pursuit.  
His health had been habitually good, until a week  
at sea on his voyage to the United States - about which  
time he was attacked with a troublesome catarrh  
& cough, which could be referred to no appreciable  
external cause as his accommodations were comfort-  
able & he had suffered no exposure to inclement  
weather. He landed in Baltimore about eight  
weeks since & enlisted himself in the service of  
a tallow-chandler residing near Canton - his cough  
still persisting & symptoms of dyspnoea beginning  
to manifest themselves. Being active & industri-  
ous - he applied himself to his business with energy

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but being much exposed to the vicissitudes of heat  
& cold, his indisposition increased to such an alarm-  
ing extent as to compel him to desist from his em-  
ployment & solicit medical advice - in quest  
of which he applied for admission into the Balt-  
imore Infirmary on the tenth of April - 1841, hav-  
ing been unwell for two months & now complain-  
ing of - Exhausting night sweats which had existed  
for some time - distressing cough & dyspnea inabil-  
ity to lie upon left side - considerable fever rather  
irritative than sthenic - a pulse small somewhat  
compressible & numbering one hundred & twenty  
- Skin relaxed & moist - tongue coated with a slight  
stratum of fur - appetite unimpaired & a feeling of  
general ill health without any great degree of lo-  
cal misery - The symptoms of thoracic disease  
developed by physical examination of the chest,  
were - excessive coarse mucous crepitant râle, com-  
bined with every variety <sup>of grade</sup> of sibilant & sonorous rhon-  
chi evincing extensive & very aggravated Bronchi-  
tis occupying both lungs - With exception of a

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Small amount of fine, pneumonic crepitation  
~~detected~~ just beneath the left nipple, these were  
the only morbid sounds that the ear could detect -  
for whatever others might have existed - were so obscurely  
masked as to elude the minutest examination -  
The comparative resonance of the two lungs - upon  
percussion presented small difference saving the  
posterior & inferior portion of the left lung, which  
yielded dull sound for space of one third - whether  
owing to pneumonia or pleuritic effusion? probably,  
the latter judging from the dependent position & the  
absence of vocal vibration - It should have been  
remarked previously, that the expectoration was most  
profuse in quantity, characterized by the viscid glair-  
iness of bronchitis intermingled with an occasio-  
nal dash of the rusty sputa of pneumonia. —

From consideration of the group of symptoms above de-  
tailed - The <sup>thorough</sup> diagnosis of the case was not ~~very~~ rendered  
very exact or certain - They all afford undoubted evidence  
of intense inflammation of the bronchial mucous mem-  
branes & in some degree of the paraneuritic lob-

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cles of the lungs themselves, but whether these lesions do ~~not~~ exist as a mere result of more deeply-seated & serious complication is somewhat problematical.

The very steady-persistent, onward progress of the symptoms from its inception to its present crisis. The night-sweats, debility & emaciation & some few other collateral circumstances, would appear to furnish some probability of tubercular deposit. But all these results frequently occur from protracted inflammation of the bronchial tubes. But, whatever may be the true condition of the case - whatever may be the cause of the existing inflammation - the most obvious indications for treatment are to combat the symptoms which constitute the more immediate danger of the case & as the adynamic condition of the patient's system was not such as absolutely to prohibit the usual antiphlogistic method - a few cups between scapulae (observing their effects) & Tar. emetic every second hour were presented by Prof. Chew - which & upon the second visit had succeeded reducing the action of the heart, ameliorating somewhat the cough & dyspnea, clear-

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ing the Sputa of its rusty-colored tint & producing a most profuse cutaneous transpiration. After a few days, nothing having occurred to contraindicate the course adopted a second application of cups was made & the tartar emetic increased until some of its specific influences were observed. On the fifteenth being the fifth day since his admission, cups were again applied & an Infusion of Eupatorium with Hyoscyamus added to the preceding agent. On the following day the condition of the patient was somewhat improved. He had slept well. the thoracic symptoms had in a degree subsided. but there appeared to be little or no effort at recuperation. ℞ Pil grs iij  
Solas. nit. zij lout et Potas. grj. Misce et divide  
in oct. pil. pulv. unus quaque secunda hora sumendus  
Comp. Chalk mixture if diarrhea should occur.

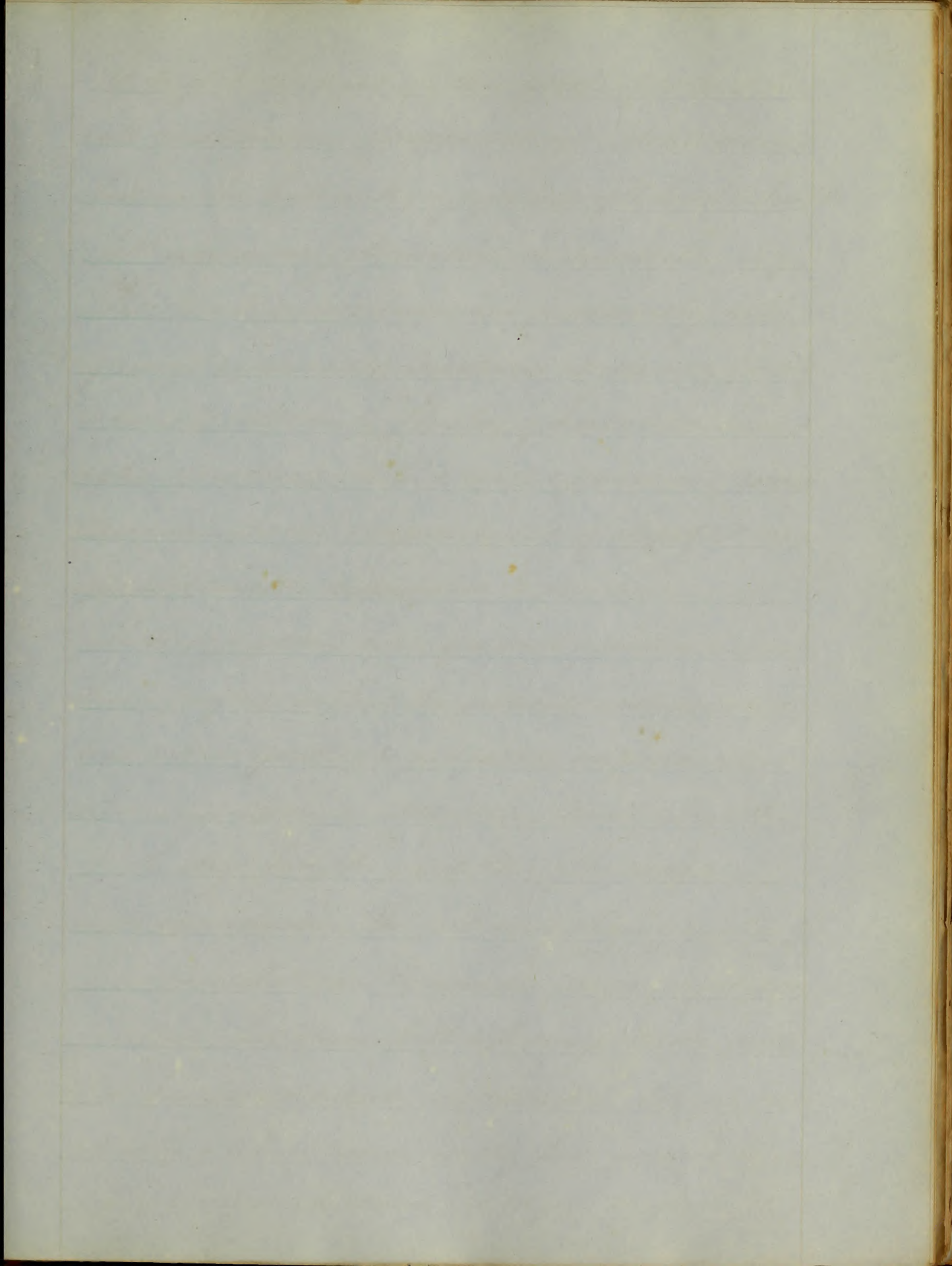
The signs of improvement which for a short time revived hopes, soon gave place to those of prostration which now became so urgent as to demand attention & recourse to sustaining agents was the only hope now left of enabling the failing powers of life to bear

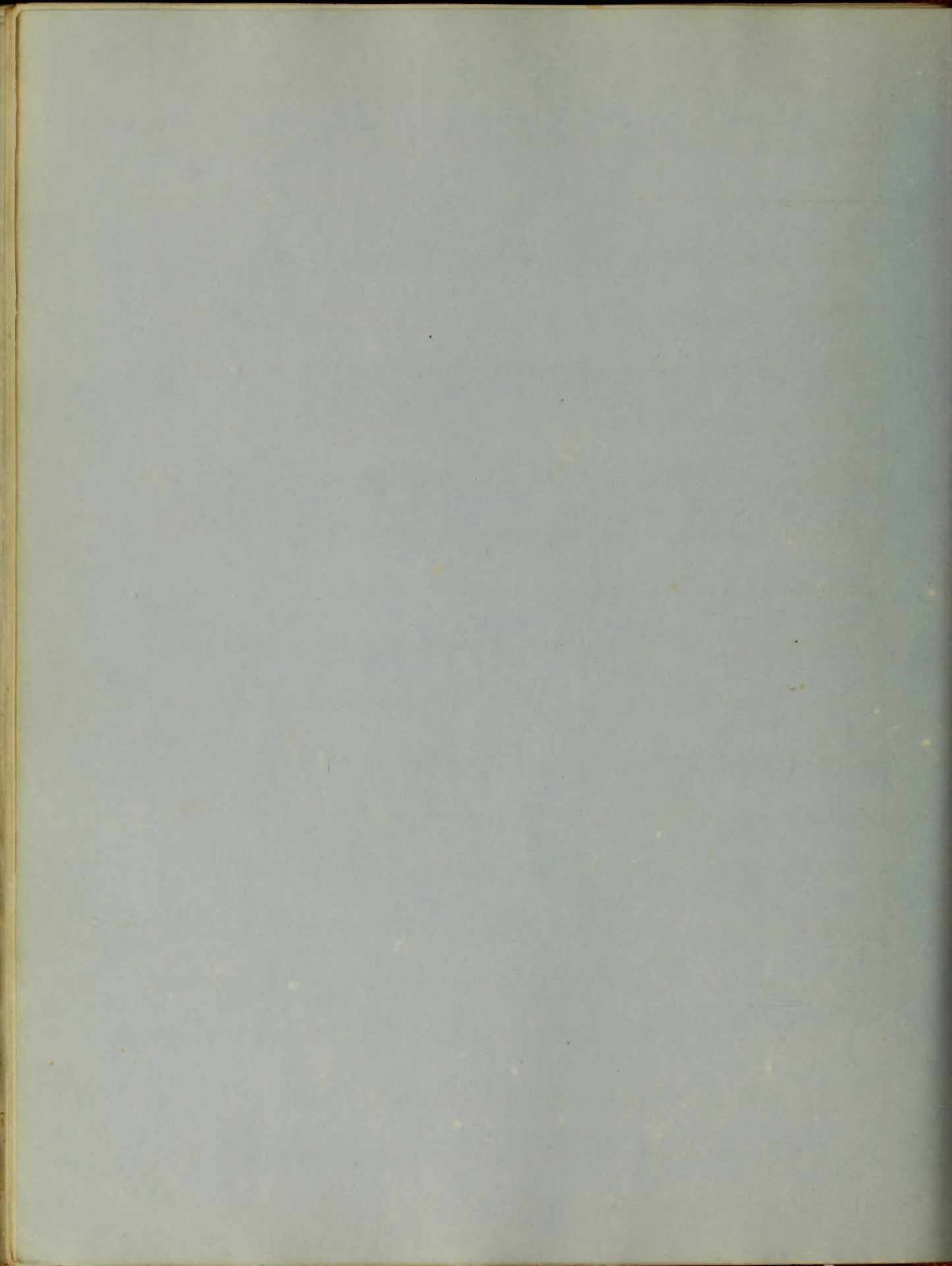


— Immense adhesions of pleural surfaces at various points & between these large accumulations of serum. Every portion of substance of the lung was infiltrated with tubercles in every stage from incipient formation to that of softening & suppuration. A large cavity in middle lobe of right lung with smooth, membranous parietes & another at the base of left whose walls were rough & jagged. The former giving evidence of long standing—the latter of recent formation. One of these cavities was filled with the peculiar, dark colored fluid expectorated during life. The mucous membrane lining the air passages was also much inflamed—with occasional patches of tubercular ulceration upon its surface— & spots of lobular pneumonia scattered throughout the pulmonary tissue.

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A Negro Girl - aged fifteen years - of rather delicate constitution - flaccid muscles - solid brain - but in the habitual enjoyment of tolerable health - fell under my observation in November - 1791.  
Her malady commenced insidiously - with general uneasiness - lassitude - soreness of throat & limbs - alternate flushes of heat & cold - headache - epistaxis - stupid dull expression of countenance - thirst - impairment of appetite - nausea - abdominal disturbance & diarrhea -

These symptoms were gradual & continuous in their progress - so that the patient's indisposition was not so great as to necessitate confinement or demand special attention until about the fifth day from the inception of the disease.

Upon examination the following characteristics of <sup>subtlett tendunt</sup> fever were observed - Headache, stupor, injected conjunctiva - hot skin, full soft compressible pulse - one hundred & twenty in number - tongue covered with a white moist pasty fur, pointed at its apex & reddened round its edges - anorexia, slight

The first part of the paper is devoted to a  
general statement of the facts of the case  
and to a statement of the questions which  
arise for consideration. The second part  
contains the arguments of the counsel for  
the plaintiff, and the third part contains  
the arguments of the counsel for the  
defendant. The fourth part contains the  
opinion of the court, and the fifth part  
contains the judgment of the court.

epigastric tenderness, Meteorism of abdomen, gurgle & some pain upon pressure in the right iliac fossa. & diarrhoea. Three or four liquid albine discharges during twenty four hours. There was in addition. Night cough & expectoration with some of the physical signs of bronchial inflammation.

The aggregation of the foregoing symptoms. afford strong probability, without any one of them being determinate, of the case being one of Enteric fever.

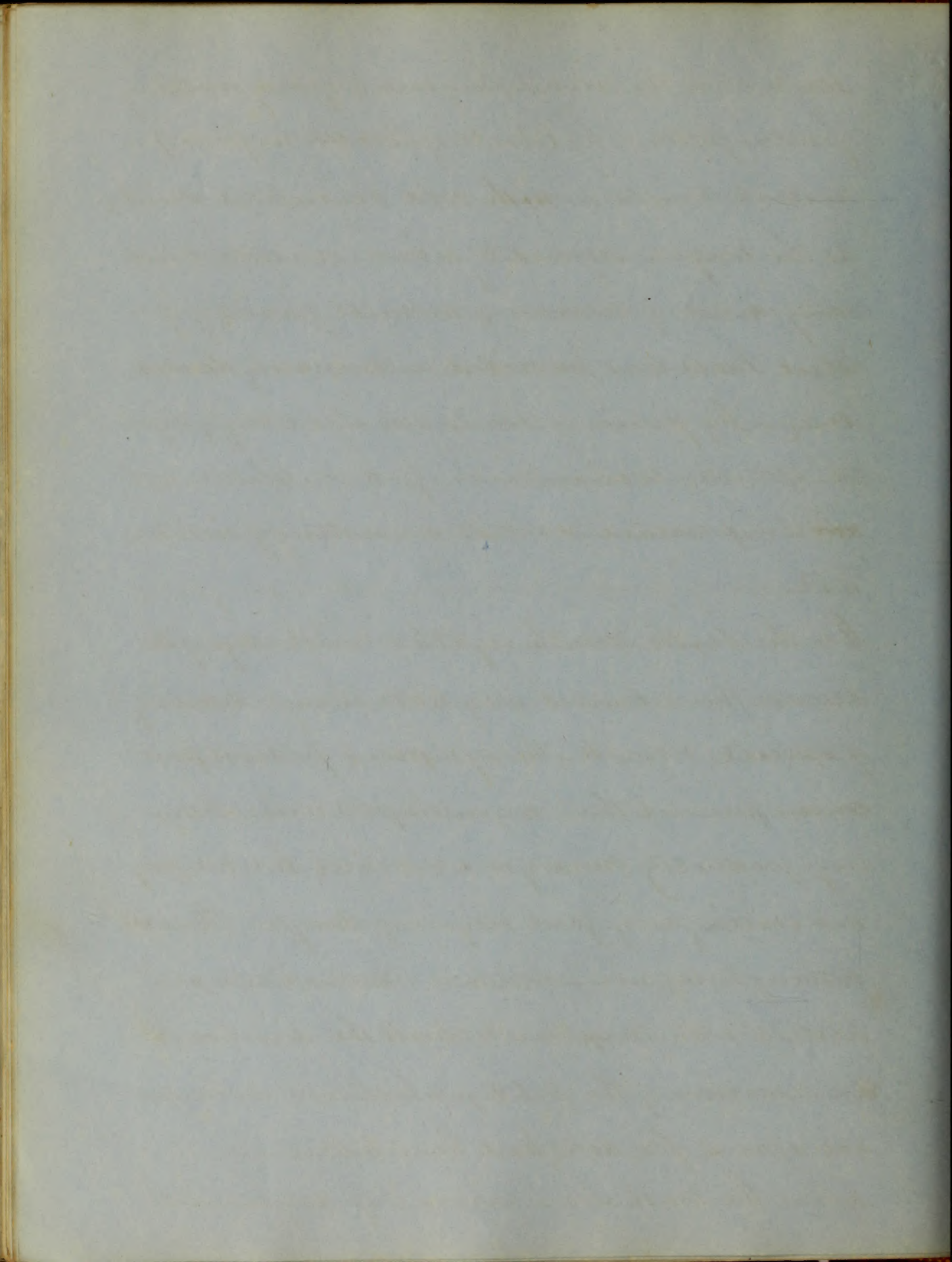
The gurgle thought to be stated by some to be pathognomonic of this disease is not so in reality, & appears only to be valuable as a concomitant with other circumstances. The rose-spot eruption which is diagnostic, was of little avail in the present instance, for if it did exist. like the rose of the Egypt, it was "born to blush unseen" upon the dusky hide of Leprie, & Sable daughter.

There was no indication for active medication & the method of treatment adopted therefore was soothing & expectant. A small laxative dose of Magnesia was prescribed. to correct the nau-

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sea & clear the alimentary canal of any irritating  
fecula - followed by Citrate of Potassa in form of  
Neutral mixture - with cold acidulated drinks.  
As the tongue seemed to evince considerable de-  
rangement of secretions - a small quantity of  
Blue Mass was prescribed in minutely divided  
doses - Hygienic measures were also strongly enjoined -  
attention to cleanliness - good ventilation, cool  
~~air~~ temperature - & a diet consisting of rice - ma-  
ter.

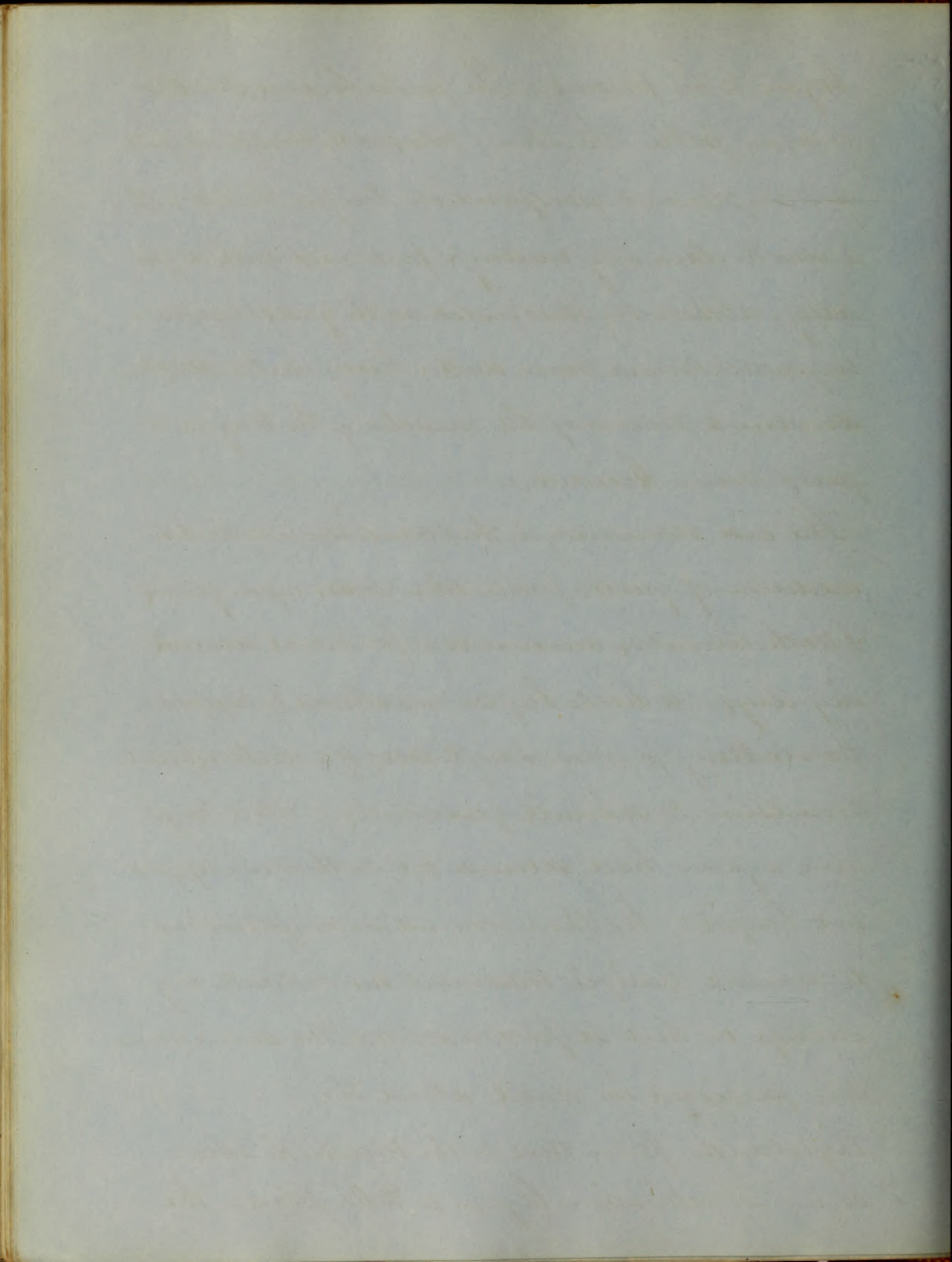
On the sixth, seventh, eighth & ninth days of the  
disease. There occurred very little change deserving  
of special remark -; the symptoms for most part  
~~continued~~ pursued their uninterrupted course becom-  
ing gradually more grave & serious - but not prog-  
nosticating any great degree of danger. There was  
nothing to require additional treatment except a  
little chalk mixture to check the diarrhoea &  
& a cessation of the pil. Hy. which was discontinued  
after a few doses had been taken -.  
About the tenth some evidences of a dynamic be-





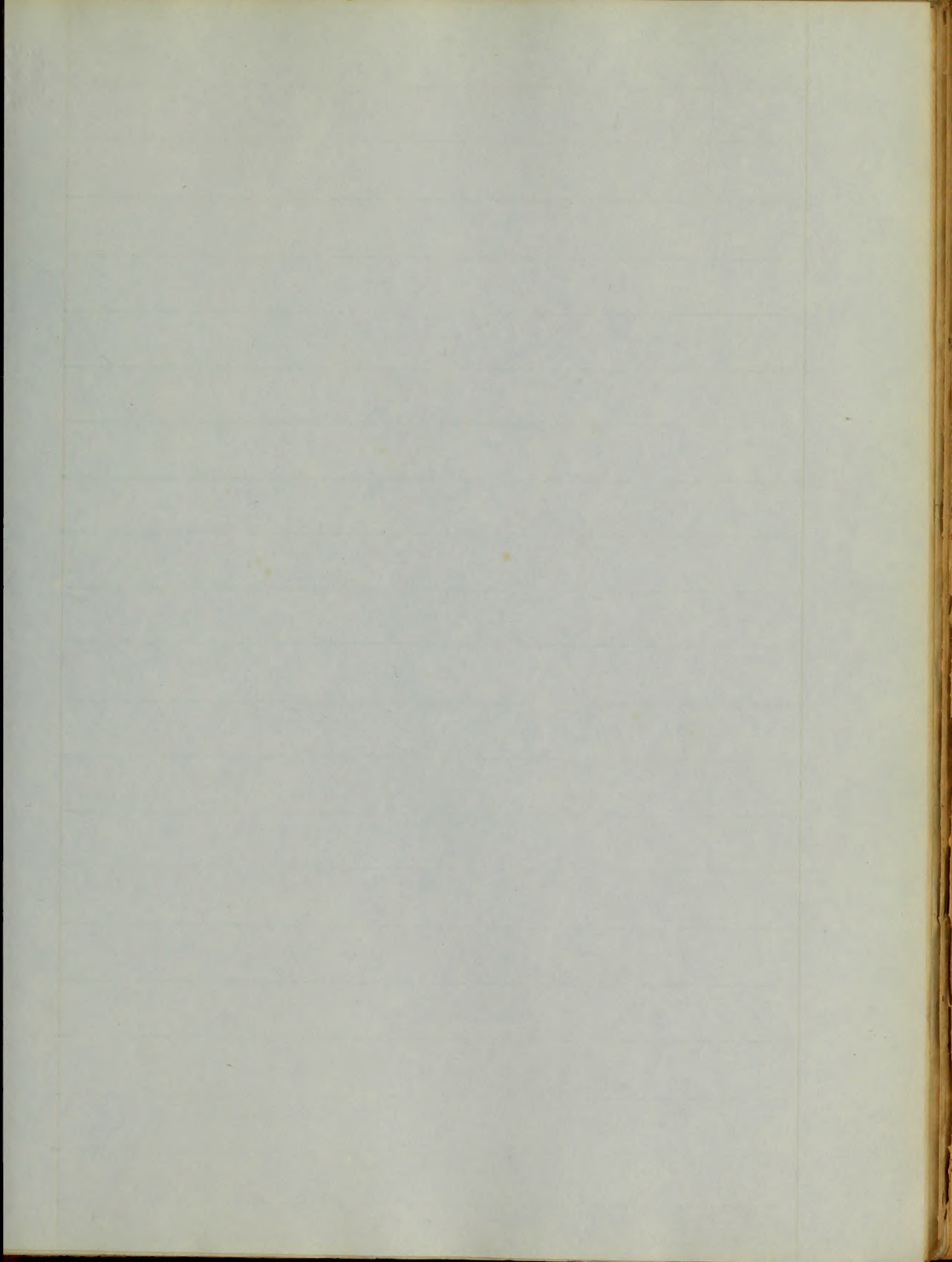
began to be present. The pulse became smaller & more feeble - The skin relaxed & moistened with an unpleasant perspiration - tongue filled with a dark slummy coating & protruded with difficulty - abdomen distended with gases - eyes more injected - mind more dull & heavy - subsultant tremor & tremor of the muscles of the tongue & jaws more decided -

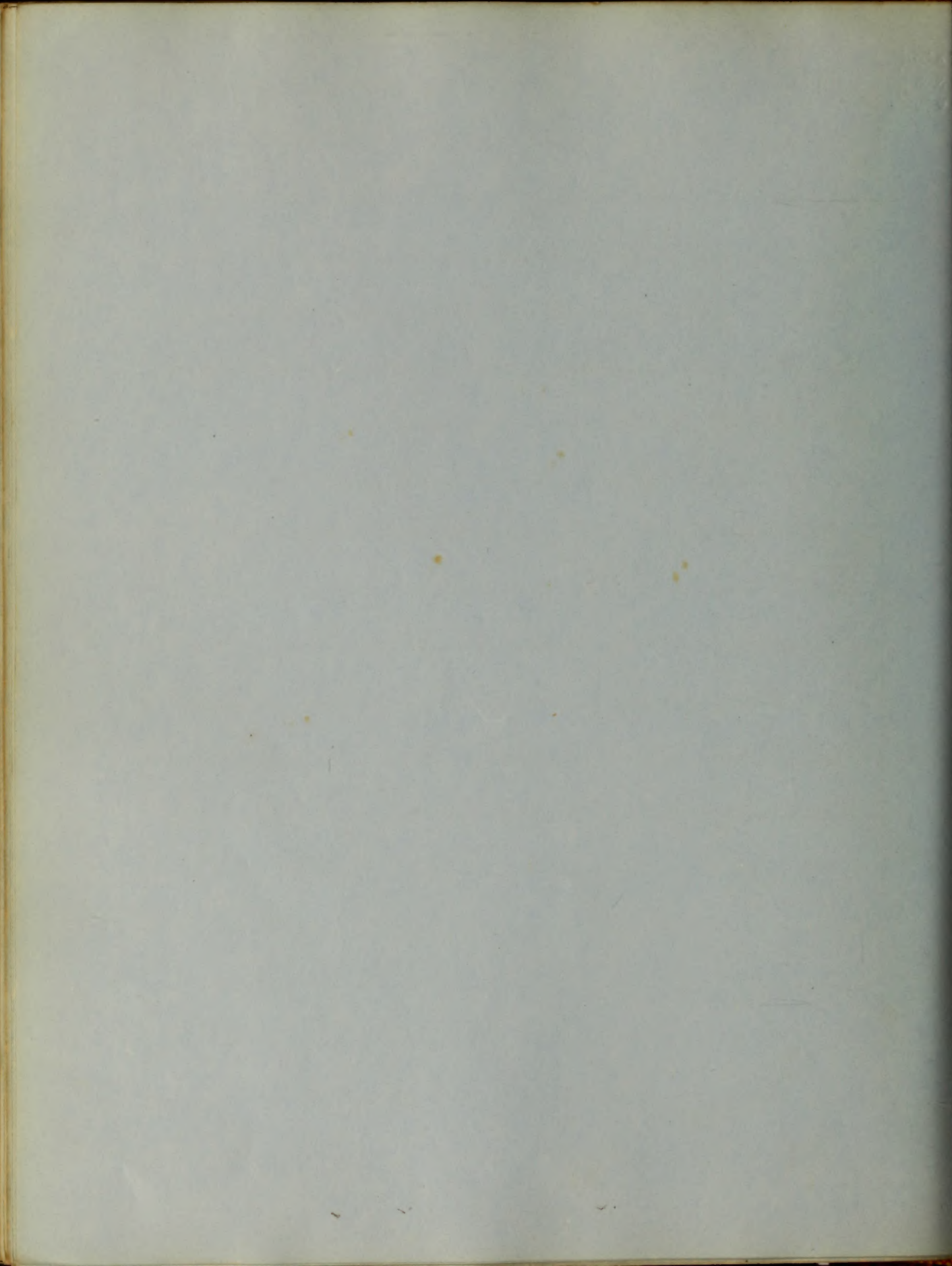
The case remained in this condition with the addition of greater prostration - sordes upon gums & teeth - tinnitus aurium &c - for several succeeding days. A little beef tea was allowed to support the sinking powers - small doses of a leucorrhiniate emulsion - & minute quantities of Blue Mass were again had recourse to with some apparent benefit: As there occurred no complications to demand specific treatment - nor indicate any change in that at first adopted - The same course was persisted in until about the Eighteenth - from that to the Twentieth when some amelioration began to take place - The

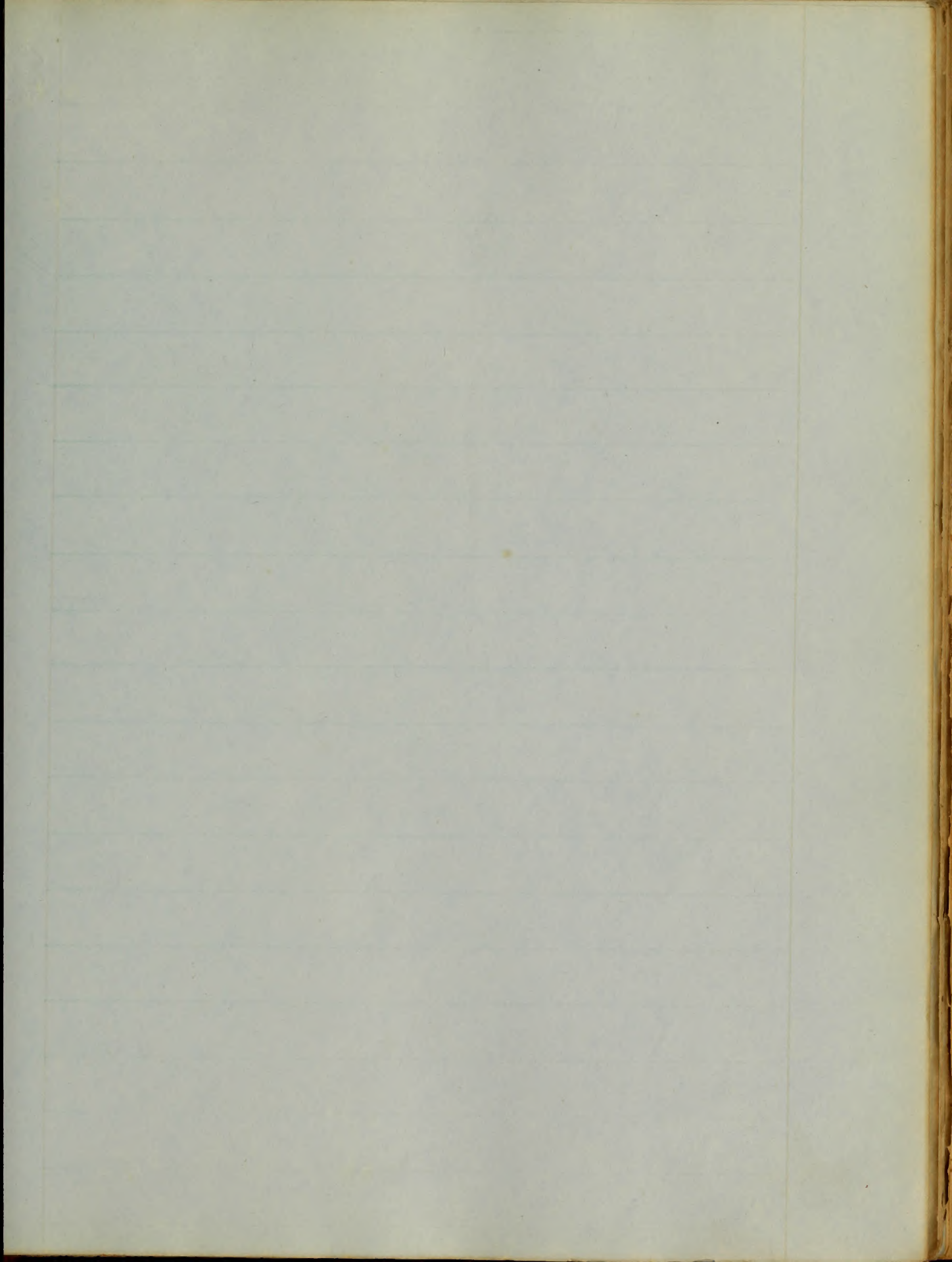


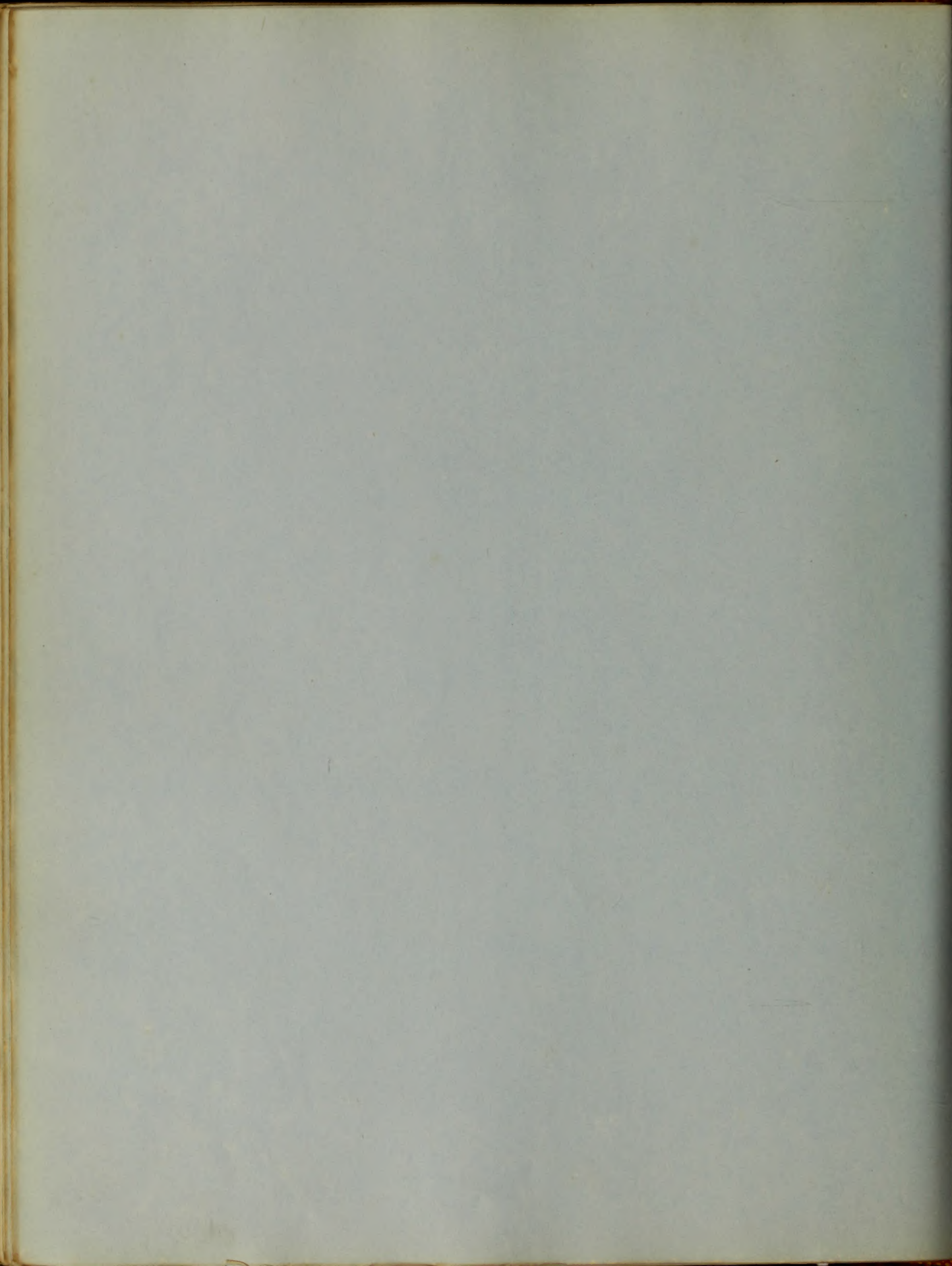
Countenance assumed an expression of more sol-  
icitude as to surrounding objects. The tongue began  
to throw off its coating from the borders. The skin  
became more pleasant & natural. pulse fuller  
slower & more regular. abdominal distension  
subsided. A strong desire for food returned & all the  
secretions commenced to reassume their natural  
character. Convalescence having now set in  
& nothing occurring to restrain its progress. the  
restoration to health was rapid & permanent; the  
functions in an unwonted short time. all return-  
ed to their offices with as much promptitude &  
regularity as if nothing had intervened to dis-  
turb their equilibrium.

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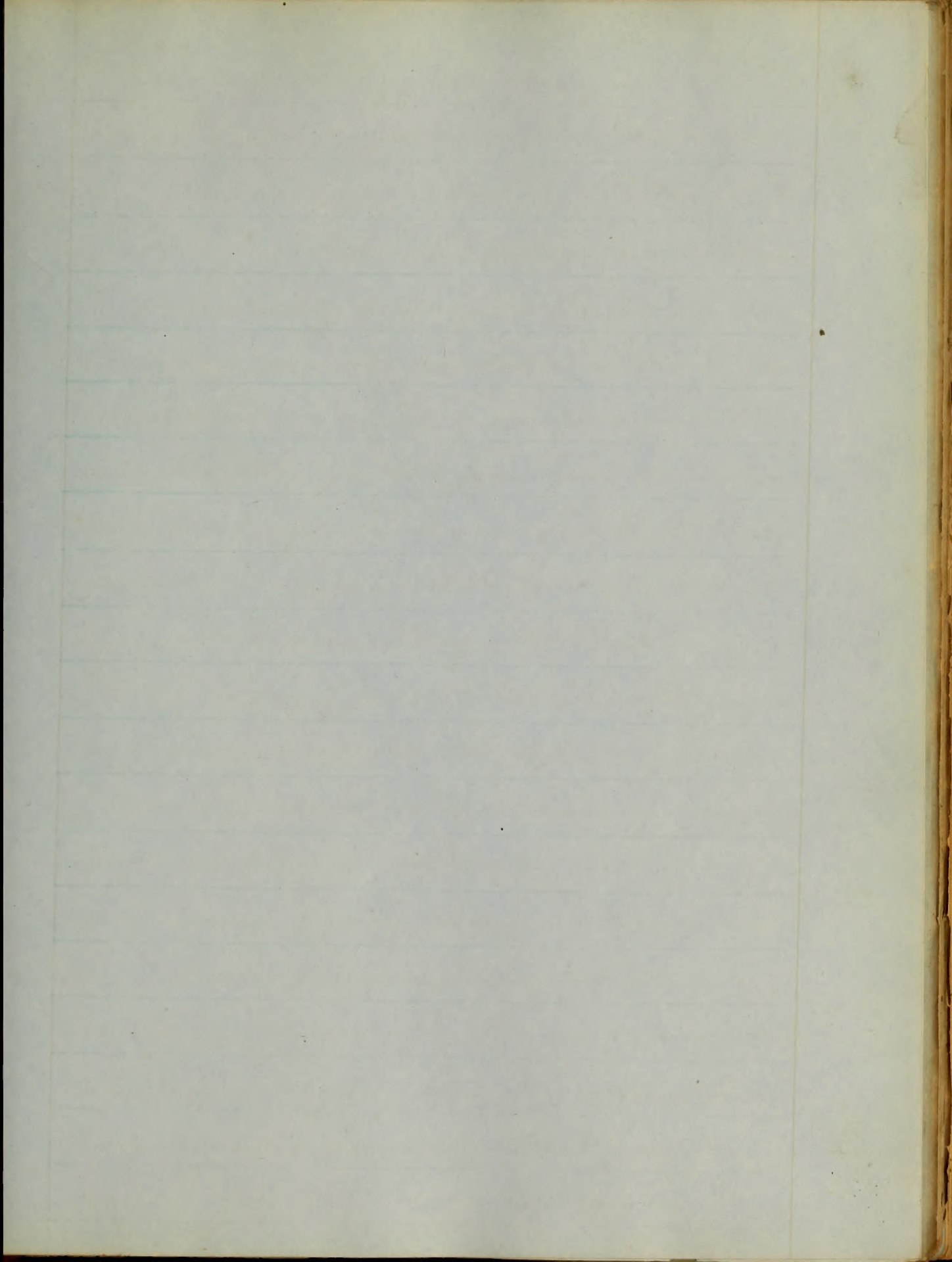


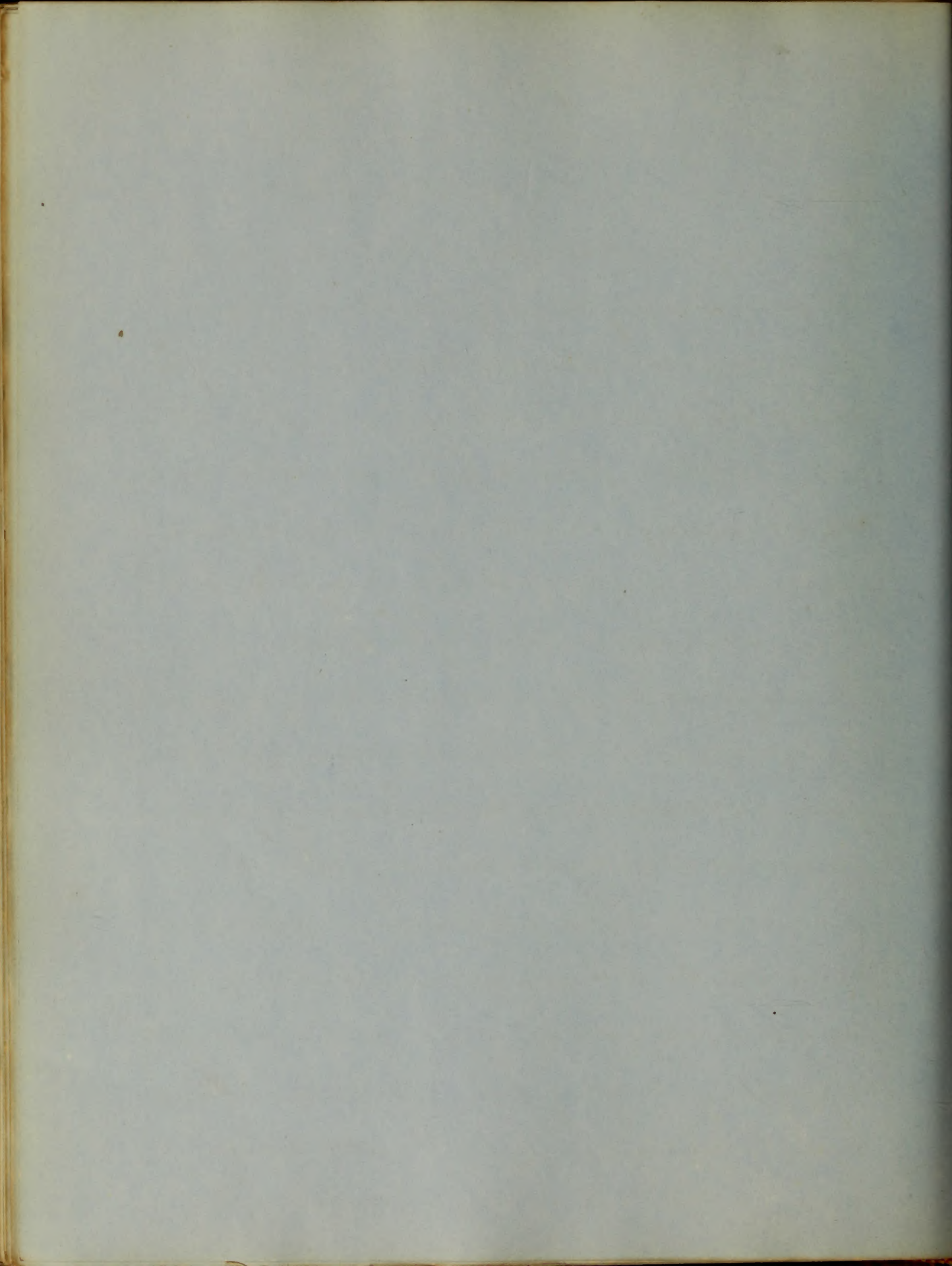












An Irish Girl - fifteen years of age - with light hair. blue eyes. & a predominance of the sanguinous temperament entered the Baltimore Hospital in December. without any noticeable preliminary warnings - on the day preceding her admission - she was taken with a very decided chill - succeeded by excessive fever. headache, hot skin - flushed face - great thirst - nausea & vomiting - violent pains in back & limbs - considerable muscular debility & after a short time soreness & swelling of the throat.

Sunday - the day of her entrance - The agonizing pain in the loins & limbs have been replaced by sensation of soreness & contusion - The remaining symptoms mentioned above are continuing with a more & more intense degree of violence & superadded to them are the peculiar unmistakable rash of Scarlatina - diffused upon face, neck & arms - a burning, itching, tingling pain of the cutaneous surface - increased soreness of throat & redness of fauces - a suffused watery appearance of conjunc-

The first part of the paper is devoted to a  
general survey of the subject, and to a  
discussion of the various theories which  
have been advanced to explain the  
phenomena. It is shown that the  
theory of the origin of life is  
still a matter of conjecture, and  
that the evidence in favor of  
the spontaneous origin of life is  
not yet sufficient to establish it  
as a fact. The author concludes  
that the origin of life is a  
mystery which cannot be solved  
at present, and that the only  
reasonable hypothesis is that of  
the spontaneous origin of life.

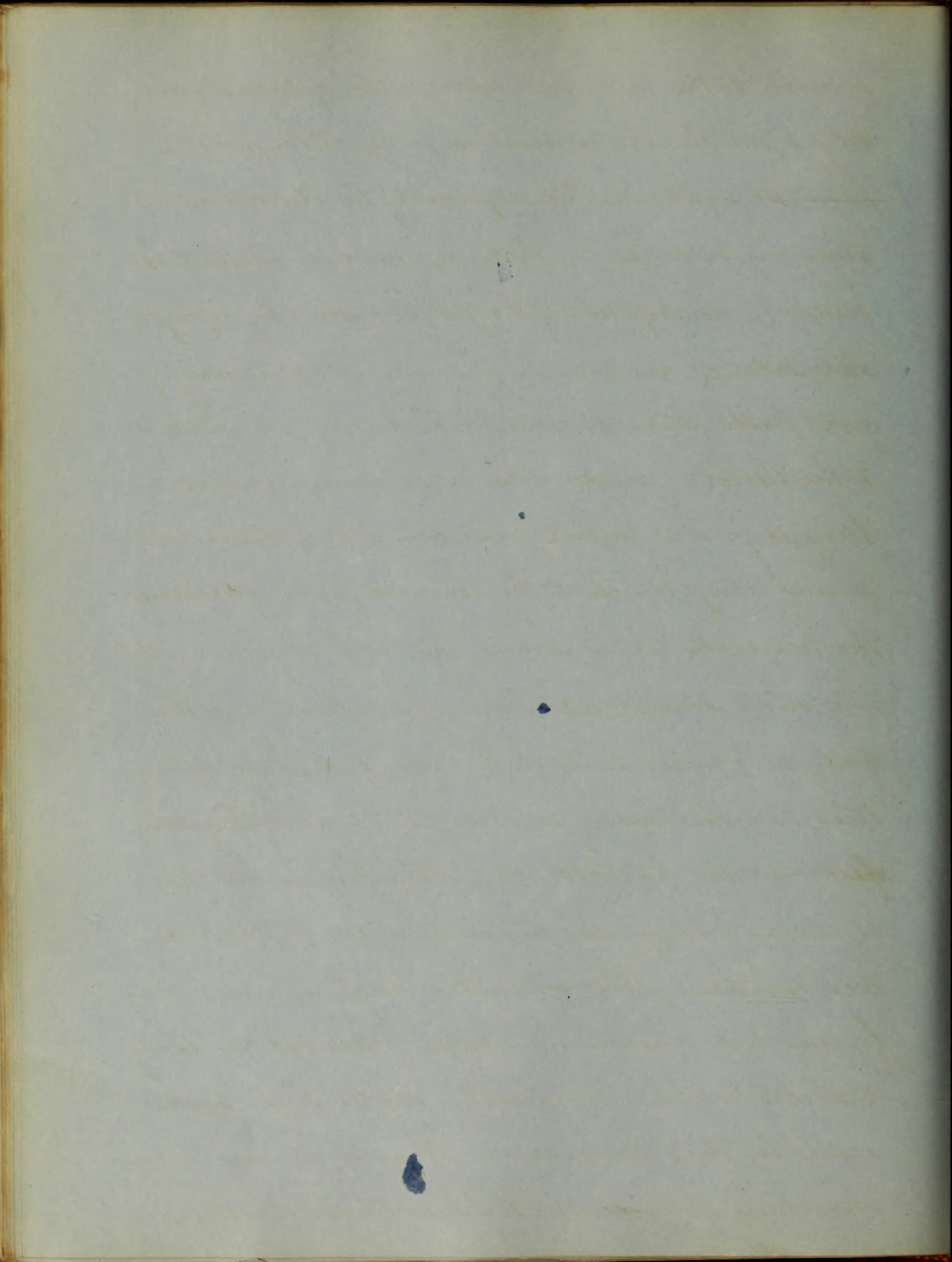
tiva. but not to the same extent as is common in the  
Cecilia. The tongue is covered with a yellowish white  
coating of fur. projecting through which may be seen  
the inflamed & elevated papillae presenting an ap=  
pearance very analogous to that of a fully ripe straw=  
berry overspread with a layer of cream. The pulse is  
full & very frequent numbering one hundred & thir=  
ty strokes in the minute. intellect responds clear=  
ly when aroused but has a fixed disposition to  
stupor & wandering when undisturbed. bowels  
are constipated. urine scant & high colored.

Diagnosis. Scarlet fever. The manner of incep=  
tion. The affection of throat. The appearance of the tongue  
The extraordinary rapidity of pulse & more than <sup>these</sup> ~~all~~  
The peculiarity of the rash. its bright diffused scar=  
let hue. & its appearance upon the second day. all  
combine to place the diagnosis beyond the shad=  
ow of doubt. As the disease is the product of  
a specific virus fermenting in the blood. and as  
there is no remedial agent with which to annul  
its power. we must address our treatment as



possible to the mere palliation of the symptoms & rely upon the "vis medicatrix" to expel the poison from the system. Consequently the objects had in view are restoration of the suppressed intestinal excretions - mitigation of the febrile action by refrigerant salines - acidulated potions - a sufficiency of cool fresh pure atmosphere - unodyne fomentations to the throat - mild bland farinaceous diet -

Monday. The general condition of the patient corresponds very much to the account given yesterday; the headache is less severe. The rash is growing deeper & more scarlet upon the upper portions of the body & is extending to the trunk & lower extremities - concentrating its violence about the joints - palms of the hands & soles of the feet - giving rise to swelling & stiffness in those regions - there are also in those parts where the rash is most strongly marked, numerous crops of <sup>those</sup> small milium vesicles which frequently make their appearance in this disease. The respirations is increased in frequency & the heart's contractions



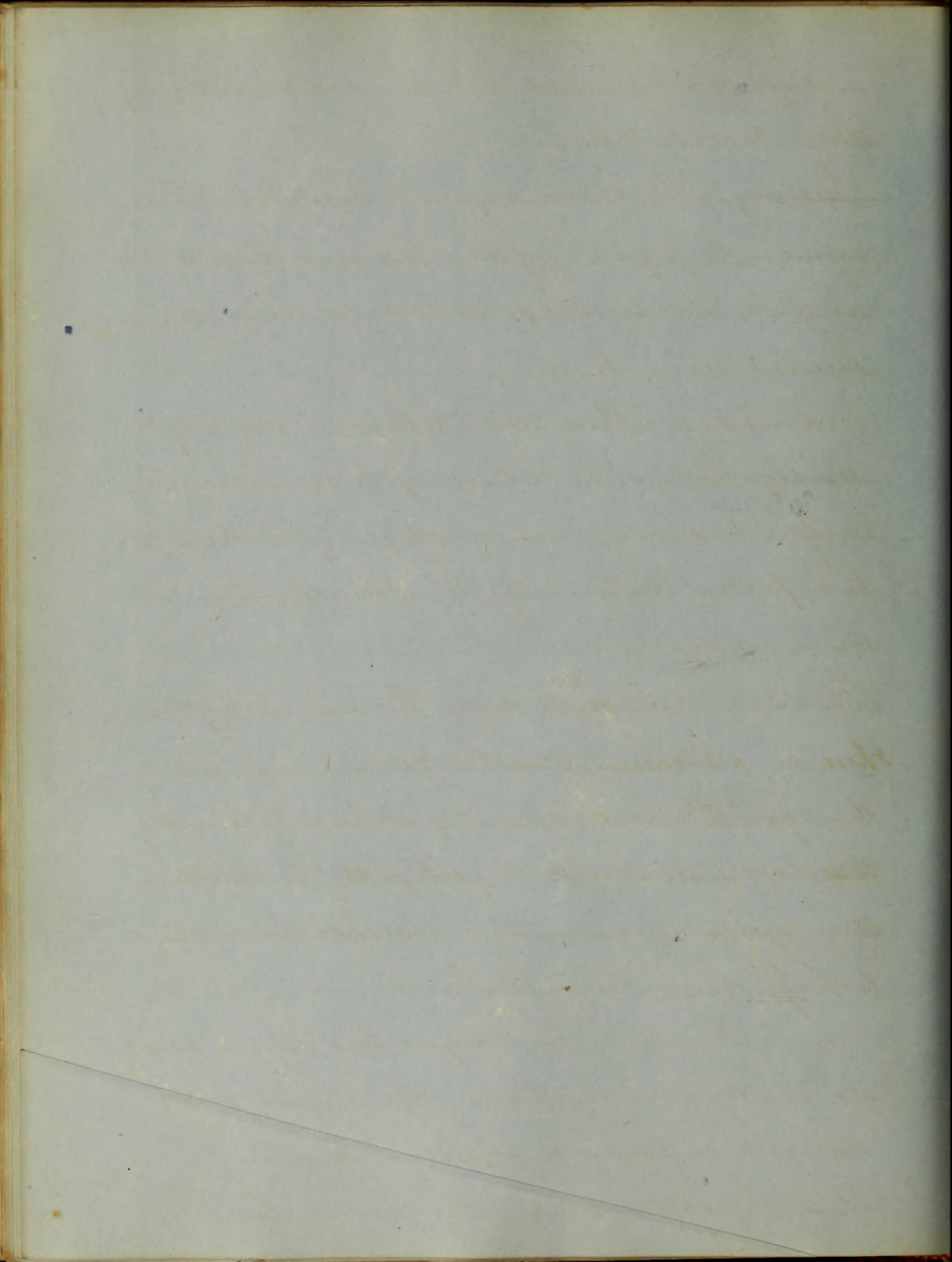


so distressingly rapid as to demand the aid of Digitalis to control them.

Tuesday. The disease appears to have attained its acme; the frequency of the pulse is somewhat reduced by the digitalis. nothing further demands special remark.

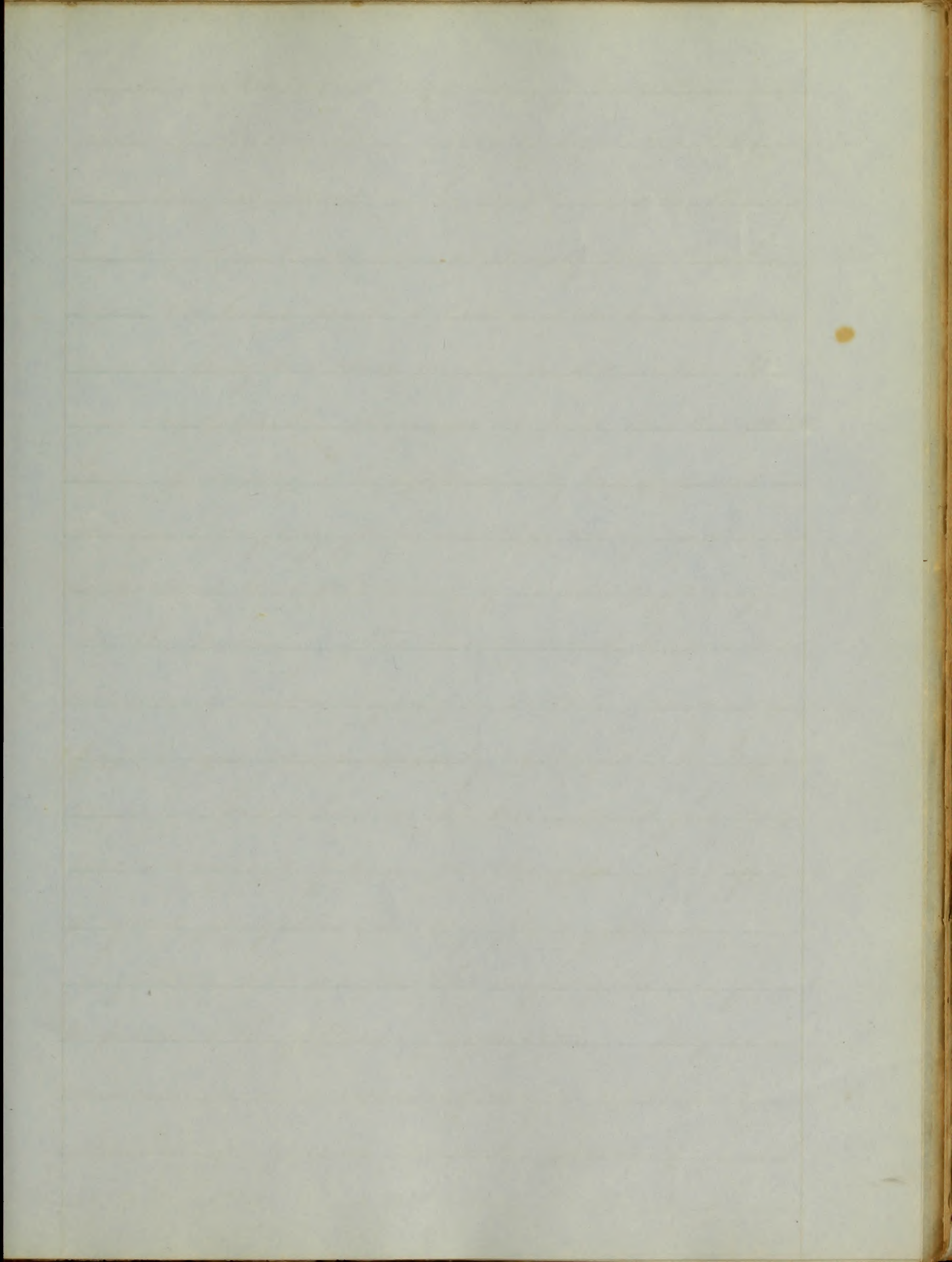
Wednesday. There seems to be some very slight mitigation in the violence of the symptoms. the tongue has commenced casting its <sup>fur</sup>. The pulse has fallen to ninety & the nervous system is more calm &c.

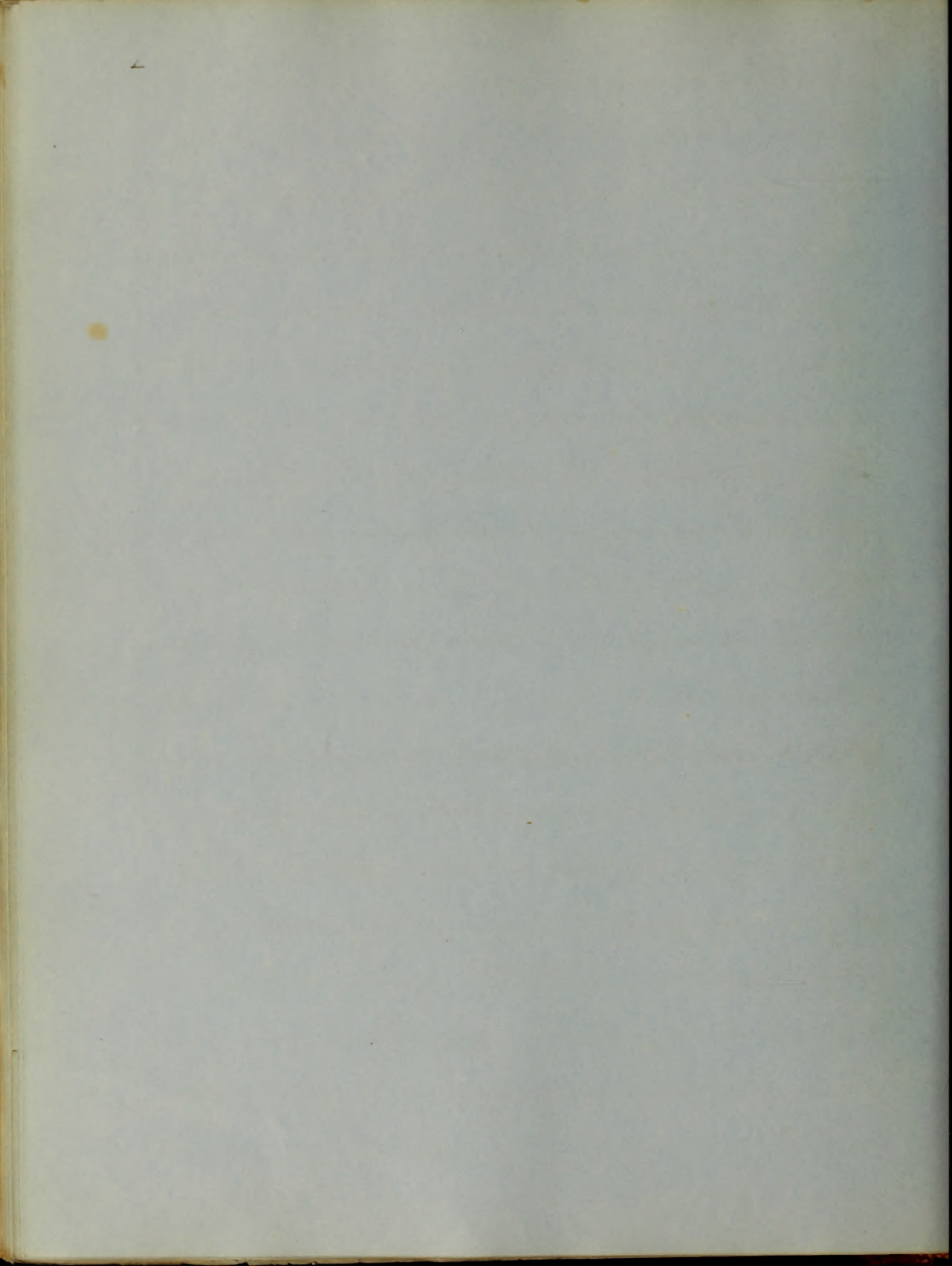
Thursday - the sixth day. There is a very decided improvement in the general condition of things. The heat & aridity of skin is beginning to subside. its scarlet tinge to fade. The vesicles to dry up. The countenance to clear & the intellect to brighten. The pulse has become softer slower & more natural. The tongue has thrown aside its frosty covering leaving the surface raw & red with inflamed papillae shooting from it. - The inflammation of the throat & fauces is



beginning to abate. & some desire for food to return.  
Friday. Now commences the process of desquama-  
tion. The cuticle peeling off in large flakes. proceed-  
ing in the order in which the eruption occurred. leav-  
ing the cutaneous surface in a delicate & tender condi-  
tion. The patient being now very susceptible to the  
slightest vicissitudes of temperature, great caution  
is to be observed in order to escape the liability to  
any of those dangerous sequelae so often attend-  
ant upon convalescence from Scarlatina. But  
nothing occurred to impede a rapid return to  
health in the course of a week the patient left the  
House fully impressed with the idea, no doubt  
that contact with its walls is the only thing req-  
uisite to secure relief from all the maladies  
to which humanity is subjected —

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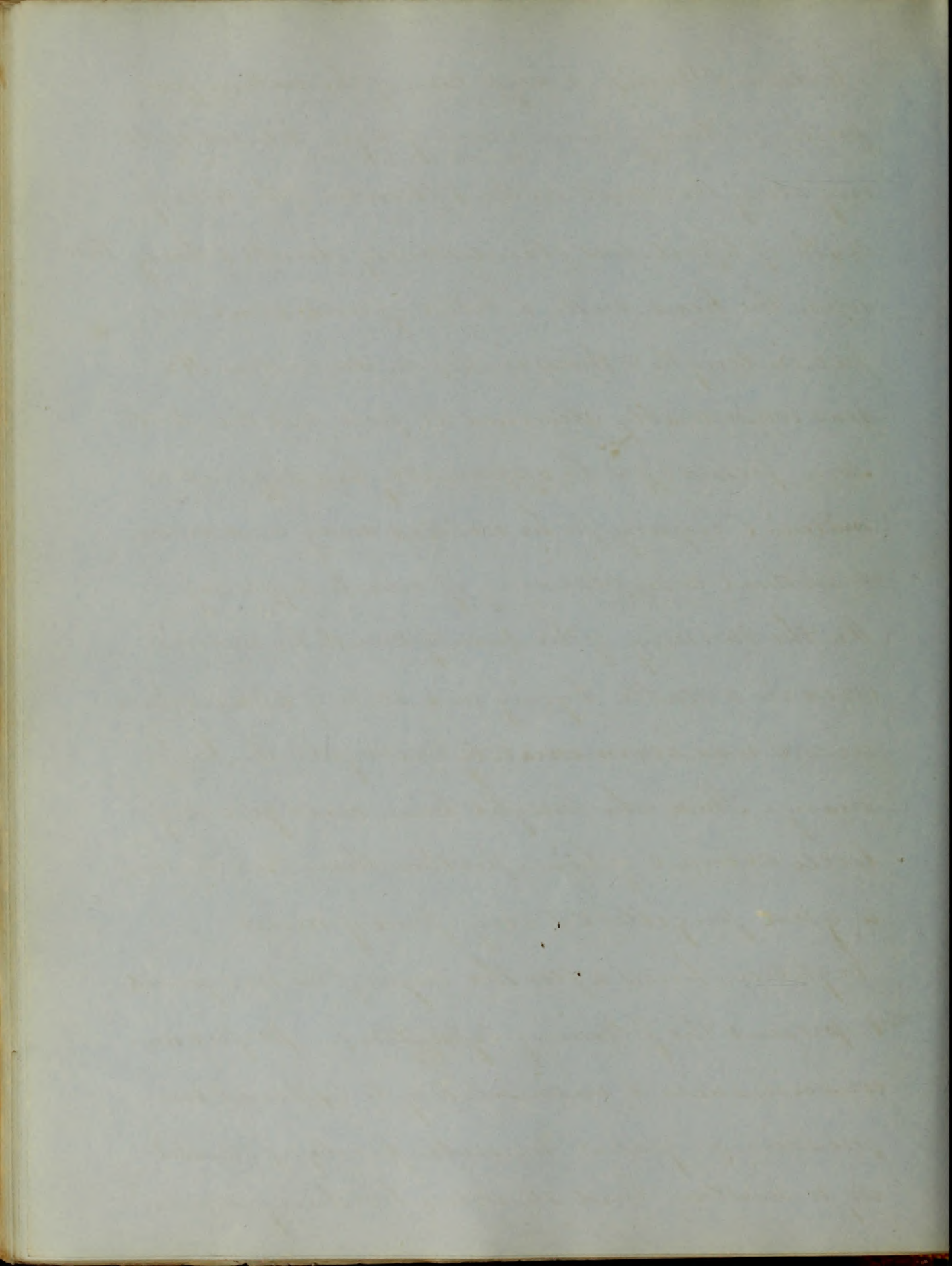




Edward Harris a negro-man of herculean proportions thirty nine years of age - whilst walking along the street on the afternoon of the twenty-sixth of April - was clandestinely struck a heavy blow upon the head with a billet of wood - about two feet in length & three inches in diameter. He was considerably stunned at first but the shock soon passed off & he apparently had suffered no material injury for he walked away unassisted & without complaining of much suffering -

On the morning of the twenty seventh he was discovered in a stable lying in a state of unconsciousness & was immediately conveyed to the Infirmary - Those who brought him could give very little account of him - further than that he was a great pugilist & very fond of rum.

Eighteen hours after the injury he was found to present the following symptoms - perfect unconsciousness & insensibility to external impressions - general muscular paralysis - inability to swallow - loud stertorous breathing - numbers

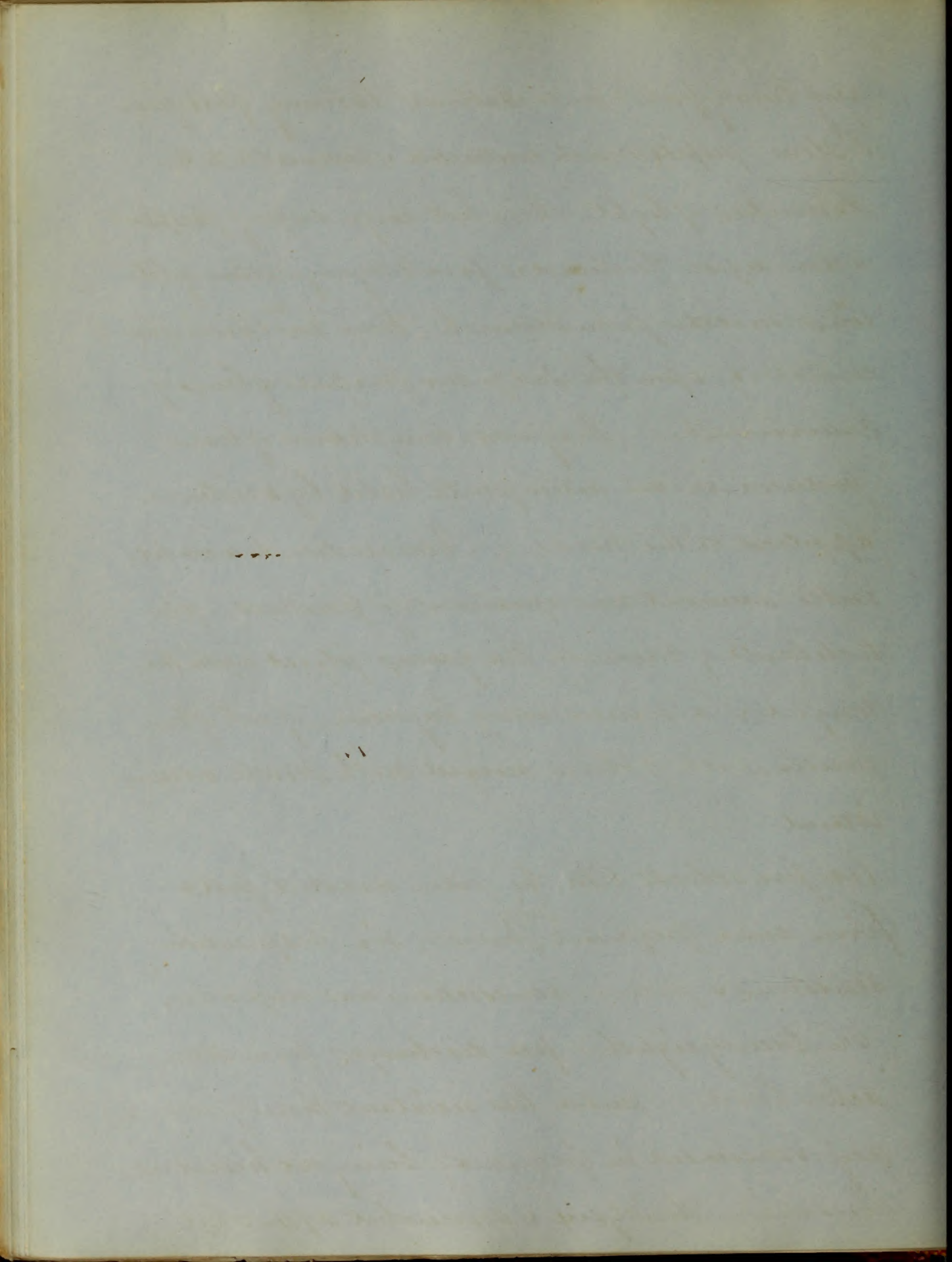




ing twenty four. pulse distinct. labouring. full firm  
& slow. pupils much contracted & insensible to the  
stimulus of light. skin hot. large drops of perspir-  
ation upon forehead & face & regurgitation of bil-  
ious matter from stomach; there was <sup>no</sup> laceration dis-  
coverable upon the scalp nor fracture of bones of  
cranium. - Diagnosis - compression of brain.  
produced in an intemperate habit. by a violence  
applied to the head. - Venesection to a consid-  
erable amount was immediately practised. pro-  
tochloride of mercury ten grains placed upon the  
tongue & a stimulating injection of oil of tur-  
pentine. oil of olives mixed with starch admin-  
istered.

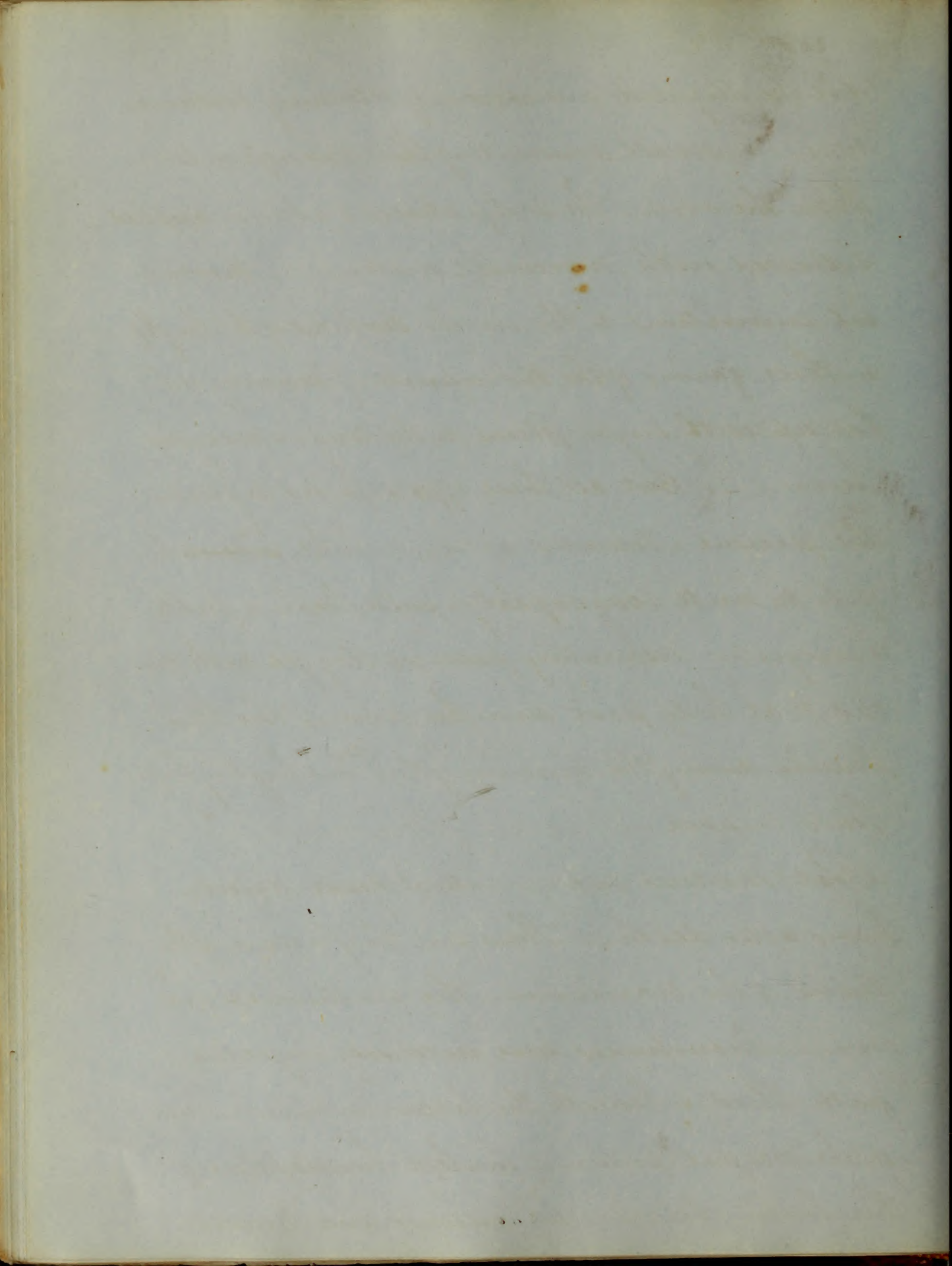
At five o'clock P.M. the pulse was still full &  
firm more frequent <sup>being</sup> thirty six. Respiration  
stertorous & forty - venesection was repeated.

On twenty eighth - free discharges from stom-  
ach & bowels - pulse less resistant than yester-  
day - & increased in frequency being one hundred  
breathing thirty six & somewhat softer - but



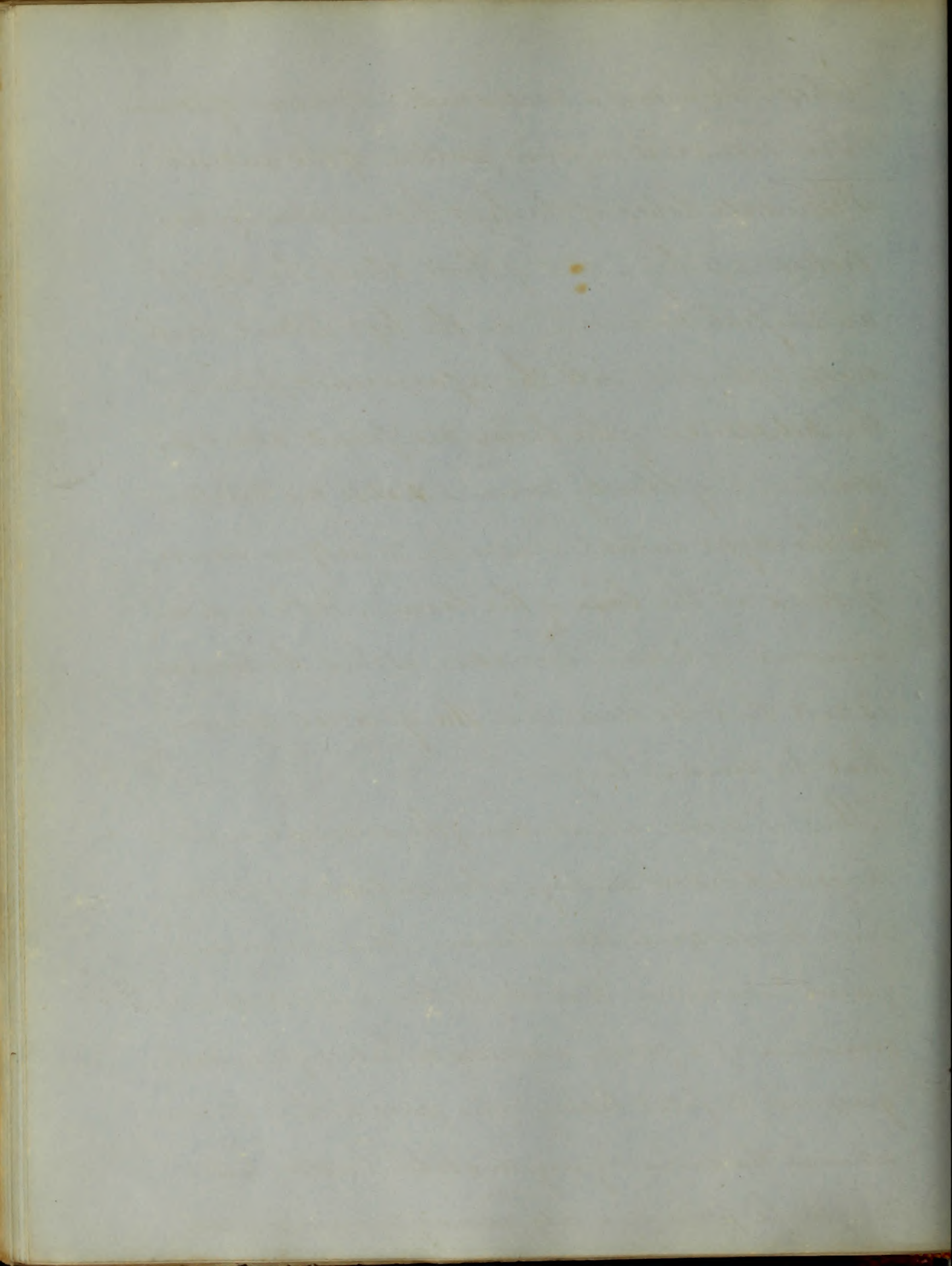
not the slightest indication of returning consciousness. A small amount of blood was again taken from the arm. The scalp shaved & a blister applied & dressed with mercurial ointment. Mercurial unguents to the inner surfaces of the thighs & three grains of the submuriate of Mercury rubbed up with sugar placed on the tongue every two hours. But all these efforts failed to revive the patient. Towards afternoon the ~~patient~~<sup>he</sup> began to sink very rapidly. pulse became feeble & irregular. respiratory passages clogged with mucus. & at half past seven he died. The blood drawn during the morning of this <sup>day</sup> was highly buffed & cupped.

Post Mortem examination made sixteen hours after death. There was no fracture of the tables of the cranium. The arachnoid & pia mater membranes were intensely injected with blood & beneath the latter membrane upon the temporal portion of the left hemisphere of the brain between the anterior and middle



lobes. There was a considerable effusion of serum  
The lateral & inferior portion of the anterior  
& middle lobes of the left hemisphere was  
broken up by a clot of blood about the size of  
an English walnut; in the left lateral ventricle,  
extending into the aforesaid portion of  
the substance of the brain was found about six  
drachms of bloody serum & also one drachm  
in the right lateral ventricle & half an ounce  
of blood at the base of the brain. With such an  
amount of lesion & laceration as this - the wonder  
is not that he died - but the greatest wonder  
that he lived so long -

This is a case illustrative of the deterioration which  
the cerebral vessels undergo when subjected for a long  
time to excessive stimulation. It is not an un-  
frequent occurrence that slight blow inflicted upon the  
cranium of a person addicted to habits of intoxication  
gives rise to fatal lesions of the parts within its walls.  
whereas the same injury in a sober healthy habit  
might be productive only <sup>of the</sup> ordinary symptoms of cere-

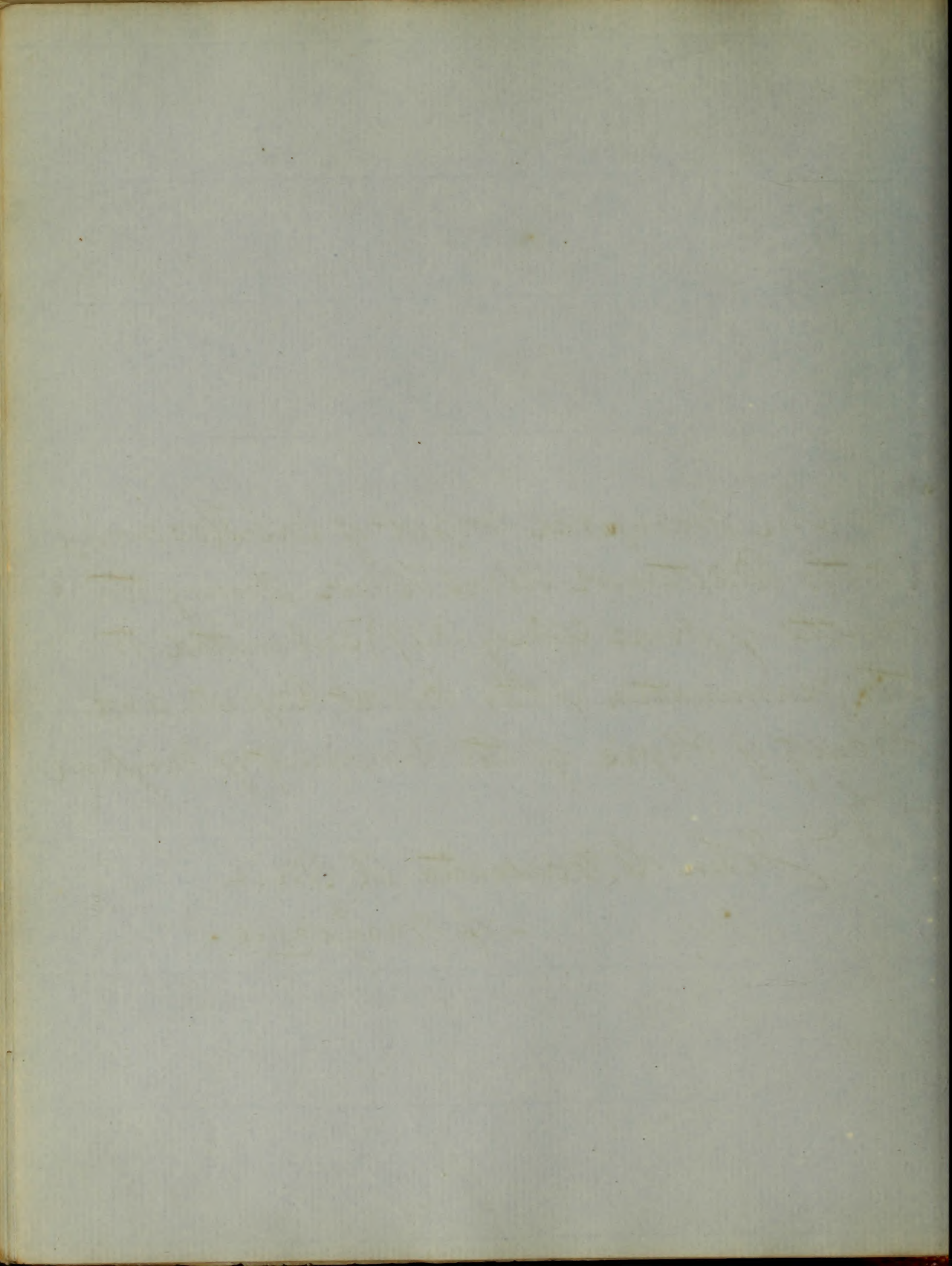


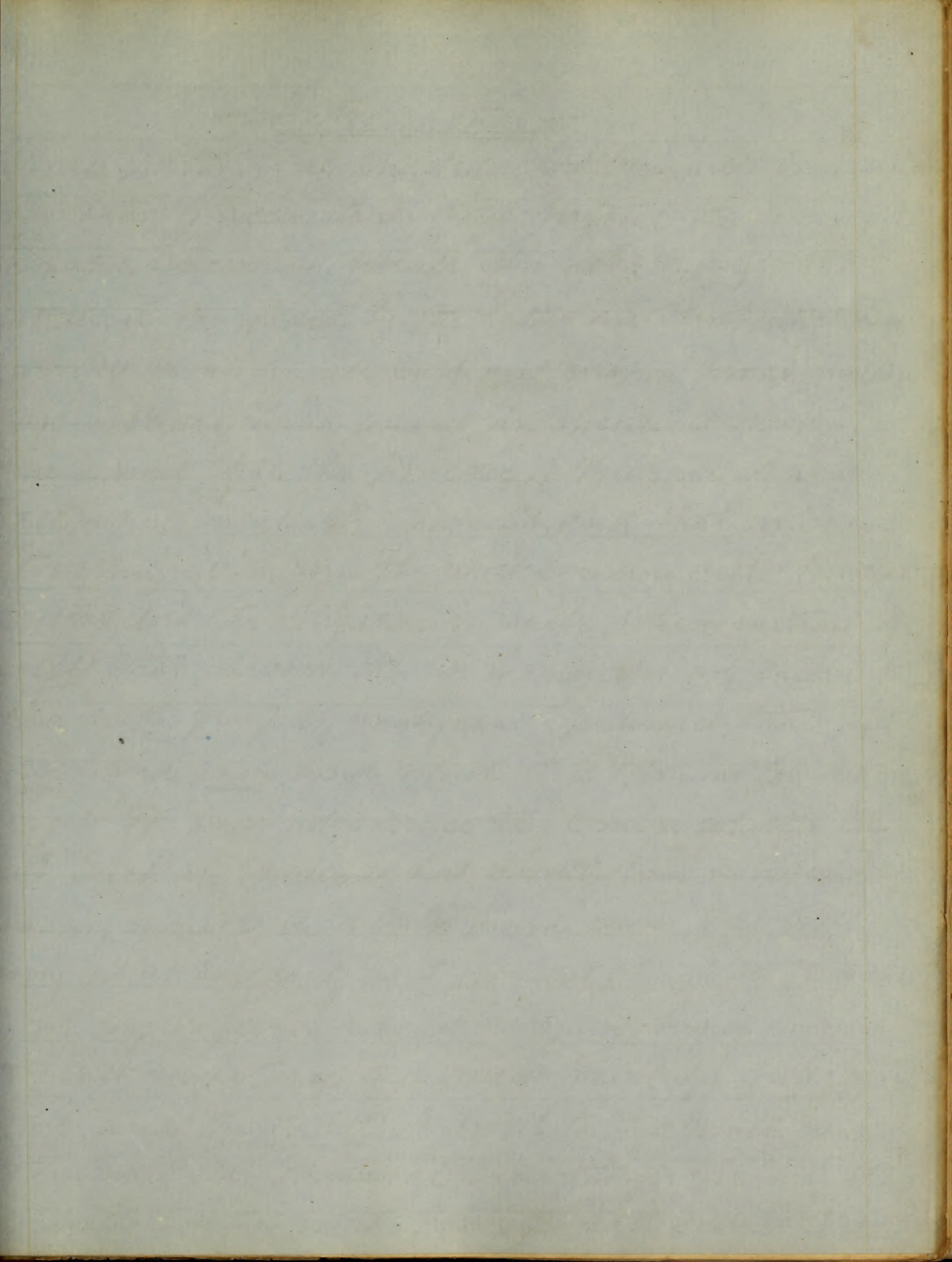
bral concussion. It is really surprising that such an extensive amount of laceration as was revealed in the present instance should have resulted from an injury which insufficient to affect any appreciable solution of continuity, either of external coverings of the cranium - or of the bony parietes themselves & could only be accounted for by supposing the vessels of the brain to be in a condition of degeneration.

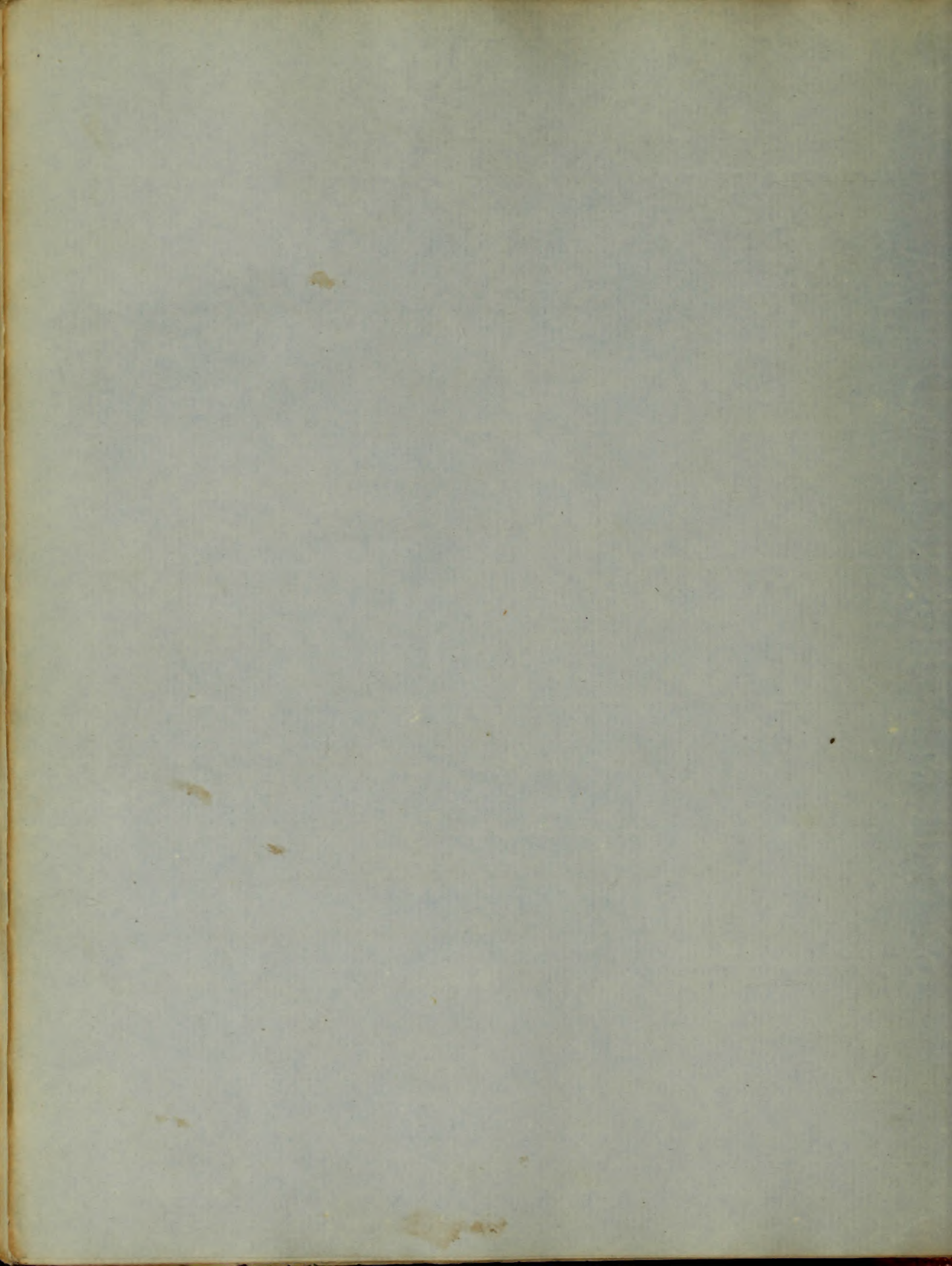
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An Inaugural Report of Cases (occurring  
at the Baltimore Alms House during the  
months of June & July 1849,) submitted to  
the examination of the Provost, Regents, and  
Faculty of Physic of the University of Maryland  
- by - John C. Eccleston. A.M. -  
- of Maryland.







## Introduction

Correct pathological knowledge has been justly considered  
 the Correlative of accurate diagnosis; without the former our  
 information concerning disease can never be aught but  
 hypothetical; unguided by the latter our Therapeutics can  
 at the best be only an all sufficient-weapon (Jus se), wielded  
 by an unskilled hand against an insidious enemy.  
 If we admit that the practice of Medicine depends  
 vitally upon infallible diagnosis, and that we cannot  
 be too stringent in even the most common case: to what  
 extent, does the obligation increase, when instead of  
 the ill that checks the life of man, we are called to  
 contend with fearfully malignant-Epidemics; that visit  
 us ever and anon, and which it is often our Opprobrium  
 to confess "We know not whence they come, or whither they  
 go!" Such an Epidemic has recently been in our midst;  
 advancing onwards in a determined course, & at length  
 leaving us as suddenly as it invaded. Such an Epidemic  
 may we long be found amongst us again, hence in view  
 the vast importance of a correct knowledge of its Causes,  
nature, and treatment, I devote to this much desired  
 attainment my "Maustral Dissertation"; humbly though  
 confidently trusting in the potency of facts and necessary

deductions to show = That the Negro fever that raged at the Baltimore Alms House during the Spring and Summer of 1849, was and is, identical with the Bulam fever (of Pym), the Gibraltar fever of Louis, or the Typhus Jctivus of Cullen.

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### History of Invasion. —

Towards the close of the month of April 1849, a greater increase of Negro patients from the city of Baltimore, from the Alms House wards to such extent: that the Public Authorities were forced to establish a special Hospital for their reception and treatment. A vast majority of these patients, had been residents of filthy crowded haunts situated in narrow Alleys and Streets — sleeping on low floors or damp Cellars — fed upon the refuse of the more opulent and vegetating less like humans, than like the swine and dogs that not-unfrequently participated in their food and board. The vicinities of Canal St., North and South of market, Brandy Alley, & Fell's point, produced more cases than any other section of the City. A knowledge of these localities, would satisfactorily convince, of the facilities afforded for the development of the most virulent poison. In confirmation of this, I give the testimony of an intelligent Physician — a member of the board of health

who in his official Capacity, entered a cellar of  
 Dealers Castle: an old building near Canal St: and  
 stretched two negroes, the dominant of a family of five,  
 still, in an advanced stage of the "Fever". Of the three  
 others, two (the Father and Mother) were lying dead  
 in a corner of the Apartment; whilst the third perished,  
 & he was conveyed to the Hospital. The same gentleman  
 states, that in a sink in the floor was a barrel, <sup>2/3</sup> full  
 filled with excrement and decaying matter. Finally - through  
 the middle of the cellar, passed a gutter continuous with  
 the adjacent street, and from which at the time he  
 observed a number of swine were feeding =.

The cases, that first particularly directed  
 the Medical attention to this anomalous disease, were  
 the palpat and almost-universal sanctioned appearance  
 its subjects; the short-duration of its symptoms, and its  
 awful tendency to a fatal termination. That this fever  
 was infectious, more familiar with its march can for a  
 moment question; that its virulence was much increased,  
 the presence of decaying vegetable matter, an acquaintance  
 with the history of its victims must make apparent;  
 will also the fact of its abatement, and final cessation,  
 under the sanitary and cleansing enactments of the City  
 authorities.

The following Cases and remarks are designed to show - That the Fever termed at the Baltimore Almshouse during the Spring and Summer of 1849 was the same in origin and effect with that described by Louis Lehmann & Trausner as obtaining at Gibraltar in 1828 - modified to certain extent by Climate, Morbidity, Endemic Causes, and Hygienic Regulations - but in its Essential concomitant Affections, and Symptoms (not dependent on the above mentioned circumstances) - one and identical - And to accomplish this I propose 1<sup>st</sup> Several cases which may be considered as types, and analogous to others reported by my fellow Students - 2<sup>nd</sup> A tabular view of the symptoms and Post-Mortem Changes as they obtained in the two Fevers - and lastly an Analysis of three, the agreement and variance - and the reasonable grounds here for the classification proposed.

An Analysis of the Blood by Artois - gave the following results

	Average	Case 1 <sup>st</sup>	Case 2 <sup>nd</sup>	Case 3 <sup>rd</sup>
Solids in 1000 grs	187.029	188.843	183.590	
Water - do -	812.971	801.157	836.410	
Fibrin -	4.382	3.318	4.416	5.388
Globules -	91.274	120.832	61.886	91.334
Solids of Serum	89.824	83.879	72.716	86.888
Albumen	0.850	0.700		0.600
Urea	0.195	0.202		0.188
Chlo Soda	4.192	4.884		3.500
Phos Soda	1.449	1.498		1.408

This Blood was taken from my own cases of the Fever.

The clot in all cases was firm and firm. The Urine contained in some cases the usual amount of Bile.



Case 1<sup>st</sup> "Baltimore Adms" Record June 10<sup>th</sup> 1841

George Stewart - a Negro et. 24, of moderate  
Embonpoint, entered the First Ward at 9<sup>o</sup> AM  
in moribund condition, from "Canal St. near  
City Block". The Police officer stated that a  
man & child had died in the same  
apartment from whence "Stewart" was  
taken, with what he styled the "yellow eyes"  
- a conspicuous symptom of the patient (-).  
He complains of no pain - intelligence unim-  
paired. Constant desire for water which is  
thrown from the stomach as soon as taken.  
Pulse very weak. Died at 10<sup>o</sup> AM sighing  
deeply, and breathing with difficulty; though  
perfectly conscious. Autopsy two hours after.  
Exterior. - a universal yellow tinge. Considerable  
cadaverous rigidity; muscles natural.  
Chest. - Cavities of stomach deep yellow.  
more fluid in pericardium than usual.  
a quantity of dark blood flowed from the  
cave upon division. Tissues of heart deep yellow

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No trace of clot in either ventricle. Endocardium tinged yellow. Lungs - a quantity of Ecchymosed spots on left lung. Upper lobes crepitant, Lower lobes less so: points of Pulmonary apoplexy throughout lower lobes of each.

Abdomen. - Stomach contains about  $\zeta ij$  of dark fluid (greatly resembling solution of Copper) with flakes of mucus floating through it; presents most exaggerated capillary congestion. Mucous surface excessively corrugated (resembling in form earth worms) - much softened and thickened.

Intestine. - its patches perfectly healthy; mucous membrane thickened, softened and excessively red. Follicles - of a deep red tint - from injection of capillary vessels: found a number of follicles capped with a little lymph, which when scraped off presented a point of extravasated blood. Most of the follicles about the colour of currants, enlarged & occasionally pointed with effused blood.

Brain. - inner surface of dura mater of a deep

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yellow tint; no such hue in Arachnoid, Pia Mater  
or Medulla Albugata.

Kidneys. — some of the Malpighian tufts present  
points of Apoplexy.

Spleen. — About four times its normal size  
consistence of dark very firm; of a slaty hue.  
exposed to the air, it becomes a deep red.

Liver. — Little larger than normal; no softening  
of an orange colour: upon pressure blood exudes  
from cut surface. More firm than normal  
(probably resulting from old inflammation).

When torn the liver presents a more than gran-  
ular appearance.

The main points of interest in this case are the  
Lesions of Stomach and Isolated Follicles. — The  
last symptom occurred but the once during the  
entire Epidemic. The crusts of Lymph resembled more  
the pustules of Variola when five or 6 days old, only  
less elevated & with more diffused base.

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Case 2<sup>nd</sup> Saturday June 9<sup>th</sup>

"Svend Strindem" at 35 - a negro of well developed frame was admitted into the hospital upon this date, from Brandy Alley a filthy offensive place. Head tired very uncomfortably and impudently - drinking alcoholic stimuli - and sleeping in a crowded apartment upon a damp floor

Commemorative history } was taken five days since with chill - followed by high fever - with acute pains in head, limbs, and back; *Diagnosis* *tremens* *Aurium*. Three days before his admission, he took an Infusion of *Podophyllum* (may apple) which acted as a violent-Emetic Cathartic. Since then his bowels have been daily moved twice or thrice daily.

Present condition. - Great prostration; much tenderness over Epigastric & right-Hypochondriac regions; Pulse 102, feeble -; skin hot & dry; eyes yellow and injected; tongue covered with yellowish fur in the middle, tip & edges moist; much pain through the limbs; bowels moved twice today, watery. Ordered -

*Calomelans* gr. xij *statim* -

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June 10<sup>th</sup> 8<sup>o</sup> <sup>o</sup> Am. Bowls moved six times since  
 last even. Complaints of pain in his head - pulse  
 skin, eyes, & tongue the same as yesterday - ordered  
 Pulv. Rhu. sr XV - statim - also Sulph. Quinine sr. v. every 3 hours,  
myocele P.M. Patient feels better, bowls moved three  
 since last even; evacuations look like strong Sol  
 of Coffee; urine very yellow offensive ammoniacal  
 odour; complains much of constant Singultus.

Monday June 11<sup>th</sup> 8<sup>o</sup> <sup>o</sup> Am. Much worse; skin  
 cold and moist; no urination in head; perfect  
 Consciousness; severe pains in right shoulder; eyes of  
deep gold colour exquisite tenderness over liver;  
 pulse very weak; respiration quick - ten minutes  
 after leaving him he died perfectly senseless.

Duration of illness ten days Autopsy four hours -  
Exterior. - Embonpoint moderate; Considerable rigidity; yellowish colour universal. - After.

Chest. - The surface of Lung presents numerous  
 red spots of extravasated blood below the peritoneal  
 membrane; this appearance mingled up  
 with a quantity of curdled matter. Lower

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6

Lobes congested too deeply to be Post-Mortem.

Heart. - filled with dark fluid blood; some flakes of lymph on right Ventricle the result of old Pericarditis walls more flabby than usual. Ventricles containing no trace of Fibrin; valves and Chordae Columnae of a yellow tint. Abdomen. - Peritoneal investment of the Intestines deeply injected; some water in the abdominal cavity. Stomach and intestines retrograded. Stomach filled with about a quart of dark gummy fluid, with flakes floating therein. The outer coat exhibited through the peritoneal investment, numerous ecchymosed specks - with dark spots of blood subjacent to the mucous coat - and visible through it. much pointed capillary congestion; particularly about the pyloric extremity; Mucous coat converted to a soft pulp, much darkened and convoluted; the whole surface of stomach covered with tenacious mucus; attached to the lesser curvature a large melanotic gland. Intestines. - occasional spots of ecchymosis showing through mucous membrane, thickened, softened, and corrugated - except at

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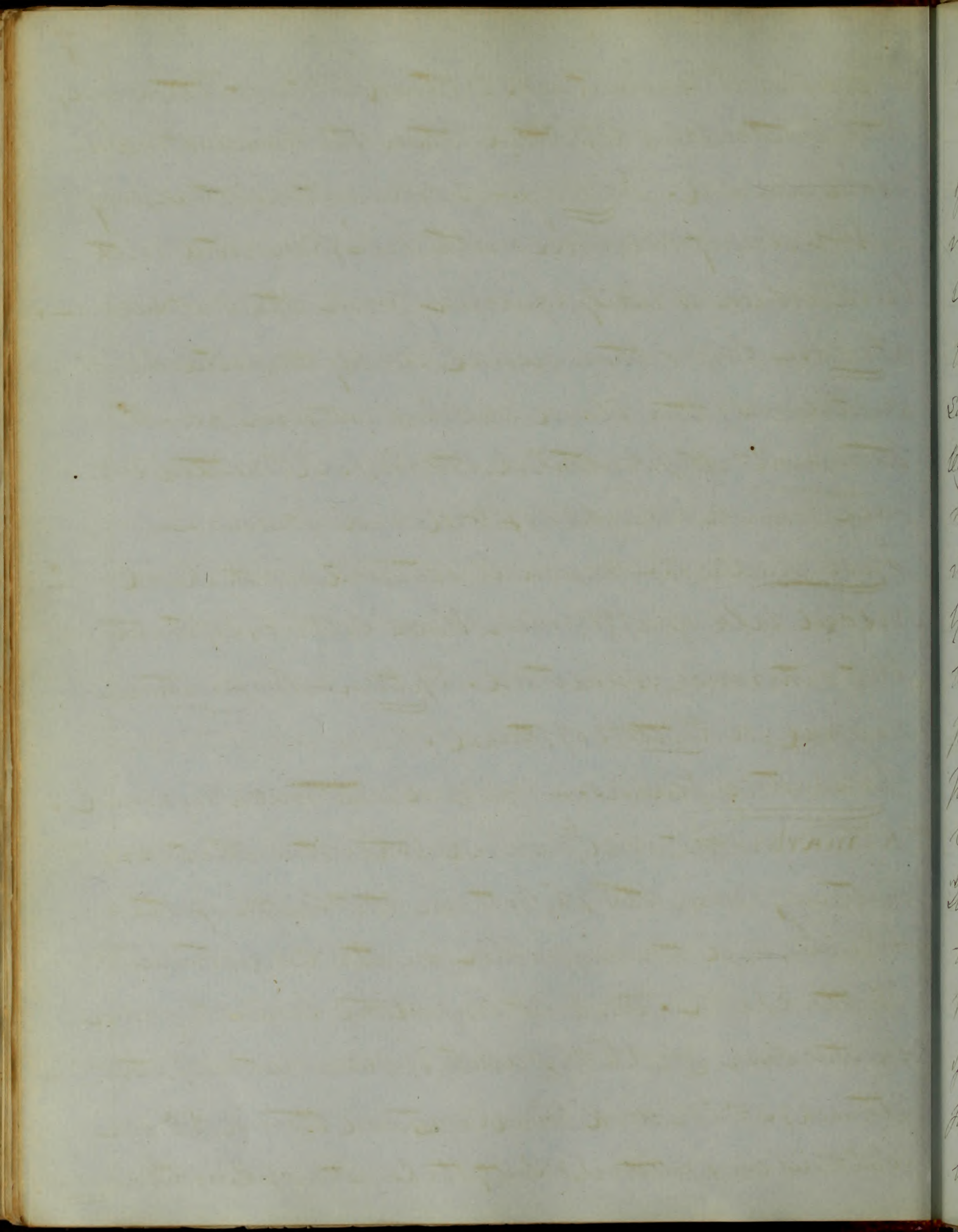
Peyer's glands when it was softened but not thickened, the patches being less thick than the mucous membrane around. Kidneys. - of ordinary consistence, very when deeply coloured with bile; congested with blood which is easily squeezed from the cut surface.

Liver. - larger than usual deeply congested in its capillaries; the blood showing in fine points throughout its peritoneal covering. A mottled surface from a mingling of red and yellow.

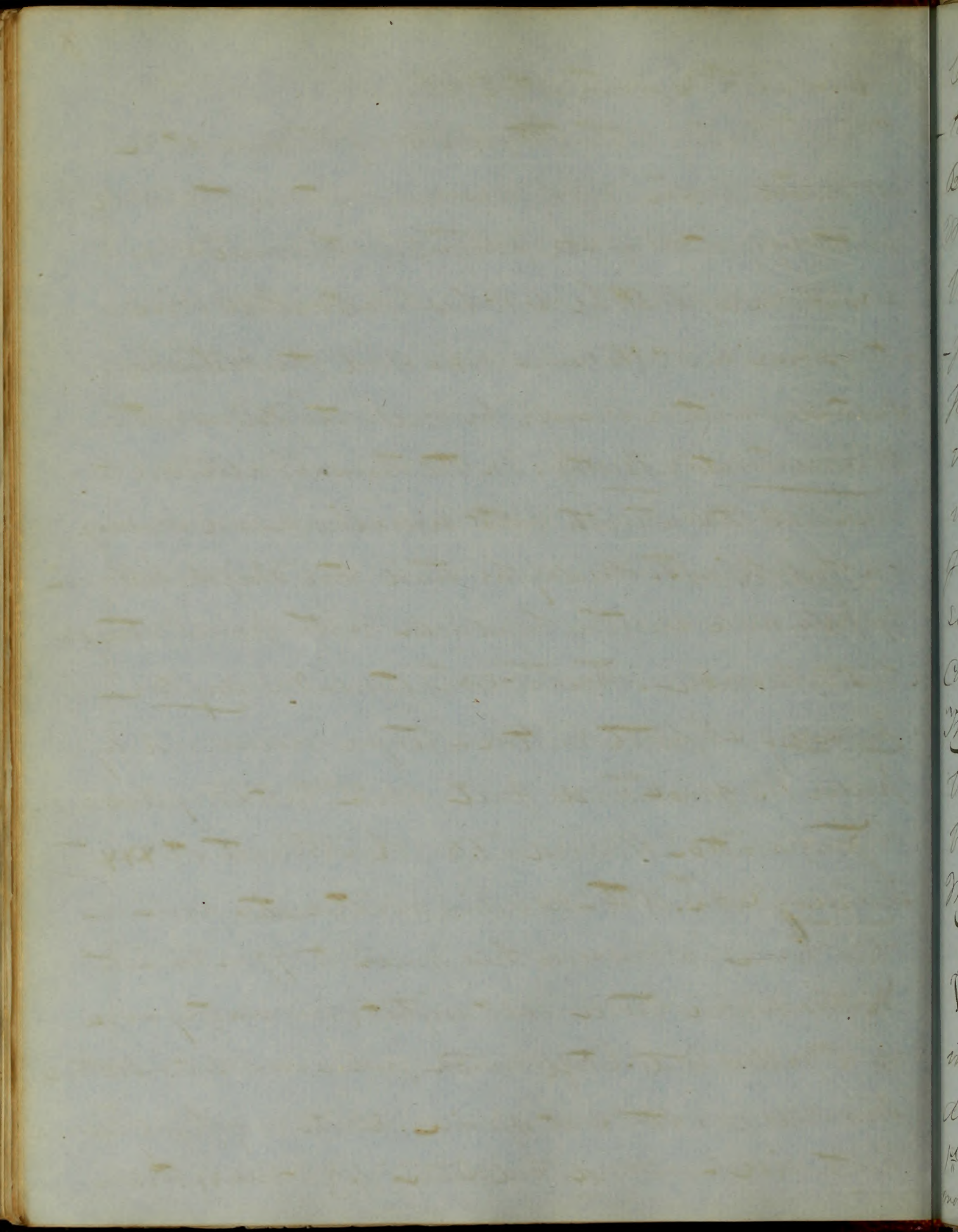
Gall bladder. - much distended with dark viscid bile, of a greenish black colour, softened but otherwise unaltered. Spleen. - larger than normal, a little softened.

Mesenteric glands. - enlarged, otherwise normal.

= REMARKS = It will <sup>be</sup> observed that this case varies materially from the 1<sup>st</sup>, both in the lesion of the follicles, and the difference in the consistence of the spleen. The most important lesions afforded in this case are, 1<sup>st</sup> The acute inflammation of the stomach; 2<sup>nd</sup> The dark fluid contained therein, 3<sup>rd</sup> The ecchymosis along intestines, & lastly the congestion of Liver, Kidneys, & Spleen.









Case 3<sup>rd</sup> Continued

to alternate with the R. Turbith = dirt  
Bryl tea & strong coffee.

Wednesday 9<sup>o</sup> AM. Patient greatly improved  
bowls moved but once last night - slept well -  
Pulse 79, soft: skin normal. Complaint of no  
pain except in his head when he tried to  
evacuate his bladder or rectum. Tongue clearing  
up - eyes less tinged with bile. Urine very copious -  
of a more natural color than yesterday - only  
slight pain elicited by pressure over abdomen.  
Continue same treatment.

Thursday 11<sup>o</sup> AM. increased improvement,  
bowls moved twice last night: Patient out of  
bed - Continue Quinine & Turbith.

Monday 24<sup>th</sup> = Discharged cured.

Remarks - The rapidity of the convalescence  
in this case is truly astonishing = The great practical  
deduction from this case & several others, appears to be -  
1<sup>st</sup> for Purge during the incubatory fever which lasted in  
most cases 24 or 36 hours = then for use of Quinine.

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Case 4<sup>th</sup> = June 9<sup>th</sup> 5<sup>00</sup> P.M.

10

Upon this date George Smith a Negro  
at 32 resident of "Alr Alley" - of good Constitution  
and moderate embonpoint - entered the Fever Ward  
He says he is temperate, had had good food  
and lodging. Commemorative History - Until Tuesday  
last has been employed upon the wharf, upon  
that day he was taken with a chill followed by  
a high fever and much pain in head & limbs.

Present Condition. Eyes much injected with red  
skin hot and dry, pulse frequent and jerky.  
Considerable pain and tenderness over abdomen.  
Bowels evacuated twice today - Complaint of  
insomniacence - also of a cough arising from  
slight Bronchitis. Ordered Oil Hyacinth  $\mathcal{R}$  xv - Statim -  
Tine Opii  $\mathcal{R}$  xxv Tonight.

Sunday 10<sup>th</sup> <sup>Am.</sup> - Bowels moved once last night,  
a bilious evacuation. Pulse much weaker 102 minutes  
ordered Brandy  $\mathcal{R}$ ss every 3 hours with  $\mathcal{R}$ ss Sulfur Quin  
in each dose. = 8<sup>00</sup> P.M. Patient exceedingly jerky  
Complaint of much pain about right acetabulum.

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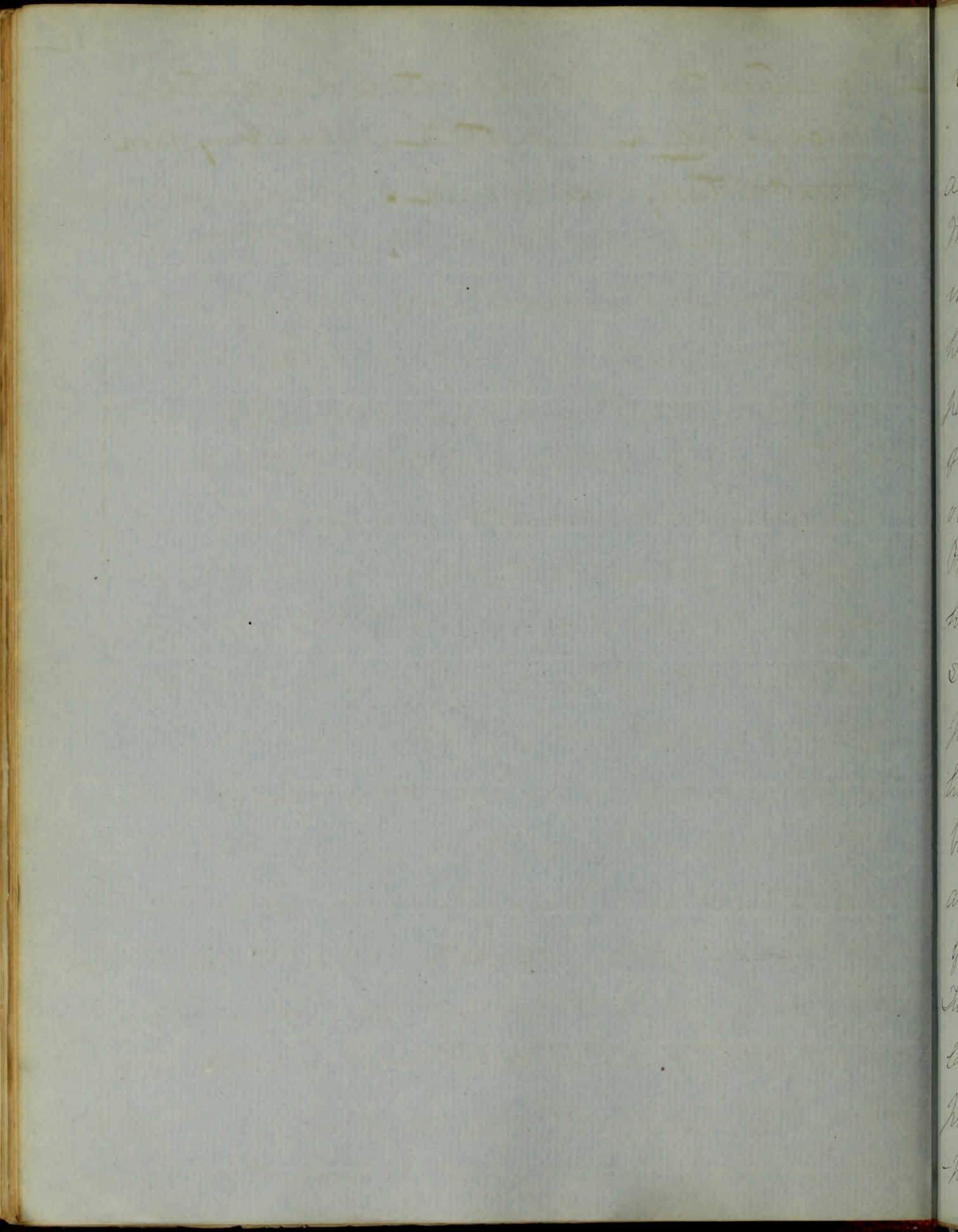
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- arrived Calomelano 80 x - Pulv Opii 8ij - tonight  
 Monday 9<sup>o</sup> A.M. patient moribund - slept  
 but little last night; pulse 95 in minute  
 intellect clear, answers questions rationally -  
 complains of no pain - died perfectly conscious  
 at 3<sup>1/4</sup> P.M.

Autopsy seven hours after death  
 Exterior. - Eyes & Mucous tissues much injected  
 with vils; No emaciation. Chest. - Lower lobe  
 of right Lung shows occasional points of Pulmonary  
 Apoplexy. Heart slightly hypertrophied, left Ventricle  
 containing lots of deep yellow colour - right Ventricle  
 also filled with Fibrin extending into Pulmonary.  
 Walls very flabby as are also the muscles of the  
 whole body. Stomach - mucous coat softened  
 and thickened - glossy mucous covering it; much  
 pointed injection; this organ contained 1/2 of  
 a dark fluid, with some flakes of mucous  
 floating through it. Intestines - mucous coat  
 presenting yellow tinge, some portions of it exhibit  
 the small vessels much injected with blood.

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No alterations of Peyer's patches or isolated  
follicles. Spleen Consistence of rasp - Lymph gland  
almost totally disorganized.

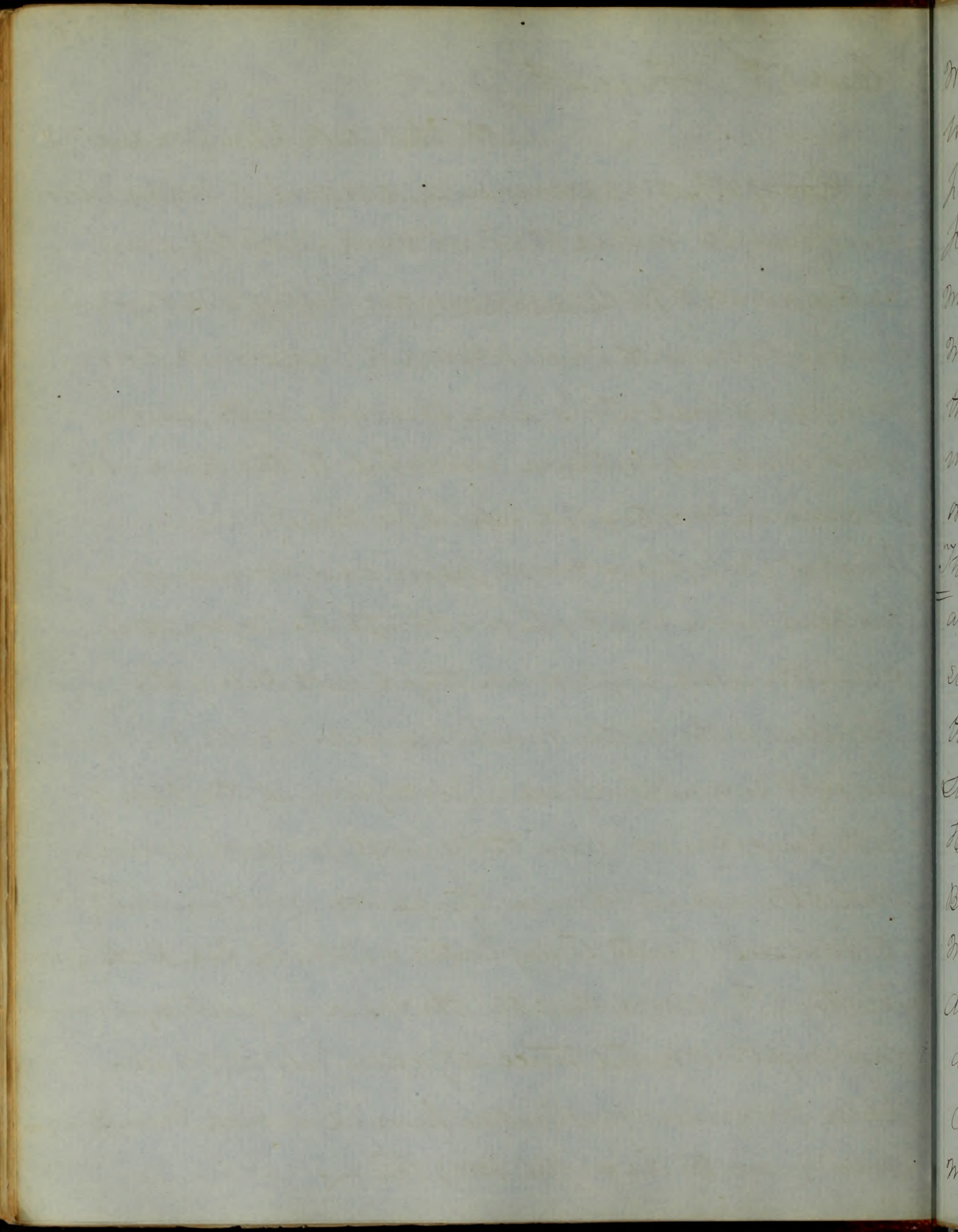




Case 5<sup>th</sup> June 4<sup>th</sup>

On this date John Bond at 32  
 a Negro of robust appearance a resident of Intan below  
 Montgomery St. entered the Fever Ward. He had led a very  
 intemperate life. Commemorative history - 12 days since  
 he was taken with chill followed by considerable Fever &  
 pain in his head. This pain combined with disorder  
 of his bowels has continued unabated to this time - also  
 occasional vomitings of a bilious nature.

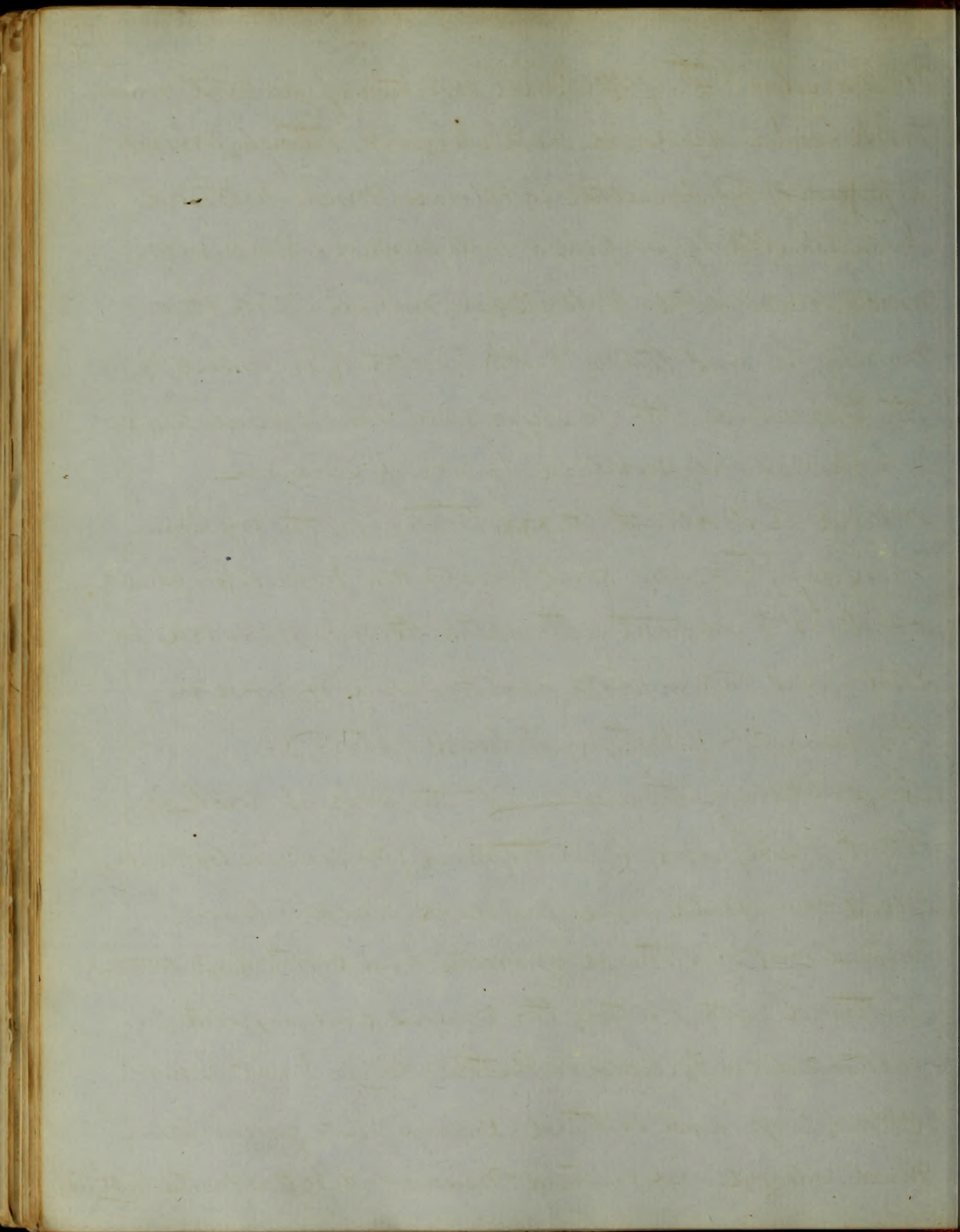
Present Condition = much pain and swimming in  
 his head when he sits up or attempts it. Conjunctiva,  
 Sclerotic and tongue much tinged with Bilis = the  
 Papilla of the latter much elongated. Unable to lie upon  
 his right side. Dulness upon percussion at the base of  
 both Lungs. Shrinkes from the slightest pressure over Liver  
 and Stomach = abdomen tympanitic - great irritability  
 of muscles - bowels today Costive = Ordered Cal Rock  $\frac{zj}{\text{statim}}$   
 Tuesday 5<sup>th</sup> General Condition the same as yesterday - 3 evacuations  
 last night. Vomited twice - a yellow bilious fluid -  
 Pulse 108 - small - respiration hurried - ordered Pulv. Quin.  $\mathfrak{ss}$   
 - Pulv. ij - one tea cup = Diet - Beef tea.



Wednesday 6<sup>th</sup> 9<sup>o</sup> A.M. Condition of Patient much worse. Some headache and dizziness though perfect preservation of his Faculties. Abdomen much distended, pain elicited by pressure over its surface. Respiration much accelerated. Pulse 124 in Minute. Early this morning he was taken with Epistaxis (produced by the tone which the quinine gave to his circulation) which was only subdued by use of Tannin ordered of Smith at xxx together with gr<sup>ss</sup> Quin

Thursday 7<sup>th</sup> A.M. great prostration from loss of blood. about 10<sup>o</sup> P.M. Patient attempted to rise from bed for stool - was taken with fainting and expired in ten minutes. Autopsy 13 hours after.

Lungs - Splenization - At the base of each. Heart flabby and hypertrophied; no clot in left side, Blood very fluid, and of a dark black colour. Mucous Coat of Stomach inflamed and softened. Intestines distended with flatus; the mucous Coat inflamed, no alteration in Follicles or Patches. Liver bright yellow colour, large and softened. Kidneys quite yellow. Spleen much enlarged and softened - muscles and fat inflamed with liver.



"A tabular view of the symptoms of the two forms taken from a =

atoms.	Compiled from Louis work in "the Gibraltar fever of 1828" average of 32 cases.	Compiled by Dr Frick - from 19 cases taken at the Barracks at the Barracks
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<ul style="list-style-type: none"> <li>of -</li> <li>resion.</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>Mental with an intense heat</li> <li>-ache, chills, pain in limbs &amp; back. Thirst very great, almost complete. Eyes red, shining, suffused. Intense heat scarcely followed the first-chill.</li> </ul>	<ul style="list-style-type: none"> <li>Pain in back &amp; head; chill followed by high fever, anoxia and throat generally present.</li> </ul>
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<ul style="list-style-type: none"> <li>der - -</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>Its frequency diminished progressively from the 2<sup>nd</sup> day of disease, so that it passed from 190 pulsations, to 80 or 75 in the minute.</li> </ul>	<ul style="list-style-type: none"> <li>- In fatal cases averaged 107 - in recovered - do 106 - diminished in frequency from the first 48 hours of disease.</li> </ul>
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<ul style="list-style-type: none"> <li>gure</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>"The tongue of the Yellow Fever patients at Gibraltar had no characteristics peculiar to that disease - though more generally white and villous, &amp; the seat of hemorrhage than in other disorders."</li> </ul>	<ul style="list-style-type: none"> <li>- coated in all, yellow in far the larger number; in others - white, black or brown. in a few cases (2) much swollen; in one, the papilla much enlarged.</li> </ul>
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<ul style="list-style-type: none"> <li>er over the</li> <li>er &amp; Meas-</li> <li>no.</li> </ul>	<ul style="list-style-type: none"> <li>Many complained of pain in the epigastrium the first day - others upon the 2<sup>nd</sup> or 3<sup>rd</sup>. increasing in severity as the disease advanced.</li> </ul>	<ul style="list-style-type: none"> <li>Very severe upon pressure in 4/5 of the cases - commencing after the first 12 hours, or sooner.</li> </ul>
--	--	---

<ul style="list-style-type: none"> <li>miting =</li> </ul>	<ul style="list-style-type: none"> <li>Thirst in fourteen cases vomited - some on the first day - others after 1<sup>st</sup> 12 hours</li> </ul>	<ul style="list-style-type: none"> <li>- Was ascertained in the large majority of cases - in those that recovered it was not found</li> </ul>
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- The vomiting was repeated every day. At first it was clear, then more or less yellow, then black.

- The matter vomited often greenish mixed with yellow - "in some cases yellow".

Course

Generally Constipated

In half the Cases Constipated

Intelligence

"Of 18 Cases - Seven retained their Senses, the other nine slightly delirious.

"Of 19 Cases = 8 dull and 11 (5 fatal 2 recovered); in one Delirium (fatal); 3 Cases the Ward Comatos (2 fatal, 1 recovered thoughtless (4 recovered).

Hemorrhage

very frequently occurred from the tongue (particularly when Calomel had been used) - Mucosities occurred also. The principal number of Hemorrhages, were from the Gastro Intestinal Mucous Membranes

Mucosities was present in out of 12 Cases = Gastro Int. also very frequent.

Eyes

Deeply injected with Blood

Conjunctiva of a deep yellow. Sometimes both injected and Ecchymosed = rarely white

Duration

Duration varied much according to severity of symptoms from 2 days, to 5 and 7 - ~~8-10~~

In 19 Cases? 1 died in 5 days; 1 in 8<sup>days</sup>, 1 in 9<sup>days</sup>, 2 in 10<sup>days</sup>; 1 in 15<sup>days</sup>; 1 in 16 days; one not recovered. Average 10<sup>days</sup>: of seven recovered 2 were Convalescent in 10<sup>days</sup>, 3 in 16, one in 17 - Average 13

116

A tabular view of the most important Post-mortem Changes - as they occurred in the two forms

	<u>Subacute form</u>	<u>Alms House</u>
Surfaces	- Yellow tinge Constant	In 12 Cases - 9 were a deep yellow tinge - in 3 no notice was taken.
Brain	An inconsiderable quantity of Serum was occasionally found in the Arachnoid Cavity and the Cerebral Ventricles - the Pia mater was rarely injected. The cortical substance of Brain was dark or ridd - in many cases.	In those examined of a perfectly natural appearance except being tinged quite yellow.
Organs	Often effusion of more or less blood which discoloured the surrounding tissues of air.	In 12 Cases } 2 were healthy, of the remaining 10 - one had tubercles, 2 ordinary, 2 phrenitis, and 4 <sup>small</sup> tubercles. In 7 of the 10 there were ecchymosis, and in 3. ecchymosis and pulmonary apoplexy.
Heart	Was flaccid - softened or less coherent than usual - in 5 cases found Serum colored Serum in the Pericardium.	Flabby, with clots of greater or less size in the Ventricles. The internal membrane very yellow.
Liver	Of greater size than natural in two cases; little firmer than usual in 3 cases; a little less firm in 3 others. Its colour was altered in every case. Sometimes the hue of pink water, again straw yellow, a clear copper and milk color - sometimes of a pure yellow - sometimes an orange yellow.	Fluid blood found in large quantities when cut - in some cases increased in dimensions. Capsule easily detached in some colour in more 1/2 - bright yellow in some yellow mixed with ecchymosis - some few times making any colour.
Stomach	Mucous membrane thickened in half the cases; softened and yellow in same number. In 3/4 of the cases it contained a clear or dark red edematous liquid, a blackish, or perfectly black fluid in different quantities.	Mucous membrane thickened and softened - contained very often a fluid mix. resembling soft and water. In many cases spots of ecchymosis were found.
Intestines	Peyer's patches were always healthy. The intestines contained in 12/3 cases a greater or less quantity of reddish, brownish, blackish, or perfectly black matter.	Peyer's patches healthy - Mucous membrane thickened & softened.

Small Intestines = The mucous membrane injected  
or red - in less than half the  
Cases. The consistence diminished  
through its whole length.

Spleen

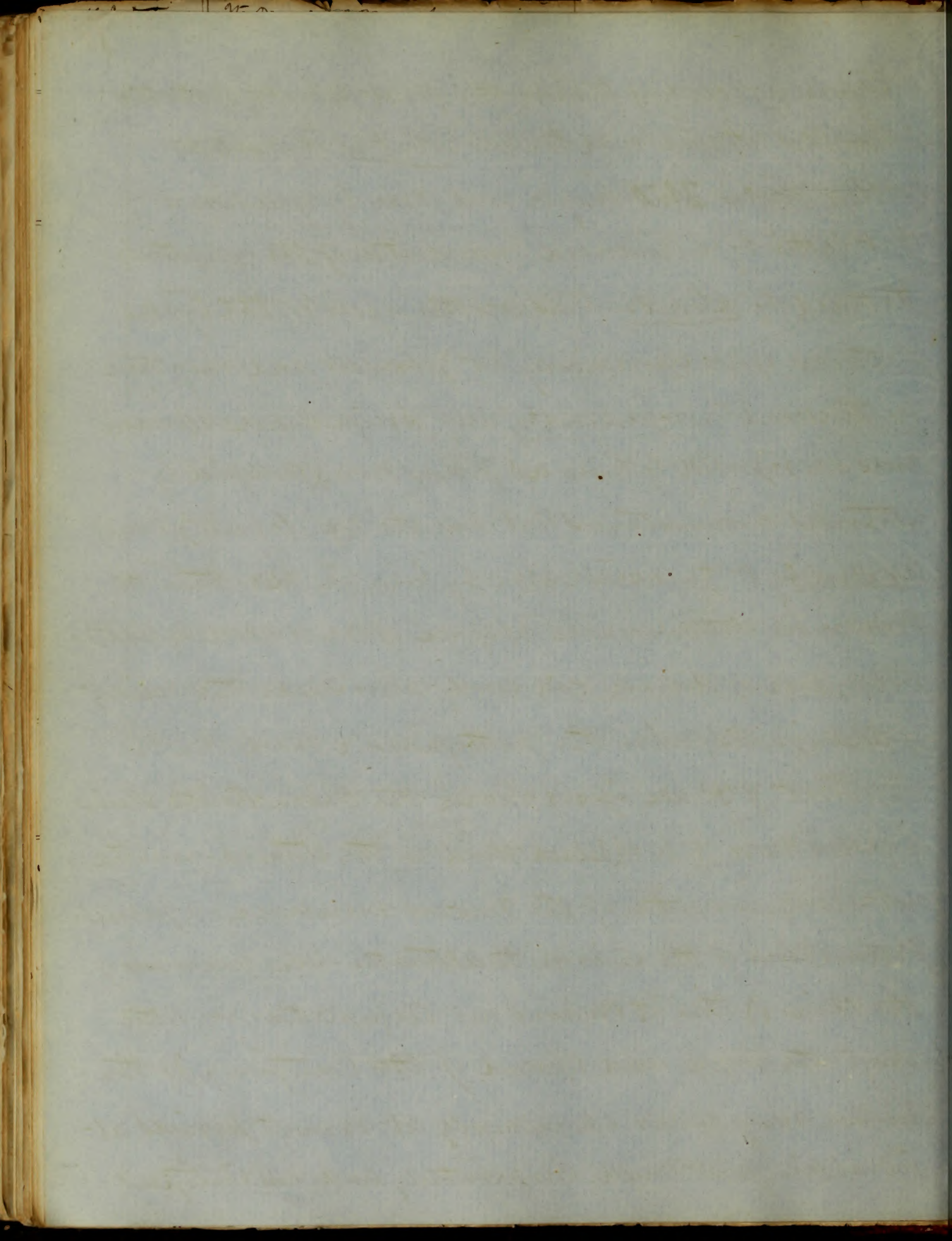
Was softened in 8 Cases  
it was larger than usual in  
5 Cases.

Condition of this organ not  
in 4 Cases - in the other 8 soft  
and softened. in one case it  
increased to 3 times its normal  
in another to twice its - do -

In concluding this subject - Louis divides  
these Lesions into 2 classes, some of them peculiar, or  
exclusively peculiar to subjects dying of Yellow Fever; others  
to these subjects, and to subjects who have died of other acute  
diseases. The Red or Black matter found in the Alimentary  
Canal, and the alteration of Colour in the Liver, are of the  
first class - all the other Lesions of the second.



Before proceeding to show the great similarity of the two  
 epidemics; it were well to show what is or constitutes  
 yellow fever = This may be well done by exclusion =  
 but better by a condensed enumeration of the symptoms  
 detailed by Louis - This author asserts that Typhus  
 Jctivus exists sporadically at Gibraltar and may there  
 be developed independent of any foreign cause. Sporadic  
 cases are reported by him as yellow fever, (modified by  
 extraneous circumstances, but near the top definitely) tracing  
 the analogy to the disease seen by him in 1828 - than the  
 fever we are studying = The absence of one or more symptoms  
 in any case of disease can surely never shake the validity  
 of a diagnosis; when the pathognomonic mark can be  
 apparent -) Hence if we make the characteristic signs  
 of yellow fever to be = (Black fluid in the stomach - vomited or  
 not = inflammation of the mucous membrane = a peculiar  
 yellow colour of the liver with alteration - also yellowness of  
 the skin;) then it concerns our classification very little  
 about the origin and spread of the contagion. If the  
 disease may occur sporadically at remote periods at  
 Gibraltar - first mild comparatively and then contagious



after, <sup>words</sup> becoming evidently more violent and injurious;  
 If, according to Dr Bryson's "Report of the Diseases of  
 the African Station" an Endemic Fever is seen every  
 year in Sierra Leone which is most prevalent in  
the Coast and most crowded parts of the Town  
and arises according to the opinion of all who have  
introduced it from local causes; being presumed  
non Contagious = If again, this fever at certain  
 periods acquires a great development and becomes  
Endemic its symptoms remaining the same, though  
 much heightened in intensity = If the remissions of this  
fever become much less common - Black vomit more  
 frequent, the mortality much greater = If in addition  
 to other modes of propagation it is ascertained to spread  
 occasionally by Contagion = Why I say (if upon the  
 Authority of Dr Bryson, <sup>Louis</sup> Sir William Pym, and Prof Simpson  
 such phenomena may and do occur at Sierra Leone,  
 Gibraltar and the Southern Coast of our own Continent)  
 may not the same obtain with us? - In elucidation  
 of this theory of development, from simple endemic (or  
 Bilious Remittent Fever) to Contagious Yellow Fever = We are told

The first part of the book is devoted to a general history of the world, from the beginning of time to the present day. The author discusses the various civilizations that have flourished on the earth, and the progress of human knowledge and industry. He also touches upon the different religions and philosophies that have shaped the human mind.

The second part of the book is a detailed account of the history of the British Empire, from its early beginnings in the sixteenth century to its present extent. The author describes the various colonies that have been acquired, and the different policies that have been pursued towards them. He also discusses the various wars and conflicts that have been waged by the British, and the different treaties and alliances that have been entered into.

The third part of the book is a history of the British monarchy, from the reign of King Henry II to the present day. The author discusses the various kings and queens that have ruled the British Isles, and the different events and incidents that have marked their reigns. He also touches upon the different constitutions and laws that have been enacted, and the different reforms that have been introduced.

The fourth part of the book is a history of the British navy, from its early beginnings in the sixteenth century to its present extent. The author describes the various ships and fleets that have been built, and the different battles and conflicts that have been fought. He also discusses the various admirals and commanders that have led the British navy, and the different policies that have been pursued towards it.

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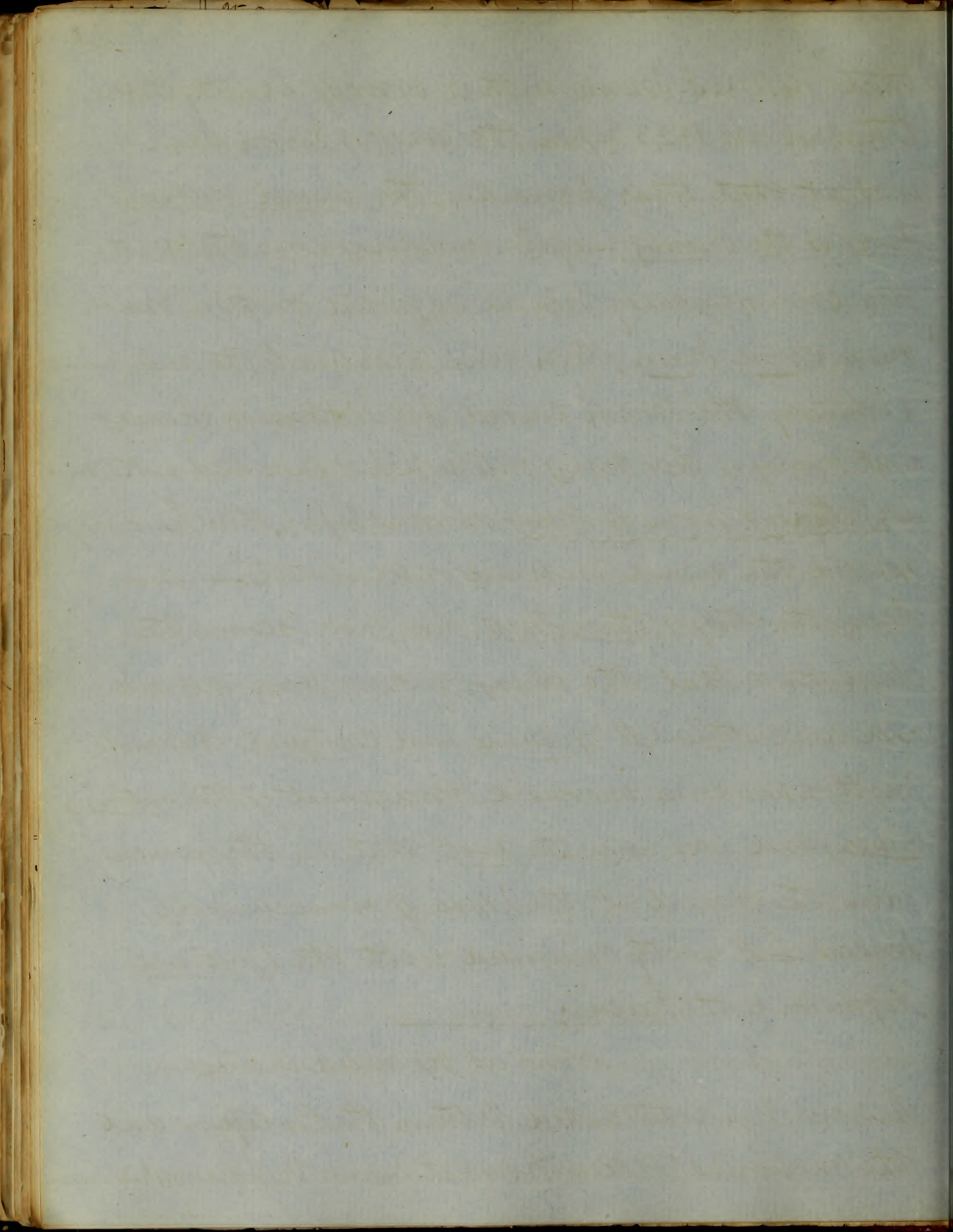
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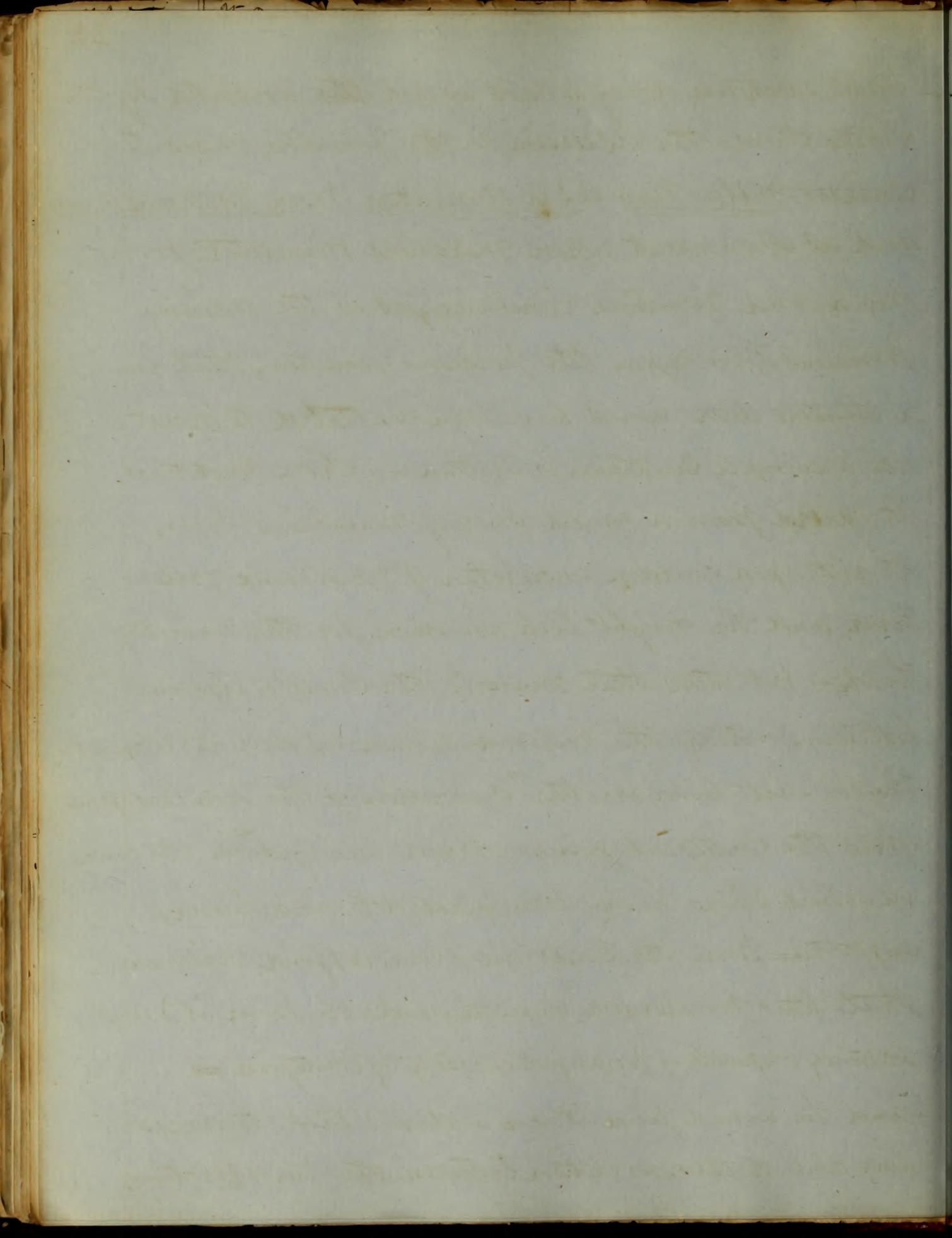
that "H. M. S. Bann with a crew of healthy men touched in 1823 upon the Coast of Sierra Leone - where was at that time prevailing, the usual endemic Fever of the Country. After remaining some two months her crew gradually became affected with a much more erose form, than was peculiar to the acclimated. Eventually the "Bann" sailed for "Ascension" (having lost many of her men) into which place she introduced a Contagious form of Fever - whereas before, there had only existed the usual Endemic or Remittent. — — —

From the study of these Facts, how just becomes the Deduction = that the Change of Fever from Endemic and Non Contagious, to Epidemic and Contagious - depends partly upon some increased development of the active Cause; and also upon the fact, that in the examples given; the arrival at the place of unacclimated persons has exactly coincided with the Epidemic Diffusion of the Poison. — — —

Now as no valid distinction has ever been established between the Contagious and the malarious Yellow Fever - it cannot be presumed in some

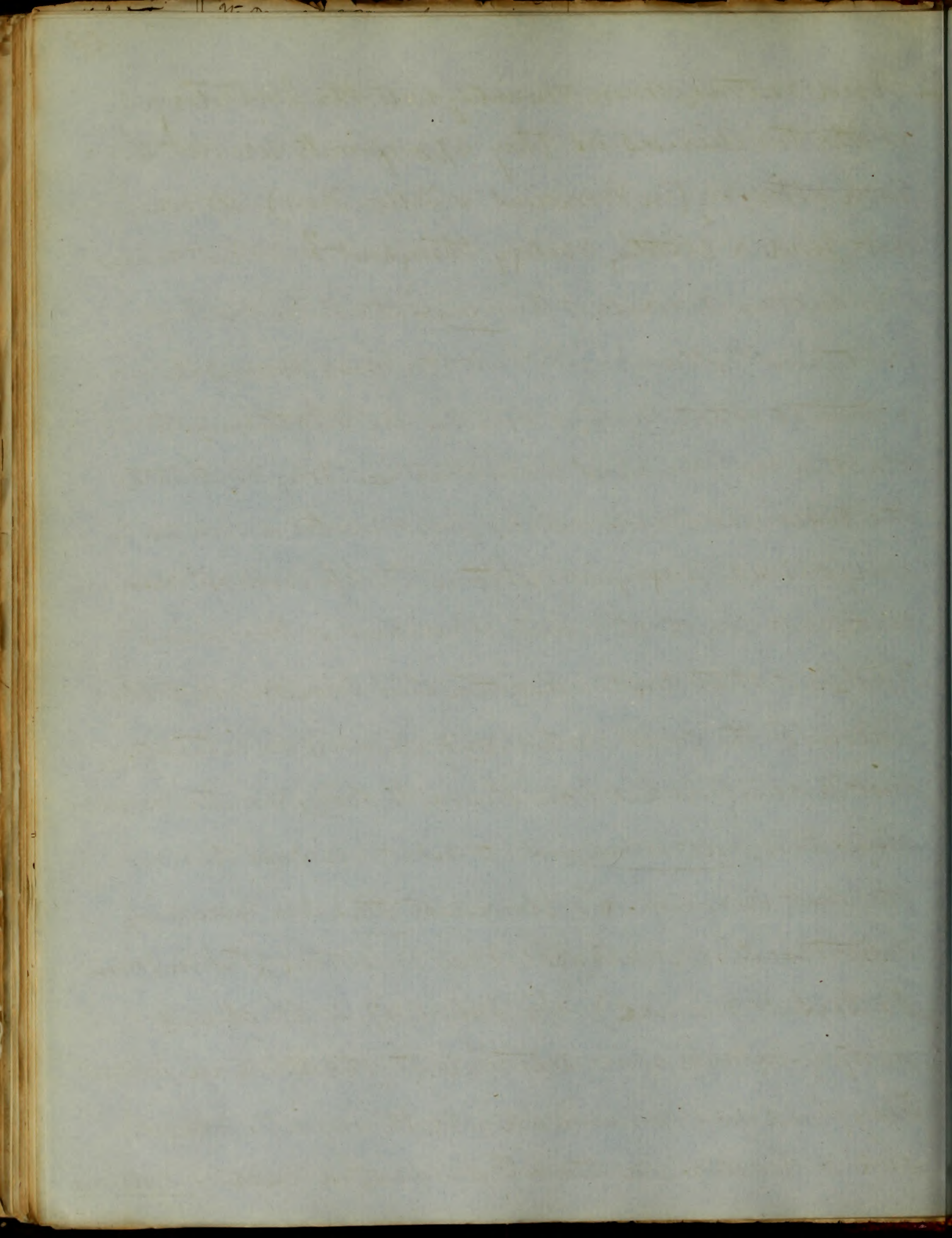


with such an array of facts as are ~~the~~ presented by the  
 Sierra Leone - the Acension, & the Gibraltar Cases to  
 Consider Yellow Fever as a derivative from Endemic Fevers,  
 and as dependent upon malarious intermittent, for its  
 origin and virtual violence, as is the ordinary  
 Pernicious Fever upon the poisons of halation, that in  
 a smaller dose would have been contented to result  
 in a simple Quotidian or Tertian - Let a Practitioner  
 be called from a mild case of malarious fever,  
 to witness a sudden incursion of Endemic yellow  
 fever, and he might look in vain for the connecting  
 link - but take that man to the Coast of Africa -  
 let him witness the endemic disease as did Sir Alexander  
 Buryson - let him see the "conversion of the Non Contagious  
 into the Contagious going on before his eyes; in the cases  
 in which Ships having been exposed to and having  
 suffered from the endemic fever, afford evidence  
 that this fever (or one indistinguishable from it) was  
 actually capable of propagating itself by Contagion, -  
 and he would find it an arduous task to draw  
 any line of demarcation between the two affections.

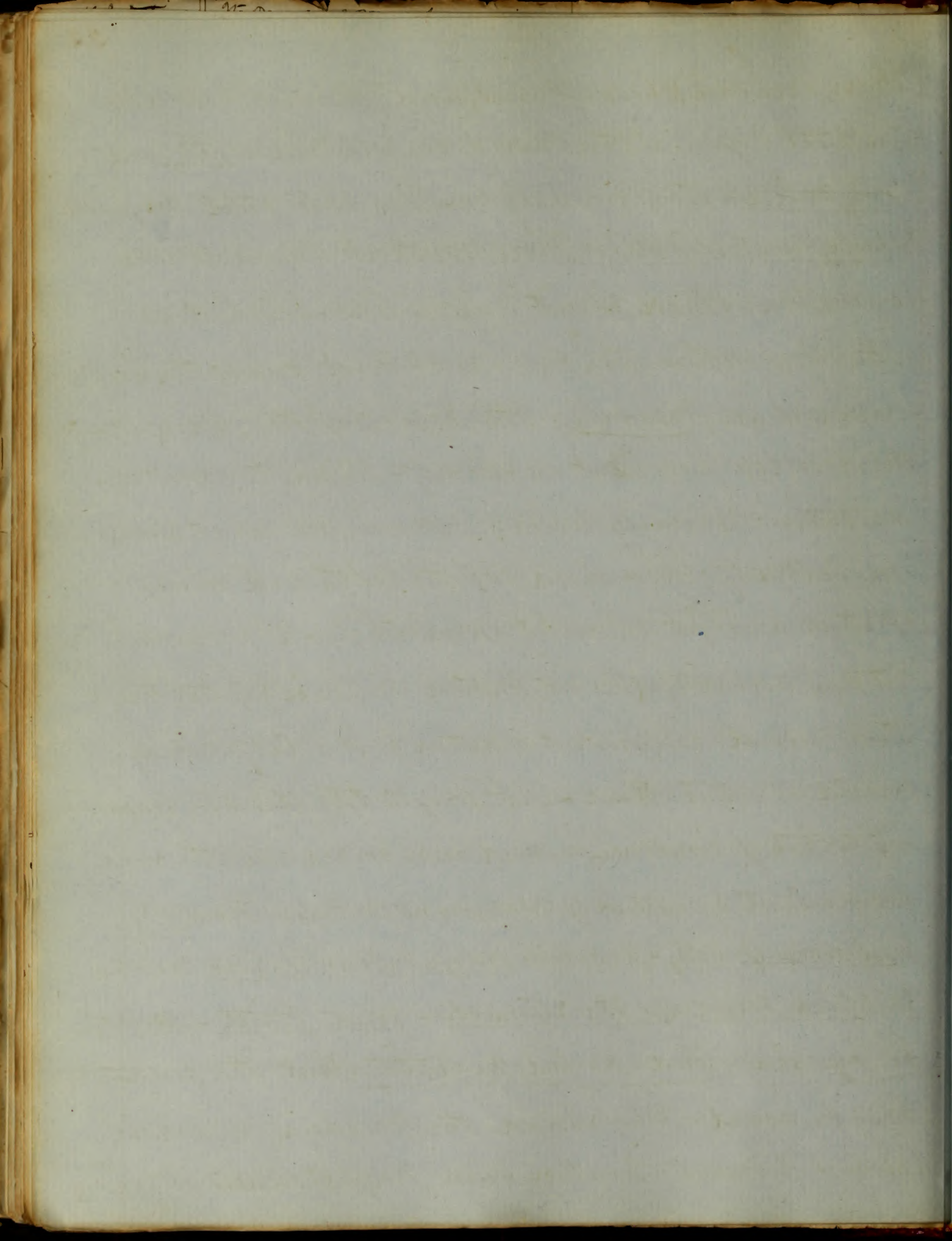




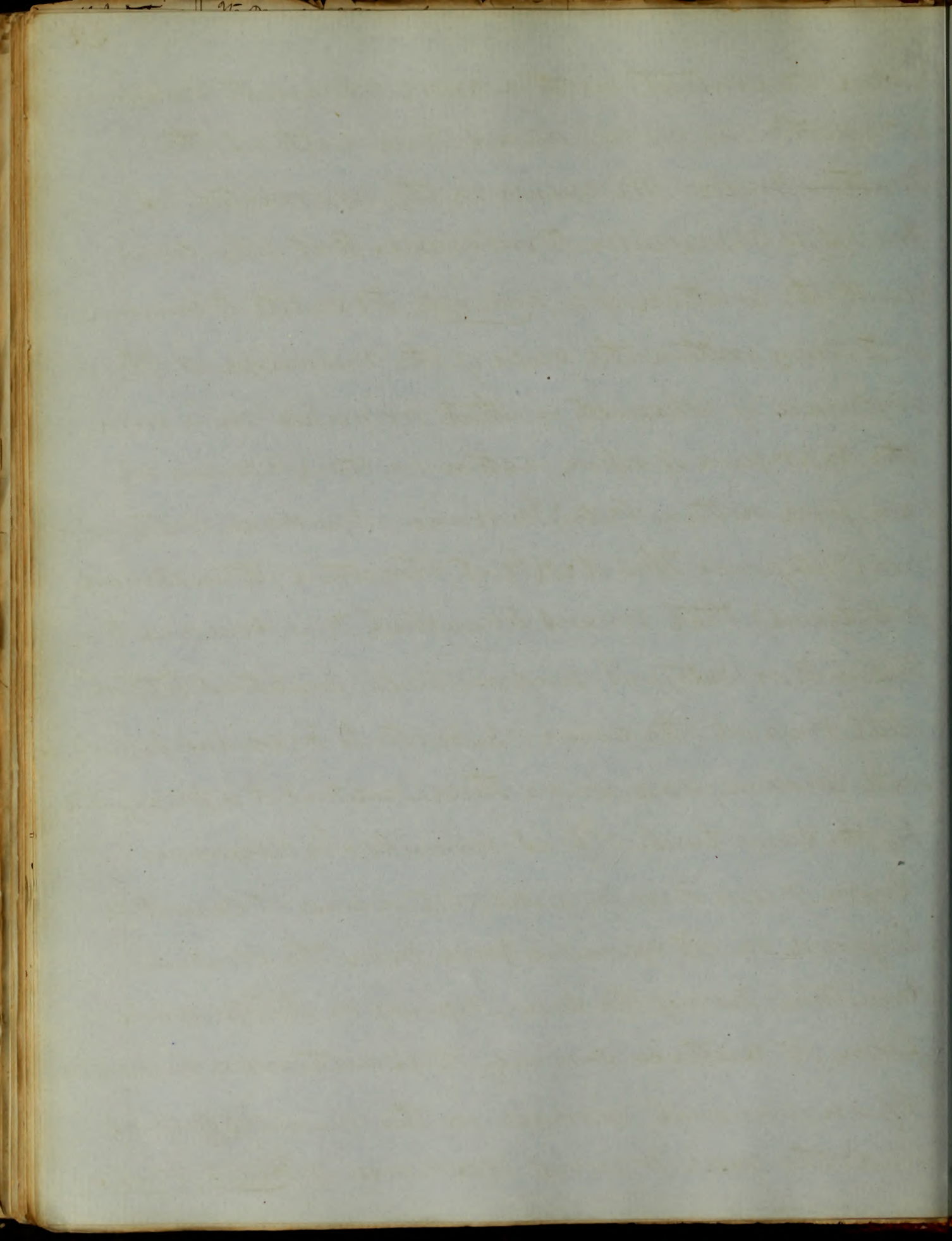
- And entering more minutely into the pathology  
 of the two diseases as they approximate nearest to  
 each other, viz (in Pernicious & Yellow Fever) - do we  
 not find a startling analogy throughout? What means  
 the sudden decrease of Pyrexia - "the fatal lull" of  
 Centipeds Yellow Fever? - but the more successful  
 attempts, that Nature makes in establishing the  
 reaction in Pernicious Remittent? - Why is it that  
 the malarious feaver which first excites a simple  
 ague, should progressively obtain to less complete remission  
 until at length it ends in Pernicious or Malignant  
 Fever? - but that some addition has been made to the  
 poison (of the same nature) only differing in intensity; -  
 just precisely as has been shown to occur in the examples  
 given; and just analogous to what we saw during  
 the last summer. To elucidate this, an exceedingly  
 interesting circumstance may be stated, (taken from  
 Dr Byson's Manual) "In July 1847 a Hockading  
 party of 30 men were detached to the Banana plantations.  
 They held no communication with any other persons  
 sick or healthy. On the 14<sup>th</sup> of August a case of malarial



Fever occurred, such as was, and generally does exist  
 in that Region. Other Cases soon followed = the first  
few mild - then gradually merges into that designated  
Malignant or Yellow Fever; with its characteristic  
 symptom, black vomit. How admirably does  
 this bear upon our Negro Fever - First came the exciting  
 cause of all, Malaria. The effects of this, being always  
 more or less prevalent in our city - failed to arrest our  
 attention. Gradually working its way, we see it gaining  
 in intensity encouraged by the filth and misery  
 of those amongst whom it operated; and probably  
 taking advantage (for its future violence) of the more  
 than usual impure condition of our city - which  
 existed at that time. At length the disaster reaches  
 its extent of violence - and now we see all the more  
 important symptoms of Malignant or Yellow Fever - viz  
yellowness of body - peculiar orange colour of skin, existence  
of black fluid in the stomach - great thirst - decrease  
of pyrexia - and fatal mortality. But the question  
 may be asked - Why should the malaria which is  
 always present - produce such fearful results at our <sup>period</sup>



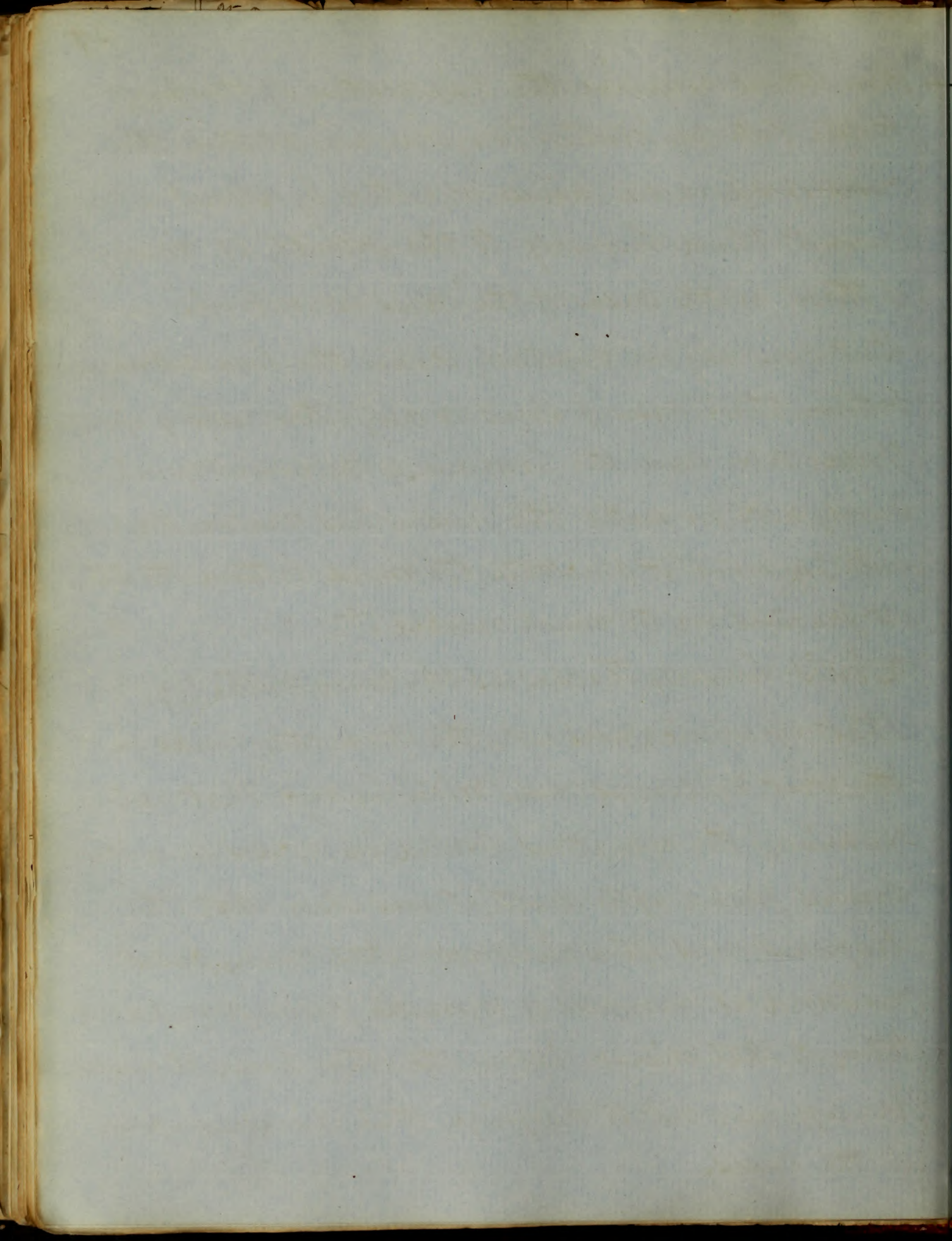
and be content with a more moderate development  
 at another do we not always have with us the  
*Materia Morbi* we answer in the affirmative as  
 far as is appreciable to our senses. But who can  
 doubt the existence of a principle too subtle to measure  
 or to bring within the scope of the microscope - or the  
 influence of Chemistry; that principle in a word  
 the expression of whose action we style (because we  
 can find nothing better) Endemic & Epidemic, Contagious &  
 Non Contagious. This it is (be it terrestrial, Atmospheric,  
 or Sidereal) that renders Remittent Fever developed to  
 Yellow Fever Contagious, under similar conditions to those  
 that impart the same character to Erysipelas, Typhus  
 and Cholera; and under these conditions it is propagated  
 by the same laws. If as remarks Sir Alexander  
 Bryson Yellow Fever be a distinct disease it cannot be  
 diagnosed in its sporadic form from the common  
 Remittent Fever of the same region; in its Epidemic  
 form its existence can only be ascertained or suspected  
 by an unusual increase in the number of cases,  
 and the more frequent occurrence of Black vomit.



Now let us examine the application of this fact to the late epidemic. Any one who studies the cases of Sporadic Chisase reported by Louis cannot bind himself to the identity of many of them with cases of the "Alms House Fever".

But can any one validly draw the line of demarcation between these cases of Louis, or any other cases of Sporadic Yellow Fever and the Epidemic of the same origin? - Surely not - for until the poison has matured into epidemic, it fluctuates too much between the two its features are too much masked.

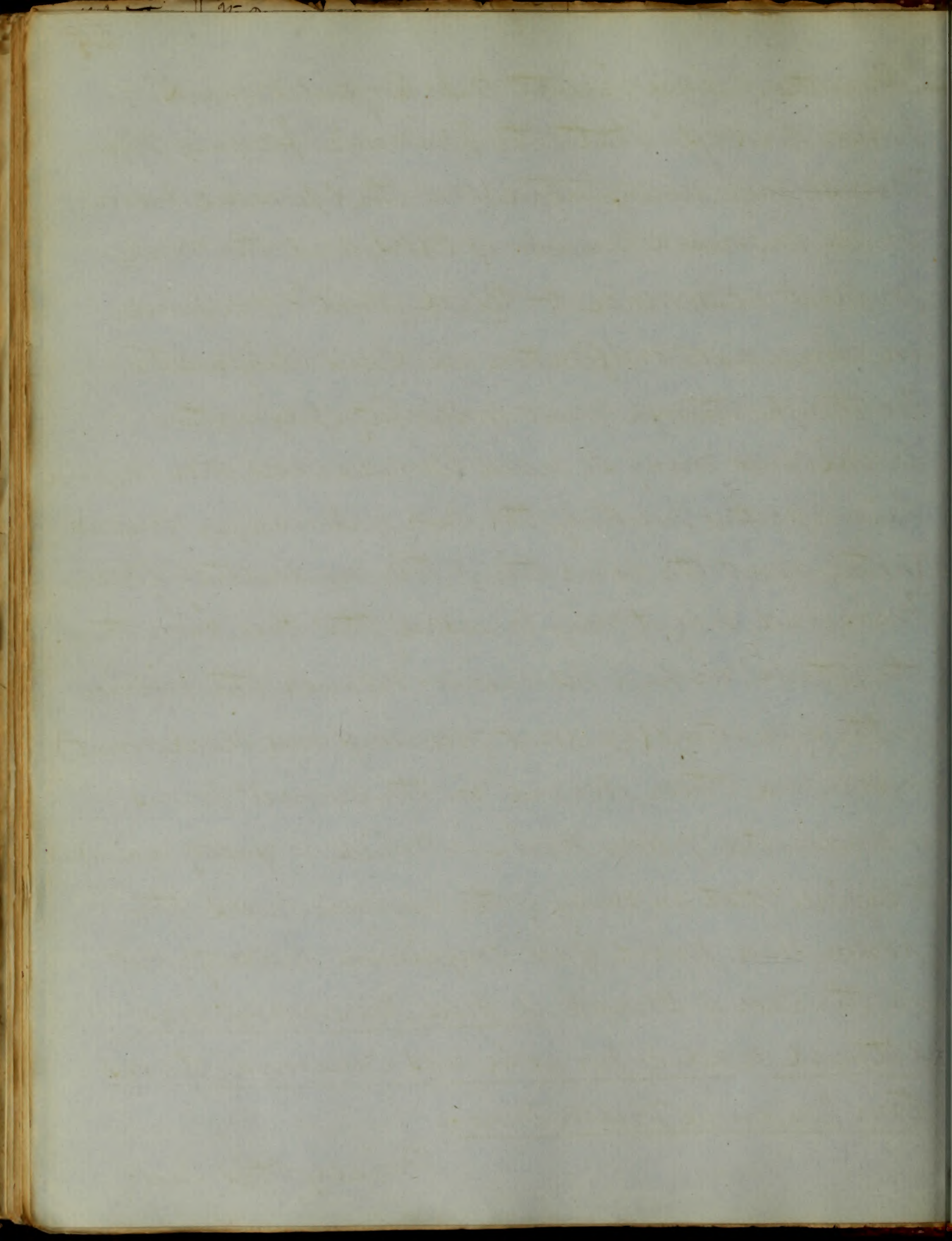
Louis himself teaches us the same truth viz that Sporadic cases are the connecting links in the great malarious chain when he says "That after examining the symptoms observed in 19 cases and the lesions found after death, it was clear that the diagnosis was often incorrect; that many cases considered as examples of Sporadic Yellow fever, did not belong to that disease but on the other hand it would be difficult not to recognize that disease in some of the cases."



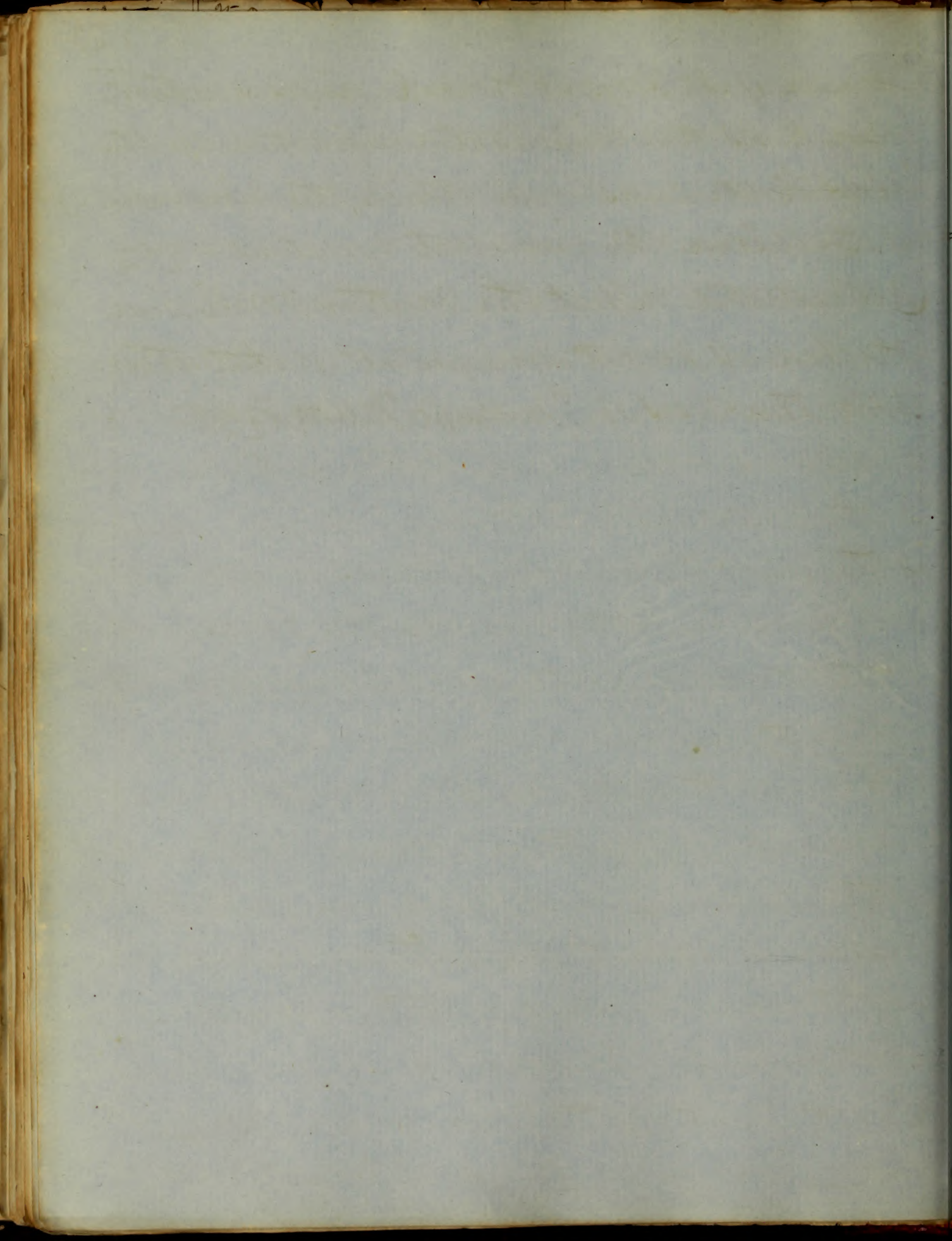


- Reverting for an instant to Dr. Bryson's remark  
 when he says "that the Epidemic form of Yellow  
 Fever is only distinguished (over the Sporadic form)  
 by an increased number of Cases, and the more  
 frequent occurrence of Black vomit" - we find  
 an immediate verification in Louis' Diagnosis.  
 For though through want of severity of symptoms  
 he discards many so called Sporadic Cases, still we find  
 him asserting positively, the Case of Dominique Bernaditi  
 (noted about the same time) to be undoubtedly - Yellow  
 Fever. And why, it may be asked: this Case more than  
 the others? we have his answer - "because the violence  
 of the symptoms (ie great yellowness and Black vomit)  
 resembled those observed in the severest forms  
 of undoubted Yellow Fever" - which is exactly equivalent  
 to saying, that in many of the Sporadic Cases, the  
 poison had failed of its maximum intensity; but  
 in the Case of Bernaditi a full development was  
attained, and so far as he was concerned, it was  
true Epidemic Yellow Fever.

Finally this last



- clause of Dr Boyce's remark finds another  
and to us all important verification in the  
"Alms House cases" - in which, the violence  
of the disease, the important symptoms & all  
are attended " That the Matris Morti had  
reached its perfect development & that there  
were four cases of Epidemic Yellow Fever.



In conclusion = Dr Arduce from what  
 1<sup>st</sup> That the Alms Fever of 1849, was  
 one and the same with the Gibraltar Fever of 1828.

= Wills = Symptoms =

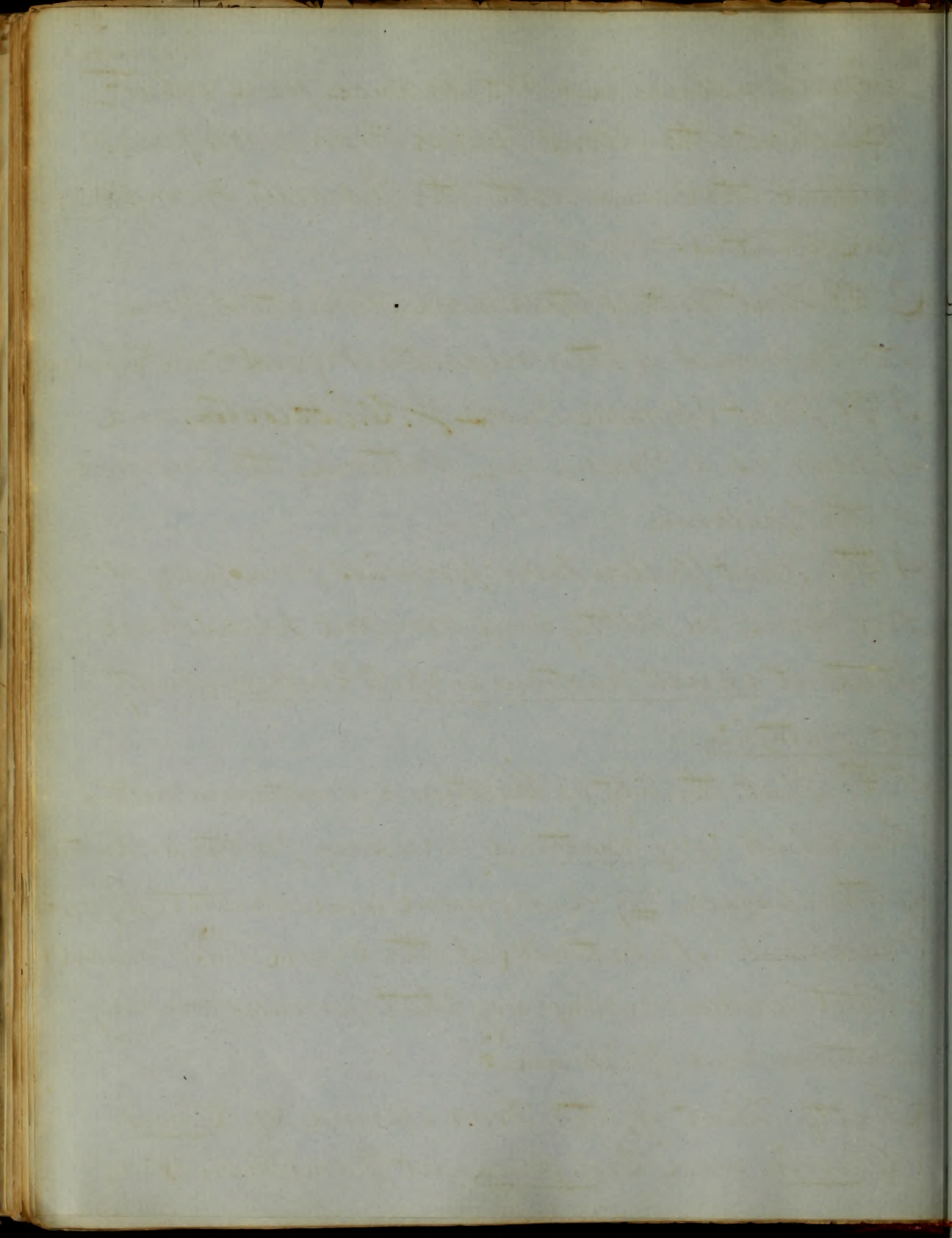
2<sup>ndly</sup> That both of these were derivations from  
 the endemics of their respective Regions = Wills (page 19 =

3<sup>rdly</sup> That Sporadic Cases frequently occur, and  
 appear as a Mediana between the endemic  
 & the Epidemic

4<sup>thly</sup> That Yellow Fever prevails principally at  
 low levels, in filthy and crowded places; and  
 that it infects particular spots independently  
of Contagion

5<sup>thly</sup> That the City of Baltimore contained within  
 her limits every material necessary for the production  
 of the Disease viz A rapid and dense population;  
malarious exhalations (as the Equator has inferred)  
 - that unknown Agency that prevails over every  
Contagion and Epidemic.

Lastly That if, the Fever described by Louis  
Cherwin, and Tousseran, at Gibraltar in 1828 -



- be true Yellow Fever - then must the Alms  
 House Epidemic of 1849 be the same. Whence it  
 follows = that we have just ground for classifying  
 it with other Epidemics of Typhus Febrilis, =  
 = which was the Act proposed.

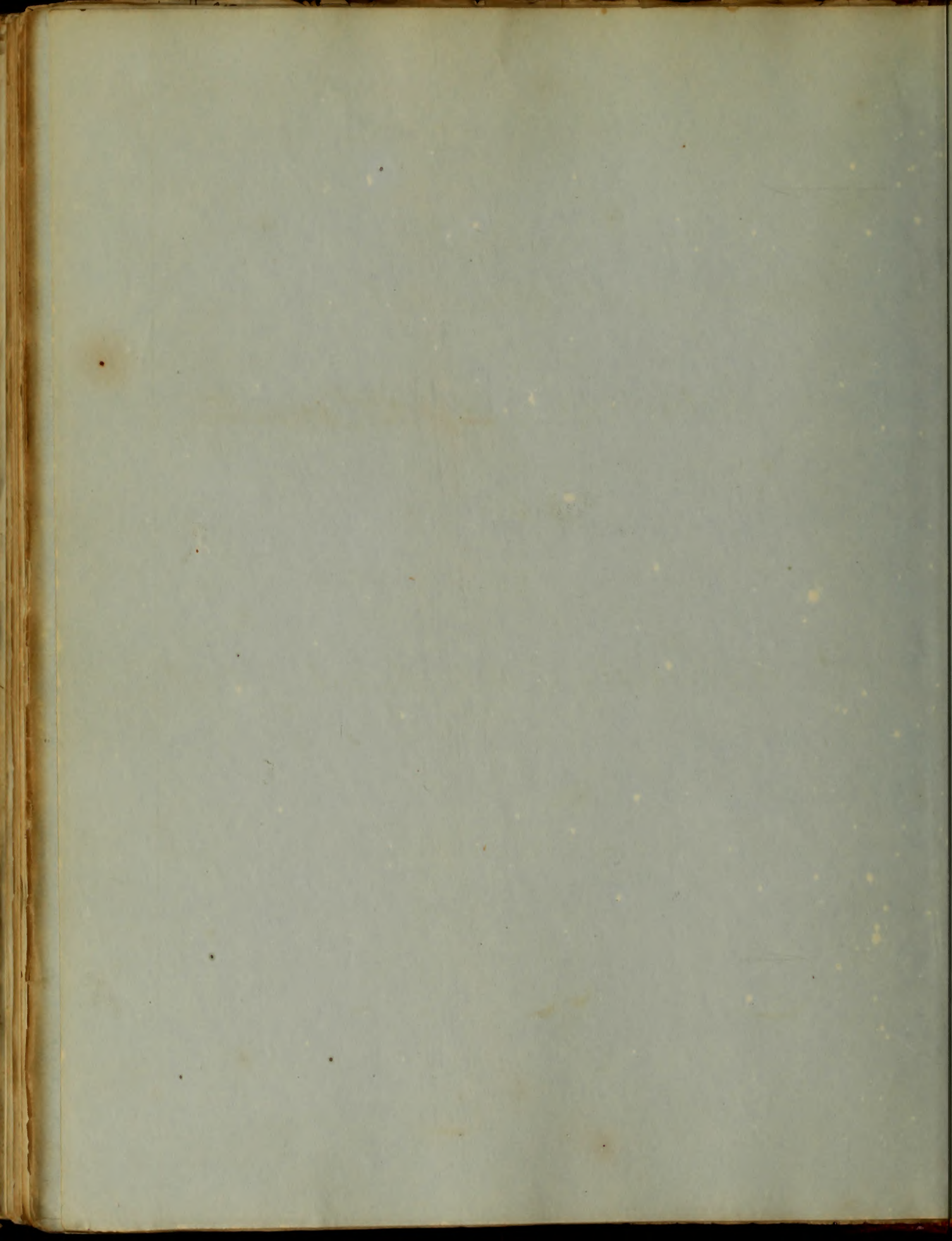
= Finis =

- J. C. Eccleston.

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*[Faint, illegible handwriting on a lined page]*



An  
Inaugural Dissertation  
on the  
Pathology of Fever,  
submitted to the examination  
of the  
Provost, Regents and Faculty of Physic  
of the  
University of Maryland  
for the degree  
of  
Doctor of Medicine  
by  
Samuel A. Stuart.  
of  
Maryland

University of Cambridge

Faculty of Divinity

Department of Theology

Department of History

Department of Law

Department of Medicine

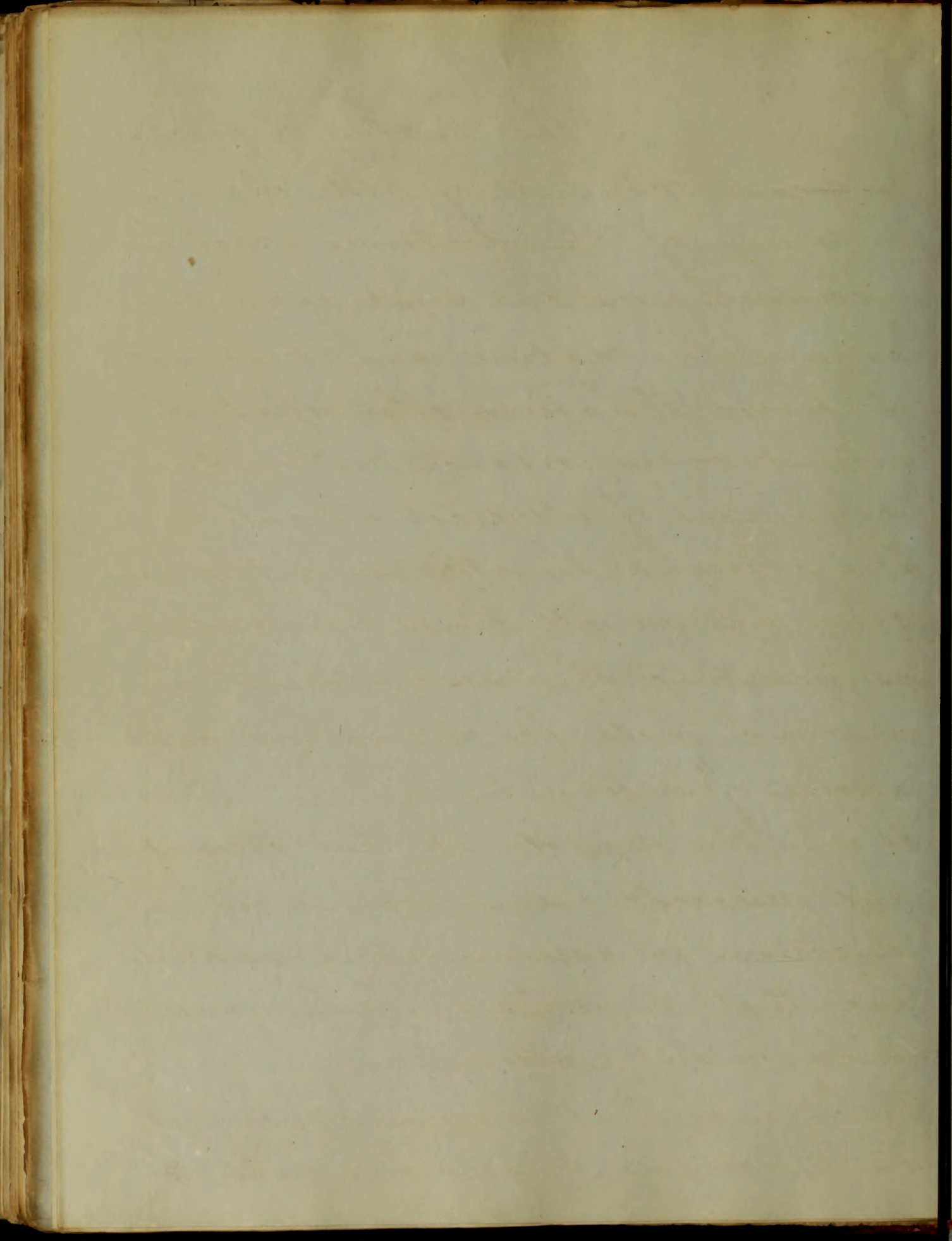
Department of Arts

Department of Science

The history of practical medicine, consists of little else than a review of the doctrines which have successively risen and sunk again concerning the nature and treatment of fever. Whatever other objects of interest or importance within the dominion of Medical Science may have attracted the attention of Physicians, Fever has at all times been viewed as presenting the most extensive and inviting field for observation and exercise of ingenuity.

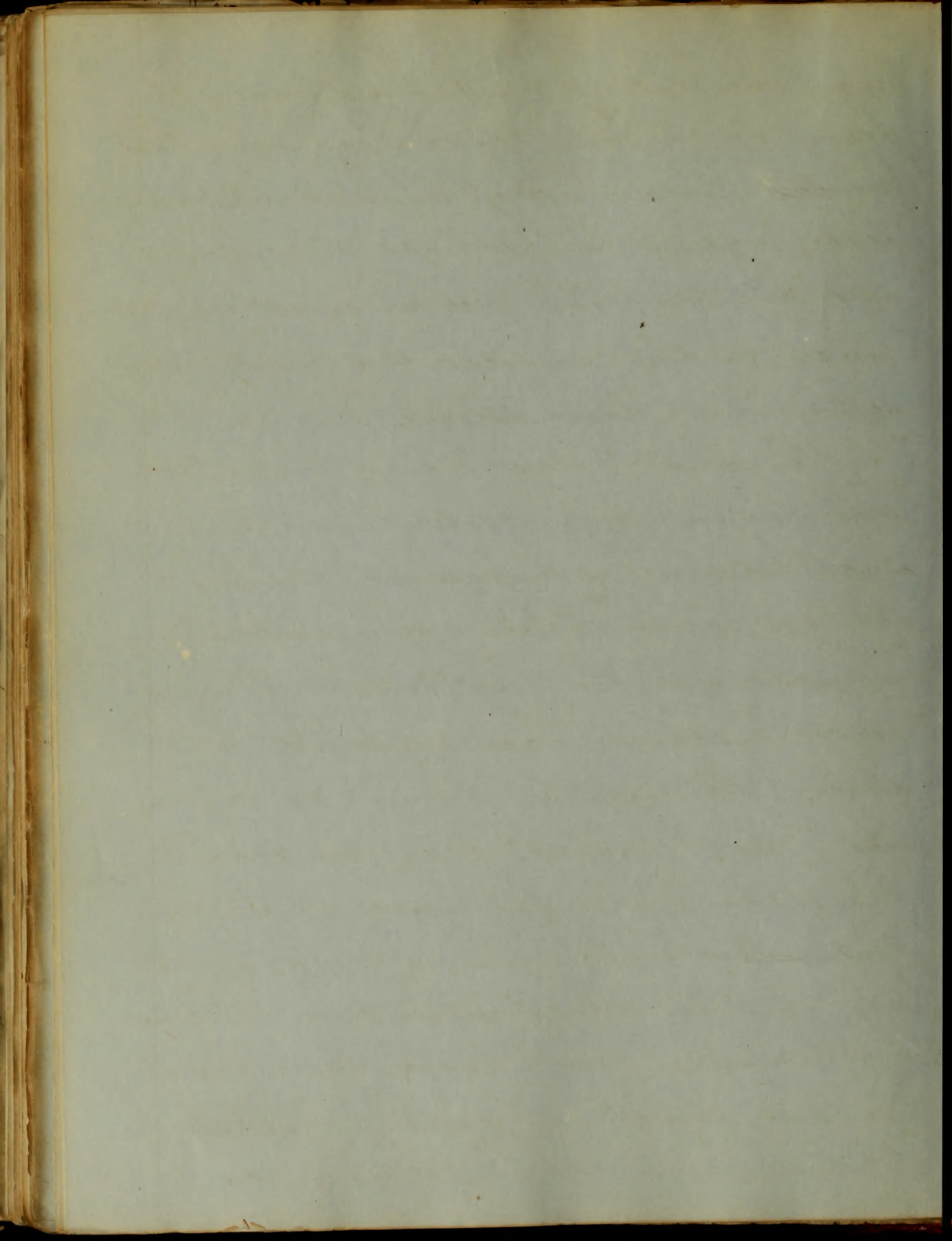
It is in this department that observation and research have been most industrious in accumulating materials and that hypothesis has luxuriated in her mildest exuberance.

When indeed it is considered that the Destroying Angel, has made his



most desolating visitations, under the form of febrile epidemics; and that in the long list of human maladies, fever, occurs in perhaps nine cases out of ten, the paramount importance of this subject, is strongly forced upon our convictions.

"If the except" says Van Swieten, "those who perish by a violent death, and such as are extinguished by mere old age, and which are indeed few, almost all, the rest," <sup>die</sup> "either of fever, or of diseases, accompanied with fever. Herodas in Pliny" he continues, "with what fear, and trembling the Romans endeavored to have, this universal disease, fever, appeared by their supplications, in the temple of Tanus; and hence perhaps it is, that fevers are called diseases, by Hesiod, and that Horace, calls

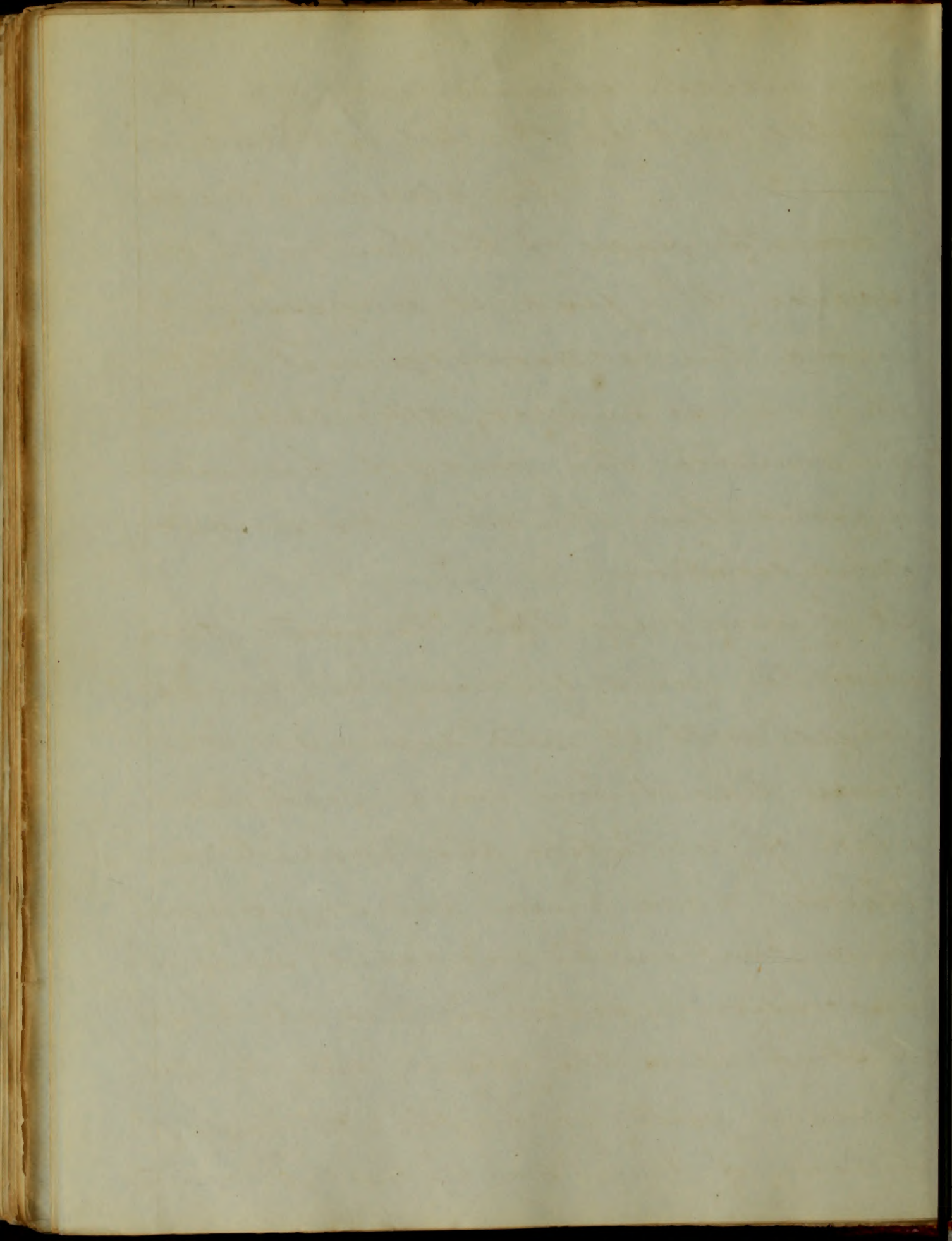




all diseases simply fevers, when they rushed out of the box of Pandora."

In glancing back upon the pages of the history of our science, we find it impossible to avoid the acknowledgement that there is no subject better calculated to humble the pride of human reason than the one now under consideration.

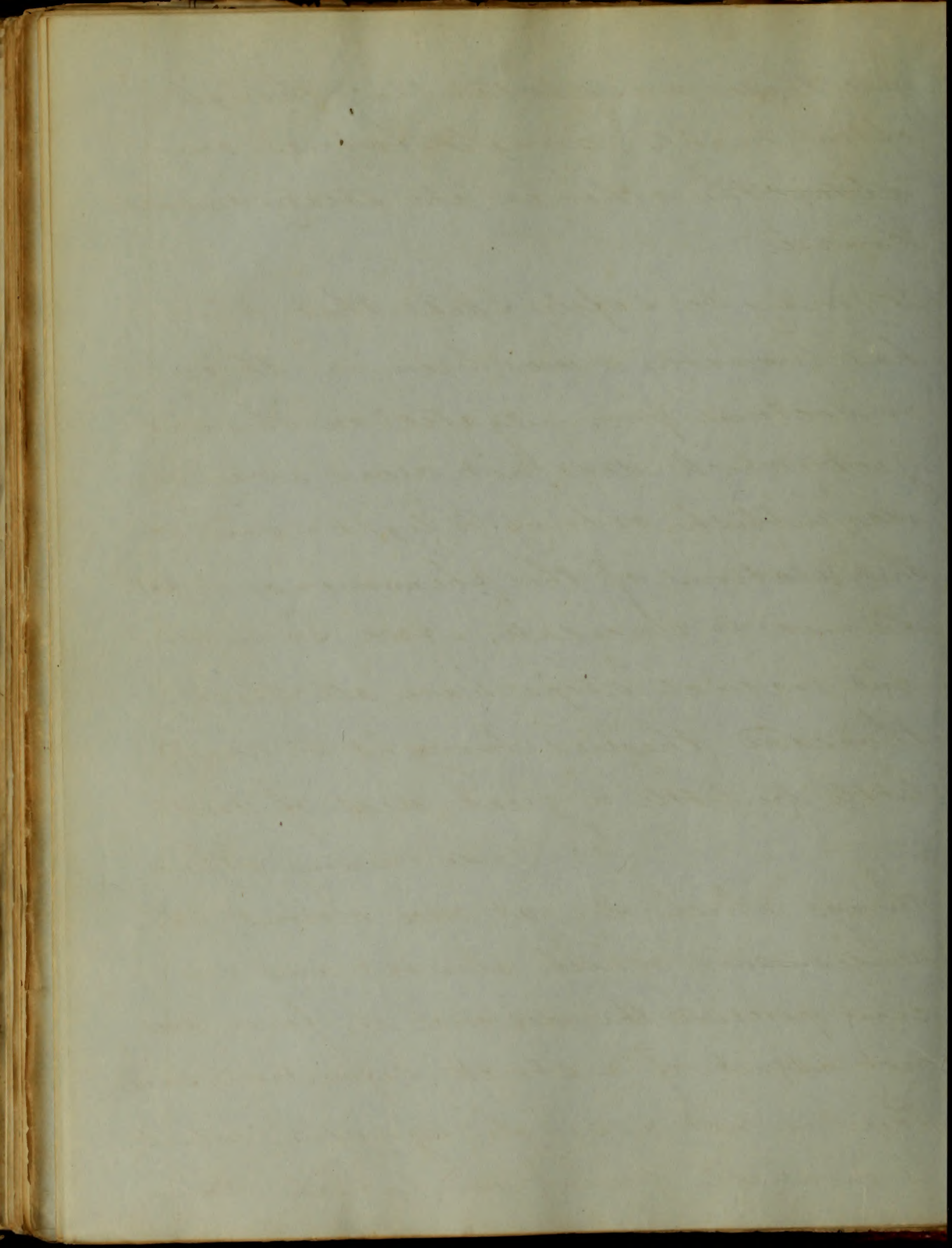
It is now near three thousand years since the mind of man has been engaged with it, and during all this time has it been in a continued state of revolution and instability. Theories have risen and sunk again in a continued and rapid series of succession; each has had its hour to "strut upon the stage," and its bo-  
dies to yield it faith. Although the stream of time has hitherto overturned



all these unsubstantial, though often highly wrought fabrics one after the other in its steady onward course.

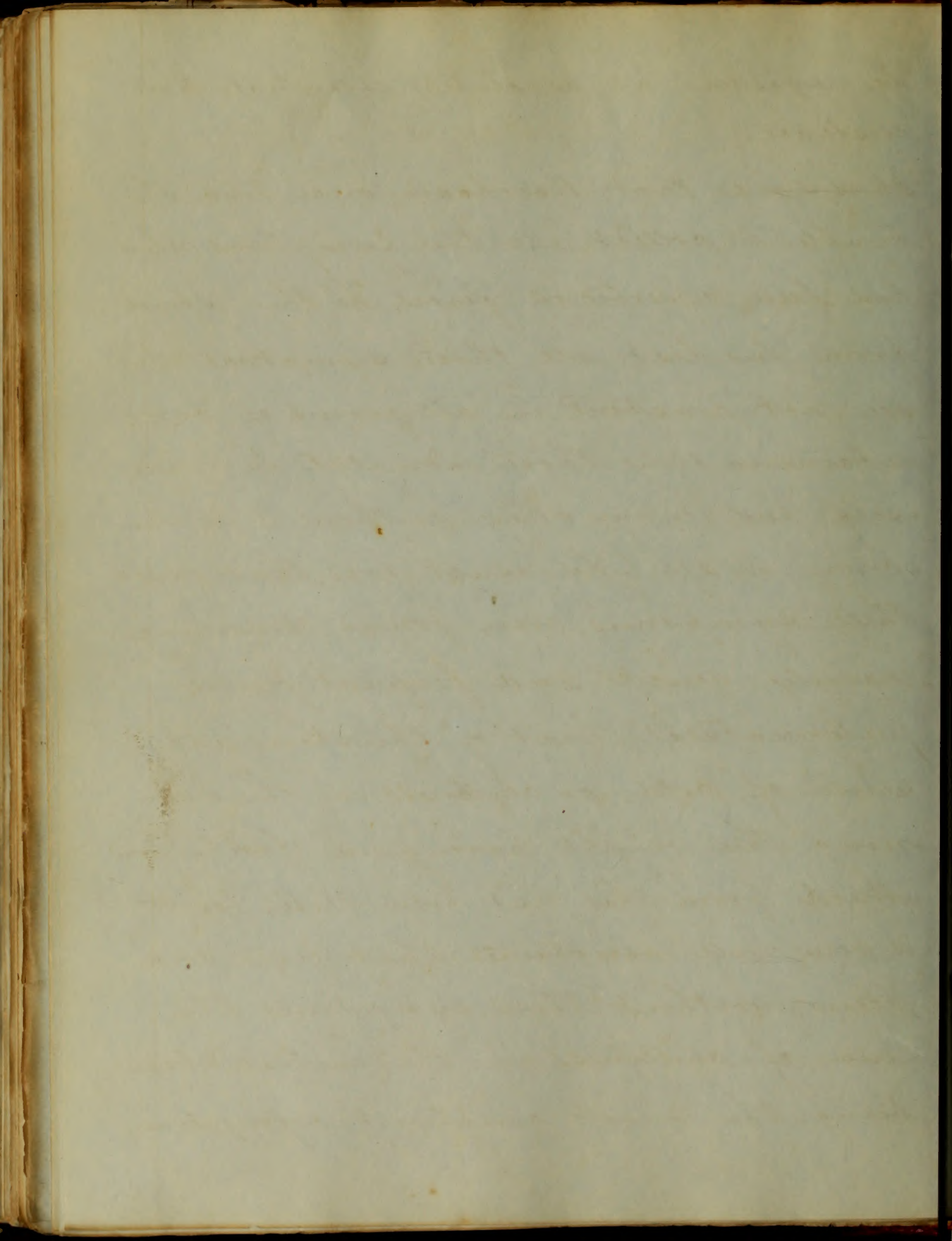
It may be safely said that there has probably never been a theory or doctrine promulgated on this subject which did not clear away some old rubbish or bring to light some of the relations of the phenomena it presumed to elucidate. And so by slow and gradual steps have all these thousand theories brought to view little by little a great deal of truth.

Like many other things which are at once obvious to the senses and which almost any one can perceive the existence of, fever, does not admit of a strict definition; since there is not a single symptom which is invariably present, and which can



be regarded as absolutely essential to its existence.

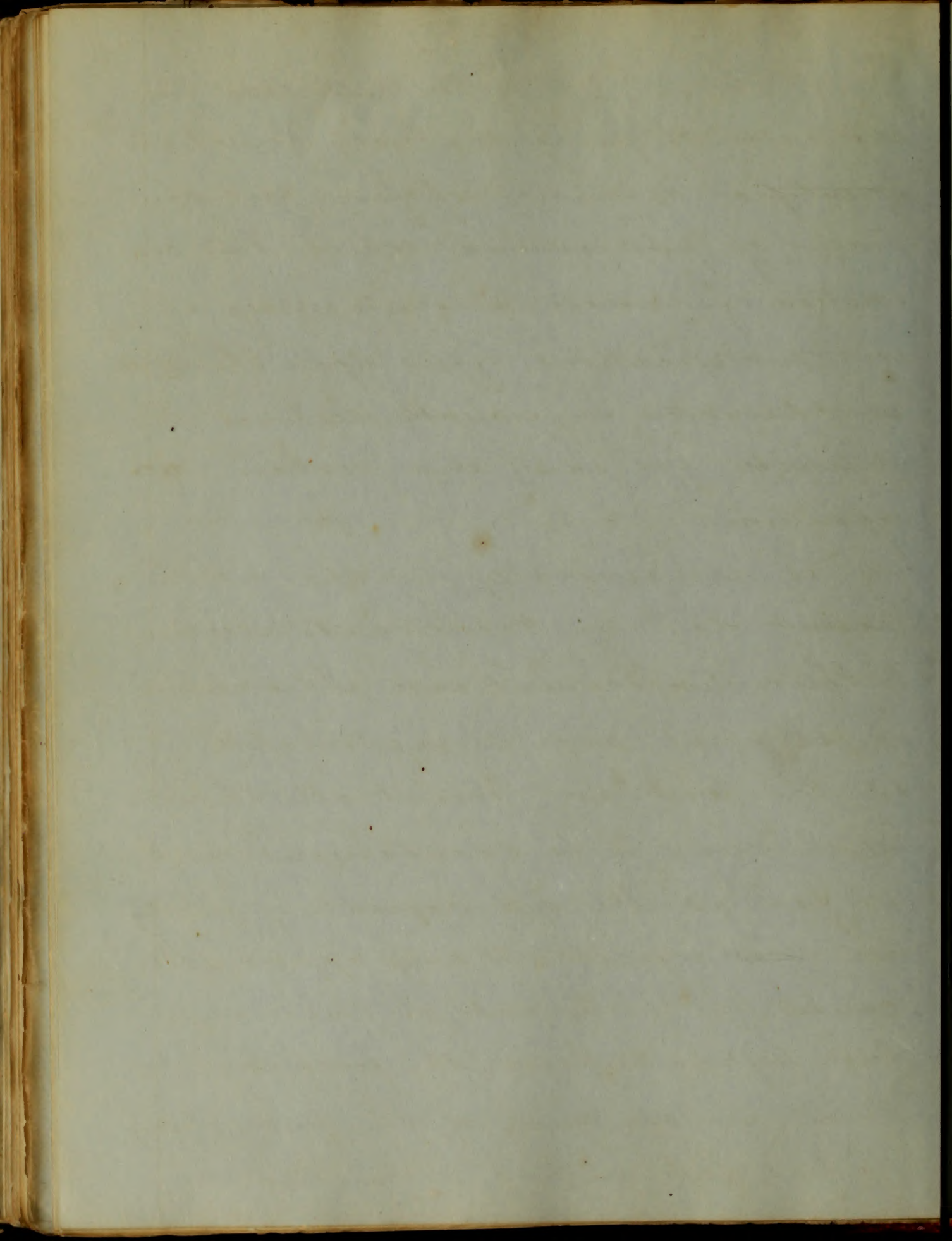
It is said that Boerhaave once took the trouble to collect all the symptoms which had been observed in fevers; he then struck from his list, all those symptoms which are not constant in all forms of fever, retaining only those admitted by himself and many other authors to be common to all. The result was, that only three symptoms, were found remaining, namely, quick and frequent pulse, preternatural heat of the skin, and sense of cold, or chilliness in the beginning. He might have gone further and struck from his list even these; for it is very well ascertained that fever does occur, without these symptoms; the sense of chilliness in the initial stage being the most constant symptom.



Notwithstanding the difficulty of giving a strictly correct and scientific definition of fever, yet the train of phenomena which this condition of disease presents under all its modifications, offers upon the whole a character sufficiently distinct and definite, for easy and certain recognition.

Fever, are generally divided at the present day by Pathologists, according to their development, into Idiopathic or essential, and Symptomatic.

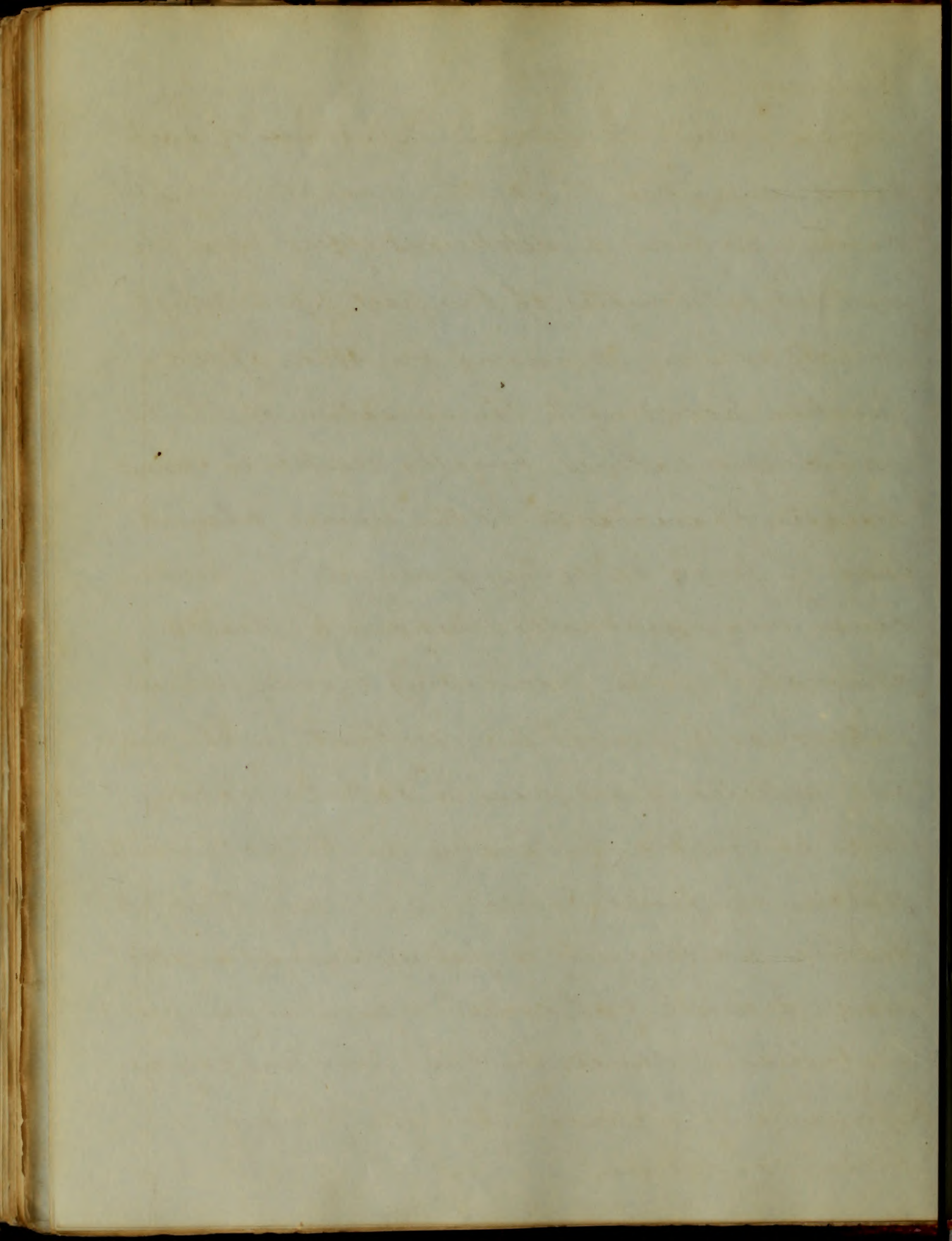
By the first are meant all those which seem to be spontaneous, and as far as We are capable of judging are not referable to any appreciable cause. The principal of these are, first. Typhoid fever (the fever "says Dr. Power" par excellence" of the present day) Typhus, Intermitting, Remitting and





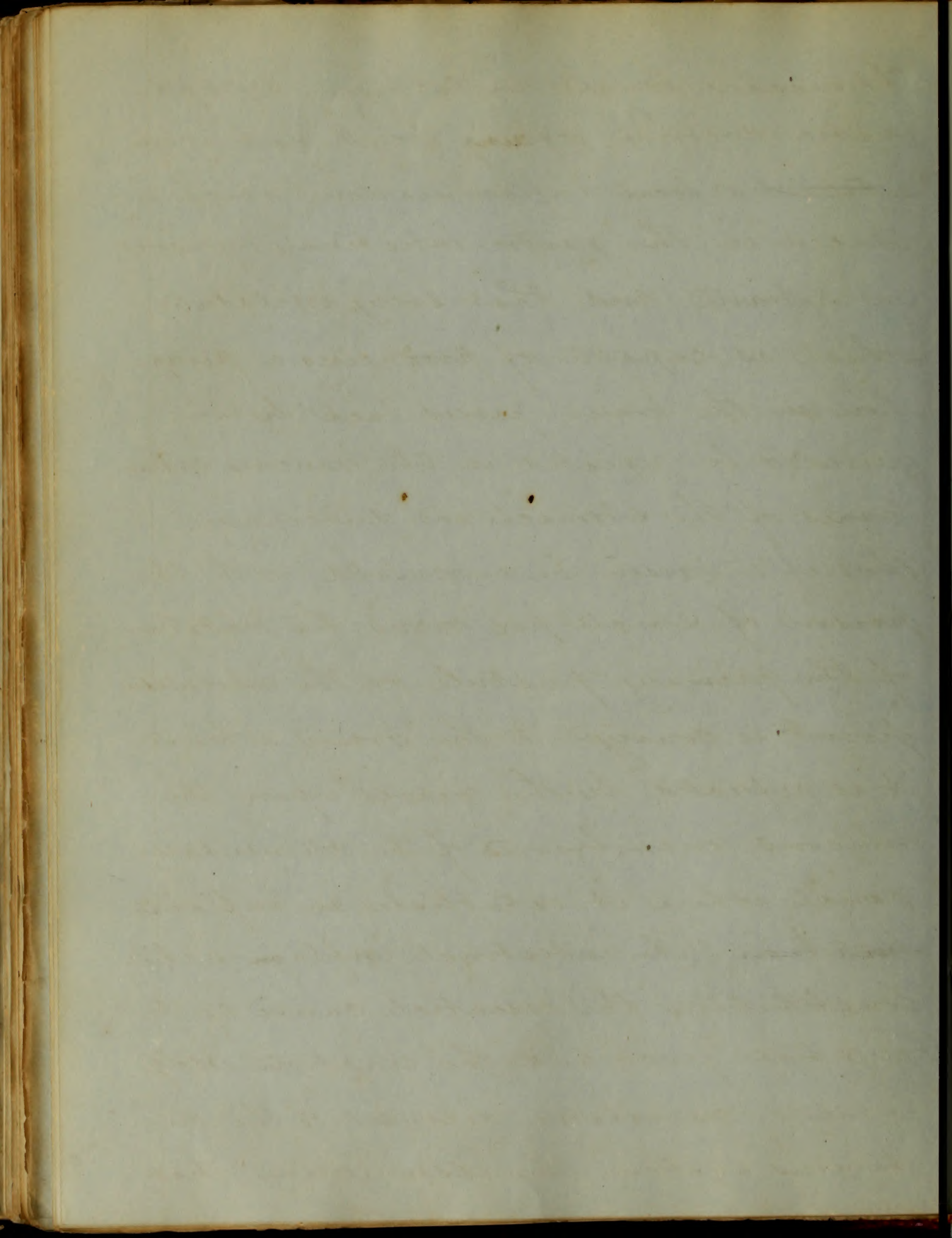
Yellow.

Those who admit the existence of such fevers, suppose that the remote febrific cause produces a deleterious effect upon the sentient extremities of the part upon which it acts, which deranging function after function according to the sensation of the organic sympathies, finally results in general disease, characterised by the general phenomena of fever; or, as they presume, the remote cause may gradually change the healthy character of the circulating blood, which acting as a morbid irritant on the heart and arteries gives rise to febrile reaction. It is contended by many, on the other hand that such fevers cannot exist, and that all febrile excitement is purely symptomatic, and dependent of course upon some pre-established cause, the one (Essential) symptomatic of a general and the other of a local condition.

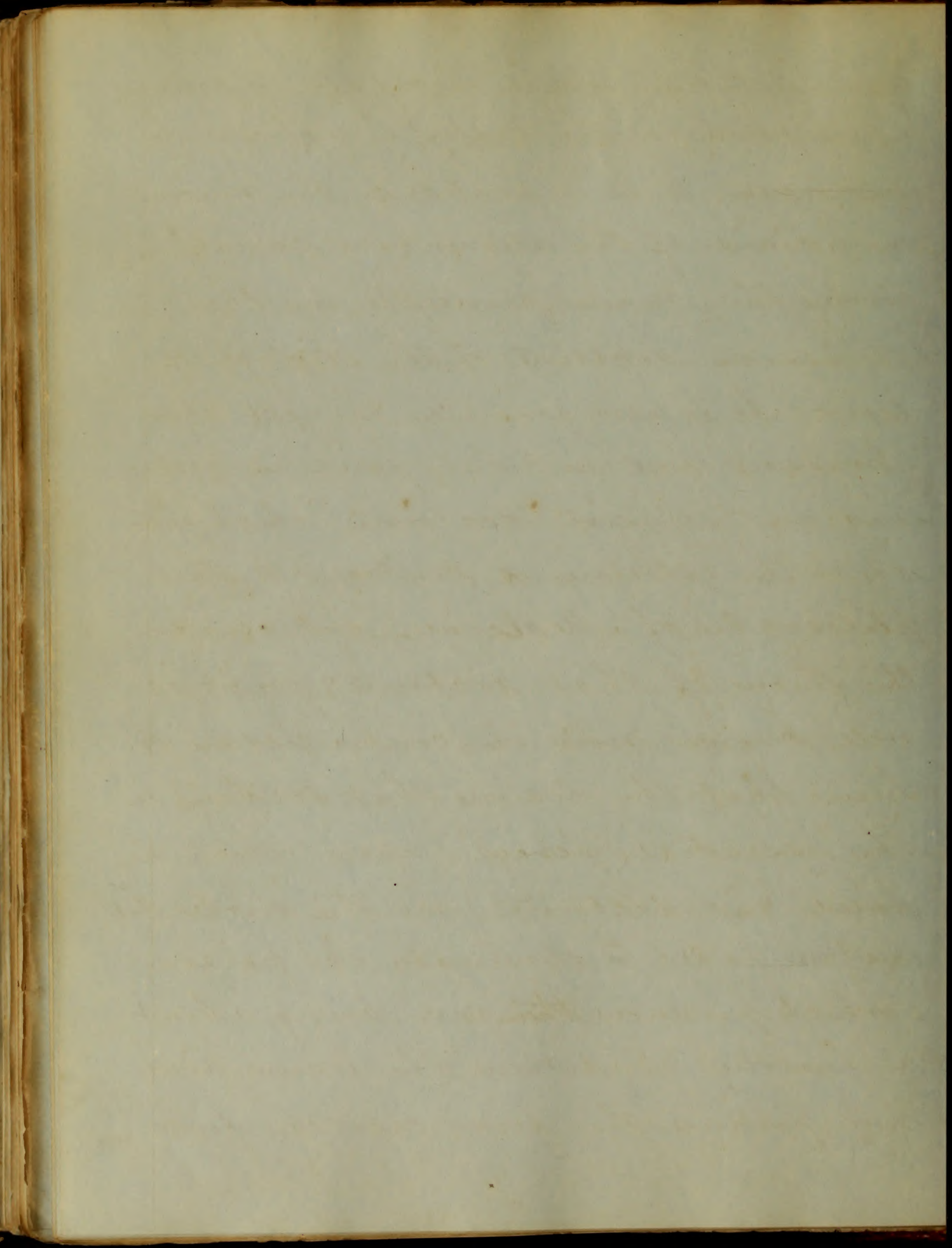


Troussais taught an exclusive symptomatic doctrine, referring everything to a pre-established local inflammation (which he placed in the gastro-intestinal mucous membrane) and that every irritation which is capable of producing a perception in the brain, passes back by the nerves to be repeated in the mucous membranes of the stomach and duodenum.

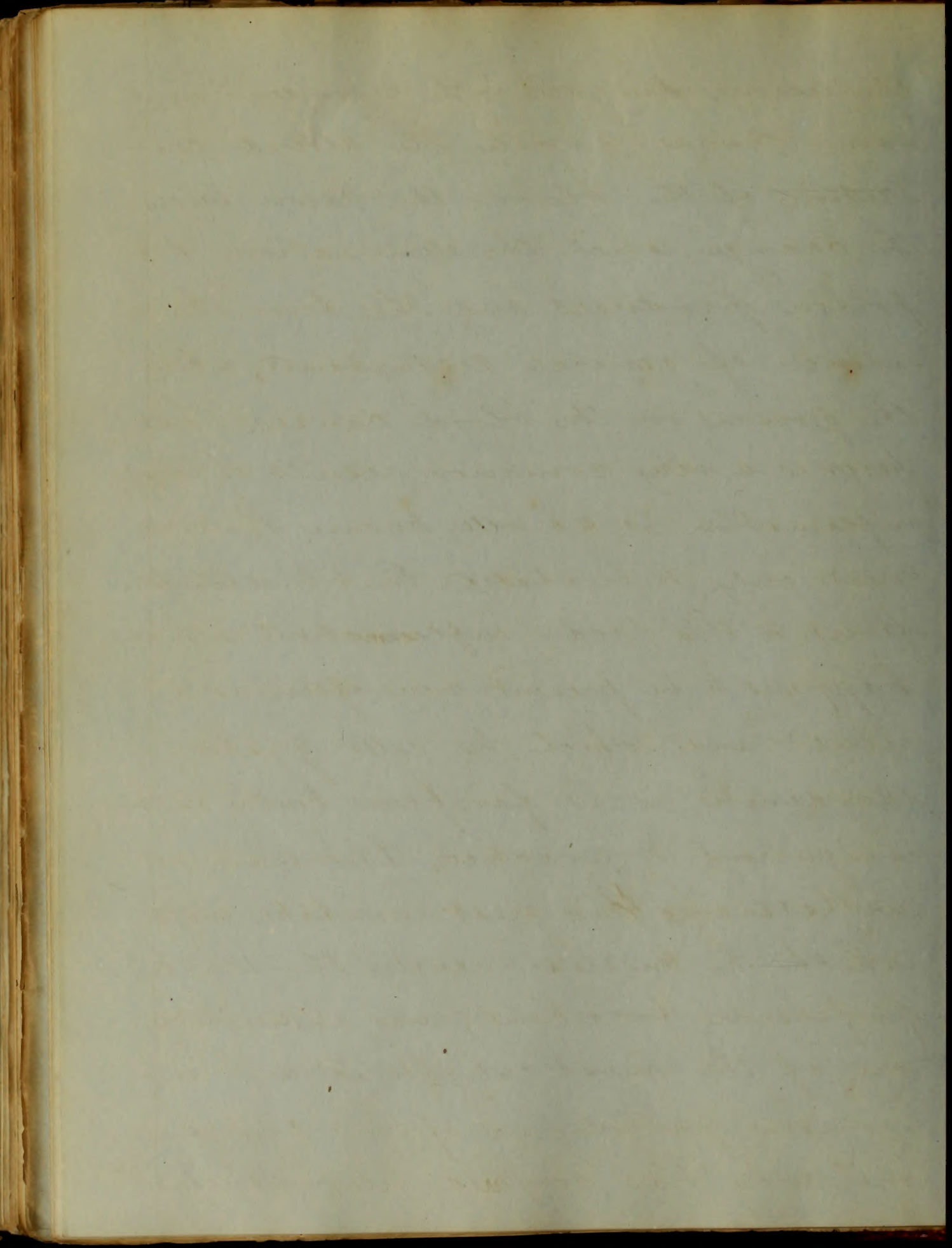
Thus if a person be inoculated with the poison of small-pox virus, the irritation of the primary pustule or the inoculated point, is conveyed to the brain whence it is reflected by the nerves upon the mucous membranes of the alimentary canal where it establishes an inflammation. The intestinal inflammation constituting the essential cause of the eruptive fever, and the eruption itself is only a metastatic disorder of the cutaneous system. This assumption "that



"every irritation which is capable of producing a perception in the brain, is reflected by this organ, to be repeated in the mucous membrane of the alimentary canal" forms the main principle in the Broussais doctrine of the etiology of fever. It is now generally thought that Broussais has not only erred in forming an exclusive doctrine (which pushed to the extreme is contrary to the philosophy of medicine) but also in the theory of that doctrine; for it is well known now in contradiction to him, that the lesions that we find in the essential fevers (upon which he based his doctrine) are the modes that nature takes to eliminate the poison - which produces them and bring about a healthy condition. The lesion does not produce the fever, nor the fever



the lesion, they are both dependent on the same cause, namely the altered condition of the blood, the lesion being the change which the elimination of the poison produces, and the fever the co-existence of general disturbance, which the poison in the blood causes. That fever is a very common result of local inflammation is so well known that it needs only to be stated. But to refer all fevers to this local inflammation, which happens to be present very often as a result and which he calls gastro-duodenitis, is as far from truth as it is injurious to practice. Broussais notwithstanding this great mistake with which he misled nearly the whole profession for a time, was undoubtedly one of the most enlightened and ingenious pathologists of his day and one who has conferred great benefit

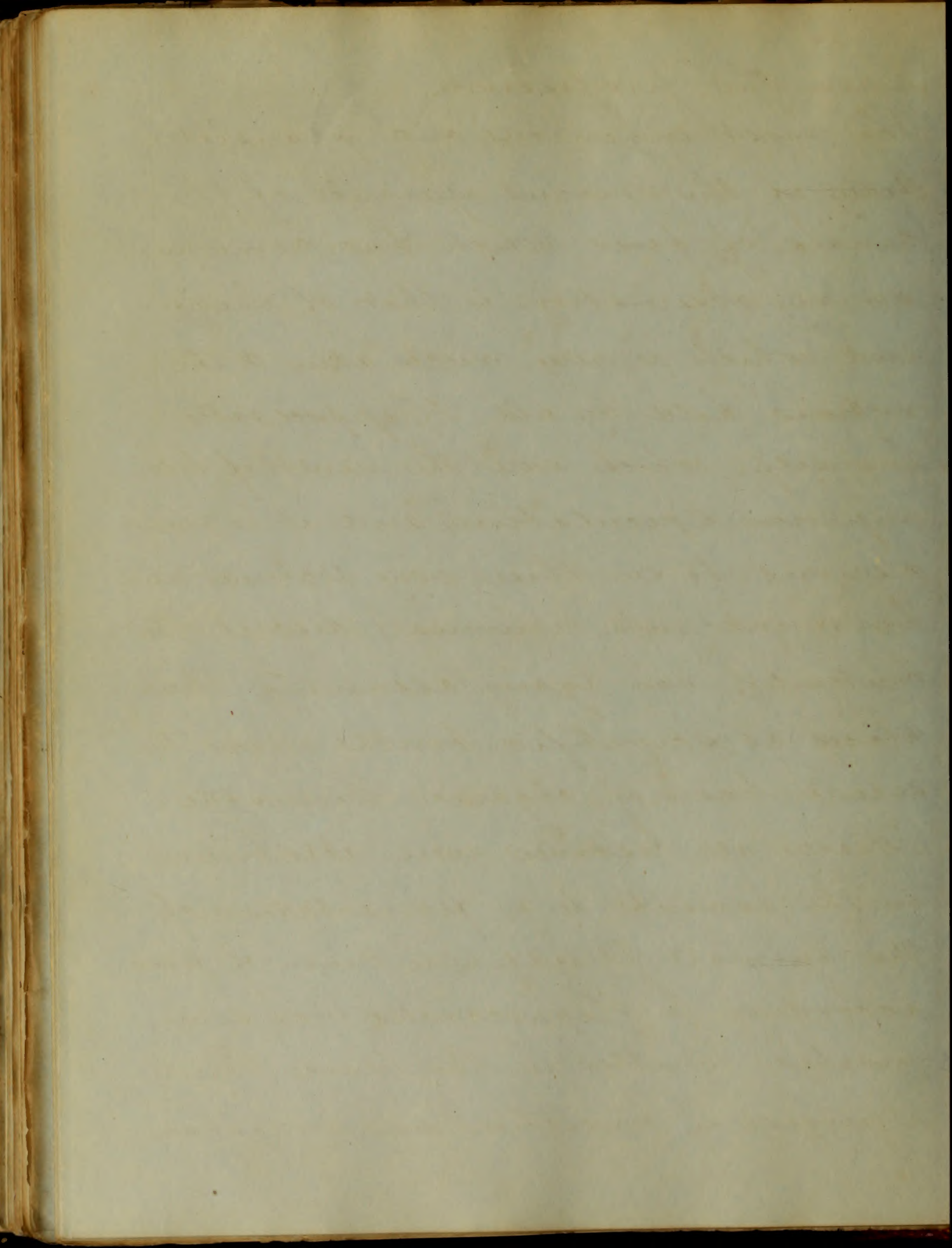




upon the profession.

The most ingenious and plausible theory of the *modus operandi* of the causes of fever which has come under my observation is that of Liebig and which is very much akin to the notions held by old Hippocrates himself, which were the result of cold unproven speculation; and it is most curious to see these very doctrines which had sunk into universal discredit and contempt, now again assuming their places as scientific truths upon the secure basis of organic chemistry.

Nearly all disorders were attributed by the ancients to a fermentation of the animal fluids. The cause of fever according to Hippocrates was some morbid matter in the blood. This by a process of concoction was brought in

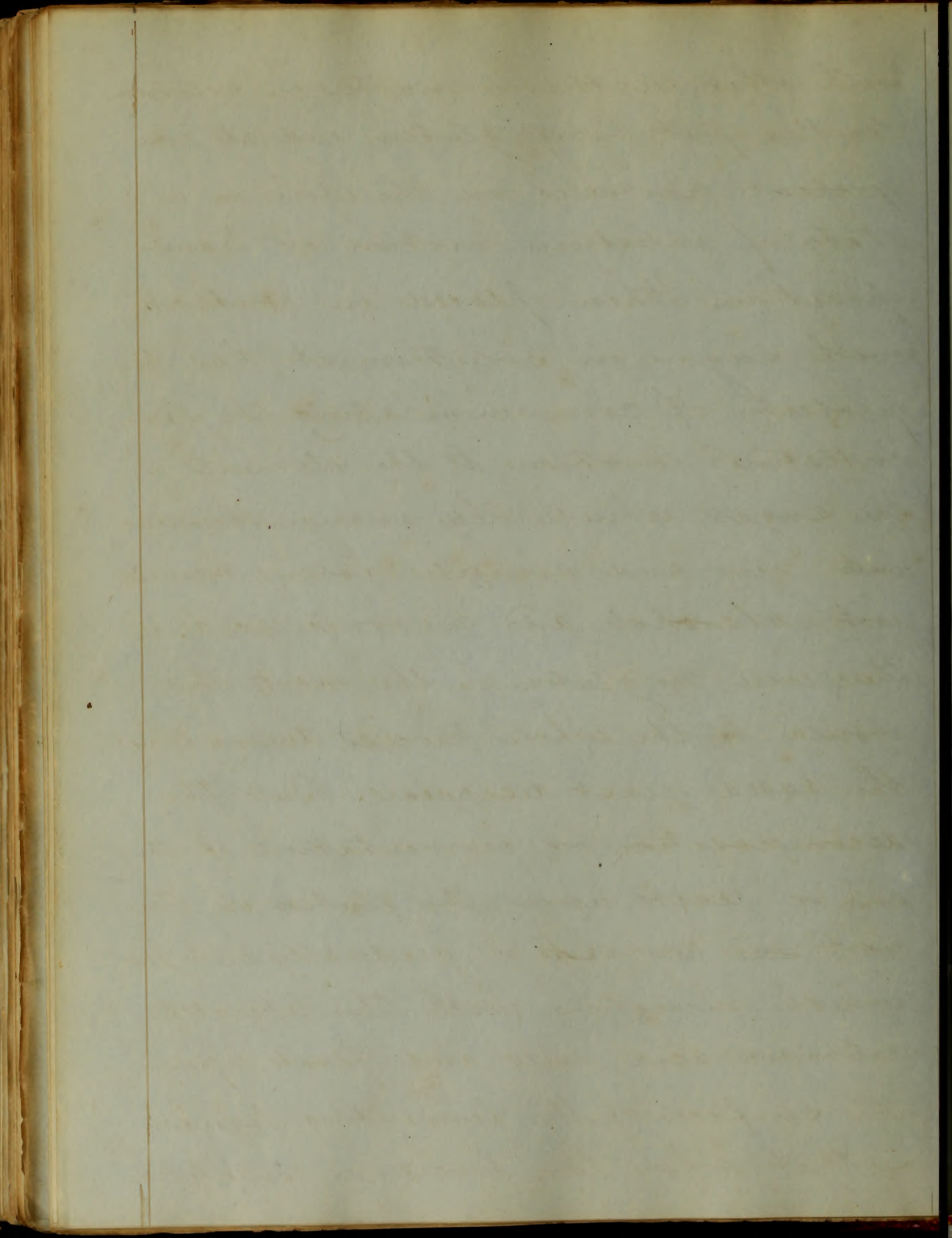


a certain number of days, into a condition in which it was ready to be eliminated from the system. It was then thrown off by hemorrhage, by the skin, or by the bowels, or deposited upon the surface in the form of abscesses or cutaneous eruptions and these eruptions or evacuations constituted the crisis of the disease.

The doctrine thus enunciated by the father of physic is very nearly the same taught by Liebig in the nineteenth Century. This distinguished chemist ascribes the phenomena which succeed the introduction of certain animal poisons into the blood, to a process exactly resembling fermentation. Fermentation is excited by the brewer, by adding to his sweetwort a small quantity of yeast. Wort is an infusion of malt and contains sugar and gluten with

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with other vegetable matters in solution  
Yeast is putrefying gluten, and its com-  
-ponent particles are therefore in a  
state of intestine motion or trans-  
-position. When placed in contact  
with sugar in solution, it has the  
property of communicating the same  
intestine motion to the elements of  
the sugar whereby they arrange themselves  
into new and simple forms, namely  
into alcohol and carbonic acid. If  
there were no gluten in the wort, this  
would be the whole process, during which  
the added yeast disappears. But the  
decomposition or fermentation of the  
sugar reacts upon the gluten in the  
wort and converts it gradually into yeast  
which mingling with the liberated  
carbonic acid, rises and floats upon  
the surface of the fermenting liquid.  
So that when the process is completed



there has been produced thirty times as much yeast as was originally added to the wort.

Now this is but a type of what happens to the fluids under analogous circumstances; and it may be laid down as an abstract principle in Liebig's, or rather his translator's words; that a substance in the act of decomposition added to a mixed fluid in which its constituents are contained, can reproduce itself in that fluid, exactly in the same manner that new yeast is produced, when yeast is added to liquid in which gluten is contained.

(Thus the virus of small-pox (which virus is formed out of the body) causes such a change in the blood as gives rise to a reproduction of the poison from the constituents of that fluid, and while this process is going on, the

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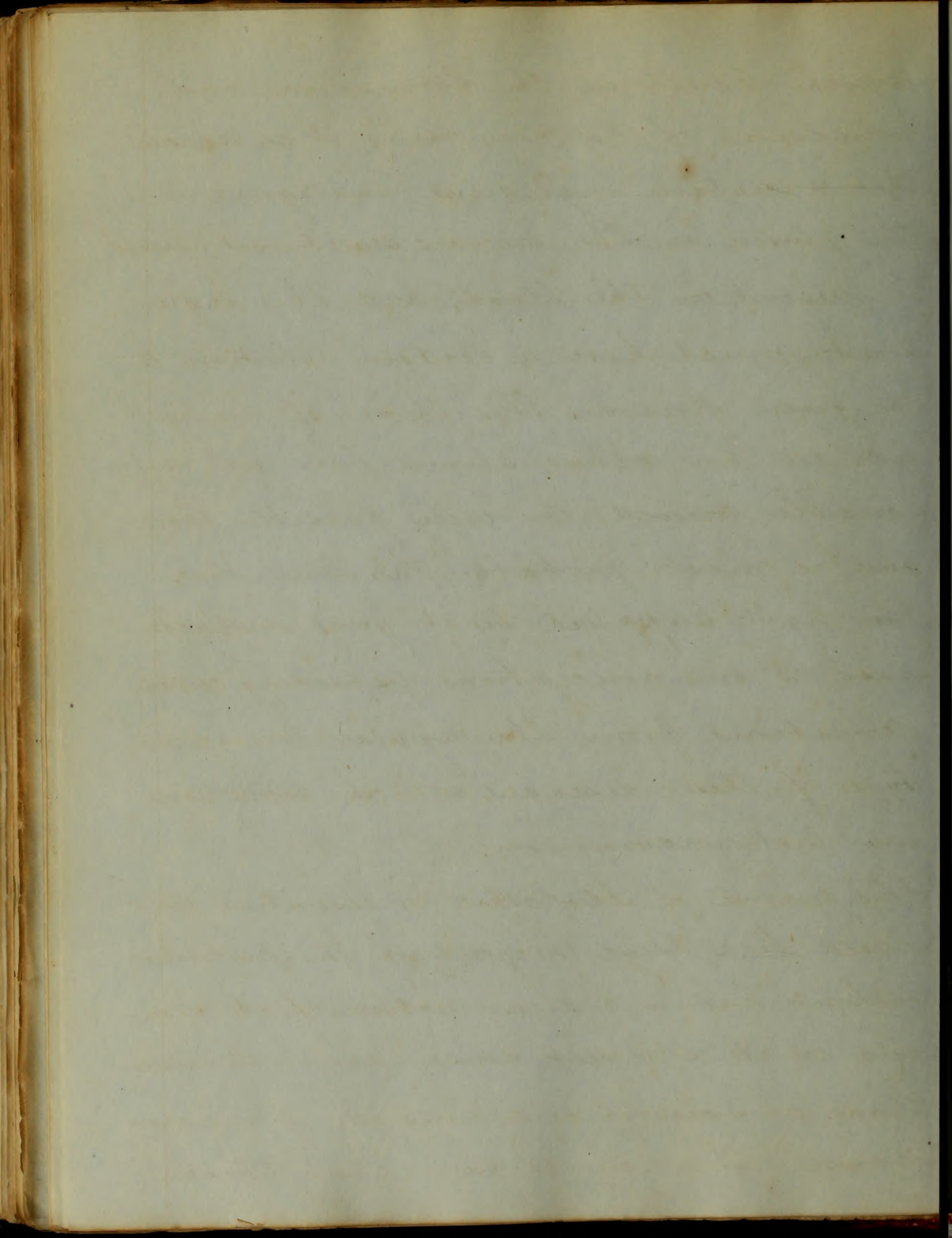
natural working of the animal economy is disturbed, and the person is ill. The transformation is not arrested until all the particles of the blood which are susceptible of the decomposition, have undergone the metamorphosis. Liebig shows that similar processes may take place in mixed fluids, and therefore in the blood, without the regeneration of added substances. Thus is disease of a contagious character propagated; and thus are diseases not carried on in the same way, not contagious. For instance, those fevers produced by animal poisons, as Typhoid fever, correspond to the former, and those produced by miasm, as intermittent, correspond to the latter. In order that a specific animal poison should effect its own reproduction in the blood and excite the commotion in the system,

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which results in the formation, and  
expulsion of the new virus; it is requisite  
that a certain ingredient (analogous to  
the gluten in the brewers sweetwort) should  
be present in the blood, and this ingre-  
dient must have a certain relation to  
the given poison. This theory of Liebig's  
like all his others, seems fair and re-  
asonable, viewed in every possible way  
and is most probably the true one.

The light supplied by it gives distinct-  
ness to our conceptions respecting certain  
deviations, from the regular course and  
type of these diseases, which deviations  
are not uncommon.

This name of Idiopathic or essential fever  
is used by a large majority of the profession  
without having a clear notion of its mean-  
ing in its strictest sense; nor is it more  
than a scientific expression for igno-  
rance. (It is very certain that these



that these fevers have some cause, as there is no effect without a cause and that the phenomena of fever in this case is primary to any local cause, all the advocates of this doctrine admit. But what the ultimate producing cause, and by what means the effects are accomplished of this (so-called-for-want-of-a-better-name) Idiopathic <sup>fevers</sup>, we do not, and perhaps never will know anything about. They must receive some general name by which they may be spoken of, and for this purpose their present appellation, is as useful and appropriate as any other, and until it is admitted by everyone, that all fevers are symptomatic (which I trust to be not far distant) this name must serve the purpose it has heretofore done.

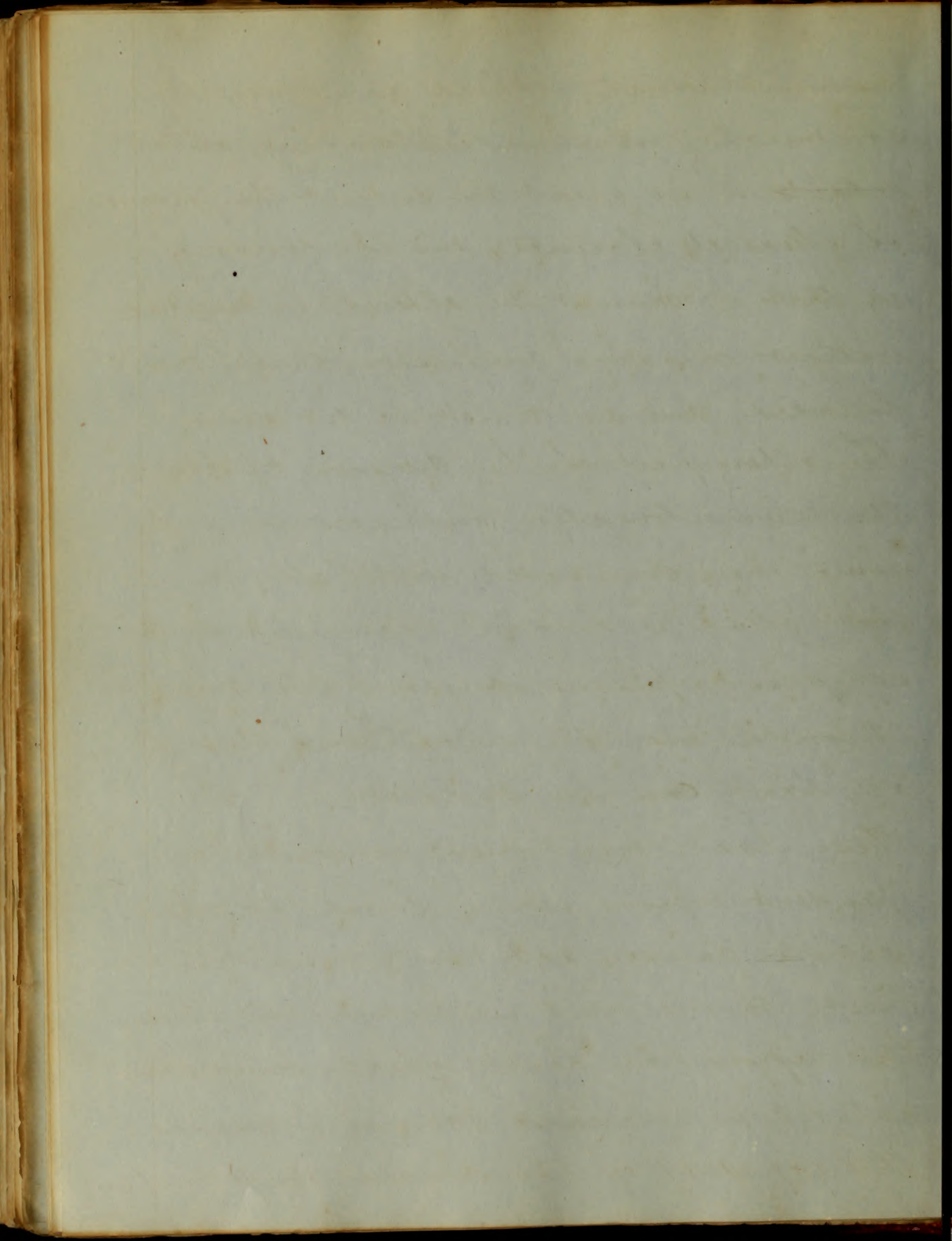
I cannot refrain from here mentioning, and deploring, the sad confusion which now reigns over our medical

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nomenclature, which gives rise to so much misunderstanding, and retards to so great an extent the progress of Medical Science, and the worst of it is, that it cannot be altered or remedied without making confusion doubly confounded, and so must be let alone.

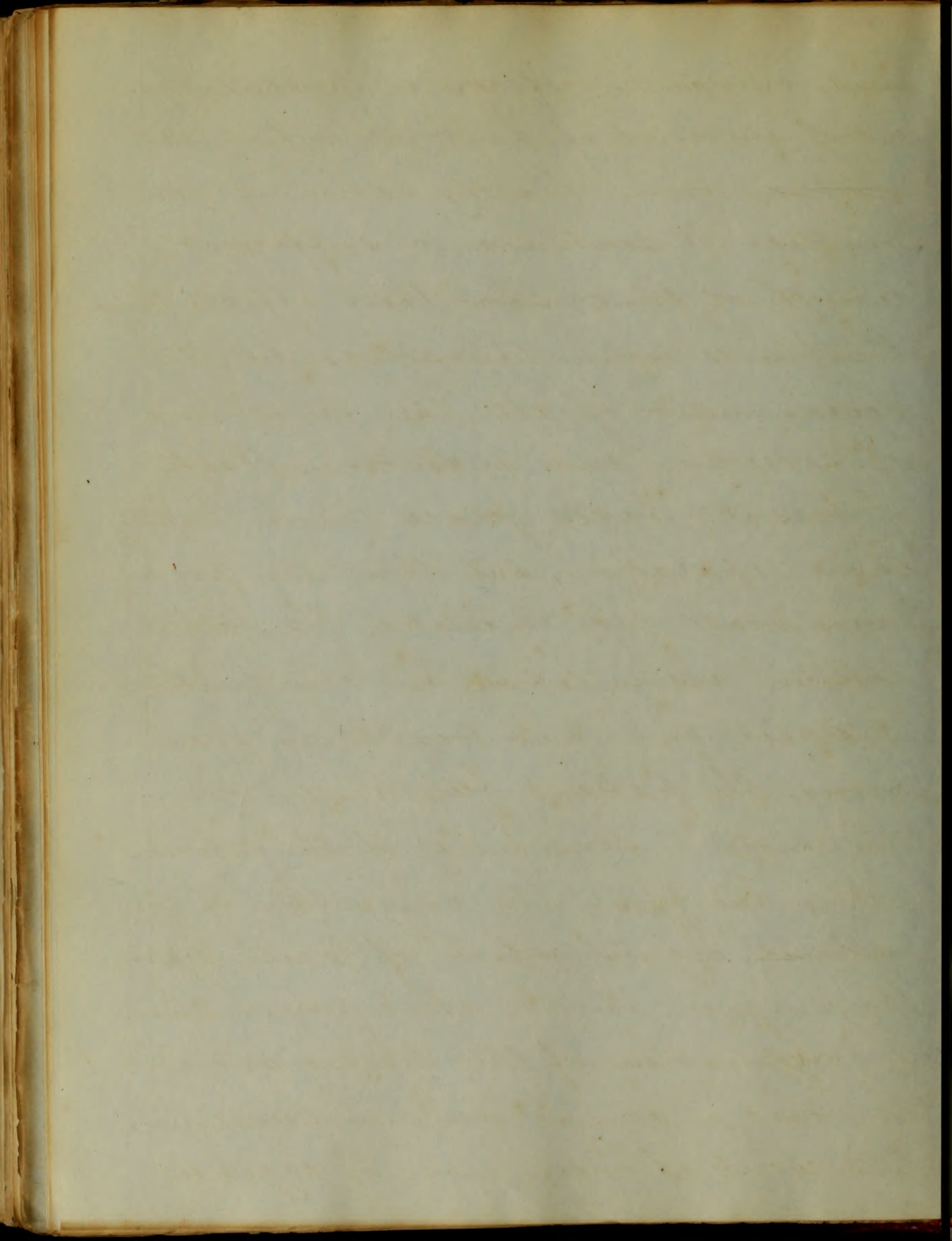
The other part of the division of fevers, the Symptomatic, embraces, or is in some way connected with "all the ills that flesh is heir to." beginning at the simplest ephemeral fever, and going through ~~all~~ the enormous list of all that can be so called.

These last mentioned evidently dependent upon some local or appreciable cause, act, by giving rise, first, to nervous irritation, and through this upon the heart, which being stimulated to increased action, increases the rapidity of the circulation, respiration

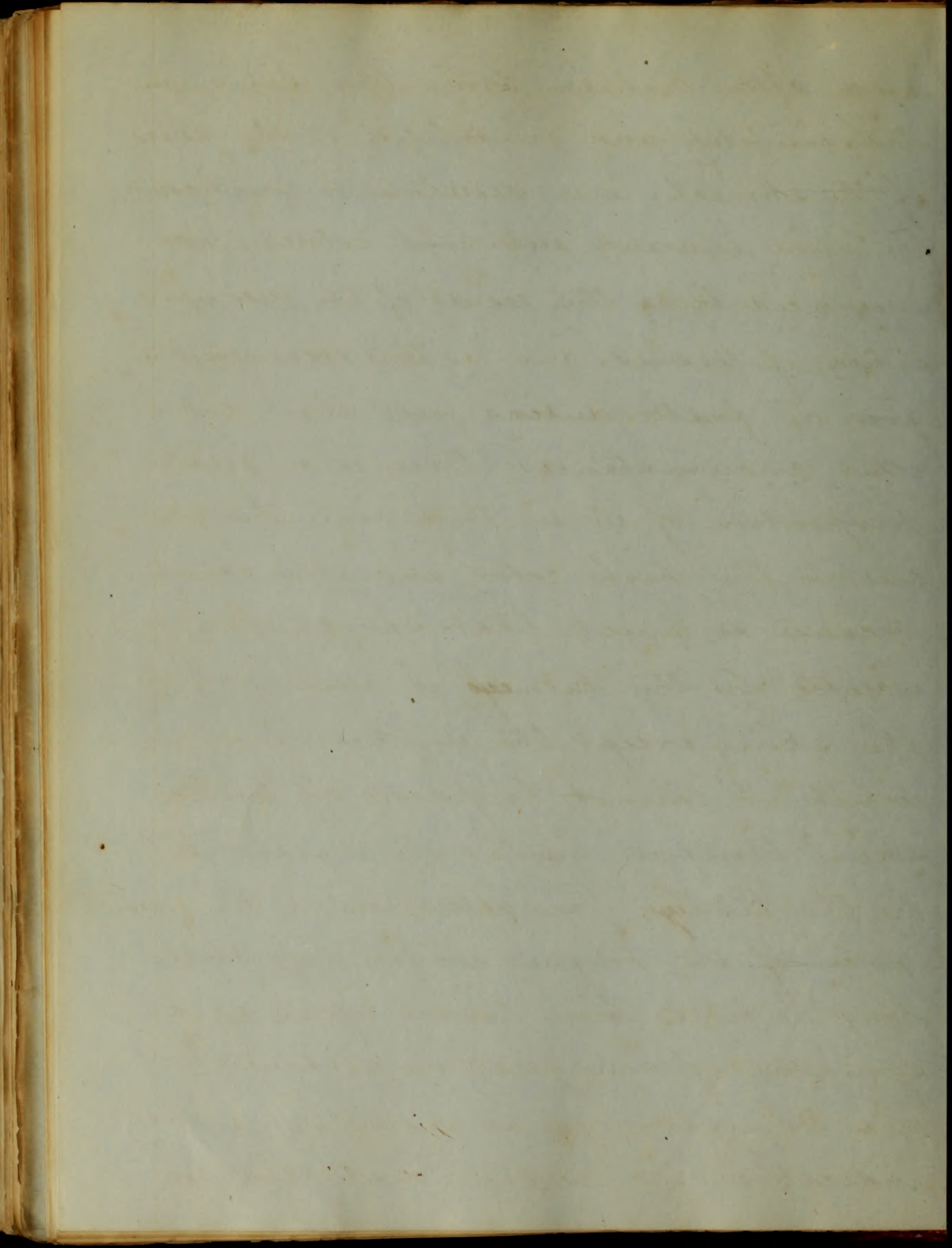




and oxidation, of course producing an  
extra amount of heat, all which de-  
viations from healthy action if per-  
mitted to continue a sufficient  
length of time, show their effects through  
the fluids upon the solids, by the  
derangement of all the functions  
of secretion and excretion. Waste  
of tissue takes place more rapidly  
than reparation, and thus the patient  
grows weak and emaciated. The balance  
between assimilation and elimination  
is upset, and now every thing goes  
wrong. The patient feels chilly from  
the morbid sensibility of the cutaneous  
nerves, and from the congestion of the  
internal organs, which of course deprives  
the surface of the of its proper share  
for oxygenation of the tissues, and heat.  
She has a general feeling of mal-aise  
and want of energy loss of appetite



and often nausea, from this same mor-  
bid sensibility and irritability, of the nerves  
of the stomach; also diarrhoea or constipation.  
The urine is scanty and high colored; now  
uric acid being the result of the decompo-  
sition of tissues (and as this decomposition  
goes on faster during fever than under  
other circumstances) there is a greater  
proportion of it in the urine, this gives  
rise to the high color, and it is scanty  
because so much that should have been  
excreted by the kidneys, is passed off by  
the skin; except the eruptive fevers, in  
which it cannot be passed off by the  
skin, therefore must be passed off  
by the kidneys. The alteration in the appear-  
ance of the tongue, which has for so  
long a time been looked upon, as a  
symptom of very great importance, is  
now thought but as secondary, and only  
indicative of a certain disturbed con-



-dition of the stomach, and its amount.  
There are many other symptoms which  
may occur in symptomatic fever, but  
they are far too many to enumerate.

Those I have mentioned which are pretty  
constant in all, from simple ephemeral  
fever, to grave inflammatory.

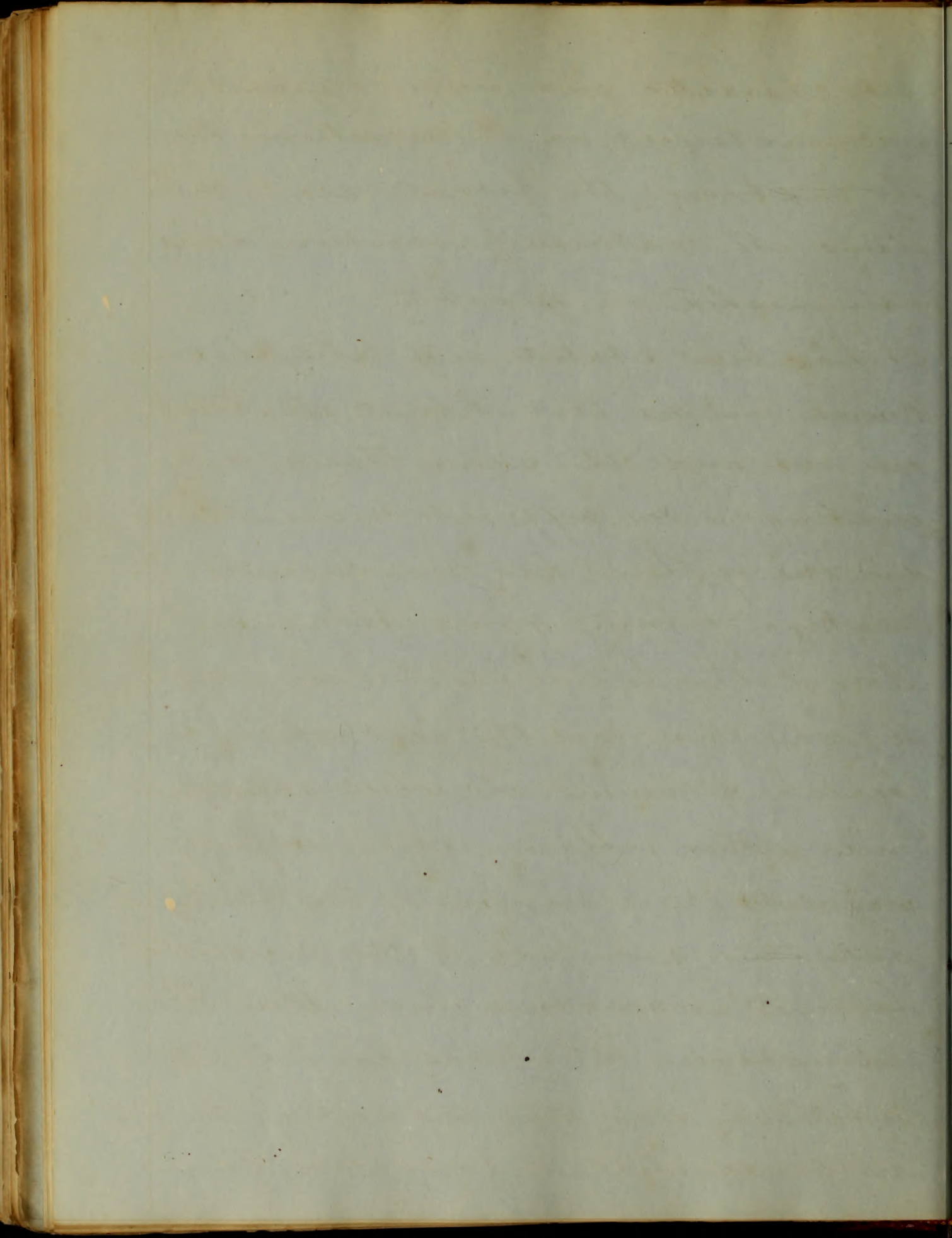
The discoveries of Pathologists, in regard  
to the condition of the blood in different  
diseases, has thrown much light upon  
this subject of fevers, and must not  
be passed over, without saying a  
few words, in regard to its connection  
with our subject. They found from  
extensive, and careful examinations,  
that in all diseases consisting of common  
open, frank inflammation, in any  
of the organs, or complicated with such  
inflammation, the relative quantity and  
proportion of fibrine in the blood is  
increased, while in diseases of an oppo

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-site character, and under opposite circumstances, in the exanthemata for instance, the fibrine nearly maintains its natural proportion, or is diminished in quantity.

It has been stated very lately by some French writers that Fibrine, and Albumen, are one and the same thing, only existing under different circumstances, and one of them has even succeeded in making fibrine from albumen.

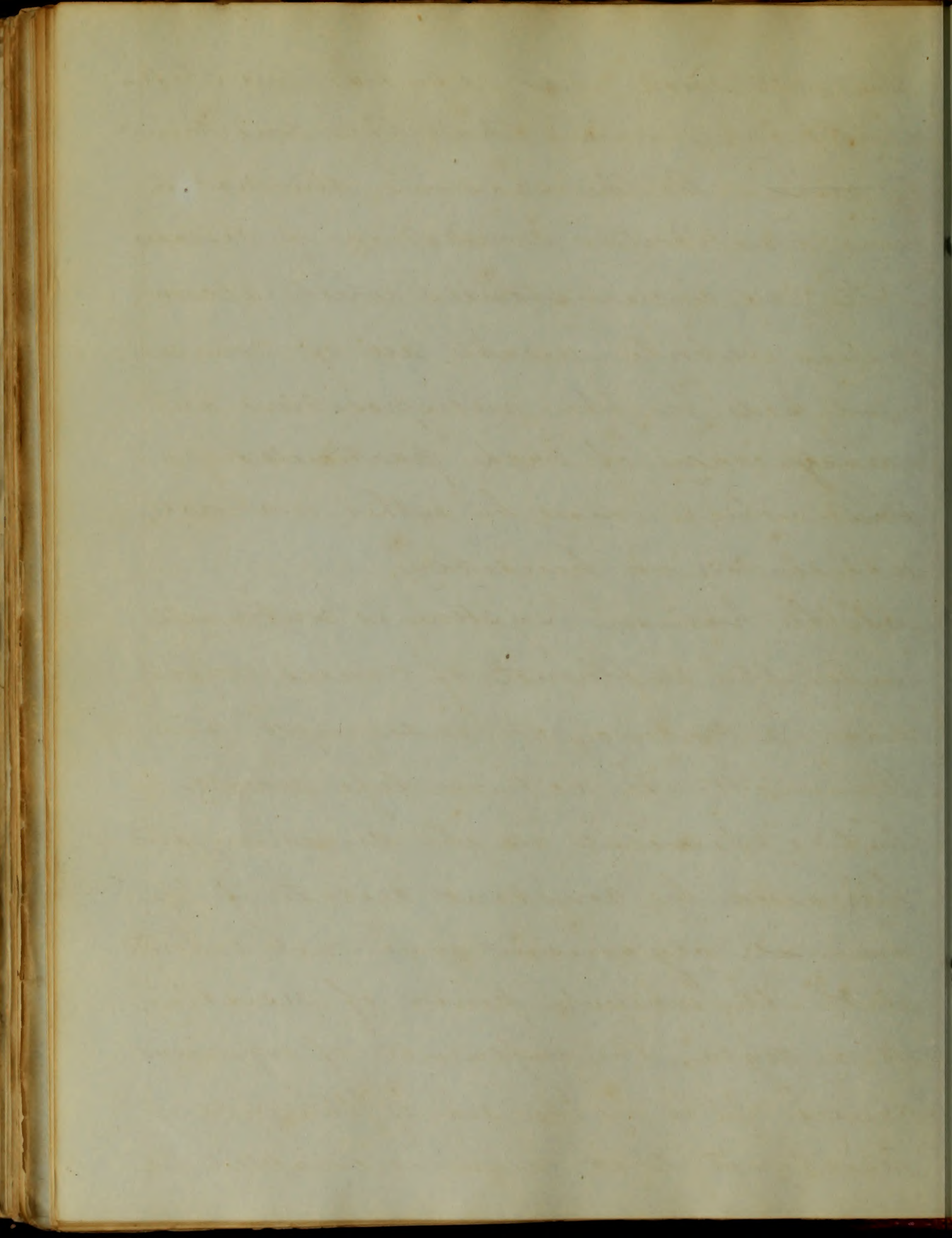
Now if this be true (as it is very likely to be) why may not the heat (which coagulates albumen) and which accompanies either inflammation or fever, coagulate the albumen of the blood, and thus give rise to the increase of fibrine, so constant under these circumstances. Dr. Stevens has tried to establish also, that the salts of the blood are diminished in Idiopathic fevers.



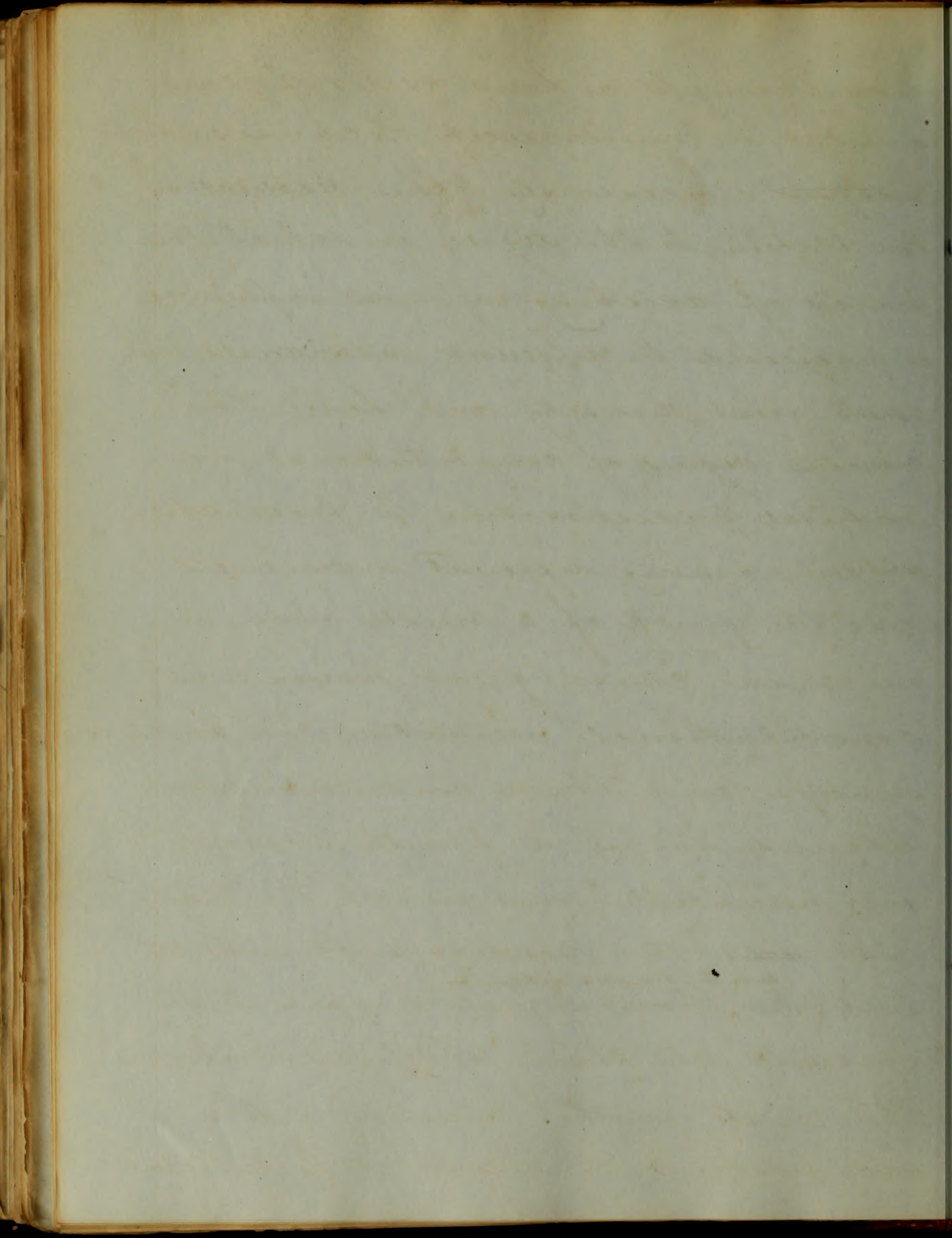


But Dr. (Snick), has refuted this statement, by proving that this condition is owing to the seasons, and not to any particular condition of disease. All the circumstances which accompany febrile disease, are of course modified by the predisposition and idiosyncrasy of each particular patient which may be either natural, accidental or hereditary.

As the human system is continually under the influence of causes which have a tendency to interrupt and terminate its actions, life would be but ephemeral in its duration, and harassed by constant disease if the animal organism were not endowed with the inherent power of resisting, to a degree, the influence of injurious causes. It is by the aid of this vital resistance, that man is enabled to



live through a long series of years,  
amidst a multiplicity of causes which  
conspire unceasingly to his destruction.  
In relation to the degree in which this  
power of resisting injurious influences  
is possessed by different individuals, there  
exists great diversity, and hence the  
various degrees of constitutional or  
natural predisposition to fever, which  
obtain, among different individuals.  
Thus the prick of a needle, will, in  
one man, cause great pain and  
constitutional irritation; in another  
syncope, in a third convulsions or  
tetanus; and in a fourth scarcely  
any perceptible consequences. We must  
also add the peculiar influence of  
location, <sup>and the disease endemic</sup> those which happen to be  
epidemic and those which are contagious.  
There exists another cause, for the  
modification of disease, which claims

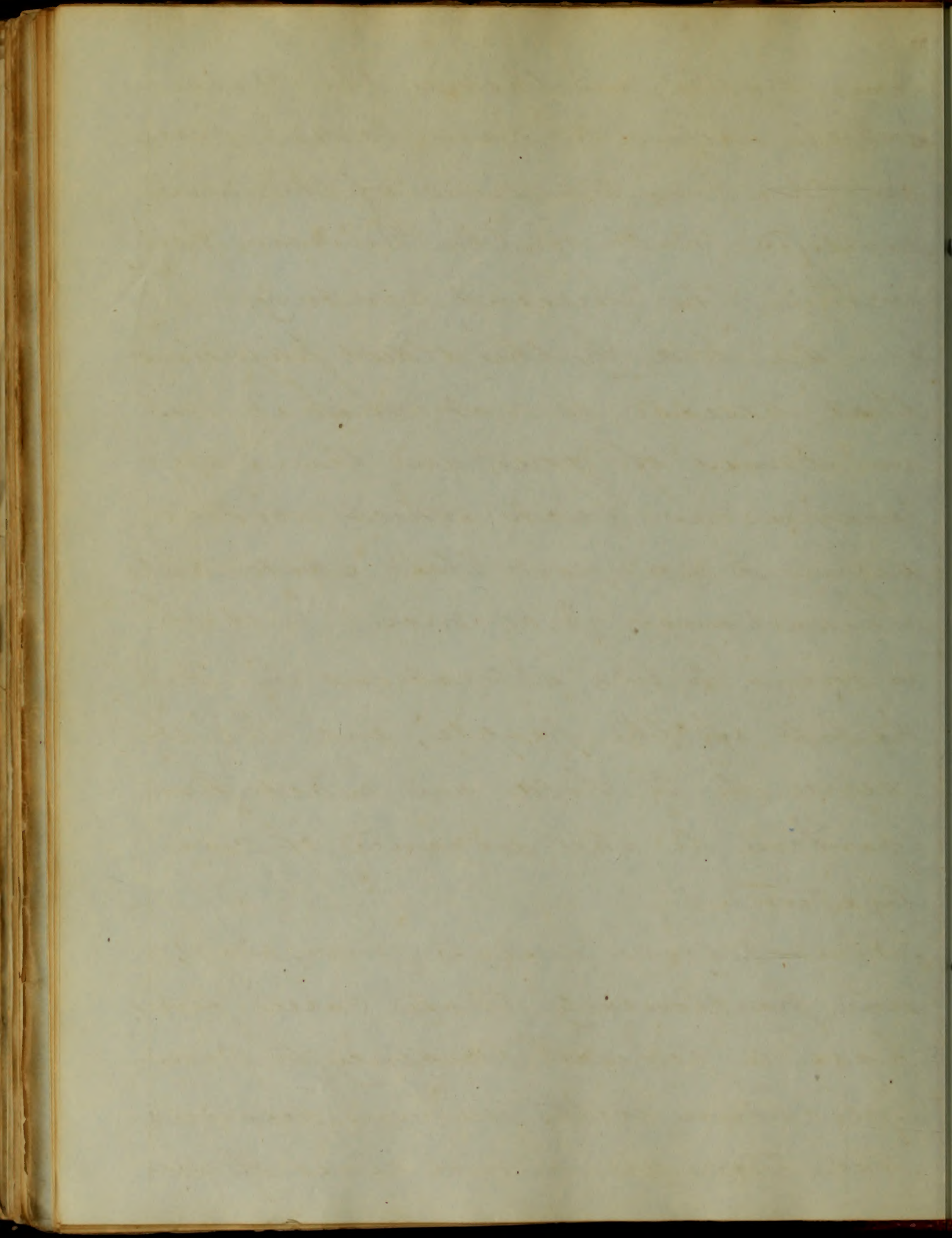


some notice, and that is, the change which seems to have taken place in the constitutions of the more civilized part of the human family within the present century.

We are told by the oldest physicians that disease is not what it was in times of yore, and there are numerous facts which would seem to support their statements.

This change, it is most probable is owing to the alterations in the habits of the people, and we observe it to hold an exact proportion to the advance of civilization.

Almost every disease now a days, and particularly those called fevers, have a general tendency, to complication with nervous disorders. And there are a new class of dis-



cases of a purely nervous character, which were not known or dreamt of in older times; neuralgia for instance and the low adynamic forms of fever. It is very plain that all these circumstances, as well as those we have already detailed, have a very powerful influence, in the modification of disease, and its treatment; and require to be carefully observed in every case.

Having gone thus far in the discussion of "fevers" I cannot close before saying a few words in regard to the proper division of these diseases so erroneously termed fevers.

It has been denied of late years that there is, properly speaking, any such disease as that which has always been, and which is still

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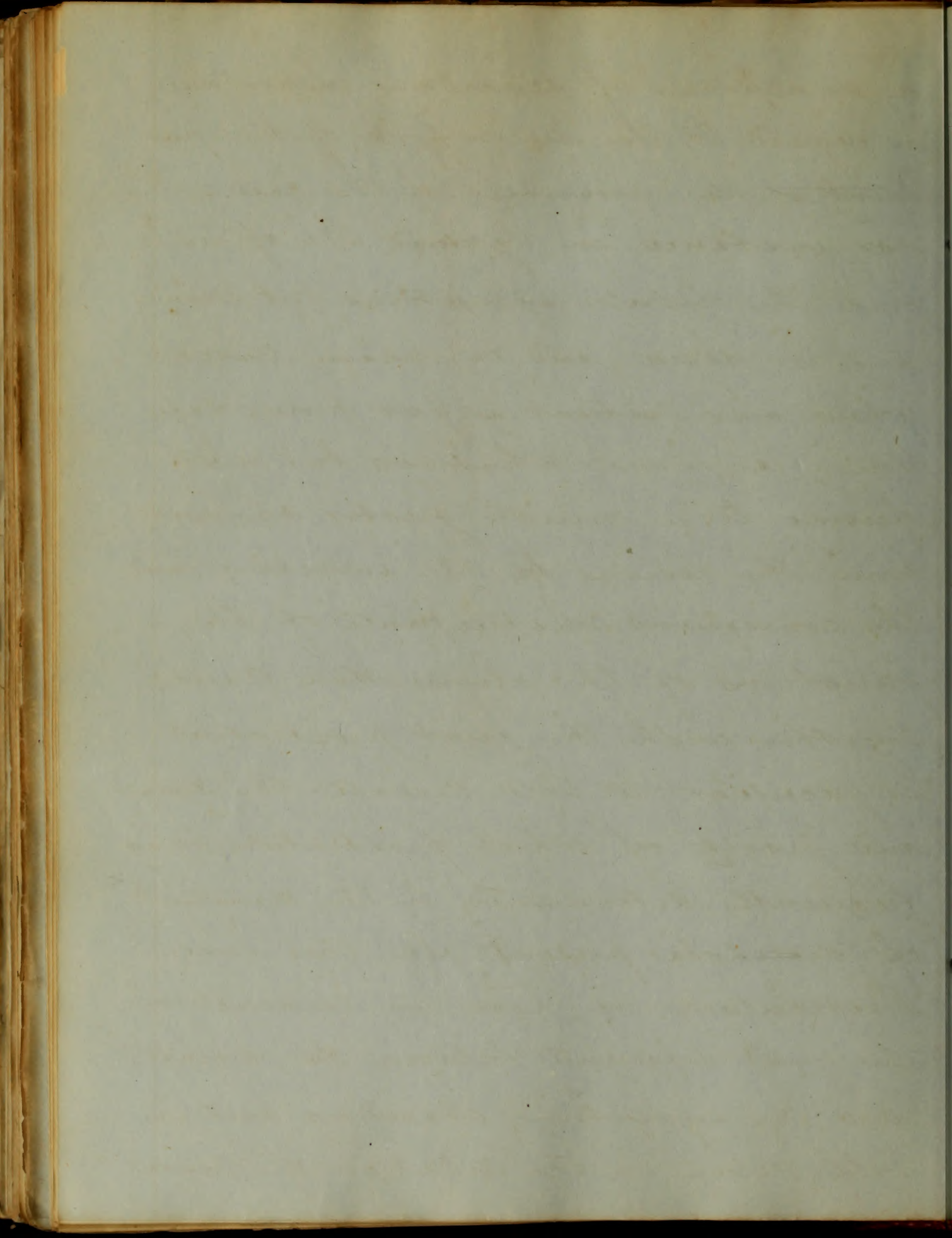


expressed by the term, fever.  
The word "fever", when used as it commonly is, to designate a disease, has no intelligible signification; it is wholly a creation of the fancy, the offspring of a false generalization, and of a spurious philosophy. The most proper and easiest mode of dealing with these fevers - as they are called - would be, if it were possible - to discard the name, and the idea, of its ever being a separate and independent disease, and establish at once, that it is in all cases, but a symptom, like any other, for it seems to me, that it would be just as rational to call those diseases in which fever is so constant, - as to give rise to the name (Fever) by the appellation of any other symptom as frequently present. And indeed it may even be said, that in a great many cases, the fever is but

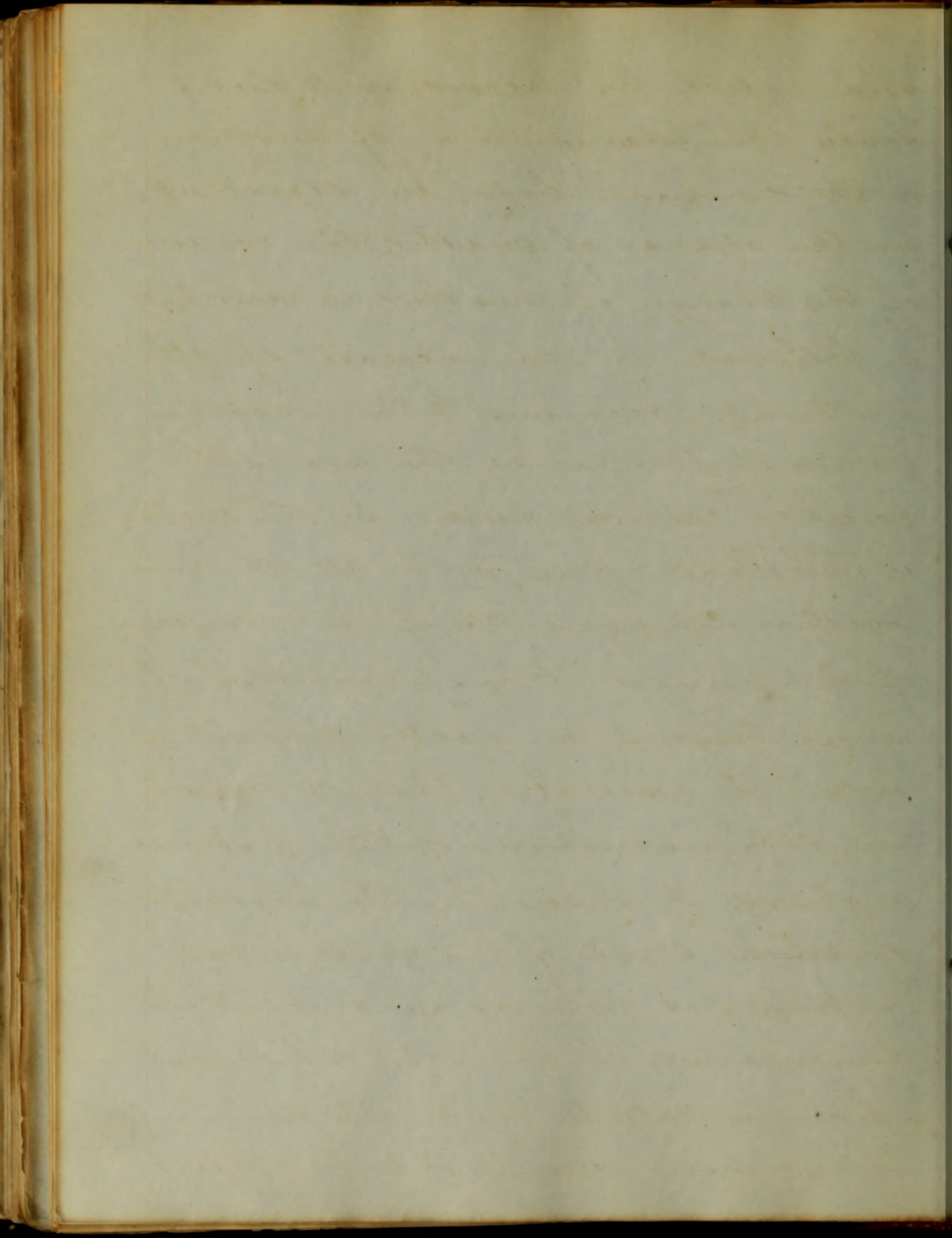
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a symptom of secondary importance,  
in regard to the discomfort of the pa-  
-tient, or the prognosis of the case.

For instance in Typhoid, We often  
find the febrile symptoms but second-  
-ary in degree, and in many cases  
when our patient is far from safe  
there is none whatever: but is suf-  
-fering to a much greater amount  
from the lesions of the intestines, and  
the consequent disturbance of the  
functions of the alimentary canal,  
together with the great prostration  
so peculiar to this disease - the amount  
and gravity of which prostration, being  
frequently determined by the amount  
of diarrhoea present. In this case  
particularly, we have an evidence of  
the vast difference between the disease  
and the symptom; standing out in  
bold relief in the relation of cause

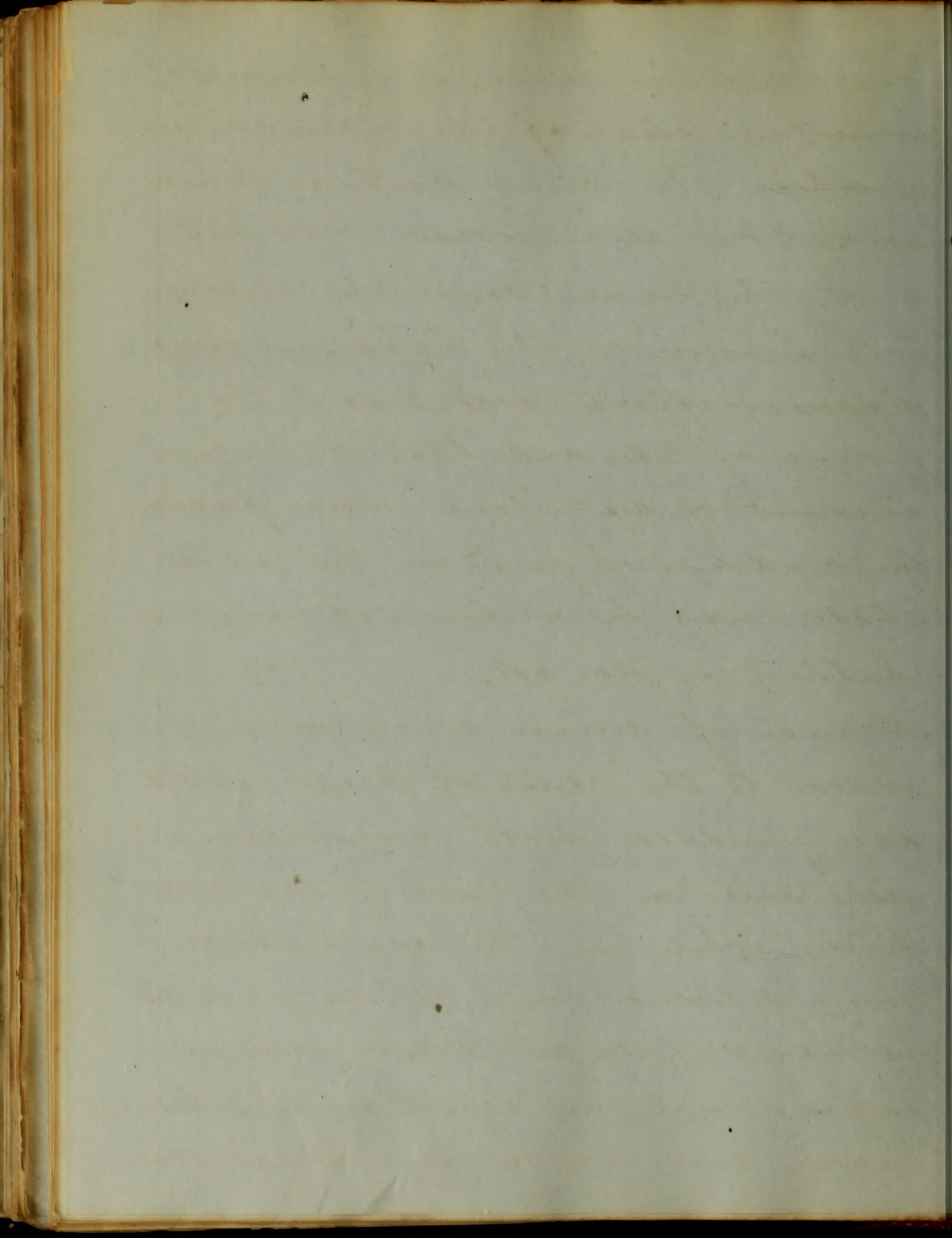


and effect. "For" according to Liebig  
"since the phenomena of motion  
in the animal body, are dependent  
on the change of matter, the increase  
of the change of matter, in any part,  
is followed by an increase of all  
motions. According to the conducting  
power of the nerves, the available  
force is carried away by the nerves  
of <sup>involuntary</sup> motion alone, or by all the nerves  
together; consequently, if in consequence  
of a diseased transformation of  
living tissues, a greater amount of  
force be generated, than is required  
for the production of the normal  
motions, it is seen in the acceleration  
of all, or some of the involuntary  
motions, as well as in a higher  
temperature of the body." This con-  
-dition is called fever, and as may  
be very easily seen, is only the effect



and not the cause: the evidence of something else, of the ultimate cause of which we know nothing whatever. It is also evident, that one and the same cause of disease, will produce in the organism, very different effects, according to the period of life; and that a certain amount of disturbance, which produces the condition of fever, in the adult state, may be without influence in childhood or old age.

A cause of disease may, when it is added to the cause of waste, in old age, produce death (annihilate all resistance on the part of the vital force;) while in the adult state it may produce only a disproportion between supply and waste; and in infancy only an equilibrium between supply and waste, (the abstract state

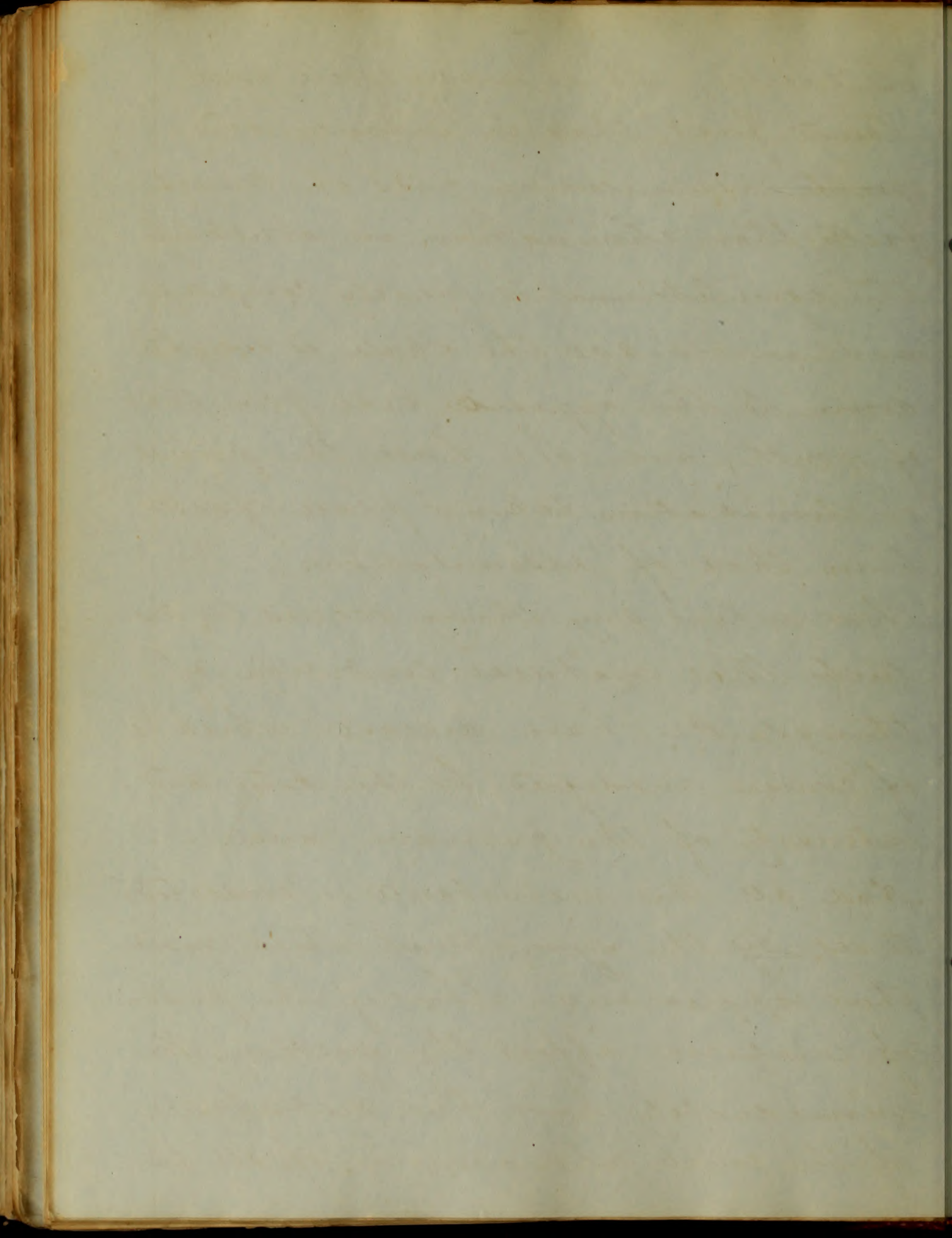




of health.) It is a very well ascer-  
-tained fact, that in infancy and  
youth, assimilation goes on much  
faster than elimination; in adult life  
the equilibrium is nearly complete,  
and in old age the scale is weighed  
down, to the opposite side from that  
of youth, and we have the process  
of elimination taking place faster  
than that of assimilation.

Now when any thing occurs to dis-  
-turb this natural condition of  
things, we have disease, which is  
of course modified by the kind and  
intensity of the primary cause.

And all this disturbance is evidenced  
to us, by the symptoms which make  
their appearance. Thus if the poison  
of malarial affect the system, we  
immediately have this disturbance  
of the vital phenomena, of all the



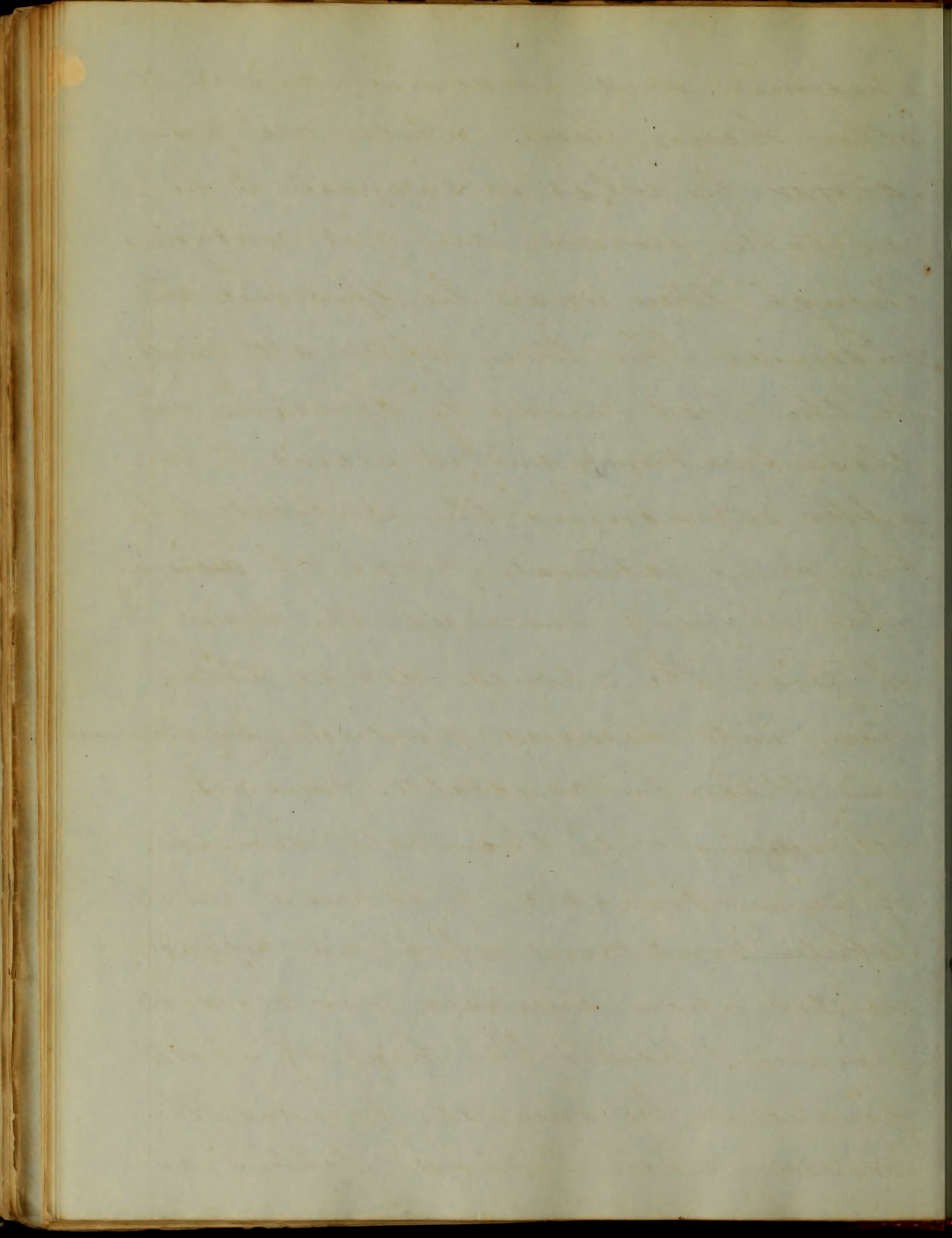
functions of the body, and all the peculiar symptoms of disease, produced by this cause. One of the most constant is fever, and from the variety, and intensity, the duration &c. together with the accompanying phenomena - have all the thousand names of malarious fever arisen. Intermittent, Remittent, & Yellow, belong to this class, and are, according to the best authority, of the same family, and only modifications of the same diseased condition, and which constitute the largest proportion, of what are termed fevers.

It has of late years, been indirectly established, that as a general rule those fevers (to use the most common name) which are produced by animal poisons, are contagious, as well as

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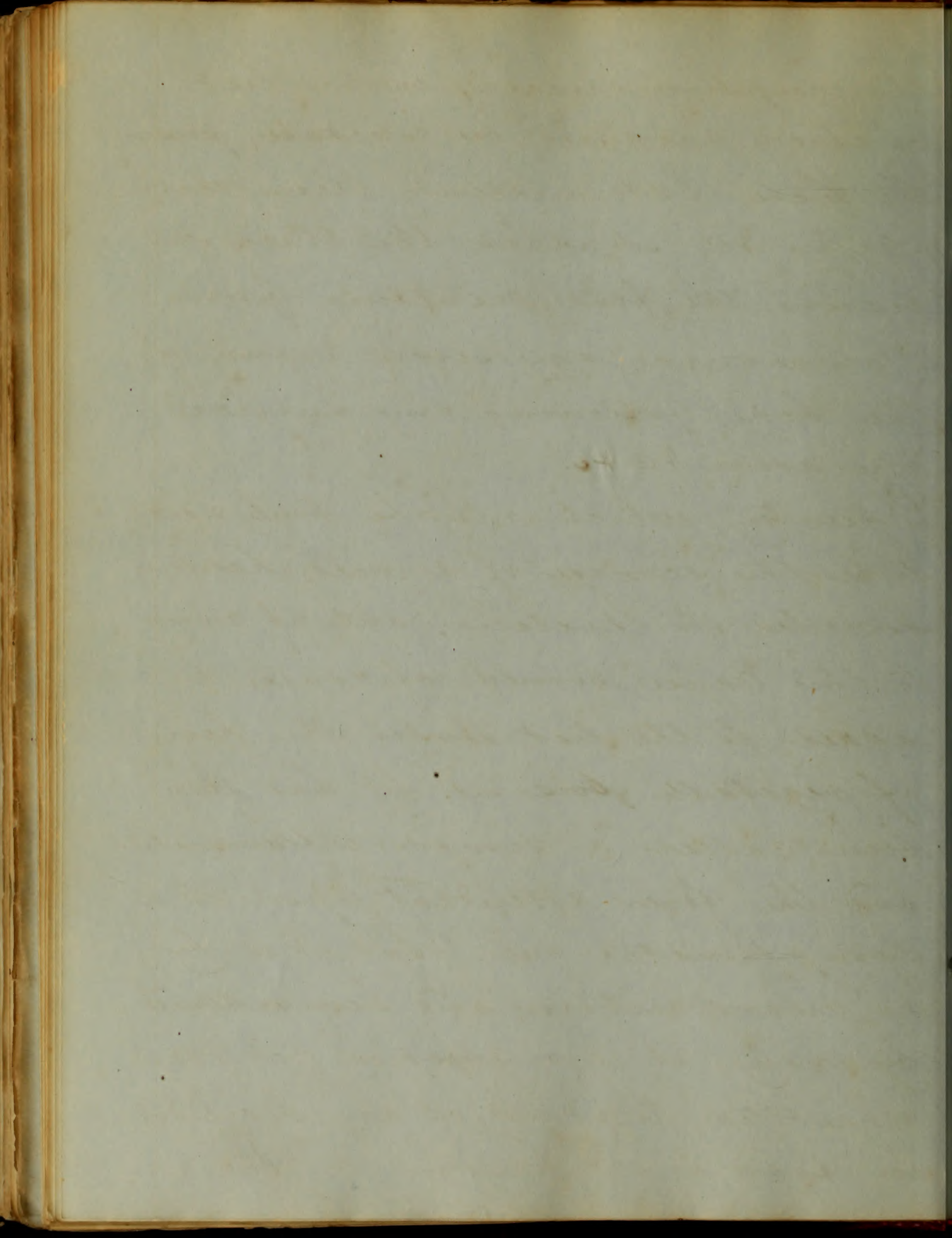
epidemic and endemic; and on the other hand, those which are produced by what is supposed to be vegetable poisons, are not contagious, though they may be epidemic and endemic. This then after all would be the best mode of division, and classification; and it seems to me after examining the subject, to be the only rational mode of division after having discarded the name of fever. We should divide them, then, into diseases, produced by animal, and those by vegetable poisons.

Retaining only the old division of symptomatic, to express those febrile conditions which are dependent neither upon animal, nor vegetable poison. Under the head of those produced by animal poisons, we would place, Typhoid, Typhus, and



the eruptive diseases; in the list of those produced by vegetable poison, we have, Intermittent, Remittent, Yellow &c. And in the third division, we find, resulting from Pneumonia, any severe injury of the body, following any surgical operation &c &c.

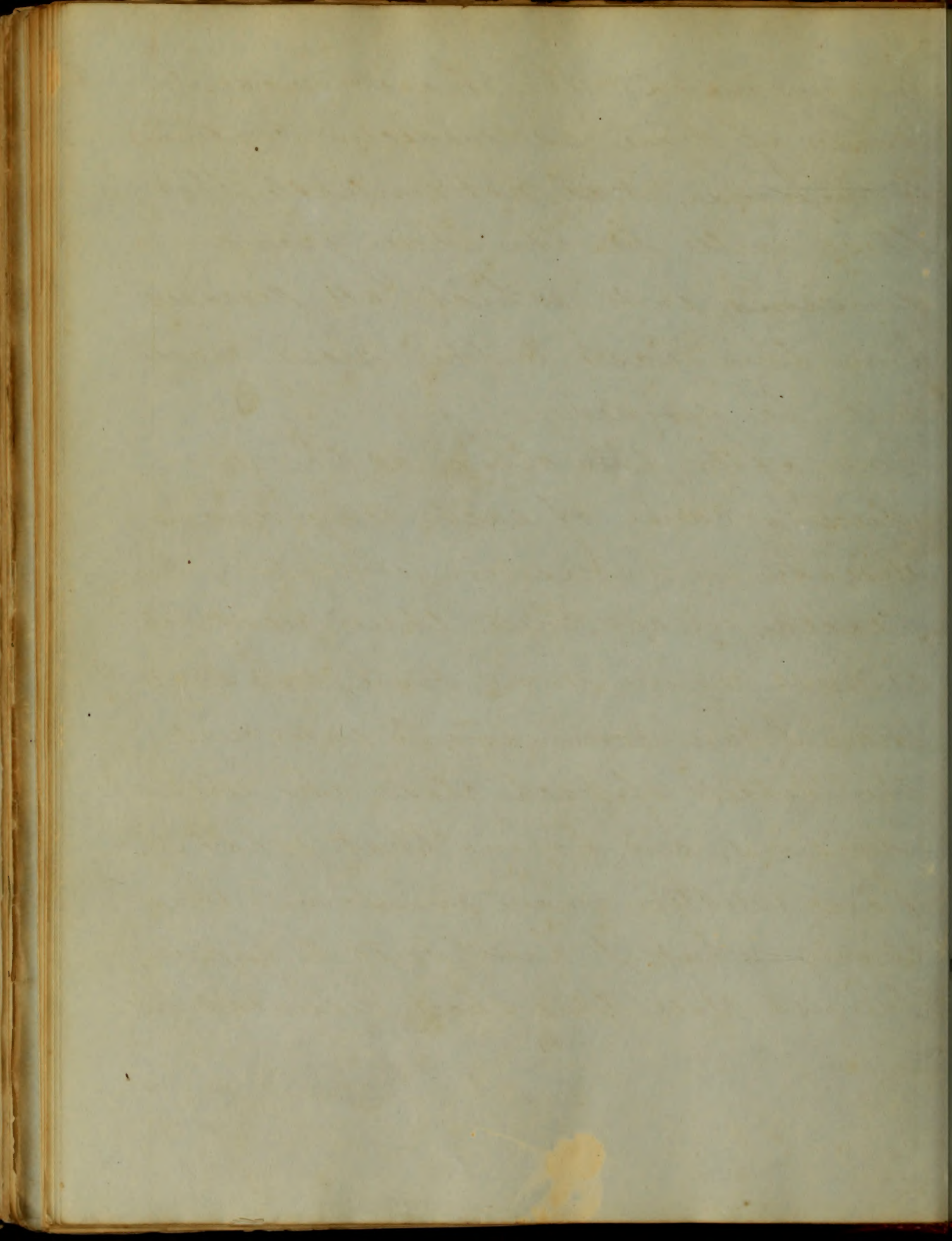
Dysentery, which may be truly said, to be the scourge of armies, has been ascribed to Malaria, and if owing to this cause, would of course be added to the list, under the head of vegetable poisons. It has also been called a simple inflammation and the fever attendant upon it a symptomatic one. But it is by no means certain, and being denied by many, it is a question yet too unsettled, to admit of any decision, in regard to its position in the -

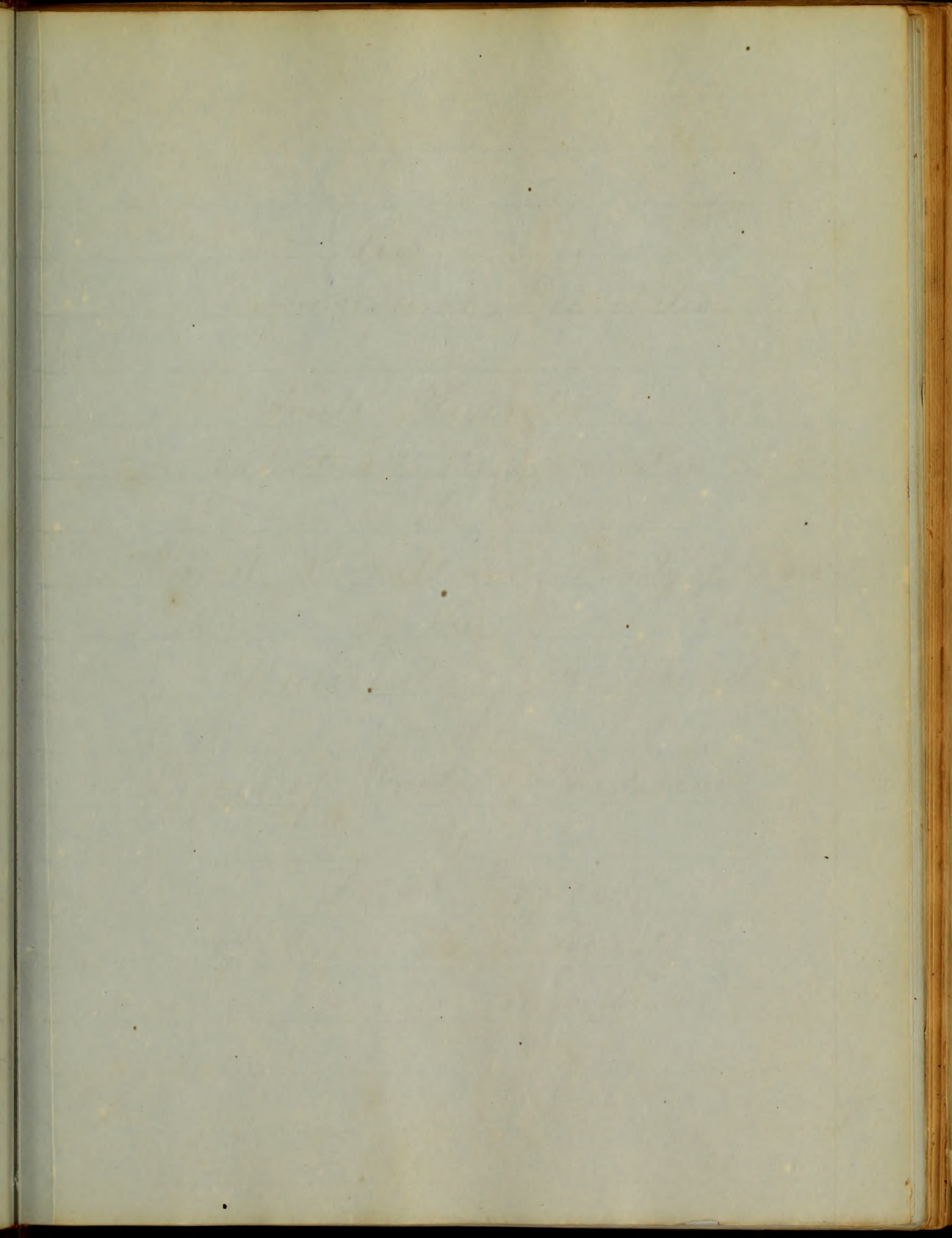


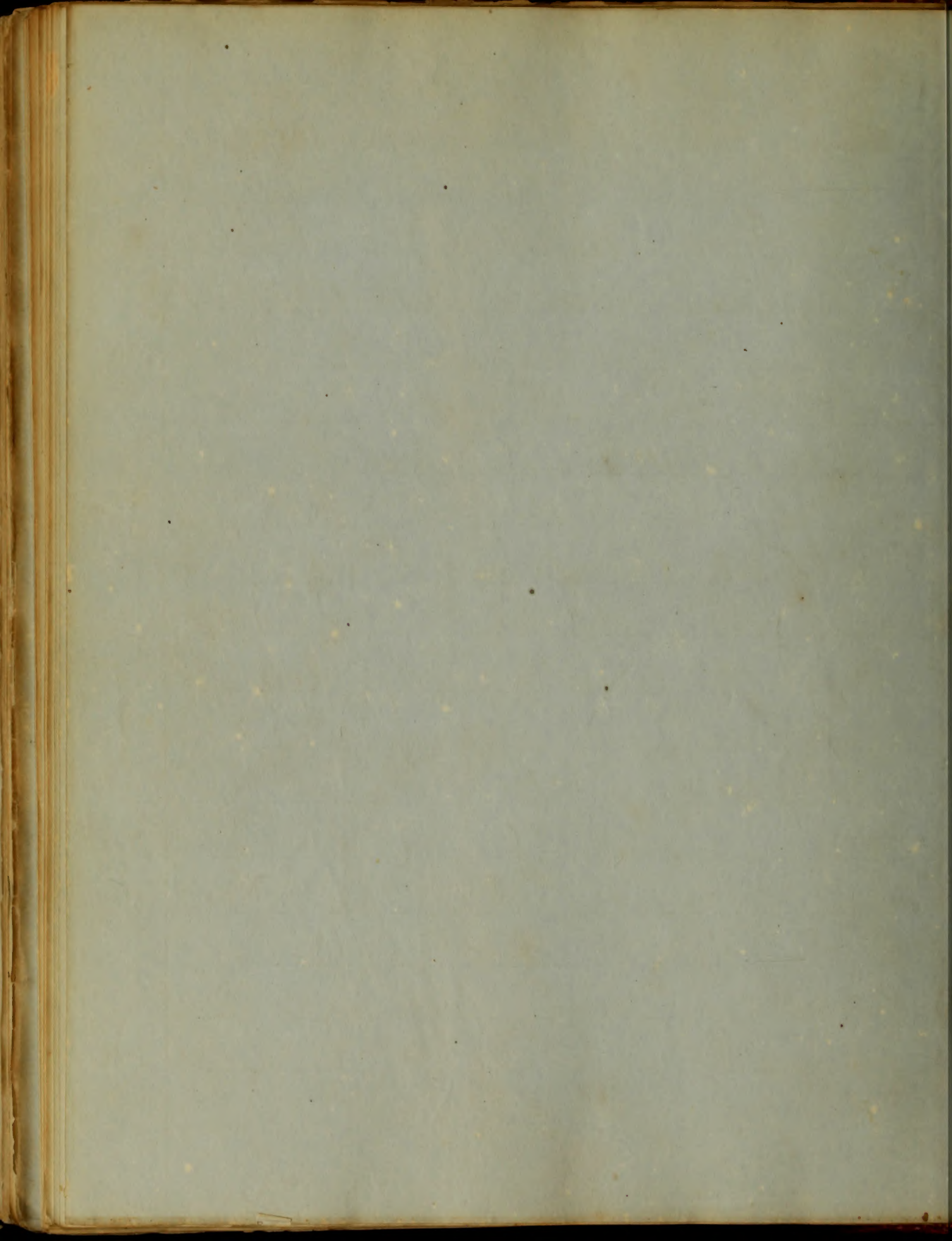


arrangement We have made. In course of time as medicine continues to improve, it is not unlikely, that these will be the three grand divisions, into which all diseases from the least to the most grave will be divided.

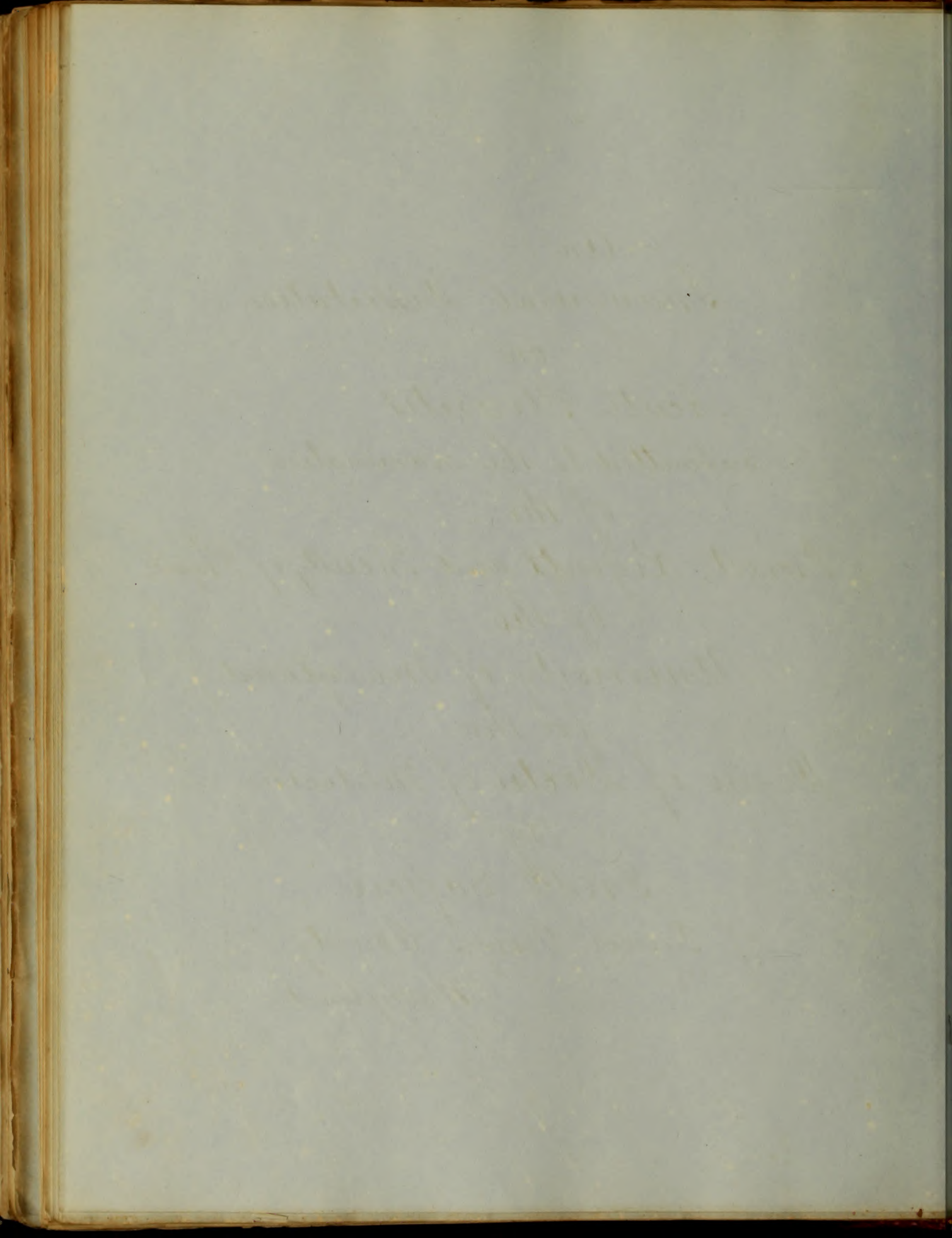
One after the other, as the producing cause of each mysterious disease is understood, will they be placed, under these three great heads. It would require more time, and space than I can command, to enter into the details of each class and its subdivisions, and hoping that what I have written may in some way convey what I have tried to express, I must close this short dissertation.

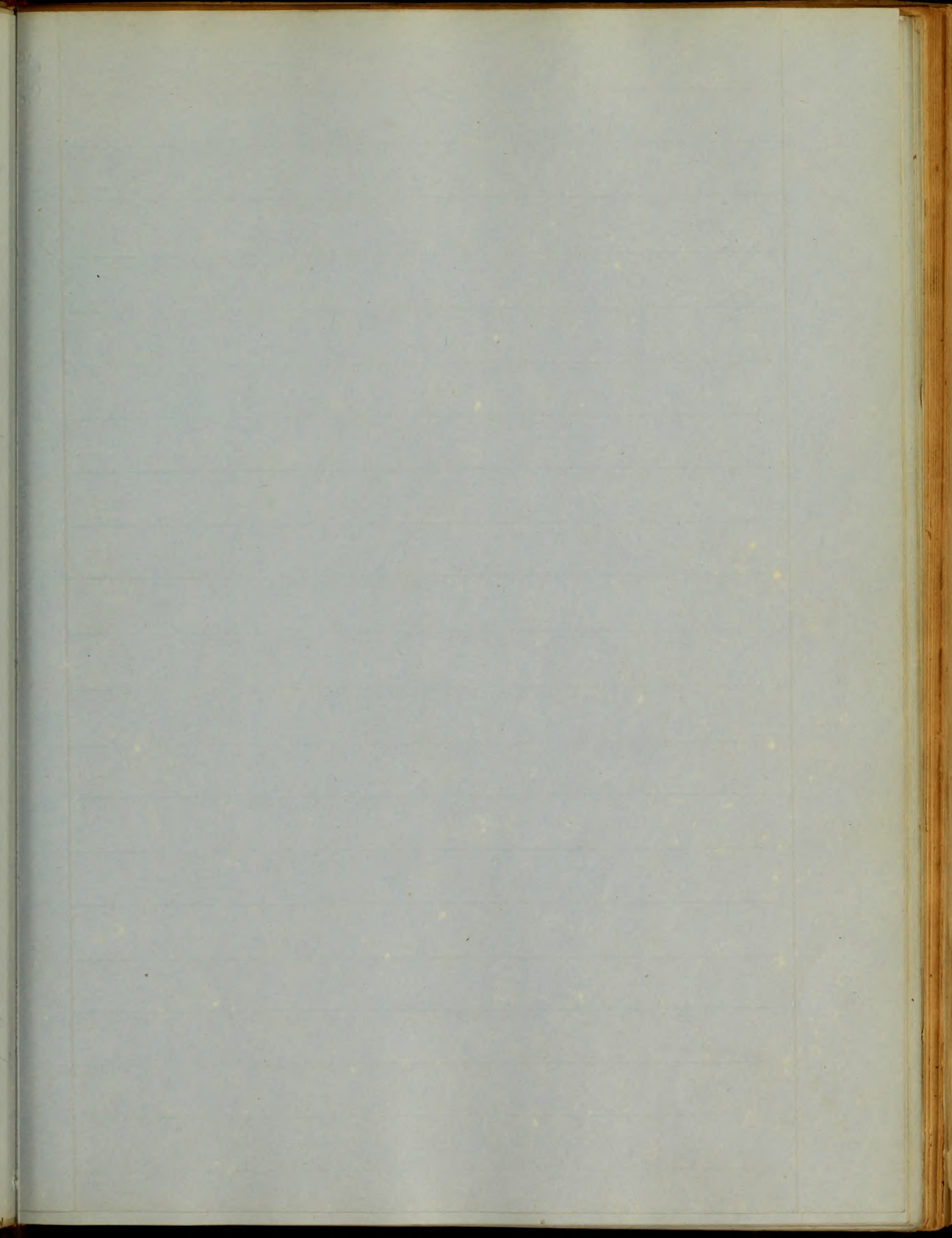


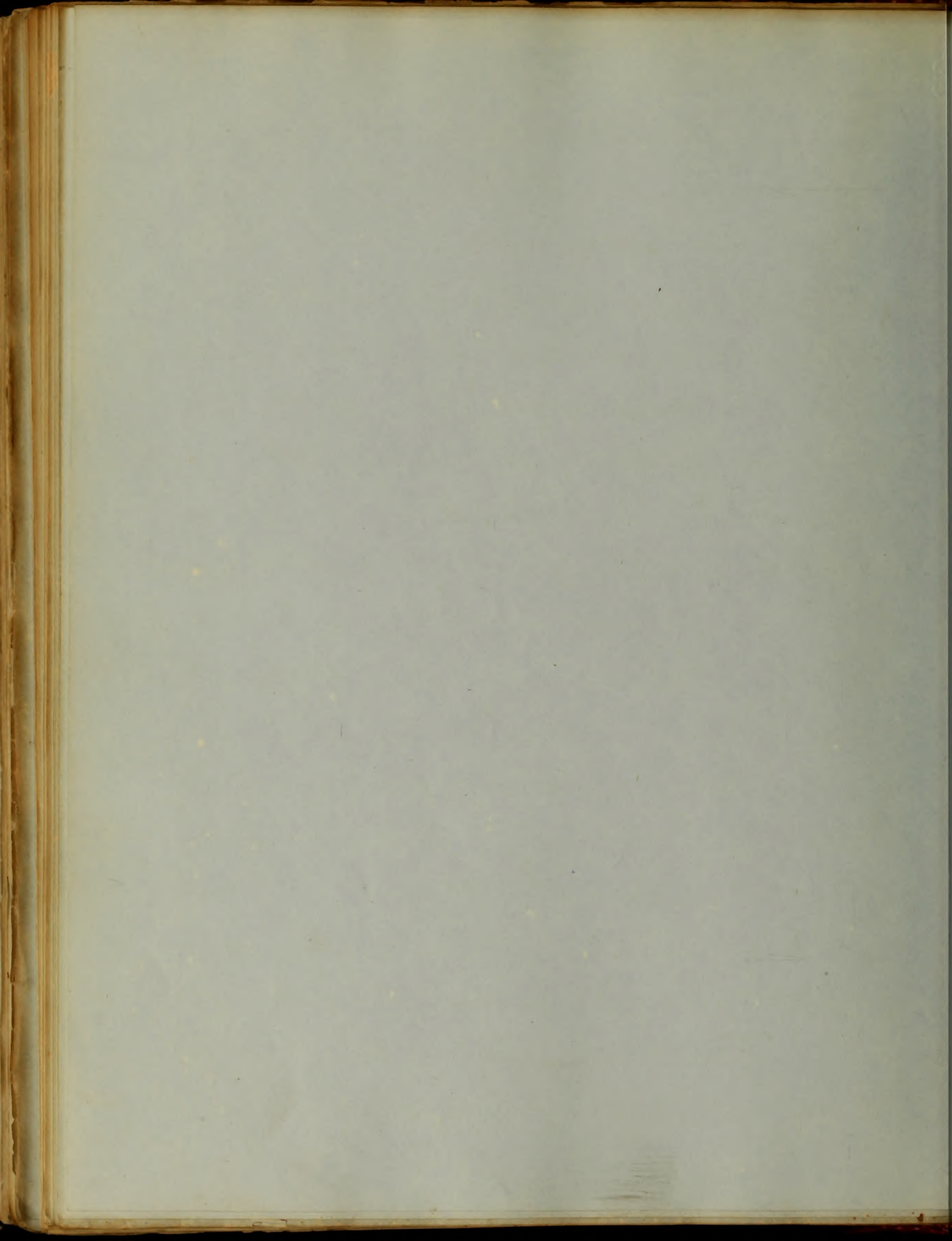




An  
Inaugural Dissertation  
on  
Acute Pleuritis  
Submitted to the examination  
of the  
Provost, Regents and Faculty of Physic  
of the  
University of Maryland  
for the  
Degree of Doctor of Medicine  
By  
Fred<sup>d</sup> Saffers  
of Prince Georges County  
Maryland

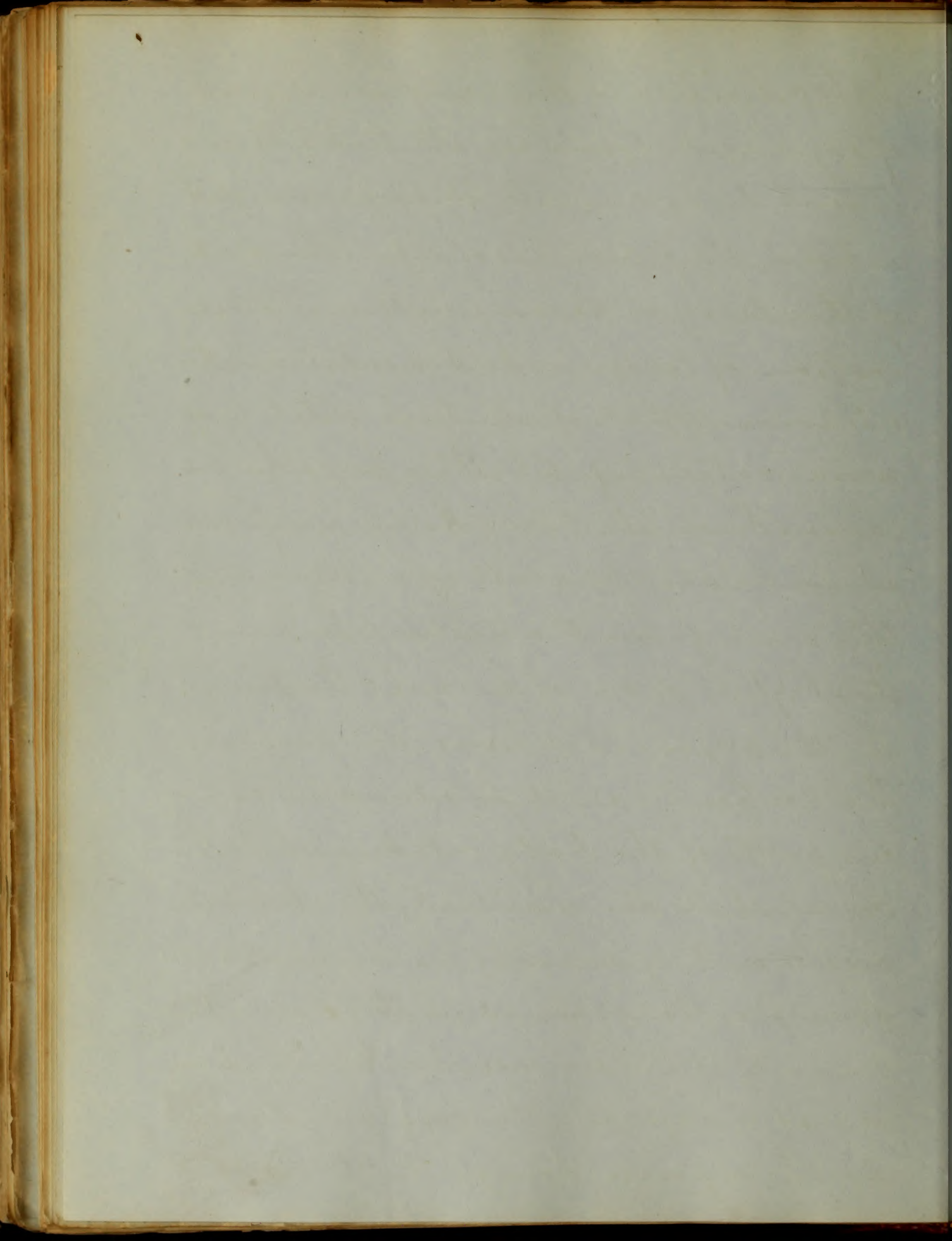








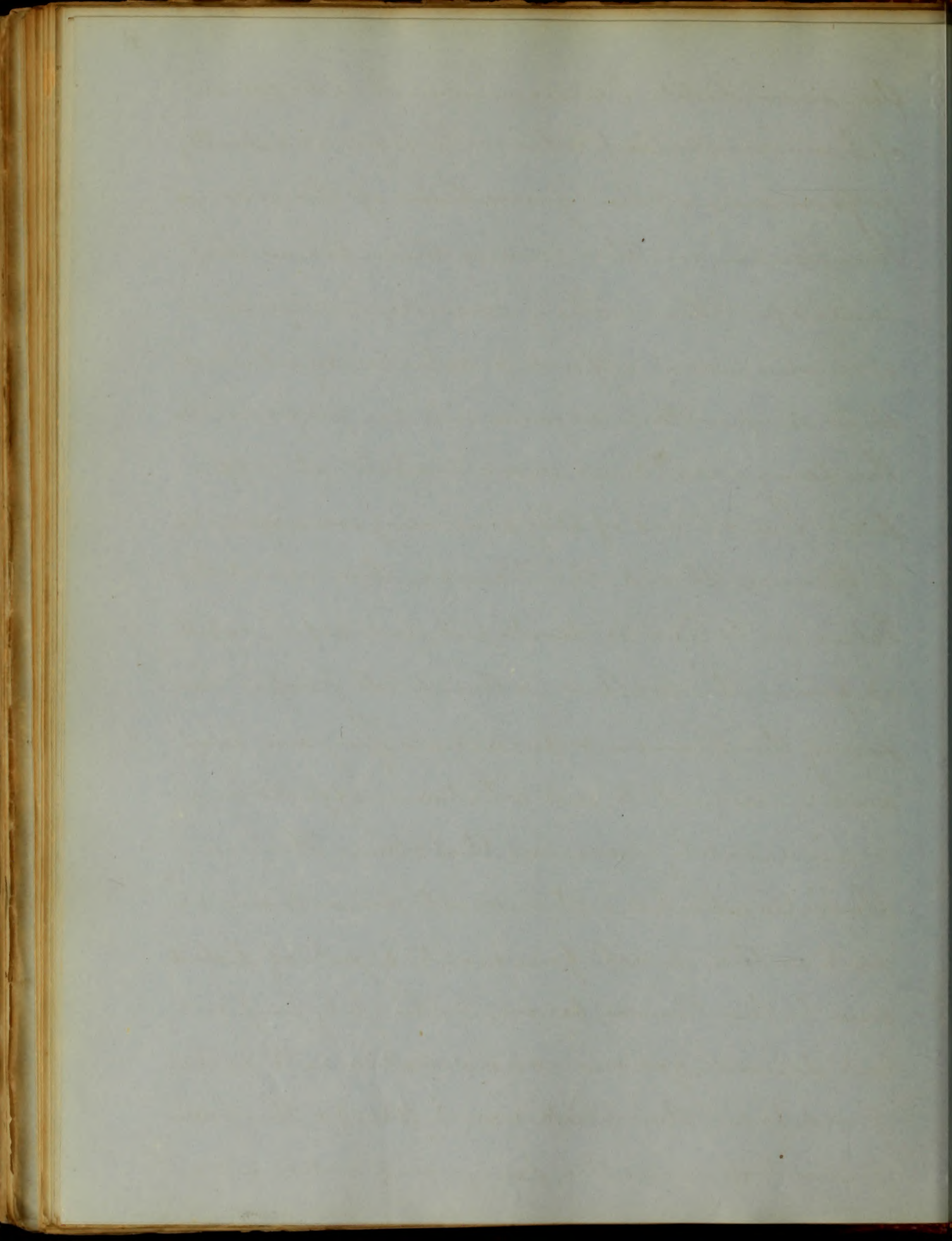
Introduction - The component parts of organized tissue are all liable to continual decay, even whilst performing most actively the functions of life - The result of this decay, or decomposition, is the generation of Carbonic acid, a substance the deleterious effects of which, on vitality, are more certainly fatal, than any other known cause. Hence all living Beings are provided with an apparatus for conveying this acid from the system. In Man & the higher order of animals, the Lungs are the organs that serve this purpose. The Carbonic acid produced in various parts of the body, is taken up by the veins, which are essentially the absorbent vessels, and by means of their numerous ramifications carried in the immediate vicinity of the air vessels. Here by the law of endosmosis, the oxygen of the atmosphere, passes through the thin mem-



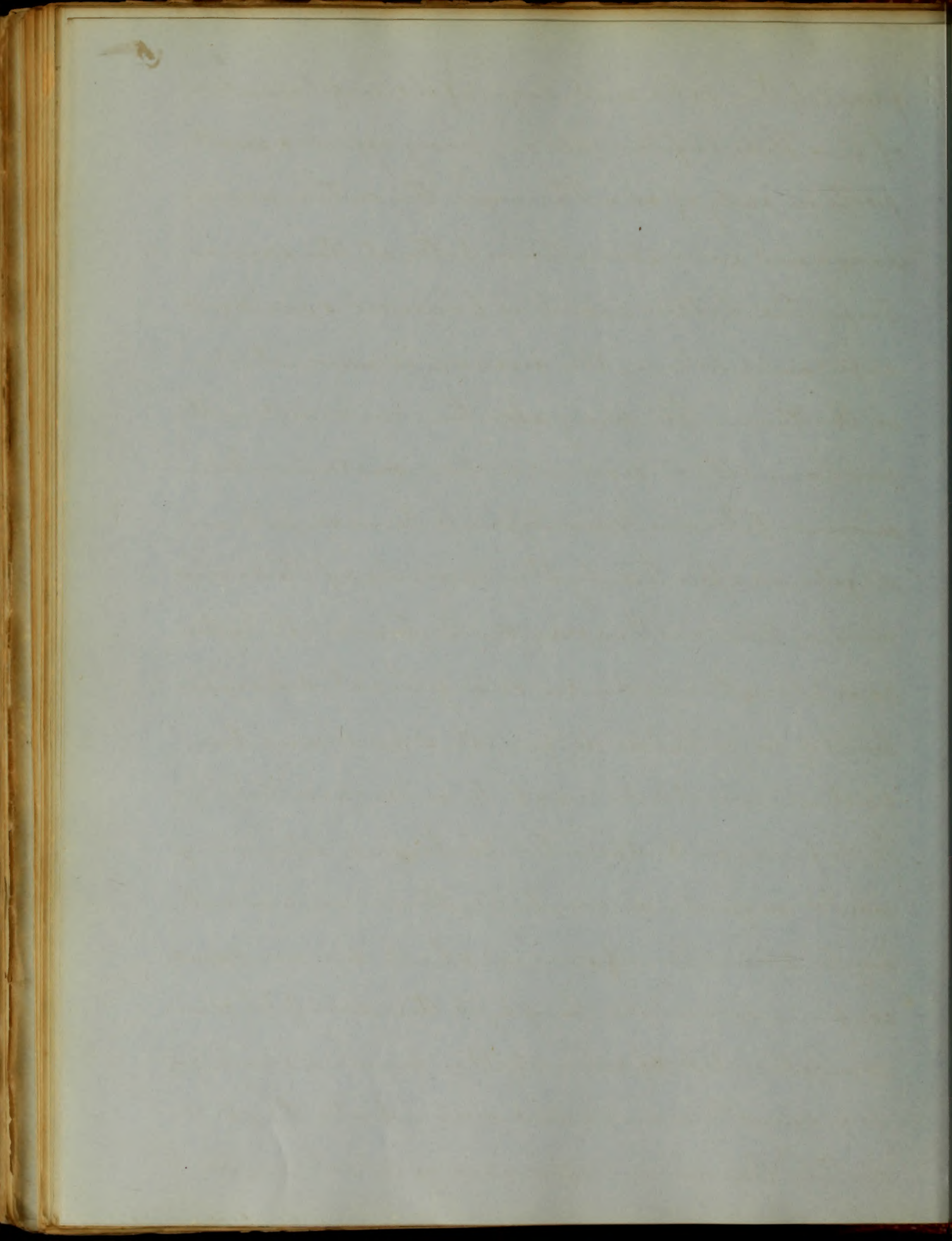
brane, that lines the vesicle, mingles with the blood, a chemical change takes place, and the Carbonic Acid by exosmosis passes out, and is expelled from the lungs, during expiration in the form of gas. In order that the vital functions be well performed, and a state of perfect health enjoyed, it is necessary that this process be continually and perfectly carried on. No sooner is an impediment offered, than the whole venous system becomes engorged with this blood containing Carbonic <sup>acid</sup>. The fluid of the Arteries, on the contrary is scanty, and has mingled with it, a portion of that from the veins, unaltered in its constituents. As soon as this then is transmitted, by the contractions of the heart to the brain, the offices of that organ are instantly disturbed, consequently the actions of every part of the body are altered, and unless the cause be removed, death will be



the inevitable consequence - Thus do we see  
 of how much importance to life, is a healthy  
 performance of the functions of the Lungs.  
 The Pleurae, are the serous membranes that  
 envelope them - They maintain also their  
 structure, and afford a vehicle, by which all  
 their important movements are performed.  
 The Lungs could no more execute the effec-  
 tual functions of the economy, consigned  
 to them, without the Pleurae, than could the  
 Fetus in utero be developed, and safely expell-  
 ed from the Mother, without its proper cov-  
 ering, the Chorion & Amnion - They are insep-  
 arably connected, and whatever affects one  
 considerably concerns the other - Hence  
 Pleuritis, which is the most disastrous, as  
 well as the most frequent agent of disturb-  
 ance to the Pleurae, becomes a highly import-  
 ant disease, for our consideration. It is de-  
 rived from the Greek word ΠΛΕΥΡΑ, the mem-  
 brane that covers the Lungs, and internal sur-

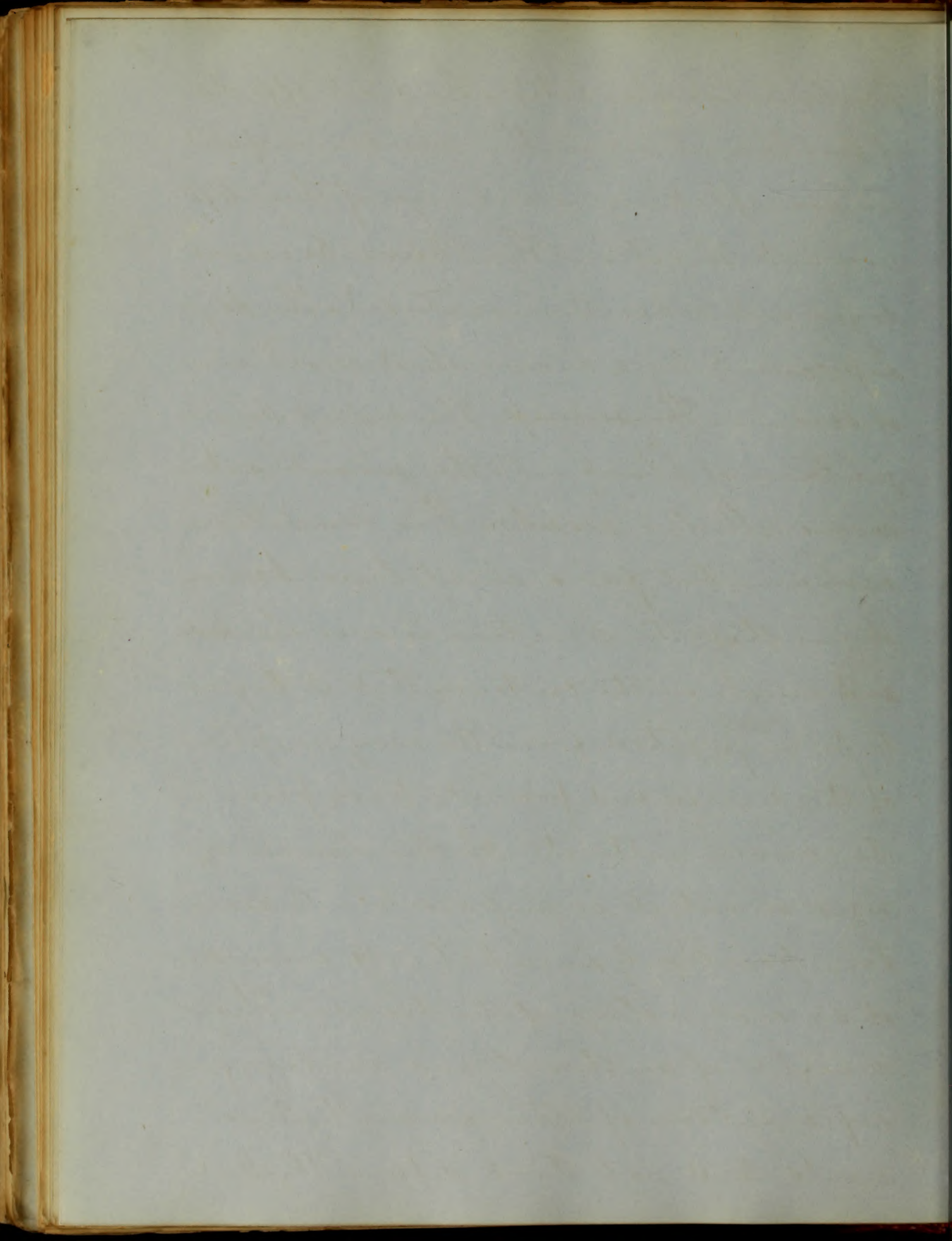


face of the ribs, and signifies inflammation  
 of it - This Inflammation may affect a small  
 portion only of one Pleura, or the entire mem-  
 brane, and even sometimes both at the same  
 time - The latter event is however rare (say Dr  
 Wood) unless where the disease is associated  
 with Phthisis - It may also be combined with  
 various other diseases, as for instance, Pneu-  
 monia, Billious Fever, Typhoid Fever, &c, whence  
 it gets respectively the names of Pleuro-Pneu-  
 monia, Billious Pleurisy &c - To treat all of these  
 complications, under one general description  
 would be a task difficult & arduous - In  
 fact it would be next to an impossibility -  
 To define and describe each one separately  
 would require more time, than we are will-  
 ing to spare, therefore we shall in our remarks  
 confine ourselves chiefly to the simple & un-  
 complicated form of the disease, such as  
 frequently occurs, and over which the skill  
 of the Physician exercises greatest power -



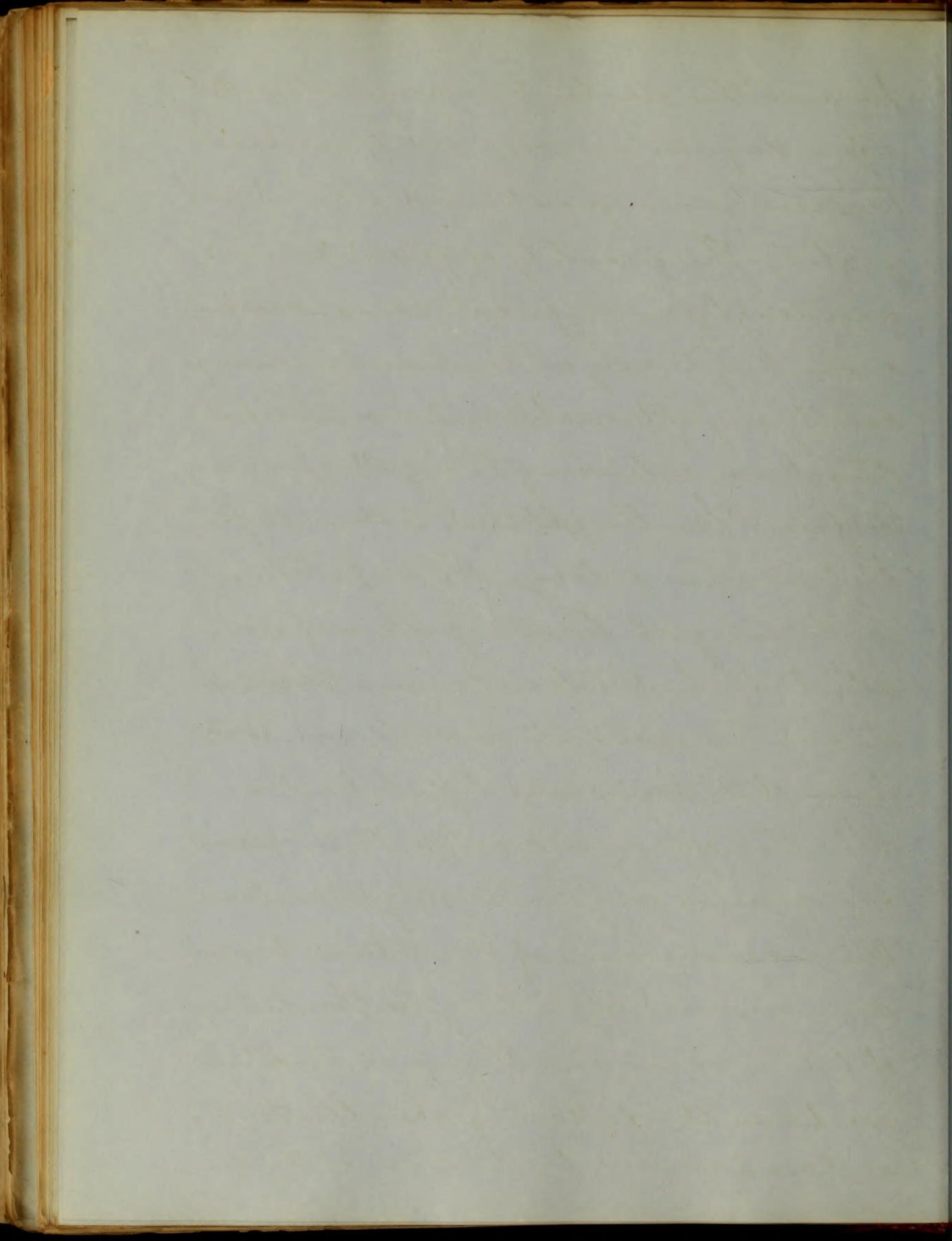


Anatomical Characters. The first effects of inflammation on the membranes of which we are speaking is a change of their texture and secretion. The Pleura becomes dryer and redder than natural. The dryness caused by a diminished secretion of serum. ~~The redness.~~ The redness by injection of blood into the minute subserous cellular vessels. This condition remains, but for a short time. Laennec denies that the secretion is ever checked and asserts on the contrary, that it begins to be augmented from the very inception of the disease, and proceeds *pari passu* in its course with it. Whether Laennec be right or not, it is impossible to ascertain positively, since patients never die at so early a stage of the disease. The weight of authority and analogy from inflammation of other serous tissues would lead us to think differently. But



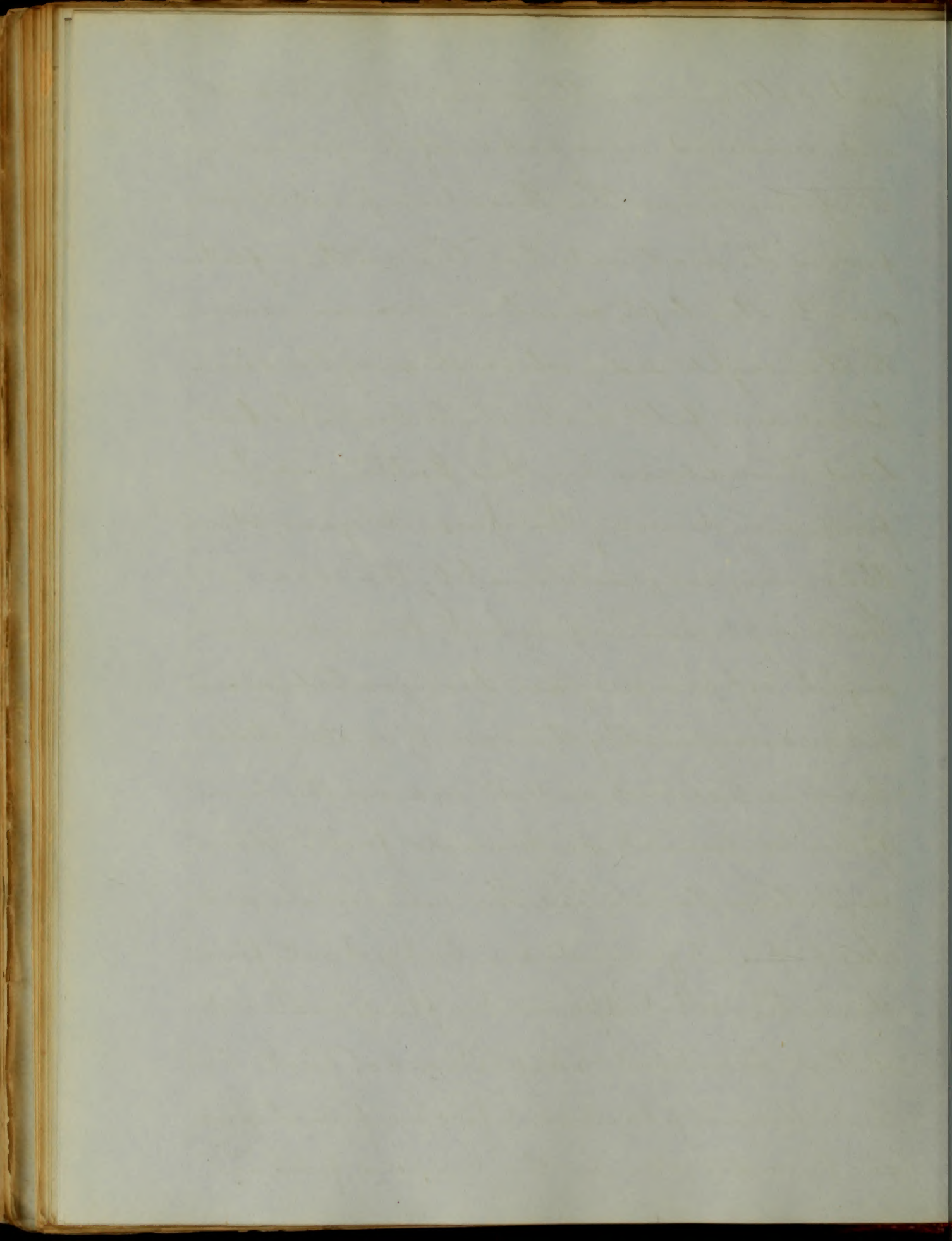
however this may be, it is very certain that a few days only is required to increase the secretion in quantity, and alter it in quality - The quantity of fluid varies exceedingly in different cases, sometimes amounting to only an ounce or two, causing scarcely any appreciable inconvenience; at other times extending to a gallon, or more - Professor Smith exhibited to the Class last winter a large stone pitcher containing at least a gallon of serum which he had taken from a Thorax at one time, and it is rational to believe that some was left behind -

When the effusion reaches its maximum or approaches even in its neighbourhood, the inconveniences of the Patient become numerous and afflictive - As the discharge of fluid is in one Pleura or the other we have the following results - The lung is closely pressed by the side of the spi-



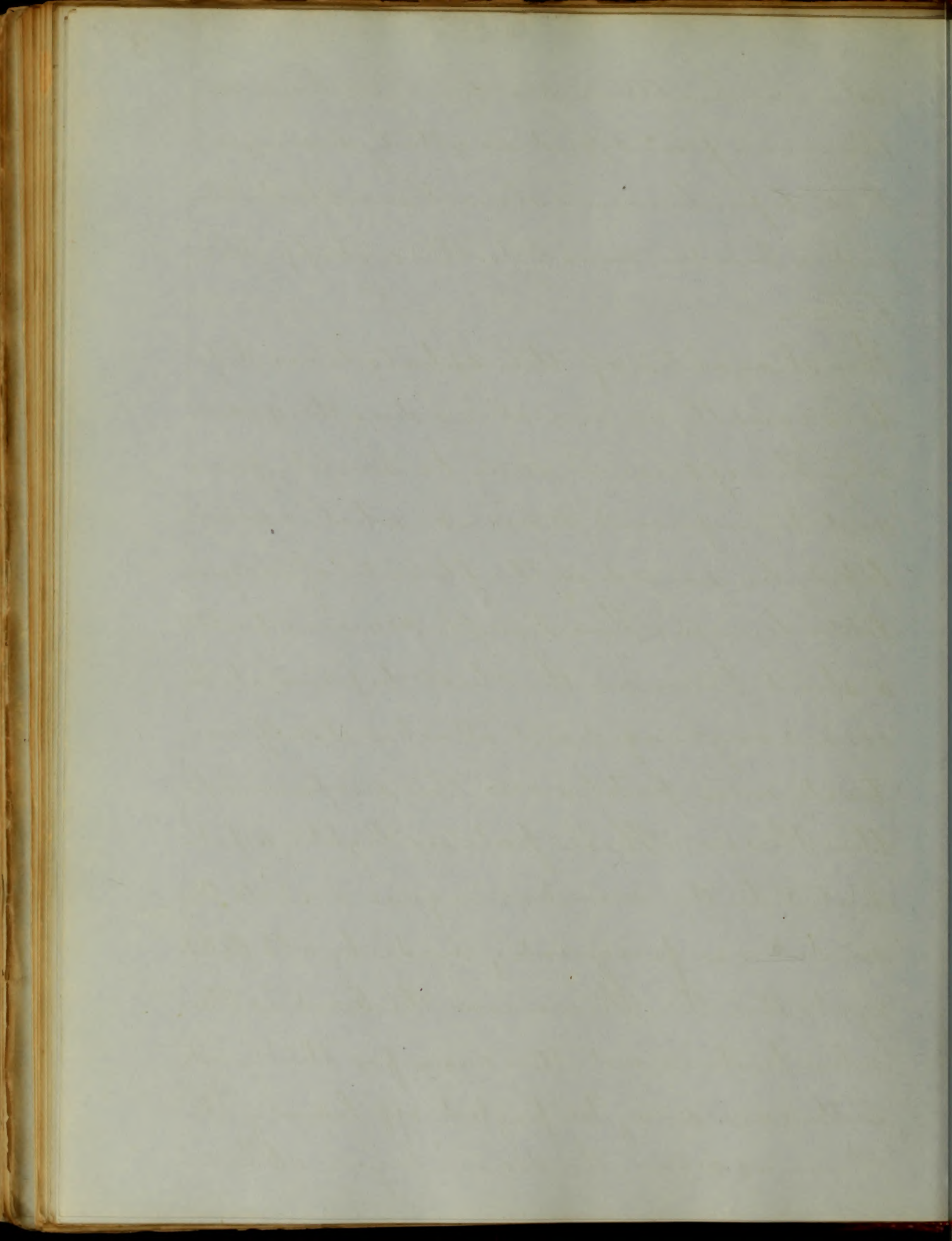
nal column in the vicinity of its root, and rendered incapable of performing its functions. The Heart is pushed from from its natural position, either farther over to the left, or what is more common to the right side, where it may be seen, heard, and felt, distinctly to beat. We have had two cases in the Baltimore Infirmary, during the present year, where this was unquestionably the case.

The Diaphragm is pushed down, rendering its upper surface horixoutal, or nearly so, consequently the cavity of the abdomen is lessened, and its viscera, the liver, Spleen &c pressed downwards from their respective localities. The intercostal muscles and integument are bulged out from the intercostal spaces. In fine instead of that beautiful adaptation of parts to their proper places, and proper functions so characteristic in the human frame,



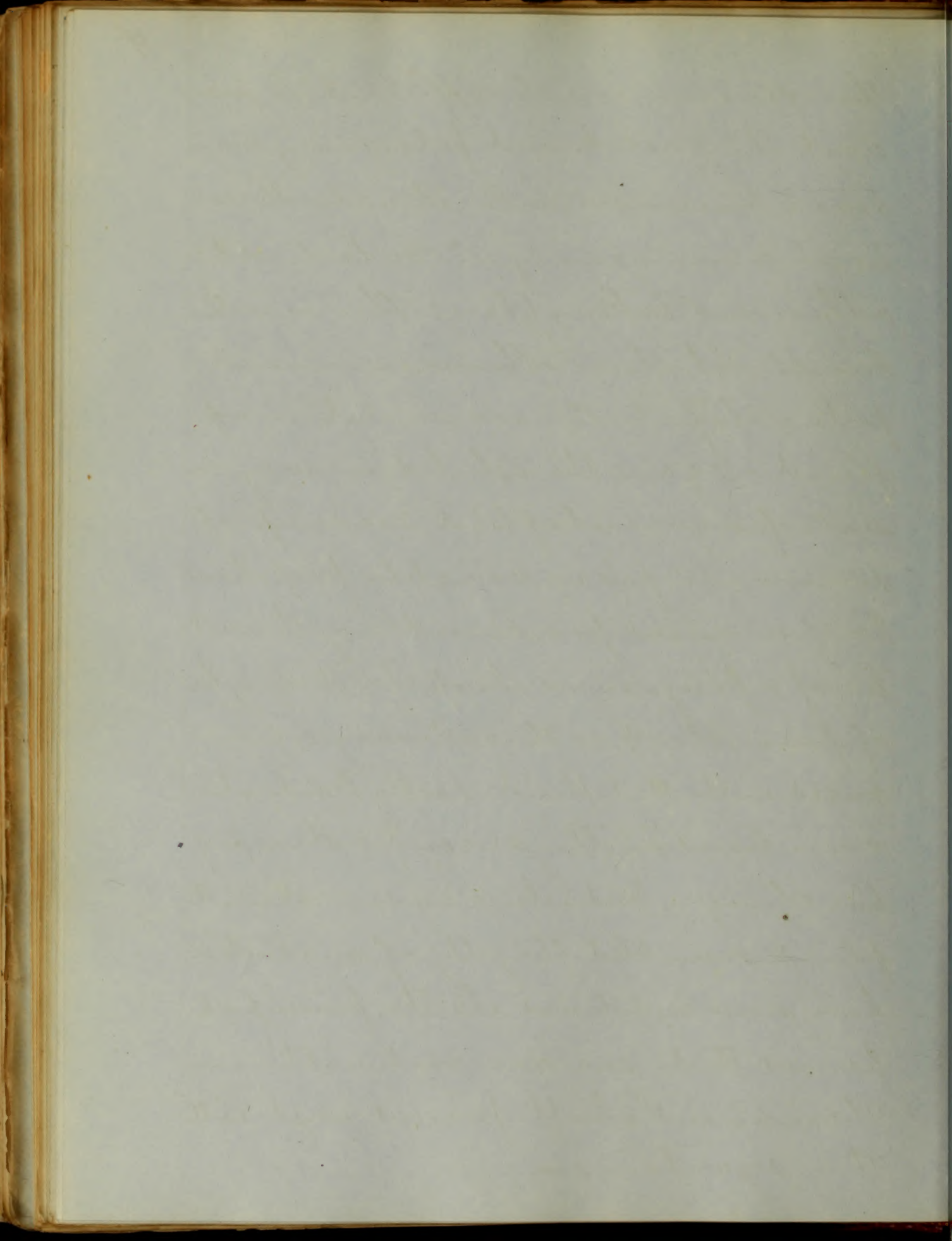
when in health and activity, we have every thing confused, and so utterly deranged, that life becomes almost insupportable, and a burden merely to the unhappy victim.

The character of the exhalations differs equally as much, as does the quantity. The effusion may be simply pure, and transparent serum, or what is more likely be mixed with flocculi of coagulable lymph. This lymph remains but a short time in the chest, before it becomes organized, and attaches itself actively, or in patches over the surface of the Pleura. These patches tightly agglutinated to the membrane, gave rise to the mistake, so frequently made by old Pathologists, that the Pleura was thickened in Pleuritis. Such is not the case, for the lymph with ease may be peeled off, leaving the Pleura as before the disease began. When



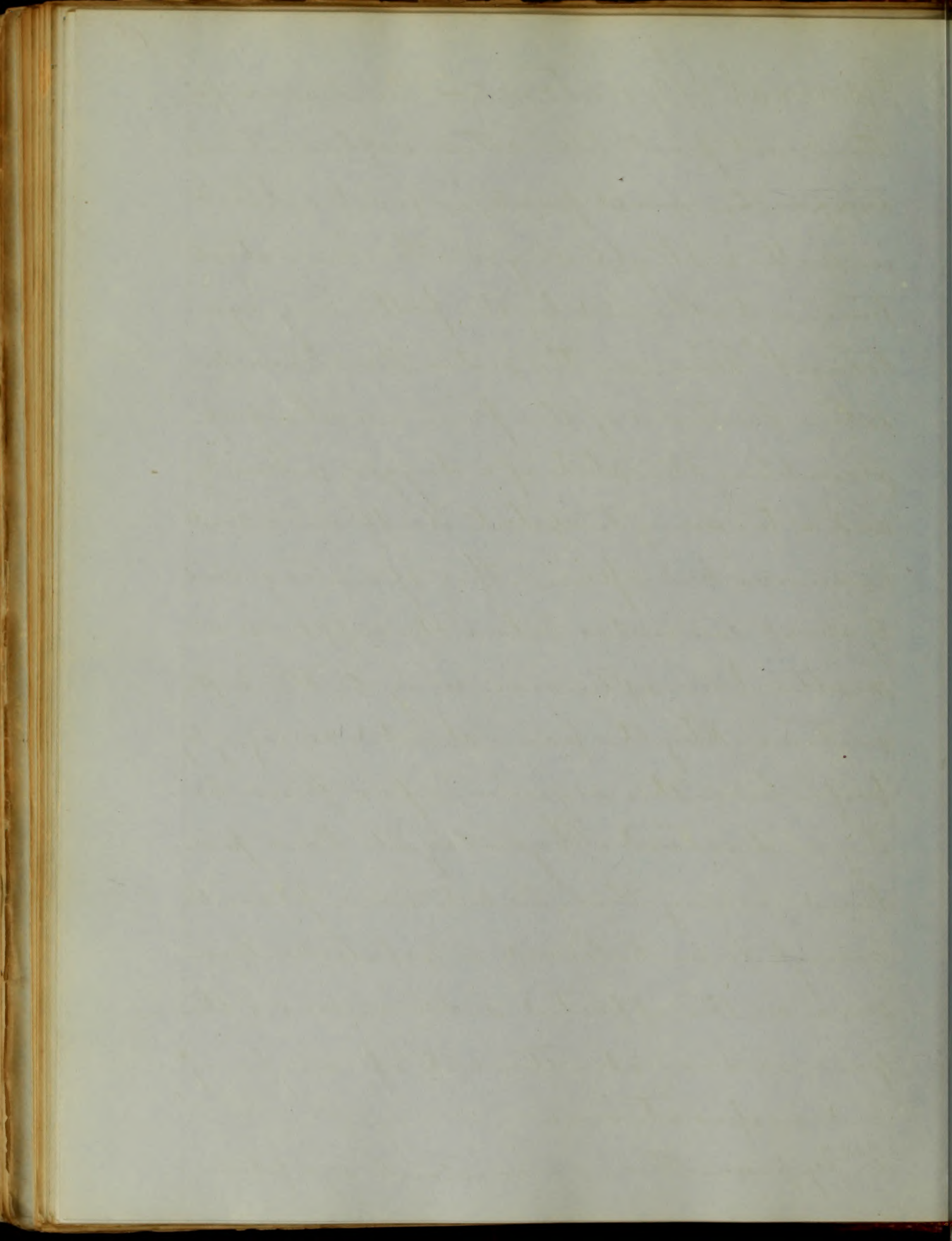


the effusion is not sufficient to prevent the costal and pulmonary membrane, besmeared with this plastic material from coming in contact, we have adhesions taking place. This is rather beneficial, than otherwise since it puts a stop to the accumulation of fluid. Again the exhalation may consist of a greenish fluid made up of serum and pus in variable proportions. Or of unmixed pus, resembling the matter of a phlegmonous abscess. Or it may be of pure blood, or the ordinary serum mixed with that fluid. Lastly Andral mentions, in the second volume of his Clinique Medicale, a case in which the fluid resembled the jelly of meat. We have now mentioned all the principal lesions that are ever met with in Pleuritis, and shall proceed next with the symptoms—



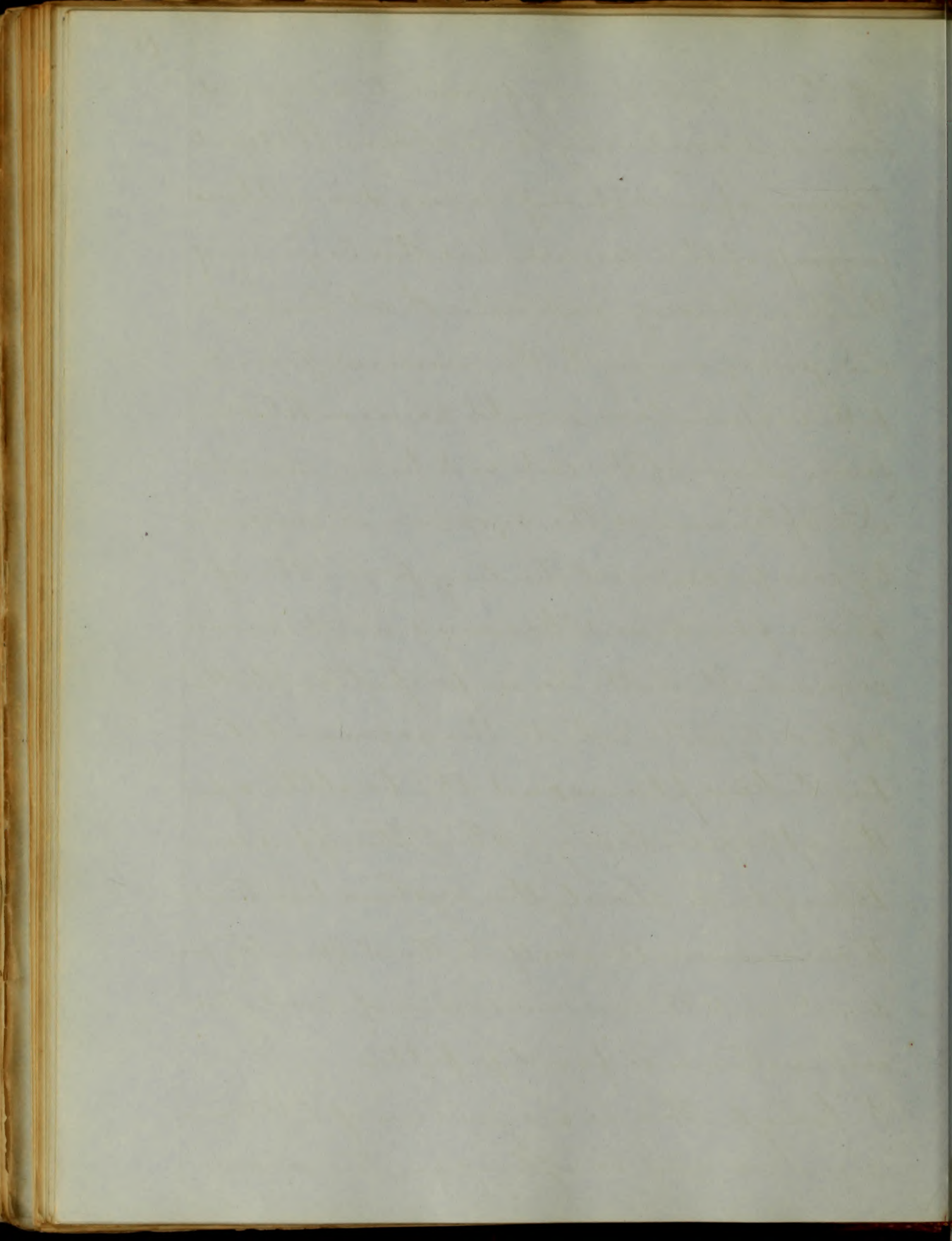
General Symptoms - The disease for the most part, like other inflammations ~~as~~ <sup>as</sup> for the most part, is first ushered in with a slight rigor - This in a short time is followed by the following symptoms - 1<sup>st</sup> Pain in the side - The characteristic features of the pain are sharpness, resembling the stab of a dagger, intensity, and a tendency to exhibit itself in a small circumscribed space - This space is generally about two inches below the nipple, no matter how extensive may be the inflammation - Why the pain should occupy by preference this region is far from being understood - Physiologists have produced many theories, but none plausible enough to be believed, or related - Pressure on the affected side increases the pain, as does also the act of coughing, and inspiration -

2<sup>nd</sup> Dyspnoea - This is a constant symptom



of Pleuritis, beginning from its very incep-  
tion, and continuing to its close. It depends  
however upon different causes during the  
progress of the disease. In the beginning of  
Pleurisy, the respiration is short, hurried,  
and jerky, owing to the increased pain a  
full inspiration would cause. Nature  
seems aware of the evil and hence avoids  
it. Afterwards the Dyspnoea is caused  
by compression of the lung from the ef-  
fused fluid, and becomes much more  
serious. It will be in proportion to the  
rapidity with which the accumulation  
has taken place, and the health of  
the opposite lung. When the effusion  
takes place slowly, the system has time  
to accommodate itself to the difficulty pro-  
duced, and the inconvenience of morbid  
respiration is far less felt.

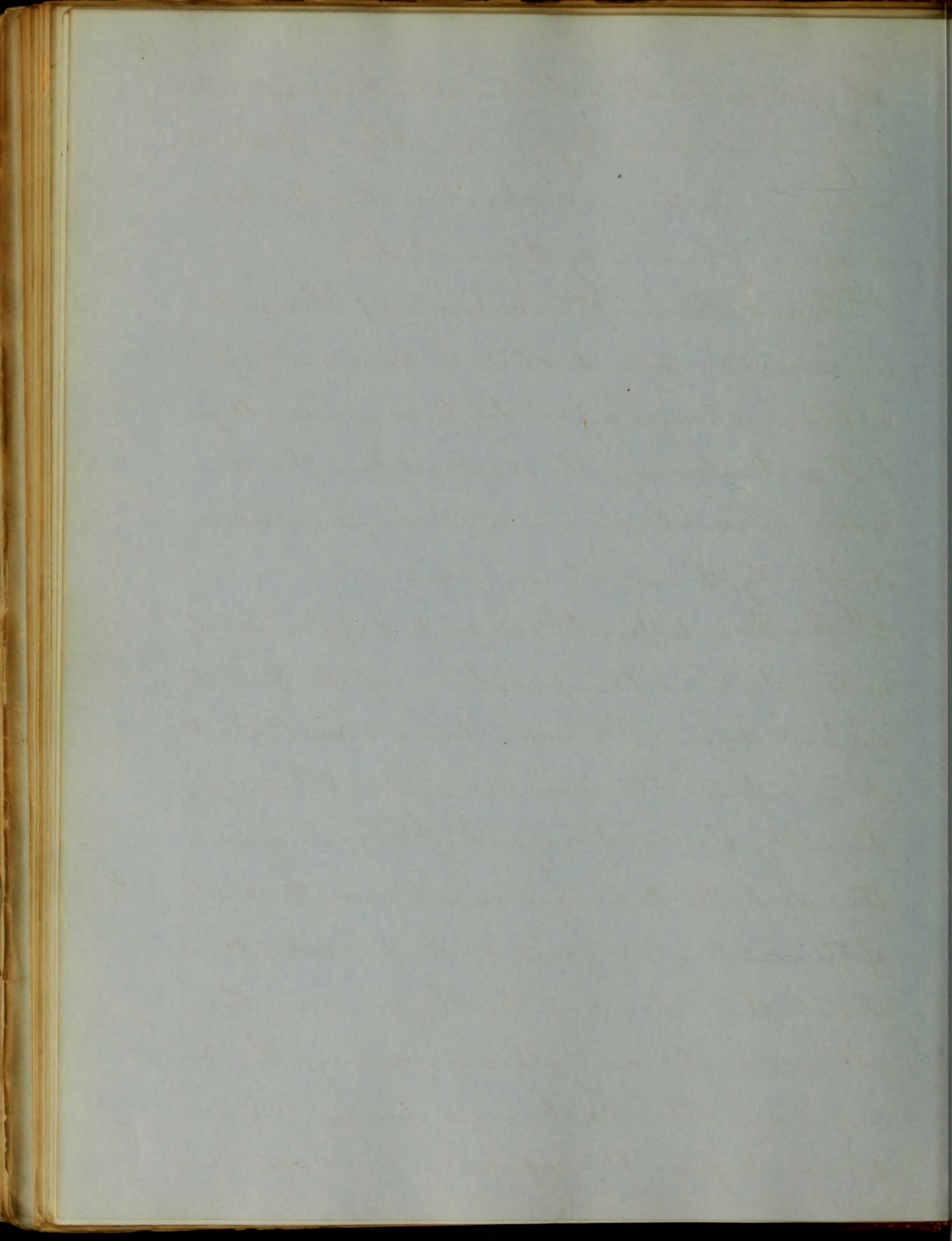
3<sup>rd</sup> Cough. This is a symptom of little con-  
sequence and is after wanted, or so



slight, as to attract the attention of neither patient, nor Physician - When it does occur it is dry and short, unless the disease is accompanied by Bronchitis.

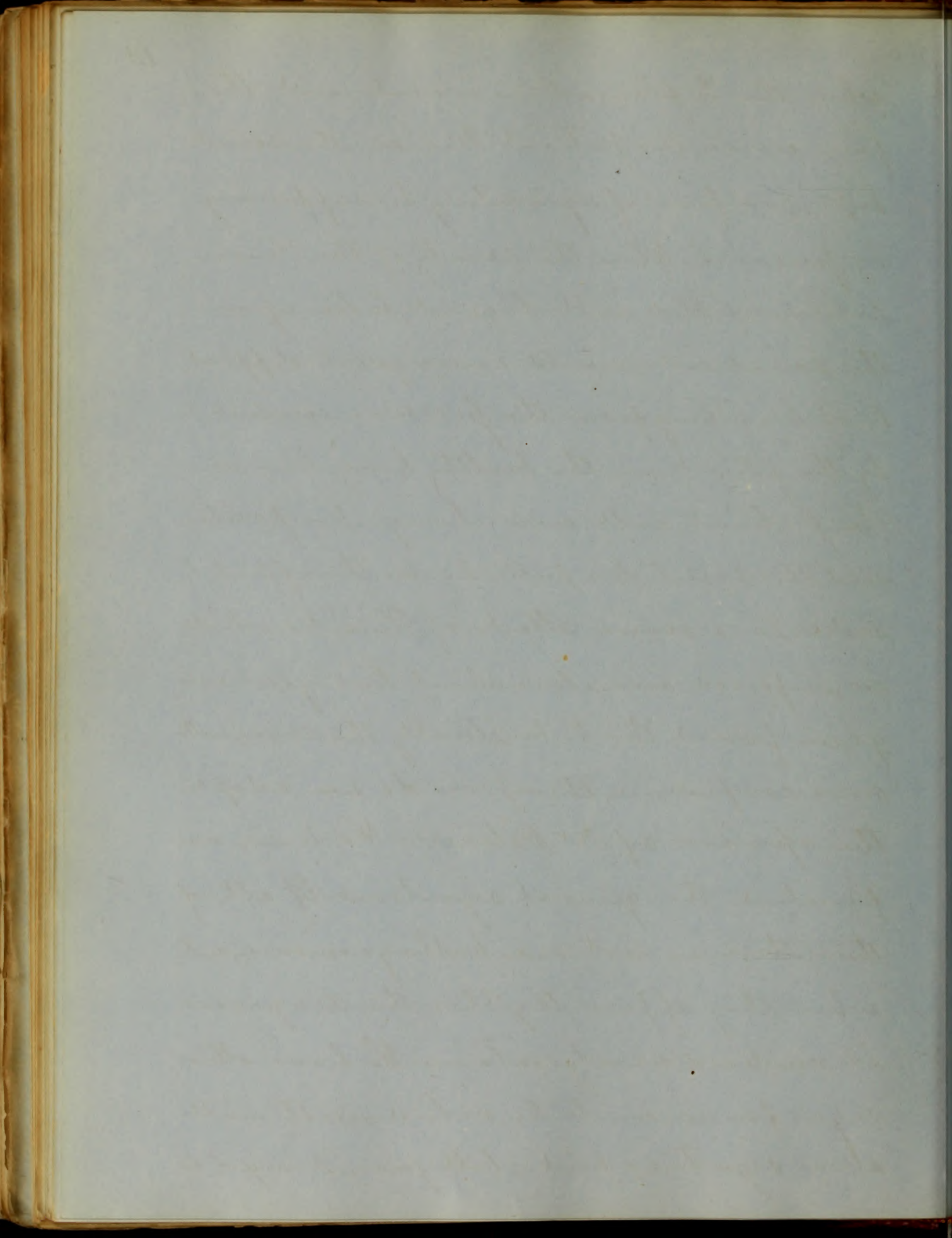
4<sup>th</sup> Fever - From the nature of Pleuritis we would expect this to be of a highly inflammatory type - Such is generally but not always the case - When the disorder prevails as an epidemic, we have it of a Typhoid character.

5<sup>th</sup> The Decubitus. Observers differ widely as to what is the position of the patient in bed during Pleuritis - Some assert that it is upon the sound side, Others say directly the contrary - Dr Watson affirms the dispute to be an exact counter part of the celebrated quarrel, which took place about the colour of the Chameleon; they all are right, and all are wrong - The Decubitus he thinks changes during the disease - Before the effusion has taken place



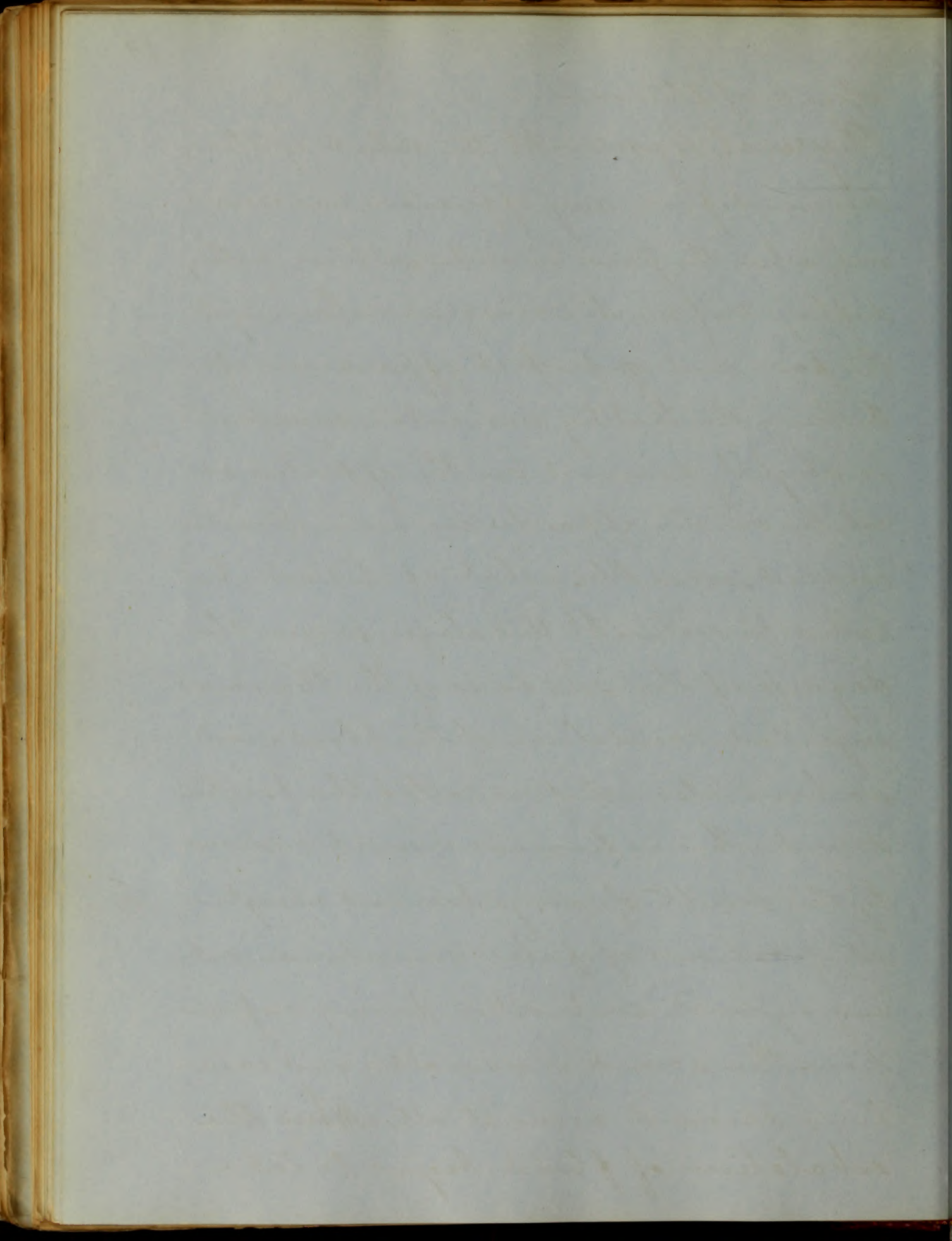


when the inflammation is acute, and the pain severe, the patient lies on the sound side, for fear of aggravating his suffering by pressure. When the cavity of the Pleura becomes filled with liquid, to lie up on the sound side, would cause great difficulty of breathing, from the pressure exerted by the fluid on the healthy lung, hence the patient, will now change his position and the Decubitus will be on the affected side. In a severe attack of Pleuritis, which we suffered ourselves, about two years ago, we found this to be strictly the case, with more confidence, therefore do we adopt the opinion of Dr Watson - We have now finished the general symptoms - Of all of them, there is not one pathognomonic, yet when they appear together, the diagnosis is rendered nearly certain - We have other signs, far more to be relied on than the above symptoms, and shall proceed next to



speaks of them -

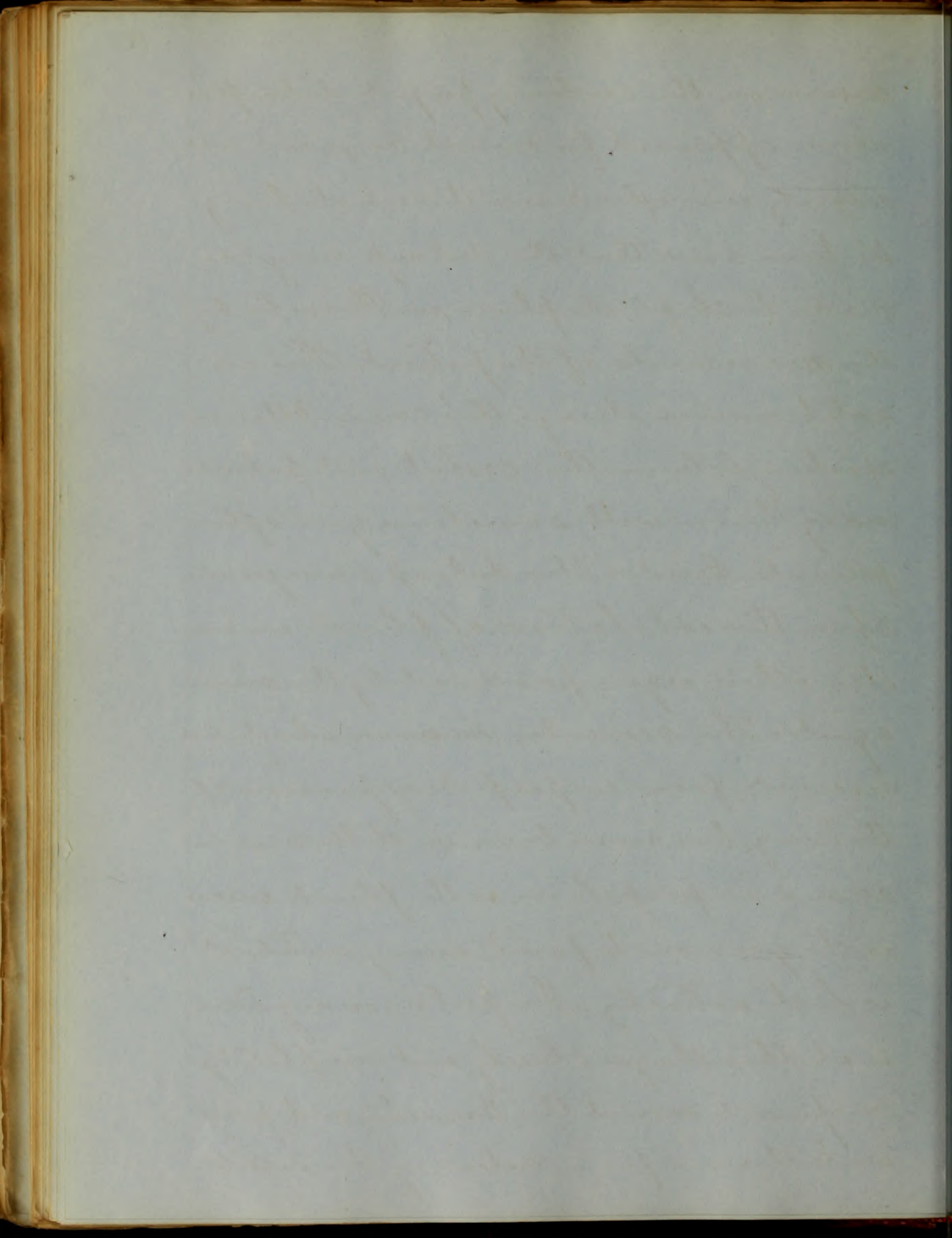
**Physical Signs** - At the outset of the disease, before any effusion, has occurred, and when the pain is acute, we have nothing displayed of much consequence - Owing to the pain, and imperfect expansion of the lung, the healthy vesicular murmur is slightly lessened on the affected side, while on the opposite we have it increased, resembling that of children, hence called puerile - At this stage, from the dryness of the surfaces of the Pleura, and injected condition of the blood vessels we have also what is called the friction sound - This is however most commonly the result of irregular and roughened portions of false membrane rubbing against each other during respiration - The sound is variable, and sometimes does not occur at all - When the exhalation of fluid begins to take



place, we have dulness on percussion.  
 The fluid may be made to vary its po-  
 sition, by the movements of the pati-  
 ent's body, and as the dulness is a  
 result of the fluid, it of course will  
 vary likewise. It differs from the  
 dulness of Pneumonia in that respect.  
 In Pneumonia we find it fixed and  
 constant, also preceded by fine crepita-  
 tion. Besides this circumstance the his-  
 tory of the disease will aid us in distin-  
 guishing between flatness, as it is found  
 in the one, or the other. In Pleurisy the  
 accumulation of fluid begins in a  
 very short time, from the inception of  
 the inflammation, and proceeds most  
 rapidly, until often the entire cavity  
 of one Pleura is filled. The dulness will  
 go on pari passu, with the accumula-  
 tion, and cover one entire side of the  
 Thorax, in two or three days. In Pleur-

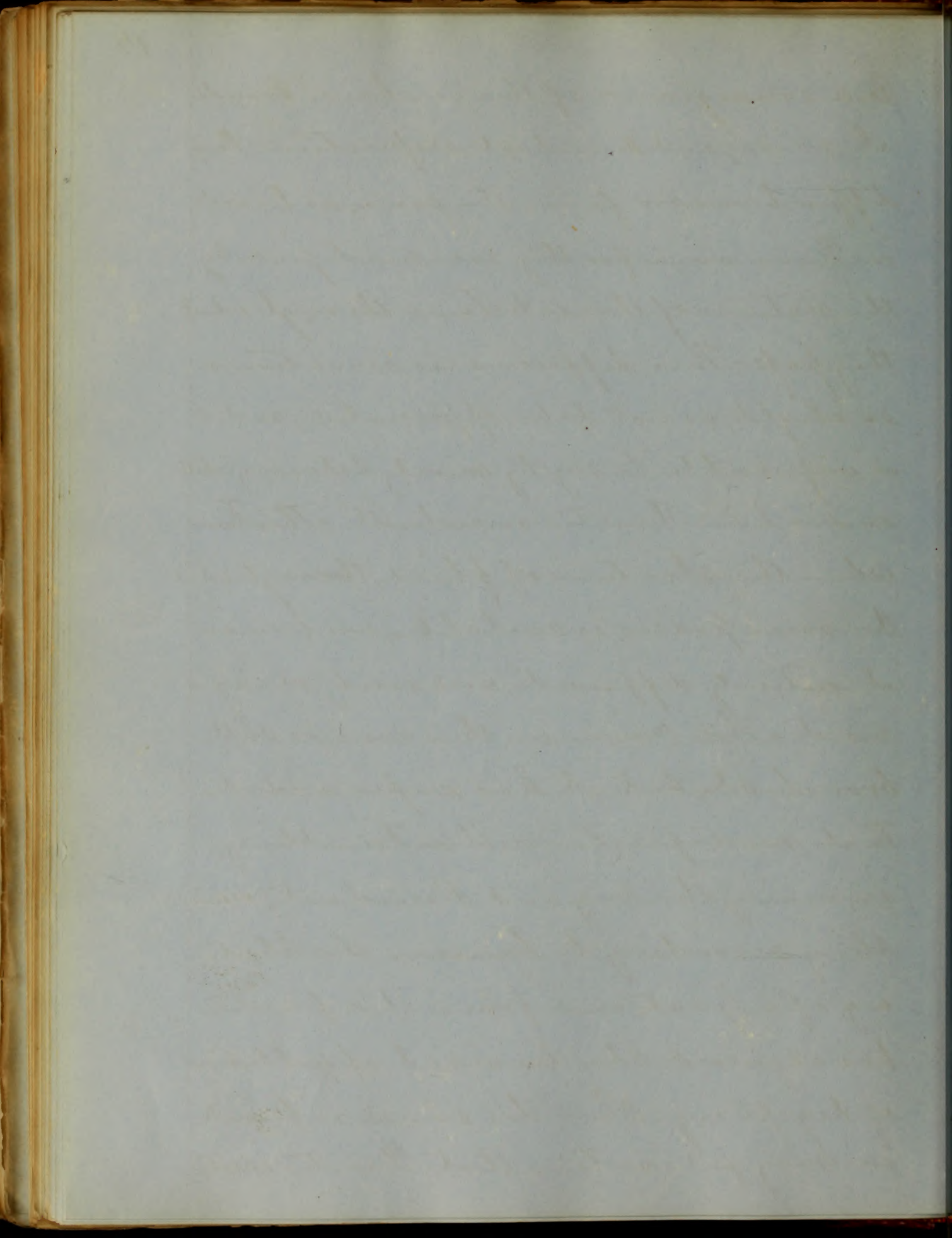
The first part of the book is devoted to a general history of the world, from the beginning of time to the present day. The author has taken great pains to collect and arrange the most authentic and interesting facts and events, and to present them in a clear and concise manner. The second part of the book is a history of the British Empire, from the reign of King James I. to the present day. The author has followed the same plan as in the first part, and has given a full and accurate account of the rise and progress of the British Empire, and of the various wars and events which have marked its history. The third part of the book is a history of the American States, from the first settlement to the present day. The author has given a full and accurate account of the discovery and settlement of the American continent, and of the progress of the American States, and of the various wars and events which have marked their history. The fourth part of the book is a history of the French Republic, from the revolution to the present day. The author has given a full and accurate account of the revolution, and of the progress of the French Republic, and of the various wars and events which have marked its history. The fifth part of the book is a history of the European States, from the beginning of the 18th century to the present day. The author has given a full and accurate account of the various wars and events which have marked the history of the European States, and of the progress of the European Republic. The sixth part of the book is a history of the world, from the beginning of the 19th century to the present day. The author has given a full and accurate account of the various wars and events which have marked the history of the world, and of the progress of the world. The seventh part of the book is a history of the world, from the beginning of the 20th century to the present day. The author has given a full and accurate account of the various wars and events which have marked the history of the world, and of the progress of the world.

motion on the contrary perfect dulness is  
 never apparent, for several days, and will  
 scarcely ever extend over the whole lung.  
 We have said that the dulness may be  
 made to shift its place in Pleuritis by  
 the movements of the patient. This is  
 not however always the case. Adhesions  
 existing between the costal and pulmo-  
 nary Pleura will sometimes, & often  
 prevent. Besides the dulness consequent  
 upon the exhalation of fluid, we have  
 also other signs produced by the same  
 agent. The vesicular murmur, which was  
 lessened, from imperfect expansion of  
 the lung, has now become still more  
 so, and in proportion, as the fluid increas-  
 es, it goes on to faint away, until it  
 is lost entirely. The pulmonary tissue  
 is at this stage closely, and completely  
 compressed around the Bronchi, and pre-  
 vents the air from entering the vesicles.

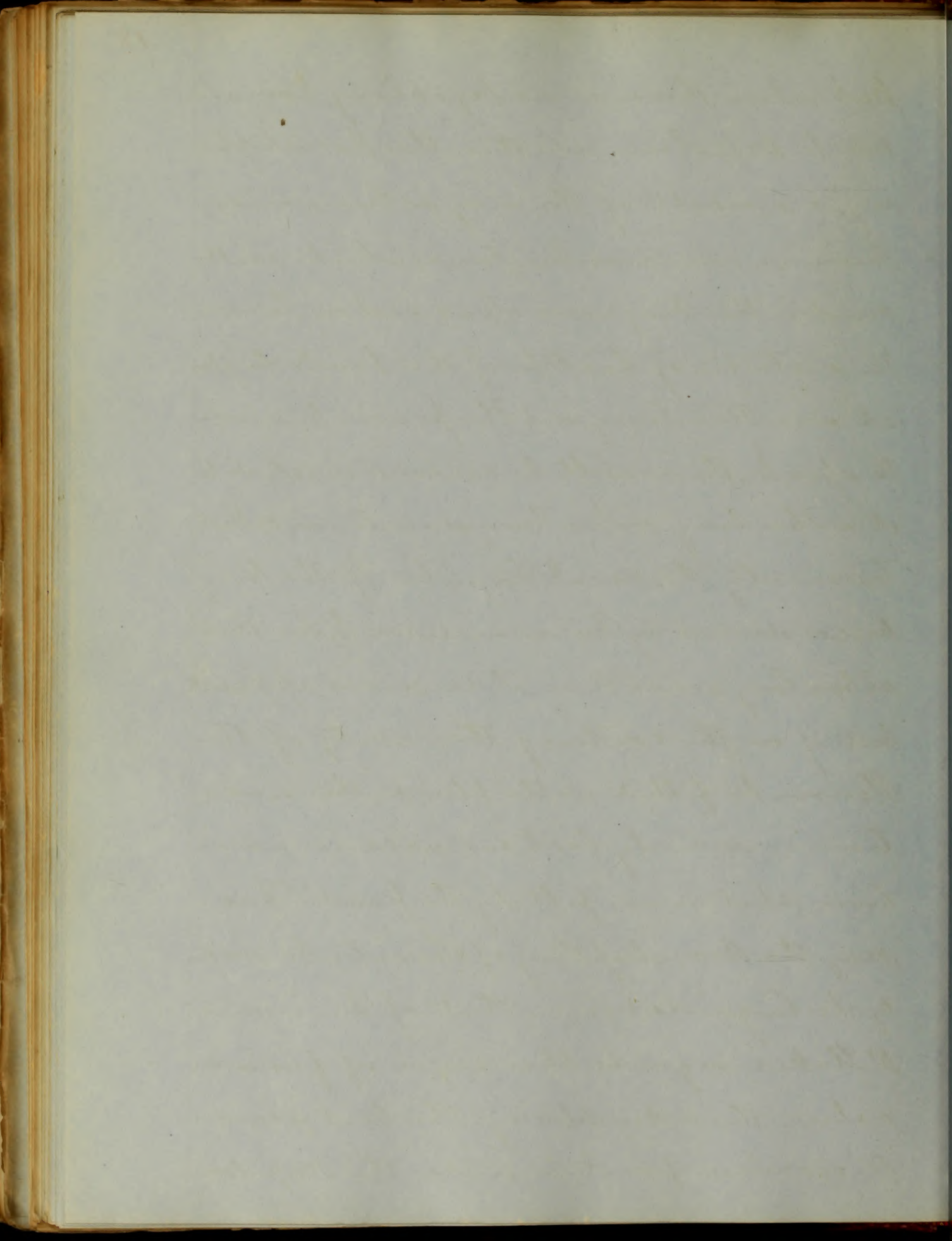




As a consequence of this we have Bronchial voice, and Bronchial respiration - They differ however from the same, as heard in Pneumonia, for they are modified by the nature of the substance through which they pass - This difference is sometimes so slight, as not to be appreciated, and it is impossible to say, by merely listening whether we have Pleuritis or not - At other times when the stratum of fluid, through which the voice passes, is suitable, we have it entirely different, and easily recognised - The voice in this case is still bronchial, but it has super-added to it modifications - It is "trembling, quivering, throbbing, and discordant," resembling according to Laennec the bleating of a Goat, and from this fact has acquired the technical appellation of *Stridor* - When this sound is heard we may feel certain that Pleuritis exists -

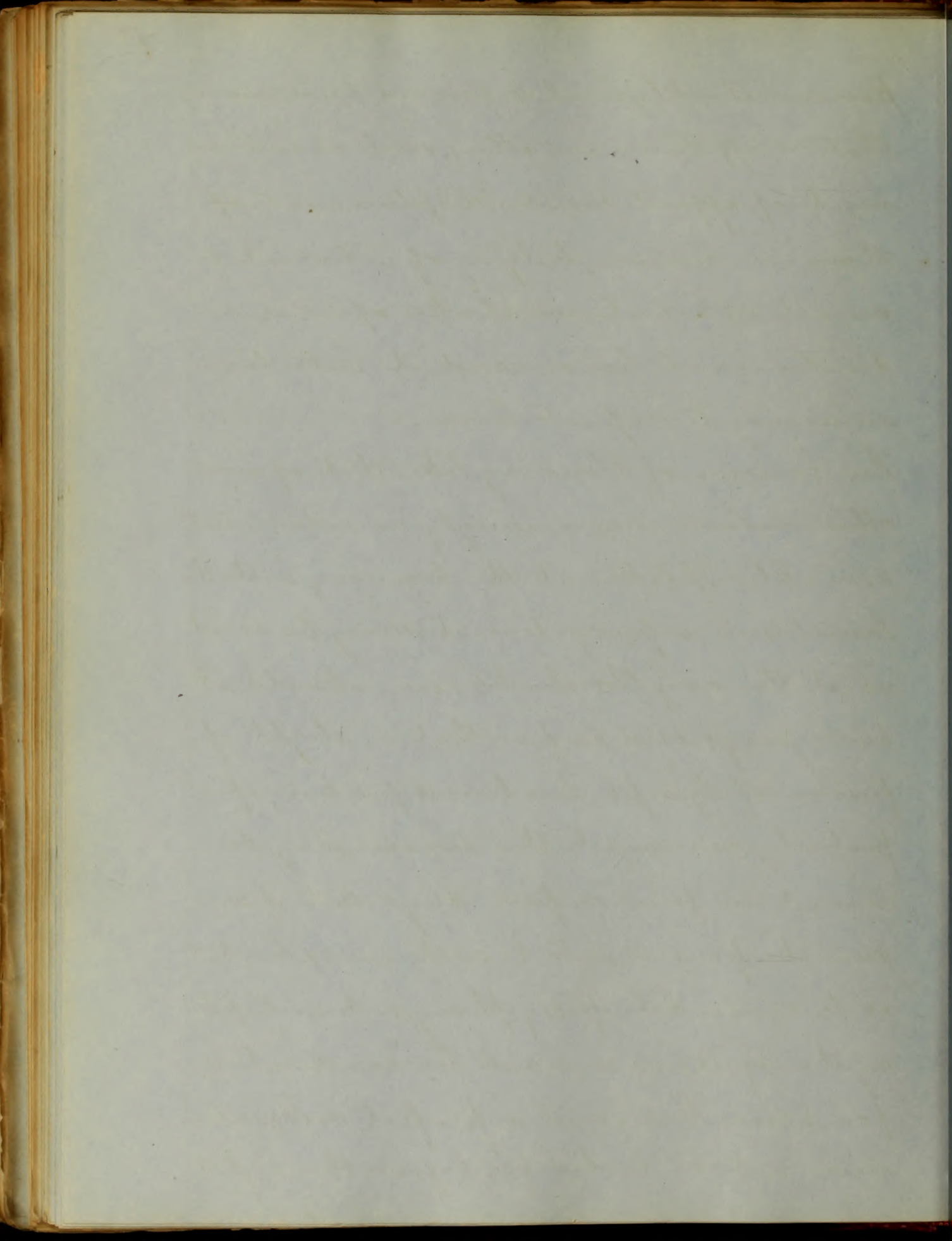


But when there is no Aegophony, how are we to ascertain, whether the Bronchophony is a result of Pleurisy, or Pneumonia, There is one circumstance, which will render the Diagnosis clear and certain. In a state of health if the hand be placed over the lung, and the person be made to speak, there will be communicated to it, a thrilling, vibratory sensation, called technically the vocal Fremitus. If the lung be condensed by Pneumonia, we have this vibratory sensation still more apparent but if on the contrary the cavity of the Pleura be filled with fluid, this sensation is entirely lost, and no communication whatever is felt by the hand. Thus may the Bronchophony of Pleuritis be readily distinguished from that of Pneumonia Dr Stokes regards this sign of far more value than Aegophony. The best place to examine for it, is under the Scapulae.



Besides the physical signs we have now treated off, there are others, such as enlargement of affected sides, displacement of thoracic viscera, bulging of intercostals &c, all of which, we spoke of under Anatomical lesions, and it will be unnecessary to repeat here -

The course of Pleurisy, like that of most other diseases, is exceedingly uncertain and variable. - If taken at the beginning, with the lancet and a purgative, it may be arrested at the very threshold; even should it have progressed so far, that a slight effusion of lymph has been deposited, if properly managed the disease may be cured in four, or five days. - But if serum be poured out to such an extent as to cause dulness, Aegophony, or Bronchophony, the symptoms can not be eradicated for some time, and a perfect restoration need not be looked for, before the eighth

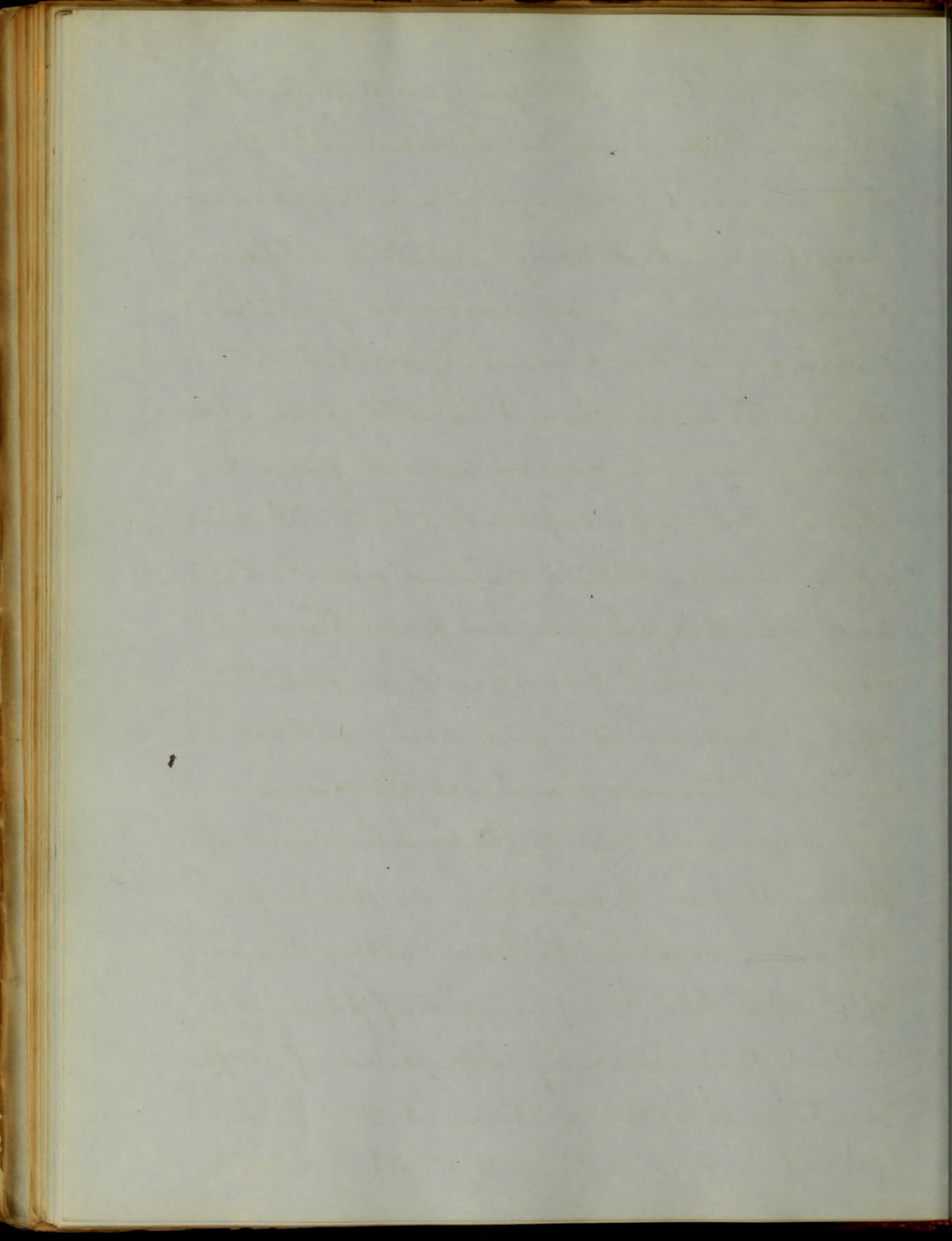


or tenth day. When dulness pervades  
 the whole of one side, when Begophony  
 has been once heard, ~~but~~ and again dis-  
 appeared, in consequence of too much ef-  
 fusion, when the vocal Fremitus is com-  
 pletely wanting, and the affected side  
 enlarged, the disease most commonly  
 has run, or will run into the chronic  
 form, and recovery becomes very doubt-  
 ful. Should the patient ever be so for-  
 tunate as to get well, weeks, yea months,  
 will have elapsed. What we have said  
 with regard to the course of Pleurisy is  
 liable to many and variable changes -  
 No two cases will ever progress alike, or  
 terminate alike, and hence it is im-  
 possible to give an accurate account of  
 its course. The above must be looked  
 upon simply as an approximation of  
 what takes place in acute Pleuritis -  
 Of chronic Pleurisy, Empyema, Pneumotho-

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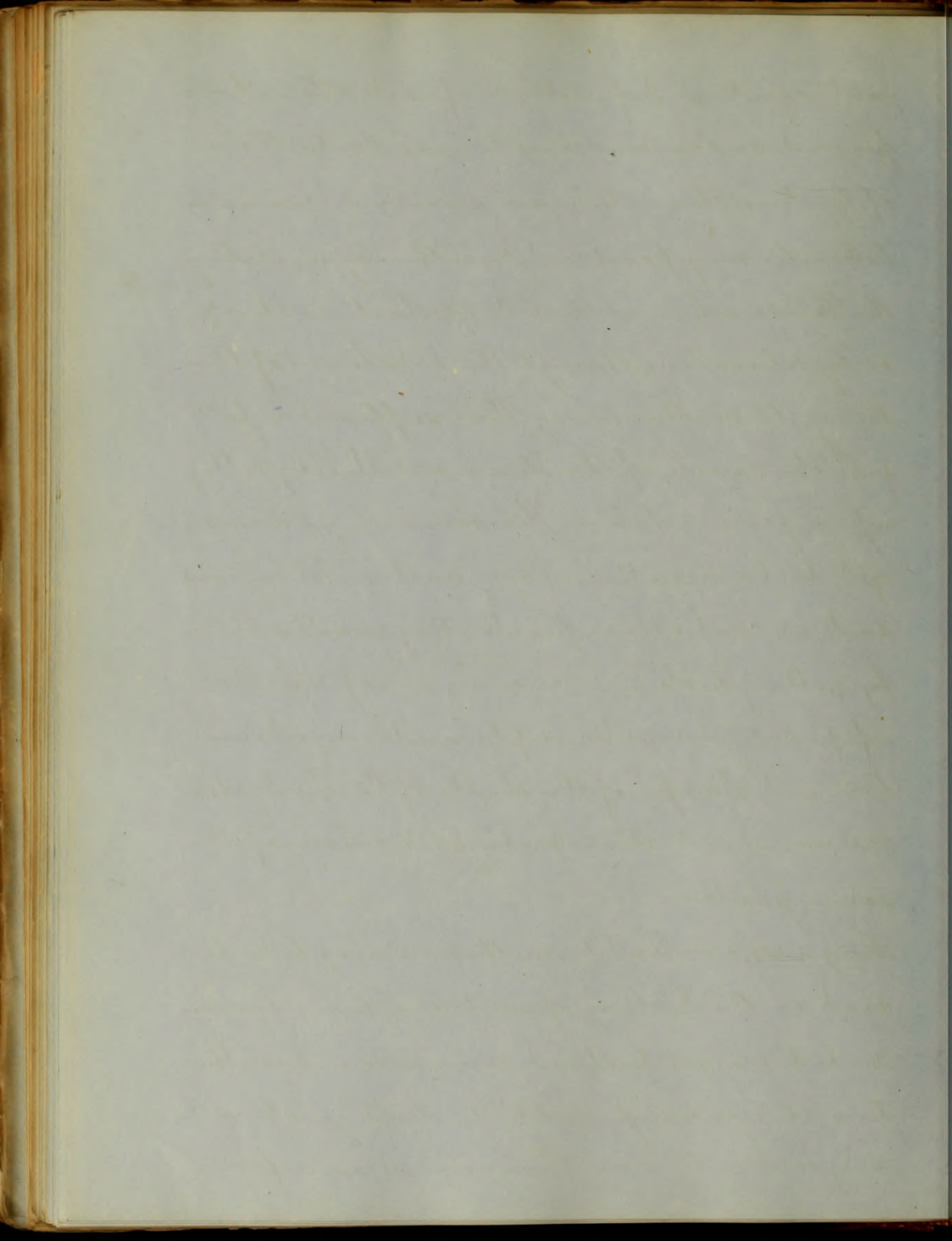


may &c. we have not pretended to speak -  
Causes - These may be divided into pre-  
 disposing and exciting - Among the former  
 may be ranked, congenital malforma-  
 tion, consisting of narrowness of chest;  
 a sanguin temperament, irritability  
 of system, weakened health from pre-  
 vious disease, convalescence from fe-  
 ver, and the puerperal state - The most  
 common exciting causes, are cold  
 and dampness, hence we find Pleuritis  
 occurring most frequently in winter  
 and Spring, in low and damp situations  
 in men than in women, as the former  
 are more exposed to the inclemencies of  
 the weather, in boys than in girls for  
 the same reason - We have other diseases  
 often the exciting causes of Pleurisy.  
 Indeed Pneumonia, by extension of infla-  
 mation so often induces it, that it was  
 for a long time believed, that they could



not exist independent of each other. A suppressed cutaneous eruption, or Metastasis of Gout or Rheumatism, are sometimes causes, also tubercles may produce it, either by irritating the Pleura, when in direct contact with it, or by ulcerating through the substance of the lung, its matter being thus suffered to fall into the cavity of the Pleura, and thereby setting up inflammation. The remaining causes yet to be mentioned are mechanical injuries such as contusions, penetrating wounds, either by cutting instruments, or by sharp spicules of fractured ribs, inflammation, ulceration, and abscesses of the walls of the chest, also cancerous, and other malignant diseases of the same parts—

Diagnosis — Until within a very late period in the history of medicine, since Laennec made his most brilliant discoveries in auscultation, it was impossible to distinguish with any certainty any Thoracic disease from



another. It is a well known fact that the general symptoms peculiar to Pneumonia, are many of them, sometimes all met with in the other cases. So great a man as Haller used the following language "under the title of Pneumonia inflammation I mean to comprehend the whole of the inflammations affecting either the viscera of the Thorax, or the membrane lining the interior surface of that cavity, for neither do our Diagnosticks serve to ascertain exactly the seat of the disease, nor does the <sup>difference in the seat of the</sup> seat of the disease exhibit any considerable variation in the state of the symptoms, nor lead to any difference in the method of cure." How very inaccurate, and ridiculous, would such a statement be, if it were made, under our present mode of investigating these diseases. No class of maladies are now better understood than those of the Chest, and the diagnosis of Pleurisy to one acquainted with acc-

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cultivation is clear, and easily made - The disease  
 which it most resembles are Pneumonia, Pleu-  
 rodynia, and Pericarditis - From the former  
 it may be known, first, by the character of  
 the pain, which is more acute in Pleurisy,  
 and for the most part confined to one spot,  
 generally below the nipple - Secondly the Sputa  
 differs - In the disease of which we are speak-  
 ing, we find it simply mucous, and transparent  
 or slightly streaked with blood - In Pneumonia  
 on the contrary it is perfectly characteristic of  
 that disease, being viscid, and rust coloured -  
 Often however Pneumonia exists for some  
 time without the rusty Sputa, and is accom-  
 panied by so much inflammation of the Pleu-  
 ra, as to render the pain very severe - Thus we  
 are unable, from either of the above symptoms  
 to form a correct opinion, as to our diagno-  
 sis - The Physical signs point out the sure  
 land marks - And what are they?  
 1<sup>st</sup> - We have dulness occurring sooner in

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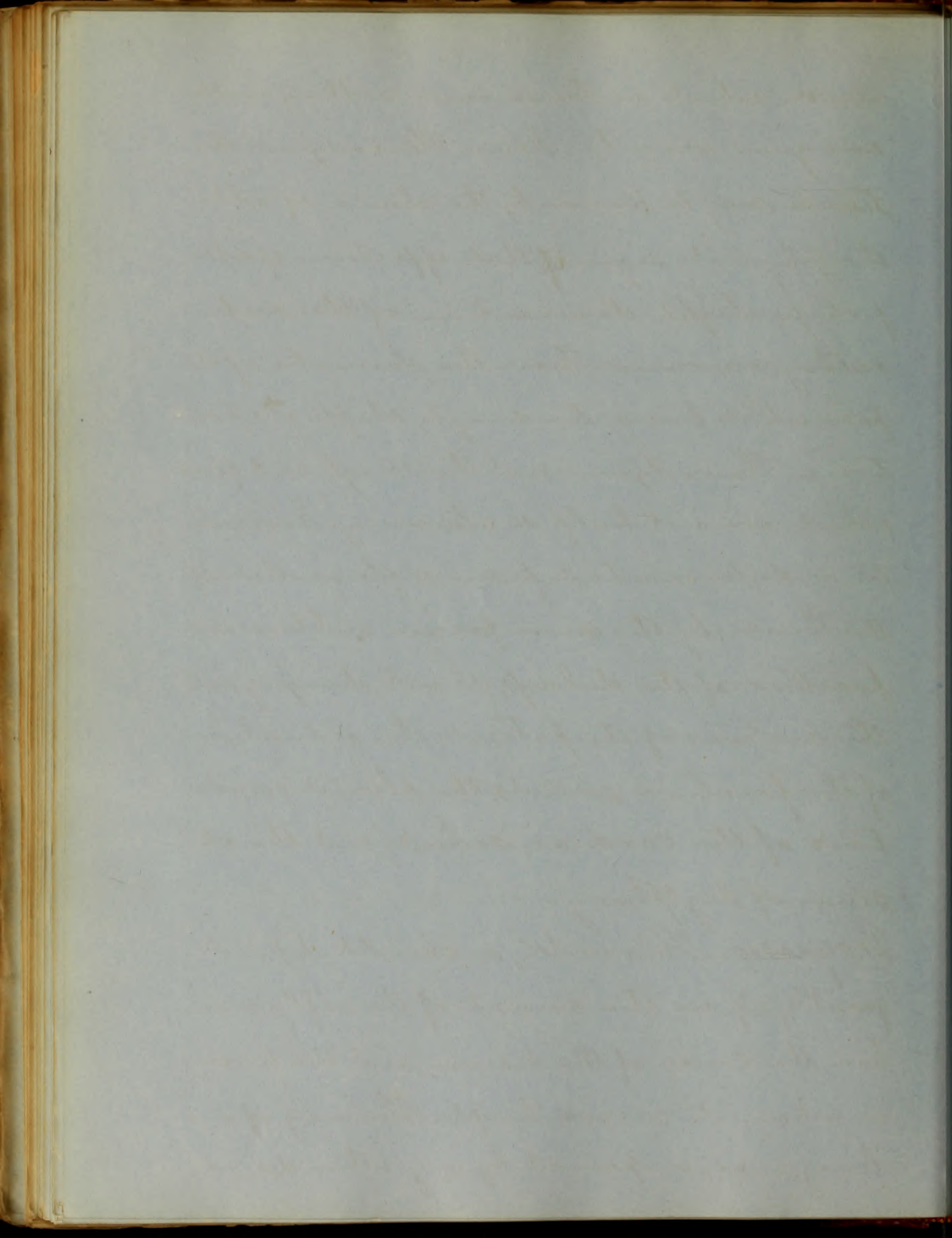


Pleuritis, we have it also in the latter stage  
 more perfectly flat, we have it displaying  
 itself in the most dependent parts of  
 the Thorax, and varying with the motions  
 of the patient. We may have it in Pleurisy  
 extending over the whole surface of the Ster-  
 num. Hepatisation can render only one  
 half of it dull. Again we have two signs  
 that are never heard in Pneumonia, Aegoph-  
 any, and the Friction sound - They are not  
 always present, but when so, are perfectly  
 pathognomonic. In Pneumonia we have  
 the crepitant rale of pulmonary inflama-  
 tion; never any such sound in Pleurisy -  
 The hand placed over a hepatized lung, feels  
 the vocal vibration distinctly and preter-  
 naturally increased; over pleuritic effusion  
 it is entirely wanting, and this fact is  
 one of the surest diagnostic marks -  
 Lastly, we have enlargement of side, bul-  
 ging of intercostals, displacement of vis-

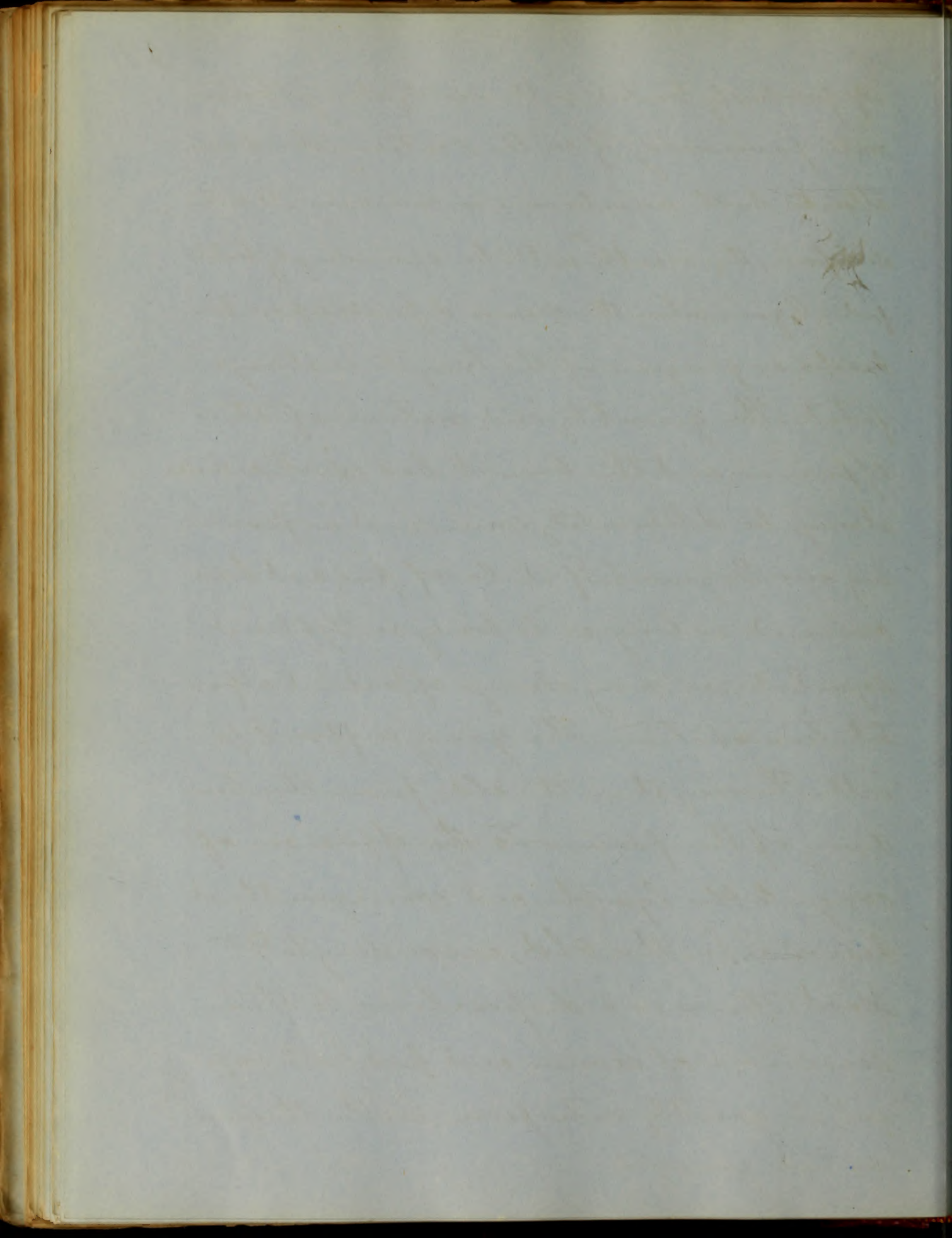
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acute, which in Pneumonia nothing will ever give rise to. From Pleurodynia this disease may be known by the absence of all the physical signs <sup>in</sup> that affection, except perhaps slight diminution of the respiratory murmur. From the character of the pain, which has a tendency to shift its position in Pleurodynia, and the cough and fever which are not half so alarming. Pericarditis is distinguished from inflammation of the Pleura, by the more precise outline and position of the dulness, its not changing with the motions of the patient, the situation of the friction sounds, the altered condition of the cardiac sounds, and the absence of Rhythm.

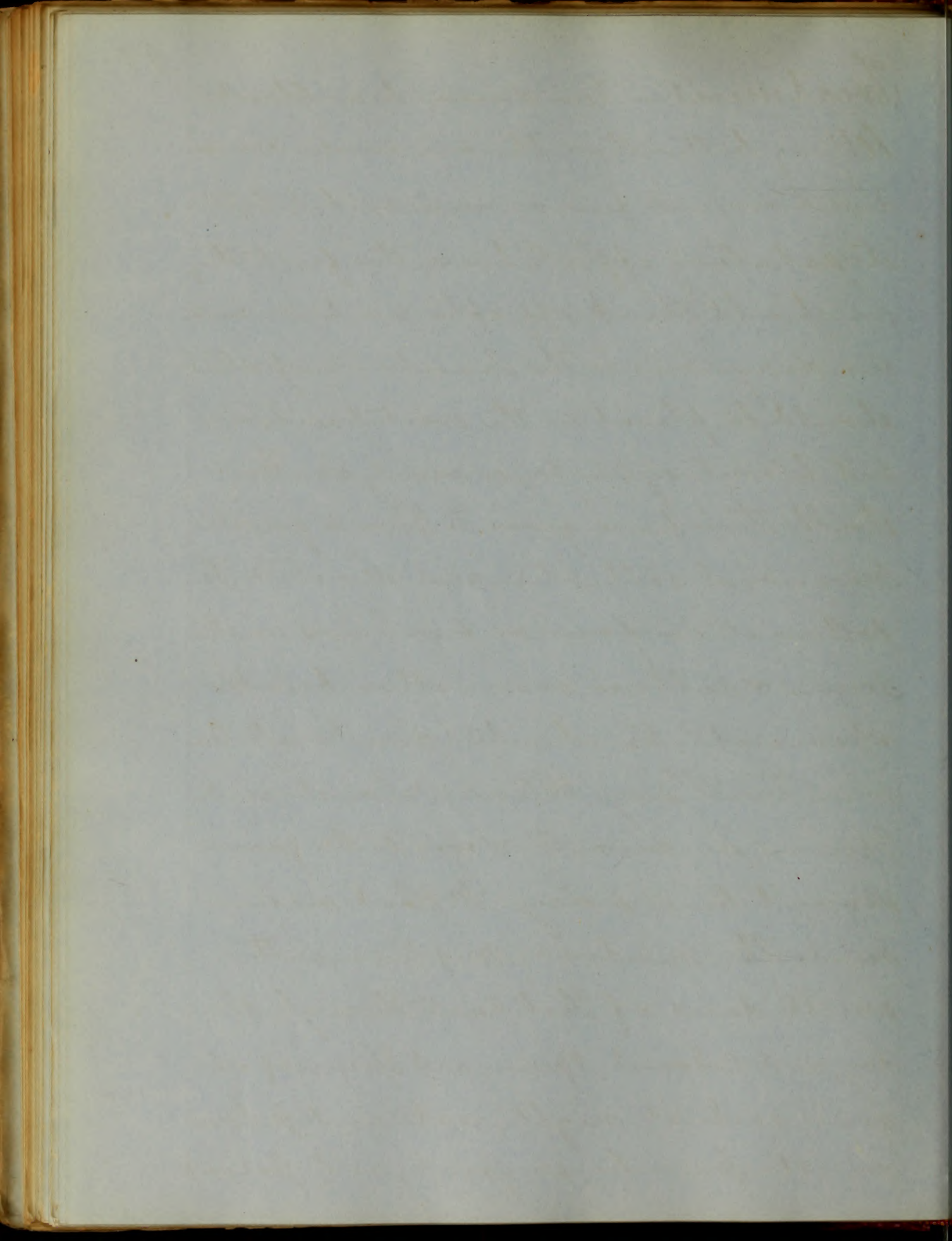
Prognosis - This will, or should depend greatly upon the amount of the inflammation, the cause of the disease, and the persons in whom it occurs. Simple Pleurisy of one lung, unaccompanied by any other disease



if properly treated, will nearly always terminate favourably. If on the contrary the disease attacks both membranes, or one over its entire surface, the result will be exceedingly doubtful. Again when the disease depends upon tubercles, or gangrenæ of the lung, it is always fatal. The quantity, and nature of the effusion, and the time it has existed should always be deliberately considered in forming our Prognosis. If it be of pus, and has remained so long as to bring on typhoid symptoms, we may always apprehend a fatal termination. The young suffer less with Pleurisy than the old, from the tendency of the former to the effusion of coagulable lymph, and consequently adhesions. In the old, according to Dr Wood, there is a disposition to the secretion of serum and pus, both of which greatly interfere with the curative process.

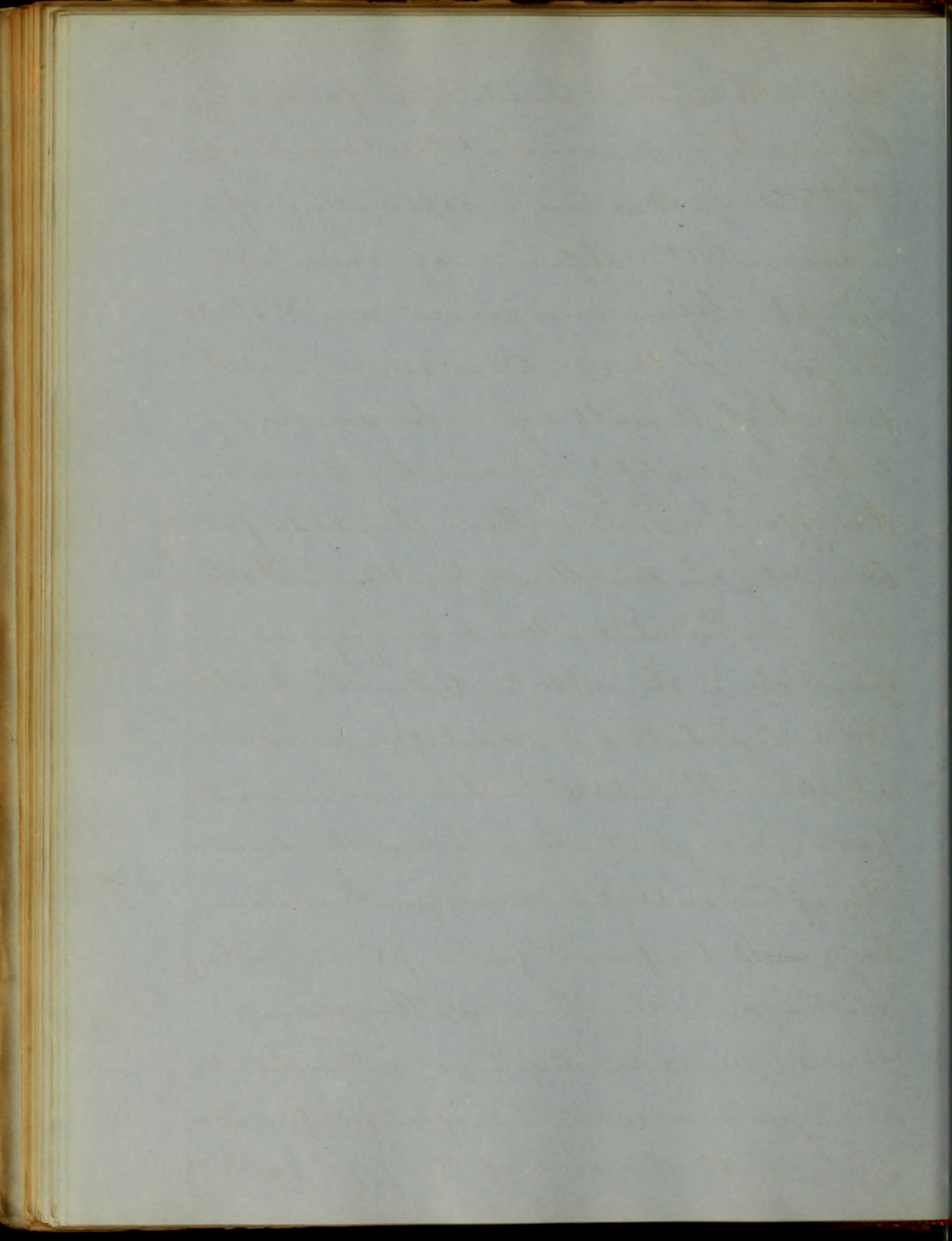


Treatment— Few diseases bear blood  
 letting better than the one under consi-  
 deration, and few, or none exhibit better  
 its salutary effects, hence the first thing  
 we should think of, after we have made  
 our diagnosis is the lancet— The patient  
 should be placed in the erect position  
 and bled to syncope, or nearly so— He  
 should then have given to him a good  
 Mercurial cathartic, and directed to  
 follow it in four or five hours with  
 Lenna & Salts, or some other brisk  
 aperient— We should direct at the  
 same time (says Watson) Calomel and  
 Opium, in minute doses to be given  
 several times a day— Dr Wood recom-  
 mends the neutral Mixture, with  
 small doses of Tart. Emet, through the  
 day, and Calomel, Opium, and Speake, of one  
 grain each at night, not unless how-  
 ever the pain be so great, as to prevent





sleep - We incline decidedly in favour of  
 the positive mercurial treatment of  
 Dr Watson - Mercury is especially useful  
 to prevent the effusion of coagulable  
 lymph - Upon our second visit should  
 the pain still continue severe, and the  
 fever high, it will again be necessary  
 to bleed, or apply cups or leeches over  
 the affected side - These should be fol-  
 lowed by an emollient poultice - Hoops  
 or bran meal makes a very good one  
 Great care should be taken that the  
 cold air does not reach the moisten-  
 ed skin - Should the above means not  
 prove adequate to subdue the disease  
 (they often will however) great advan-  
 tage will be found from placing a large  
 blister over the Thorax - This means  
 should never be dispensed with, should  
 the symptoms continue after proper de-  
 pletion - At the end of the fifth or sixth



day, if the effusion be considerable  
 and no indication of improvement, it  
 will be essentially necessary to touch  
 the gums of the patient, if this has not  
 already been done, with some one of  
 the preparations of Mercury - Calomel,  
 or Blue Mass, if the stomach, or bowels be  
 irritable is the best - Sometimes the  
 fever will abate, indeed entirely leave  
 the patient, and he will be able to leave  
 his bed, and walk about the room,  
 and yet the cavity of his pleura will  
 be nearly filled with liquid effusion  
 When such is the case we must re-  
 sort to diuretics, aiding them with  
 continued blisters - Calomel in small  
 doses, combined with Mt. Pot. may be  
 given, or cream of tartar, or Squill, or  
 Digitalis, if the pulse does not contrain-  
 dicate - Should there be cough, infu-  
 sion of Yucca, will be found very use-

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

ful - Colchicum, and the Godise of Pot, have also been used with some advantage, according to some authorities - But in spite of every effort we can make use of, and the best medical skill, the progress of the effusion will sometimes obstinately continue, until the bag of the Pleura becomes so much distended, as to displace the Thoracic viscera, and compress so much the opposite lung, as to give rise to alarming symptoms of dyspnea - Under such circumstances the operation of Paracentesis should be at once performed - We shall not describe the operation, as acute Pleurisy is the subject of our remarks and it seldom, or never requires it - The diet of the patient in this disease should be of the mildest character - For the first two or three days he should be allowed nothing but

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

mucilaginous, or farinaceous broths,  
 such as ~~as~~ rice water, infusion of  
 slippery elm, tapioca &c. - After the fever  
 has been subdued, he may have a little  
 more substantial diet, using great cau-  
 tion even then as to both the quantity  
 and quality of what he eats. Refreshing  
 acidulated drinks may be allowed  
 freely. His room should be kept  
 very quiet, and moderately and uniform-  
 ly heated. Great care should be taken  
 that the patient does not get the bed  
 cloaths, thrown off of him during the night  
 and thus expose himself to cold. -

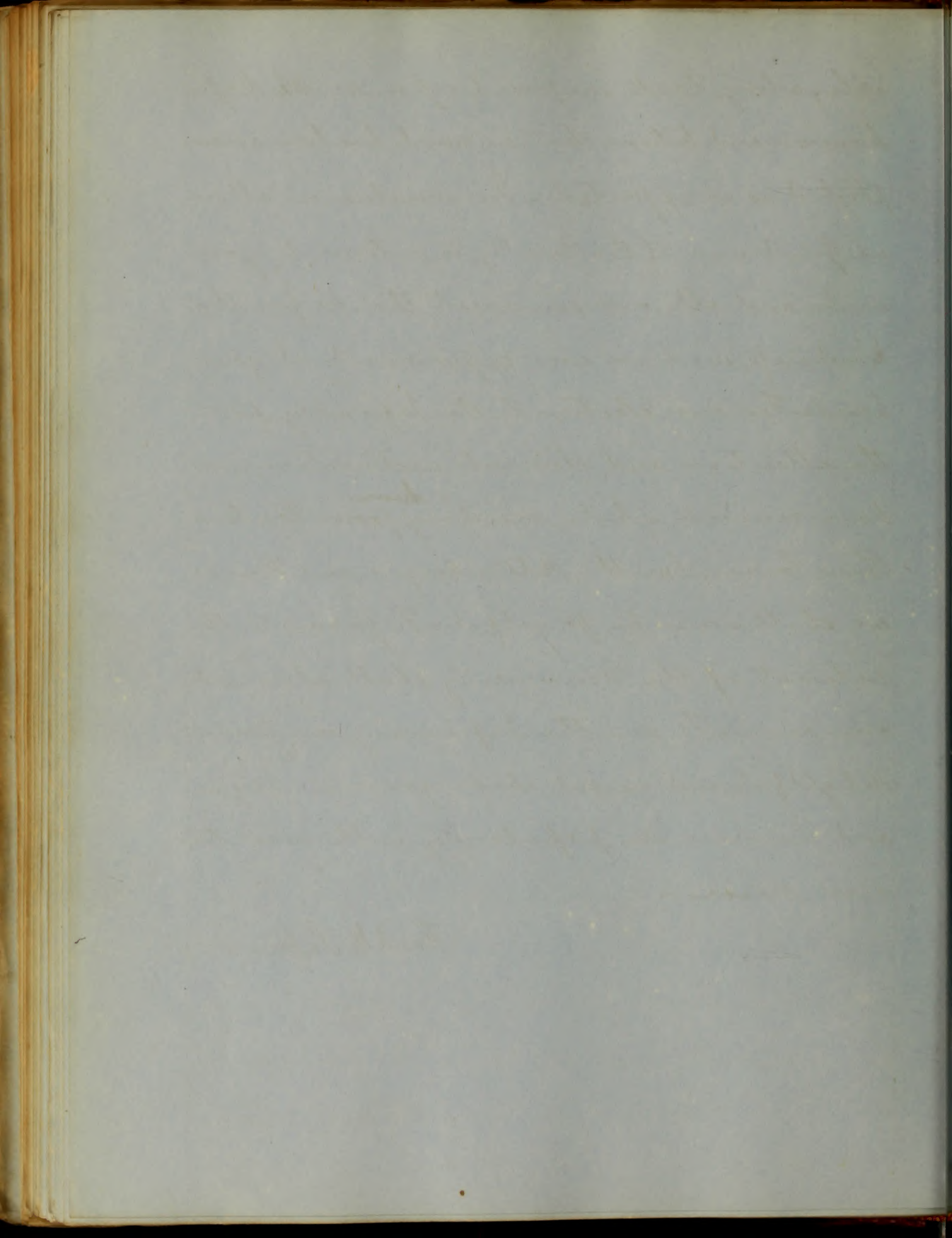
We have now concluded our remarks. In them  
 we have simply related facts, that others  
 have discovered, and long since recorded  
 in more beautiful language. We make  
 no pretensions to originality. Our ignorance  
 of all medical subjects, would have deterred  
 us from writing altogether, were it not an

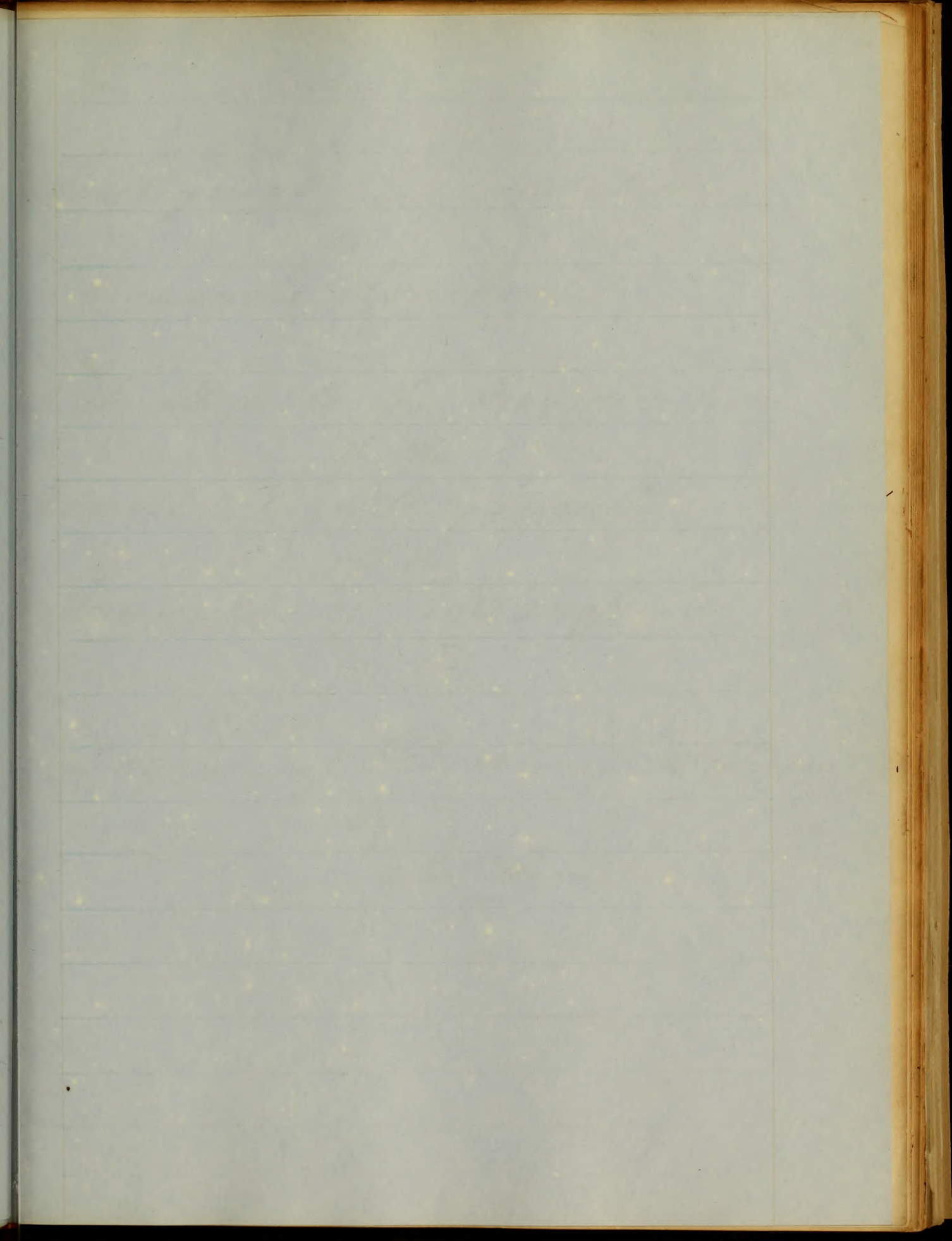
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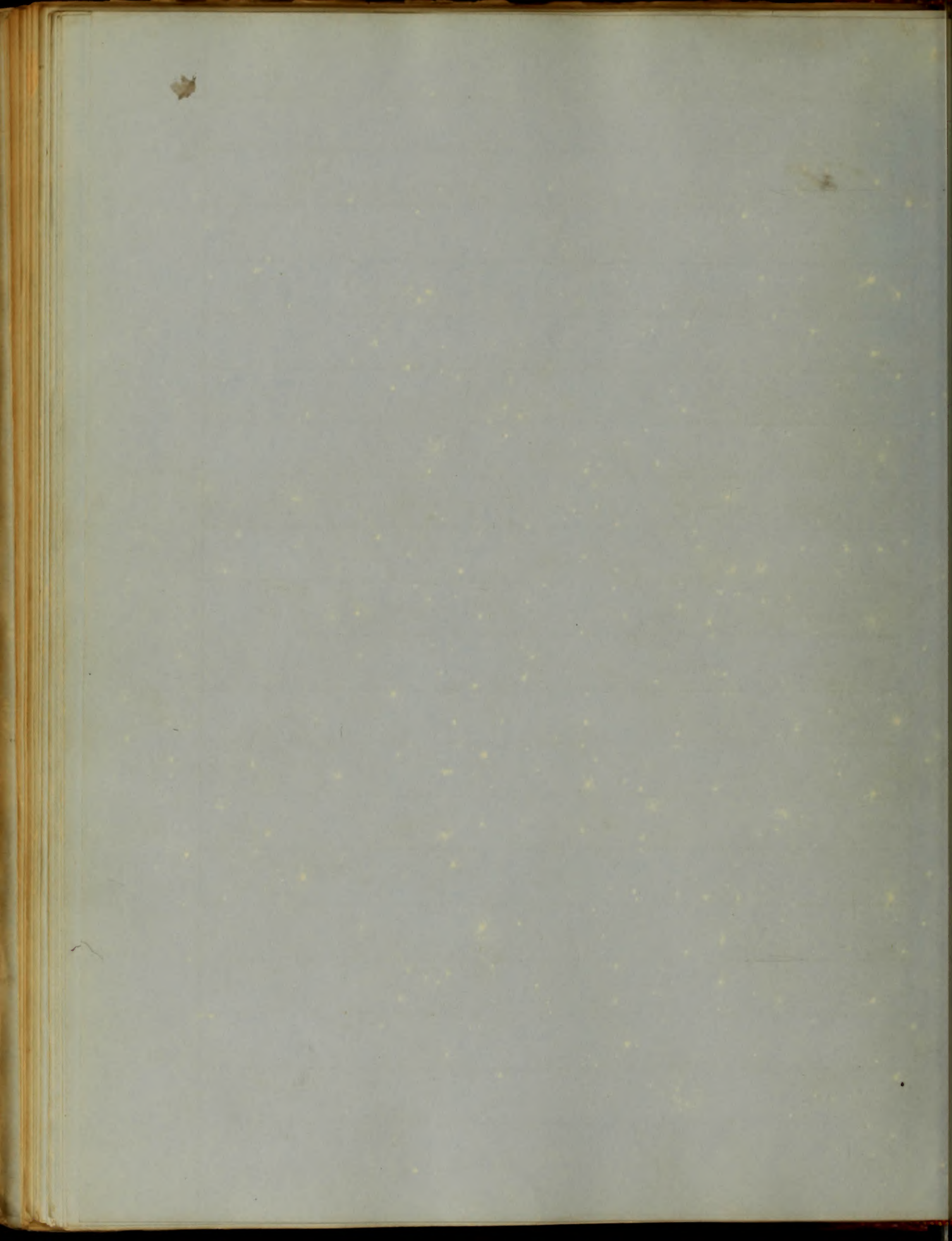


obligatory task, imposed upon us - We hope however and believe that as much has been accomplished, as is expected - In conclusion allow us Gentlemen of the Faculty, to return to you each, and all our sincerest thanks for the kindness, we have ever experienced at your hands. For our election to the Infirmary, for the attention and clinical instruction, we have received, while residing <sup>here</sup> from Doctors Chew, Power, Smith, Miltinberger, and Thomas we shall never be forgetful - To promote the interest of the University shall always be our aim - To see the Infirmary, our present delightful, and useful abode, grow in size, and increase in popularity will ever be our desire -

Fred<sup>d</sup> Lapeer







An

Inaugural Dissertation  
ON  
Cynanche Trachealis

Submitted to the Examination  
of the  
Provost, Regents & Faculty of Physic  
of the  
University of Maryland  
for the

Degree of Doctor of Medicine  
by  
Jas. Thomas

University of Cambridge

Library

Department of Mathematics

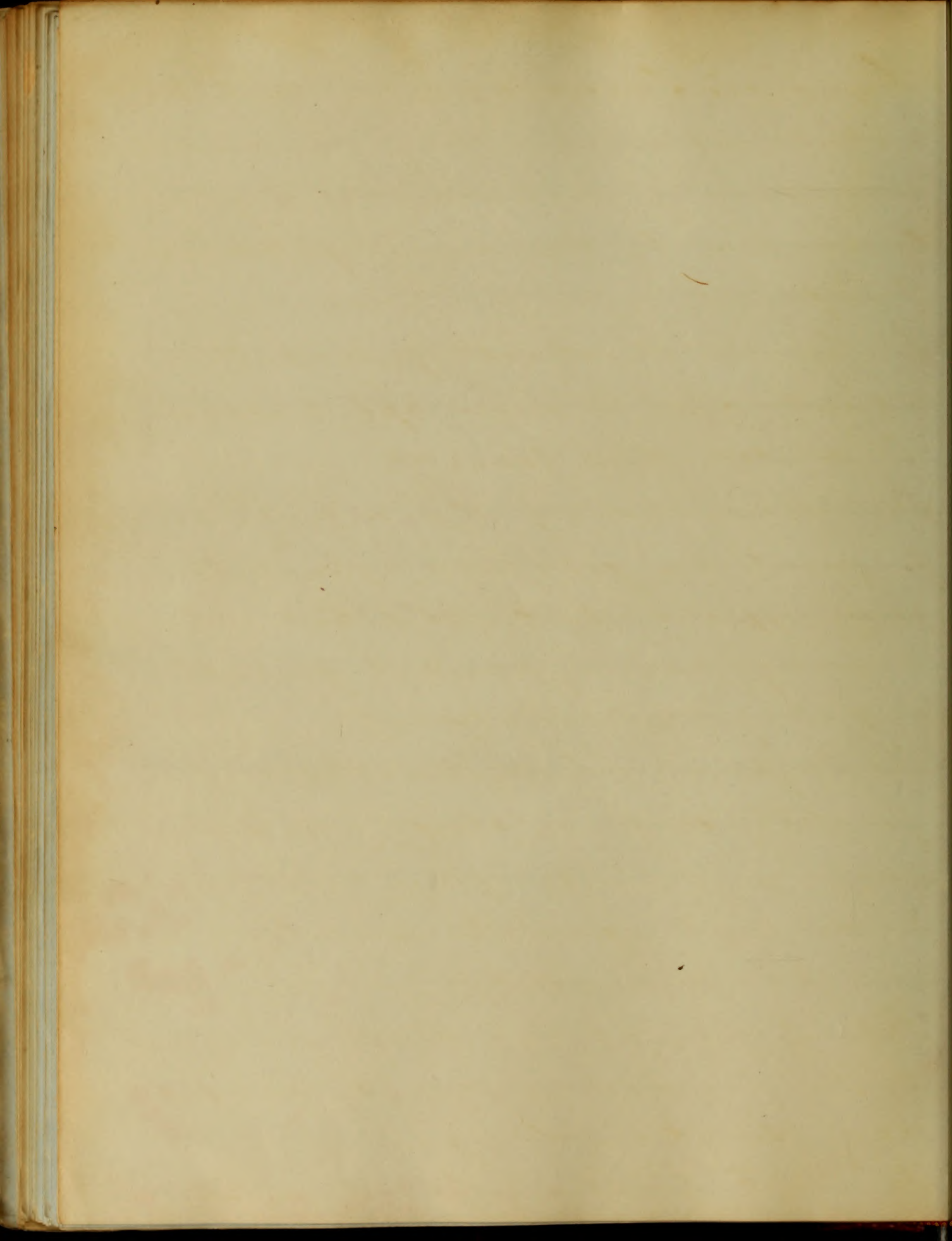
Great Court, Cambridge

England

1870

1

By an act of the Legislature of the State of New York  
passed in the year 1808, the following provisions were made  
relative to the said Bank, and the same are hereby  
reproduced for the use of the public.  
It is enacted, that the said Bank shall be a  
corporation, and shall have the power to purchase  
and sell, and to discount and advance money on  
the security of the public lands, and to receive  
and deposit any sum of money, and to pay out  
the same, and to issue and receive bills of credit,  
and to do all such other things as may be necessary  
to carry into effect the purposes of the said act.  
The said Bank shall be a body corporate, and shall  
continue for the term of years therein expressed,  
and shall have the power to sue and be sued,  
and to do all such other things as may be necessary  
to carry into effect the purposes of the said act.  
The said Bank shall be a body corporate, and shall  
continue for the term of years therein expressed,  
and shall have the power to sue and be sued,  
and to do all such other things as may be necessary  
to carry into effect the purposes of the said act.





Dyspnoea Trachealis is an acute and violent inflammation of the mucous membrane of the trachea, it is generally known by the name of Hoarseness or Croup.

It makes its attack principally on infants and is more apt to occur in males than females.

The occurrence of this disease is very frequent on exposures after it had once affected the constitution although it may have yielded to prompt and vigorous treatment.

The age at which Croup works its greatest evil is chiefly the second year of infancy; from this period, to the tenth year the number of its attacks diminished.

Out of ninety-one cases mentioned by Sumner, there was only one later than the eleventh year.

It does however, though rarely

*[The text on this page is extremely faint and illegible, appearing as ghostly impressions of handwriting.]*

seem upon the constitution at a more advanced age.

Dr. Watson's practice furnished a single case, in the person of a girl, who died of croup at the age of nineteen; again it commenced its ravages at a much earlier period than even the first year.

In one recorded instance it was known to occur during the third week of infancy; but these two examples constitute the extreme limit to the occurrence of croup, and consequently form not the general law of its action but the exception.

Pathology of Croup - The mucous membrane first becomes injected, reddened, and swollen, after that had taken place, a free secretion of mucus ensues, and if the patient is not relieved a membranous

*[The text on this page is extremely faint and illegible, appearing as ghostly impressions of handwriting.]*

-Exudation follows from the seat of inflammation; sometimes here and there a few shreds of albumen are thrown out from the inflamed organ; Again a membranous exudation of albumen mixed with fibrine traversed the entire length of the respiratory organ commencing at the tonsil and investing the mucous canal to the minute pulmonary vessels.

This membrane consists of albumen principally, also of fibrine and is of a dense unyielding texture, differing from the false membrane poured out in serous sack in its not being plastic i.e. not having the property of instituting a circulation between it and contiguous surface, differing also in the amount of fibrine it contained and in its consistency.

The following is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1850. The names are arranged in alphabetical order. The names of the persons who have been admitted to the office of Justice of the Peace for the year 1850 are as follows: [The following text is extremely faint and illegible due to the quality of the scan. It appears to be a list of names.]

This membrane extend sometimes down the pharynx and stomach also upward into the frontal sinus and changing its direction, it reached the concha. Sometimes present in poured out into the small bronchi symmetrically sealing up the vessels of the lung, and acting like a false membrane checking the function of respiration and threatening the patient with immediate peril. Having located this disease and spoken of its pathology, it will be easy to make out its sign and symptoms and here I would remark that this disease had no pathognomic sign and must be determined rather from the symptoms collectively.

Croup being a violent, inflammatory disease it is natural to expect to find some of the

The manuscript is written in a cursive hand, and the text is extremely faint and illegible. The page appears to be a single sheet of paper, possibly a flyleaf or a page from a book, with a visible binding edge on the left. The ink is very light, and the handwriting is difficult to decipher. The text seems to be organized into several lines, but the specific words and sentences are not readable.



-phenomena characteristic of acute inflammation, and here we are not disappointed, for there is a flushed countenance, hot skin, thirst, quick, hard, and full pulse - upon these other symptoms supervene - change of voice, embarrassed respiration, expectoration: these symptoms increase in gravity until the voice becomes gruff, brassy, like the sound produced by coughing through a brazen trumpet ringing cough and ringing expiration followed by loud crowing inspiration. To these may be added a negative sign absence of dysphagia; These are the symptoms which mark the presence of this formidable disease. The manner in which croup makes its attack becomes a subject of much importance - inasmuch as the subsequent violence of the



- disease will be in a manner anticipated - at one time Croup advanced to its height slowly, giving a day or two previous notice to the family of the patient that it is about to commence its march. The patient is affected with the common symptom of Catarrh, at or before midnight, the symptom of Croup make their appearance; this is one mode of attack, another is marked by no premonitory symptom; the infant is put to bed well, towards midnight it becomes restless and fretful and in a few hours is labouring under a severe inflammatory attack of Croup.

The stages of Croup are more numerous, but may be divided into three, first, the inception of the disease, - in which may be observed flushed countenance, hot skin, accelerated -

The first part of the paper is devoted to a  
general survey of the subject, and to a  
statement of the objects which it has in  
view. It then proceeds to a description of  
the various kinds of paper, and to a  
comparison of their qualities. The author  
then discusses the different methods of  
manufacturing paper, and the various  
kinds of machinery used in the process.  
He also describes the different kinds of  
paper, and the various uses to which they  
are put. The paper is then divided into  
two parts, the first of which is devoted  
to a description of the various kinds of  
paper, and the second to a description of  
the various uses to which they are put.

-pulse, thirst, and general discom-  
fort, a change in the natural tone  
of voice and respiration, at the next  
stage the inflammation had reached  
its height, and is marked by intense  
fever, great thirst, quick full and  
hard pulse, brassy voice, crowing  
inspiration, livid countenance, show-  
ing that the blood is not sufficiently  
arterialized, owing to, either the for-  
mation of a false membrane exclu-  
ding the air from the spongy tex-  
ture of the lung or to a swollen  
and narrowed condition of the  
rima glottidis or to thick, viscid  
mucous in the small air-tubes cho-  
king inspiration and threatening  
the patient with syncope.

The third is the most formidable  
of all, a stage in which patients  
rarely recover, this may be denom-  
inated the stage of prostration

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- or collapsed; the symptoms are feeble pulse, dusky countenance, black feet, extensive dyspnoea, cold extremities, disposition to coma, the head is generally thrown back to facilitate the function of respiration:

If immediate relief be not offered by the surgeon during this condition of extreme peril, the patient must soon die of suffocation, resulting from the existence of a false membrane.

So violent a disease as Croup could not be expected to be of long duration, generally it runs its course rapidly, terminating favourably or fatally within five or six days; sometimes it continued until the eleventh day or cut the patient short within a very hour.

The causes of this disease are numerous, Cold & damped rooms





how are the most general if not  
invariable cause; a damp room  
lately washed in which the patient  
sleeps is a very frequent cause,  
this is a common cause in the  
families of washer women - damp  
clothes, exposure to damp, cold  
atmosphere - sudden change in  
the atmosphere - heavy rain or  
frost. Again, some localities  
appear to abound more in cause  
of Croup than others; low situa-  
tion, damp alleys, situation near  
large bodies of water, and again  
some constitutions are more inflam-  
mable than others; thin blooded or  
scrofulous conditions become indi-  
rectly predisposing cause to Croup,  
unhealthy food, dentition &c

Diagnosis of Croup.

The difference between  
the different Cynanchis may be.



ascertained by the combination  
of the two symptoms, dysphagia  
and dyspnoea; in Cynanche pharyn-  
gea respiration is free and deglu-  
tition difficult; in Cynanche laryn-  
gea both are difficult; in Cynanche  
trachealis respiration alone is dif-  
ficult; in tonsillitis deglutition is  
difficult.

In simple croup there is no pain  
in the part affected, in diphtheritic  
croup there is pain and stiffness  
of the muscles of the throat; the  
patient's head is thrown back to  
keep the false membrane open; also  
the third stage of croup is now  
frequent in diphtheritic throat in the  
former, simple croup.

### Prognosis

The recovery of the patient  
depends very much upon the time  
at which the patient is seen by-



- the physician - if late, after the second stage had commenced it must be unfavorable, if later, still worse, the patient had slight probability of recovery.

But if the patient had been seen in the commencement of the first stage and had been in previous good health, of a good constitution, of no scrofulous diathesis, the disease may be cut short by prompt and vigorous treatment. Sometimes the patient may recover from the second stage or even the third.

In either of the two last stages recovery cannot be more than possible - scarcely probable.

If however a patient be seen by a physician when his face is dusky, skin clammy and cold - pulse feeble and quick - feet black -



- and suddenly on performing  
tracheotomy, he breathe<sup>d</sup> freely - the  
false membrane is coughed up  
either entire or in shreds - expec-  
toration become<sup>d</sup> more free, warmth<sup>d</sup>  
return<sup>d</sup> to the skin - the countenance  
grow<sup>s</sup> less dusky, the patient  
from the relief afforded, seem<sup>s</sup>  
inclined to sleep - you may be  
true to hope, but nothing more, -  
a false membrane may be formed  
within a few hour<sup>s</sup> and carry  
off the patient.

The period at which the child  
was seen the length<sup>d</sup> of time e-  
lapsed since the inception of  
the disease would modify prop-  
nosid: if the patient on the  
fifth day began to expectorate,  
and breathe<sup>d</sup> freely, after having  
been in the third stage, it would  
give more encouragement.





If again the attack be slow in its progress commencing with catarrhal symptoms and marching slowly to its height, the probability would be that the false membrane was formed below the larynx and extended down into the bronchi or even farther into the small pulmonary vesicles rendering tracheotomy vain and useless.

If however the attack be ushered in without any precursory symptoms, the physician might promise himself greater prospect of success - as in this case the larynx is probably the seat of membranous exudation, rendering the chance of a patient's recovery many more when tracheotomy is skillfully performed.

In all cases of Croup the physician should be very careful.

of course the object of this  
is to give a general  
idea of the subject  
and to show the  
importance of the  
subject in the  
history of the  
country. The  
author has  
written this  
book for the  
purpose of  
giving a  
general  
idea of the  
subject and  
to show the  
importance of  
the subject in  
the history of  
the country.

- in working out his prognosis  
at the Chancé are equal on both  
sides, at many for & against  
recovery.

Some year back the death from  
Croup were four to one of recovery  
now that it is better understood  
, better treated, one in two generally  
get well.

Treatment of Croup.

This must con-  
sist of those remedies usually  
employed in acute inflammation -  
there is no specific in the treat-  
ment of this disease.

Bloodletting, Antimony and  
Calomel form the most impor-  
tant remedies. We are not how-  
ever to omit some other agents  
which are though secondary in  
consideration to the above men-  
tioned remedies, are often found



to be of signal advantage.

These are warm bath, treacherous, evacuant, and blister, also Sulphate of Copper, Ipecacuanha, expectorant and stimulant.

The most important agent by far is bloodletting, but this cannot be employed under all circumstances; if the patient be an adult or very young, it would be a question of doubt whether to employ bloodletting, even though the patient was seen in the commencement of the first stage, a small quantity however might be cautiously taken from a very young infant.

Should the patient be of a plethoric habit, when seen early, topical bleeding would be of great advantage, and by the employment of this means alone, the attack -

The first of these is the  
the second is the  
the third is the  
the fourth is the  
the fifth is the  
the sixth is the  
the seventh is the  
the eighth is the  
the ninth is the  
the tenth is the  
the eleventh is the  
the twelfth is the  
the thirteenth is the  
the fourteenth is the  
the fifteenth is the  
the sixteenth is the  
the seventeenth is the  
the eighteenth is the  
the nineteenth is the  
the twentieth is the

might be cut short; But it will  
be much safer to combine this  
with the tartar emetic treatment -  
a child one year old will  
stand the employment of two  
leeches after the first year, one  
leech may be added for each  
succeeding year; the leech should  
be applied over the sternum, and  
not on the neck, as it might be  
expedient to employ pressure to  
arrest the bleeding; leeches are  
preferred to either the lancet or  
cup, for the reason that what  
would be topical bleeding in  
adults and consequently a fee-  
ble remedy against acute inflam-  
mation would be a very efficient  
bleeding in a child - and further  
the use of the lancet in very  
young children is attended with  
some difficulty - it is not easy

Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.



- To find a vein in the arm from which we can extract blood, they are so well enveloped in adipose tissue: Cup's are also objectionable at being unhandy and oppressive to the child: The American leech are smaller than the European and consequently three or four may be applied to a child a year old. Antimony constituted the next remedy of greatest value, it should be administered frequently in small doses to produce nausea and sickness, as it then acts as a sedative to the general circulation exerting its influence principally upon the capillary vessel, and by this means subduing inflammation; the quantity is one grain to warm water ℥ss, and this administered cold, in divided doses, a teaspoonful every quarter of an hour.



∴ Should the frequent administration of this medicine, oppress the power of life too much, it would be marked by feeble and intermitting pulse, pallid countenance, cold extremities, and all the symptoms of collapse; then it should be omitted for a while, and a little brandy and water given in its stead, or some other stimulant, such as ether or ammonia: If the Antimony should act on the bowels, it would be well to combine it with Symp of poppie, or a few drops of laudanum; in case the Antimony failed to produce a proper effect, it would be advisable to administer a few grains of Calomel in conjunction with it or Separately, to act on the bowels; two or three grains every three or four hours



until frequent green stools are produced, and in the event of Calomel remaining too long in the bowels without exciting them to action, a teaspoonful of castor oil would be of service.

When the Calomel is employed alone it is generally given to promote the absorption of the albuminous exudation.

Dr. Watson thinks it questionable whether Calomel does have the effect of producing the absorption of fluid or membrane deposited from mucous surfaces; it does evidently produce absorption in serous membranes. Calomel causes free secretion from other organs, and thereby diminishes the fluid in the general circulation and also relieves by these processes the organ which is inflamed.

The expectorant plan of treatment

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in children is always of very little importance, as they generally swallow the matter which should be expectorated; in the stead of these remedies, Emetics are of greater value: Sulphate of Copper, Antimony, ipecacuanha, and sometimes mustard which in extreme cases, promote the action of the above mentioned agent: Sulphate of Copper is sometimes administered to break up the false membrane and cause it to be expectorated during Emetit. This however can rarely be accomplished by any agent - Antimony may generally be found to answer every purpose and even more than any one of Emetit, as it promotes Emetit and controls inflammation at the same time.

Warm bath is sometimes among other agents of much benefit -





- it tend to promote relaxation of the system, and also to aid Expiration and inspiration as well as to increase expectoration. - ~~the~~ patient when submitted to this remedy should be placed in water of the temperature 98° Fahrenheit, and allowed to remain there for a few minutes, from two to ten or fifteen minutes, though some advise longer. he should then be wrapped in a blanket & wiped dry, then returned to his bed, taking great care that he do not take fresh cold.

The last resort to be relied on during the violence of this terrific disease, must be tracheotomy; this however I regret to say promises little success: the child is generally in a state of apnoea when we resort to so dangerous an expedient; the operation itself is attended with.

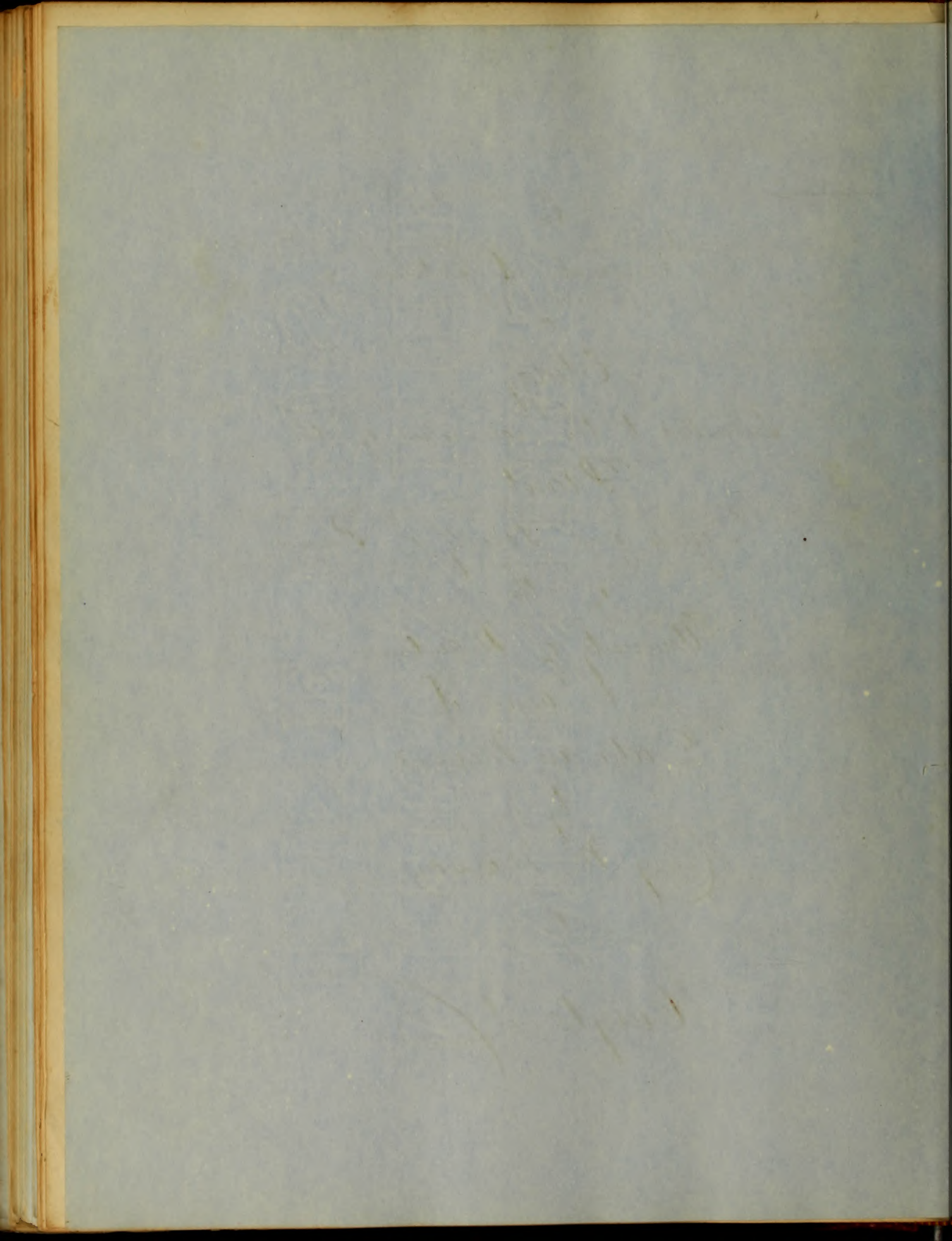


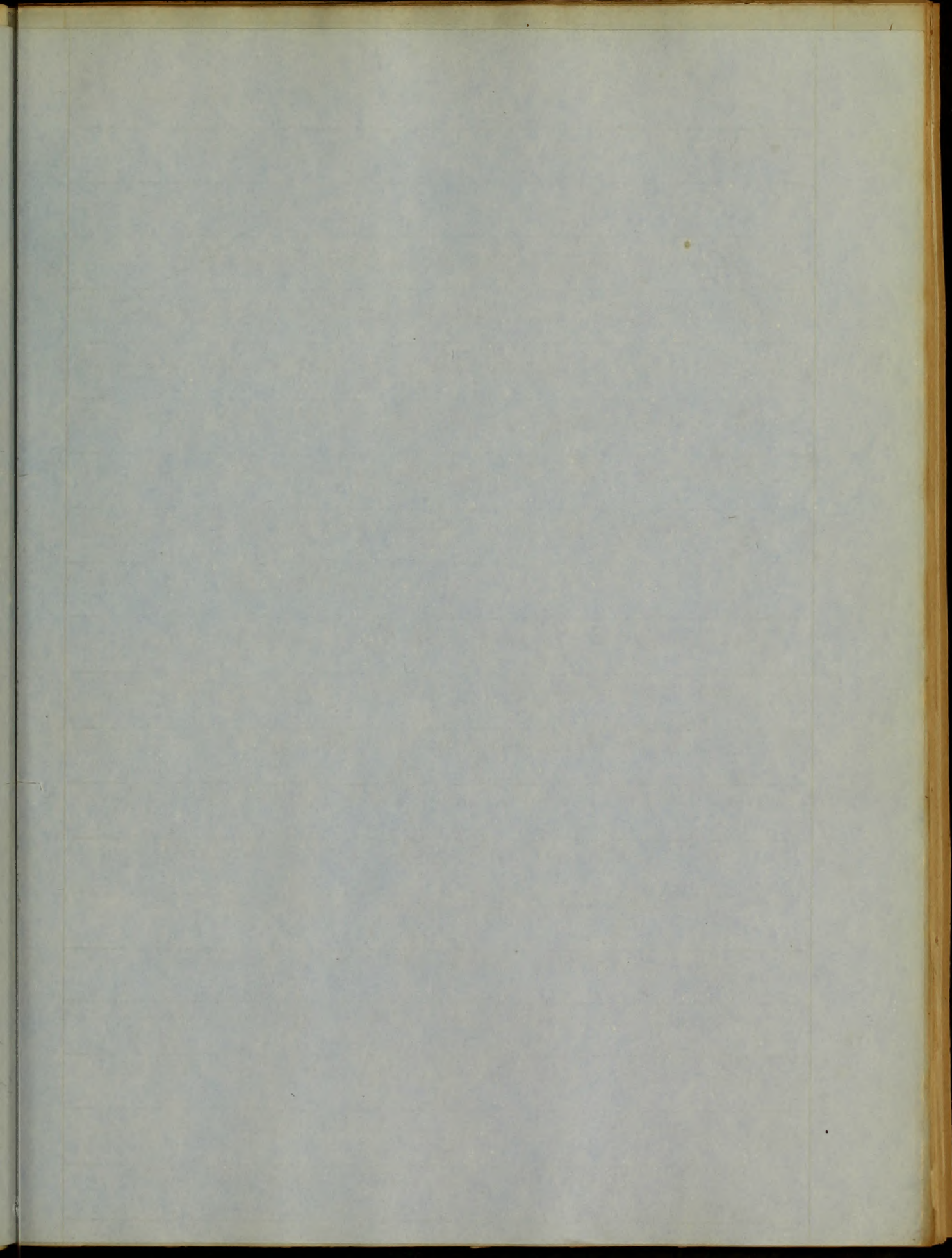
- peril to the patient from a tendency to profuse hemorrhage; and when performed by a most skilful hand, it may avail nothing; the membrane may have extended so far as to exclude air from the spongy texture of the lung, or this may result from thick, viscid, mucous clogging up the small air-tubes sufficiently to choke respiration.

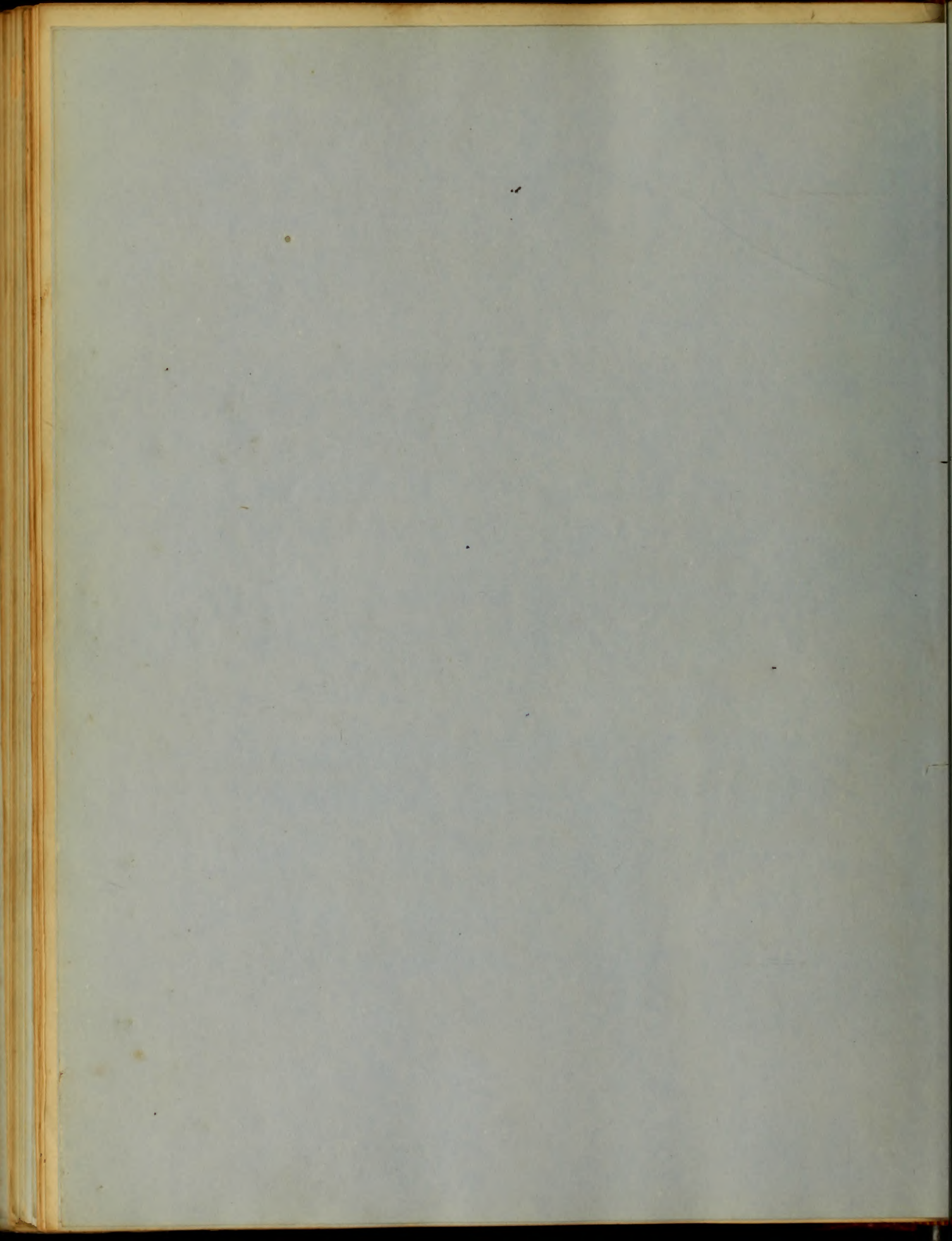
Dr Watson, regard tracheotomy as utterly hopeless but for two instances of its successful performance, the one achieved by Mr. Andrie, the other by Mr. Chevalier, however the result of the operation as performed by M. Jousseau saw thirty nine out of one hundred and fifty cases were successful.

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An  
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on  
Etiology.  
Submitted to the Examination of the  
Provost,  
Regents, and Faculty of Physic,  
of the  
University of Maryland,  
for the degree of  
Doctor in Medicine,  
by  
Henry M. Wilson  
of  
Maryland.









1  
However varied the pleasures of life may be, there still are ills which more than counterbalance them, in the scale of proportion. There breathes not the man, who, while he enjoys free access to the sea, can close every window to the approach of the other; who can sip of the goblet, yet stop short of the Auger.

The approach of an enemy, is under any circumstances, an event of importance. To the Physician it is doubly important, because he must needs deal with an enemy, more subtle than those who now "live but in song," as he comes in a more "questionable shape." We have traitors within, as well as about us. Our own passions sit at the Council-board of the mind, and often advise to our ruin, and it requires a heart that is pure, a conscience well-educated, a will firm in the right, to prevent.

*[The text on this page is extremely faint and illegible, appearing as a series of light-colored lines and shapes against the aged paper background.]*

us from turning against ourselves.

In the Sick-Chamber, as well as in the battle-field, we should know of the direction of the Enemy's approach, in order the more successfully to defeat him; hence the wonder that Etiology, which treats of such approach, and Pathology, which treats of the point of his intended attack should have been of such recent discovery; for although ancient Authors treat of various diseases, yet of their true nature as we now consider them, their most exalted ideas were but as glimmering lights. It remained for more modern Authors, as Cramer, Chomel, Tissot and others to give

\_\_\_\_\_ to airy nothing  
A local habitation and a name."

Etiology is of the widest extent. It embraces within its range, every leaf whose decay may generate a gas. Every flower whose perfume may be laden with poison. Every Tophyr whose breath may be tainted, as well as the more respected

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Cause of Disease. It is evident, that in a Subject of almost unlimited extent, some attempt at classification must be made. Almost every Eminent Pathologist who has ever written on the Subject has adopted one to suit himself. Consequently they have all been different. The one which we have selected can boast, at least, one element of perfection, Simplicity; and as this is all-important in a Subject, the synopsis of which is alone attempted, we have the less hesitancy in offering it.

I have divided the Subject into the two grand Propositions.

I. The External Causes of Disease

- and this into,
- A. Common Causes.
  - B. Mechanical Causes.
  - C. Chemical Causes.

II. The Internal Causes of Disease

- and this into,
- A. Common Causes.
  - B. Mechanical Causes.
  - C. Chemical Causes.

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I

A

B

C

II

A

B

C

I. The External Causes of Disease, These are they, which exist in the world about us, they are intended for the support of Animal life, but may be so altered or modified, as to cause either impairment of function, alteration of structure or death,

A. Common Causes, The exclamation "We are fearfully ~~and~~ wonderfully made", applies with equal truth to the relation as well as individual existence, We are in the world, and to a certain extent, must be of it. Our Senses are open to the perception of things beyond themselves, and may be variously affected. The mind is also open, and constantly modified by External Circumstances,

If these remarks are true of the intellectual, much more so are they when applied to the Animal part of our being. When we consider the intimate structure of the human frame; the almost innumerable inlets for the ingress of disease, coupled with man's rashness,





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And the general want of Care, Manifested in  
the Preservation of his Health. We are not Sur-  
prised that he is the Subject of so Many ills.

For is the Source of his Maladies less abun-  
dant. Nature teems with her inhabitants, —  
unseen Spirits of the Air, which like Panthe's  
ghost, Will Not Down at a bidding. They sit  
as Syrens at the Entrance of Every Avenue of  
Pleasure, and with fairy fingers beckon us to  
Enter. They are inhaled with our breath; — Con-  
cealed in our food: in a word, we find them  
on Every hand, and at Step, in the Pilgrimage of  
Life.

1. The Atmosphere. The Air around us  
may become vitiated by Contact with Matter in Decay,  
and instead of preserving, is alone fit for the  
destruction of the body. As the Seasons Change,  
the Air also changes to a certain Degree. In Spring  
we are accustomed to Consider it as predisposing  
to acute inflammations, as Cataracts &c. In  
Summer, we have the heated Air, giving us Malignant,



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and the various fluxes. In cool, damp Air, is favourable for thoracic diseases. The Winter, in some respects resembles the Spring, in the amount of inflammation to which it predisposes.

The Electrical Condition of the Atmosphere, is a Subject which has lately engaged the Attention of the Profession. Various have been the Opinions expressed; Some founded on theories of the Wind, and others on those of the Amount. It has been brought forward to account for almost every disease, and is in fact, a convenient Element, by which to theorise on most of the knotty Questions. We know that Electricity exists, and that it modifies to a certain extent, the State of the Atmosphere but in what Manner, and to what extent, we are unable to say.

An Atmosphere vitiated by Confinement, is a fruitful source of disease; hence the bad effects of crowded Churches, theatres or halls, on the generality of persons.

Sudden Variations, unconnected with



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Changes of Season, are Very fruitful Sources. The System is most frequently opened, as it were, to the noxious influences of such an alteration, by imprudence in dress. The female, who, to be a votary at Fashion's shrine, will change her morning dress of thick shoes, wollen hose and Marina, for paper-soles, Silks, and a dress without sleeves, and woefully deficient in the bodies, is certainly <sup>not</sup> using that amount of Common Sense, which directs the Cat or Dog, to seek the glowing comforts of the Winter's hearth.

2. Age. We find Mankind more liable to disease at one period of life than at another. The infant is subject to Croup, from which in Maturity years it is Exempt. Diseases of Dentition occur at this period, which in after life are changed for some other form. When this Stage has been passed, we have the tubercular diathesis becoming prominent; followed by the Cancerous cachexia, and its accompanying train of Evils: While in Old age we have the punished follies of our youth, appearing in rheumatic and other Pains: Diseases



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of the brain, as softening; diseases of the urinary apparatus, as incontinence, closing with that strange alteration, from activity to imbecility; from strength of mind, to a shattered memory or impaired intellect, from the Walk of Mankind, to the tottering steps of second infancy.

3. Light, The influence of light upon the human constitution is very remarkable. It seems absolutely necessary for its well development. In the Vegetable World, this influence is as perceptible as upon man. We know that when a plant is nourished as an Exotic, and excluded from the Sun's rays, that its petals assume a sickly color; by no means approximating the beautiful green of the natural plant. Similar examples from the Animal World are respectively scarce, but the few instances that have been recorded go to prove the almost specific effect.

Caspar Hauser, the boy immured in a cell in Germany, is a good illustration. The same effect may be observed in persons





Confined in Dungeons, Mines &c. When Sun-light is shut out.

4. Mode of Living. A man's Mode of living, and his place of abode, has a great deal to do in the matter of his health or sickness. It does not require the eye of a very acute observer to notice the difference in Constitution of those children who are raised in the Country, and those in the city. The latter, are, generally speaking plumy, when compared with the former. They are particularly subject to Rickets, Scrofula, and in the Summer Months, Disorders of the bowels, caused by the reflected heat, and impure air.

5. Professions. Particular Callings, as lead Manufactories, and quicksilver Mines bring with them specific diseases, as will be noticed hereafter. Seditary Professions induce to apoplexy and Hemorrhage, - the more active, to Anemisms, &c.

Contagions. We are so constituted, that



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We are not only affected ourselves, but the fruits of our folly or Misfortune can be visited upon our friends. Of the Exact Nature of Contagion we are unacquainted. It has been supposed to consist in Contact with Morbid Secretions; and again, to the March of Animalcules. This latter Opinion, doubtless, is taken from the contagious Nature of Scabies, in which disease, the living Animal is plainly observed by the Aid of the Microscope. This latter, I consider to be the more Reasonable Hypothesis, though, whether this influence from the general to the Particular be true, we cannot, at present be absolutely certain.

Be its Nature what it may, nothing, we supposed, has ever been a <sup>greater</sup> source of disease, or entailed greater Misery upon our Race. We have only to look at the March of the Cholera to be reminded of its Extent. It travelled the Eastern deserts, with every Caravan, It fell upon Russia, almost as universally as her Snows,



It made the tour of Europe; visiting State after State; Canton after Canton; City after City. Apparently dissatisfied with the extent of its influence, it leaped the Ocean, and passed through our own land, like some demon of destruction sent upon the Earth to establish a reign of misery.

Cholera presents but no features of Contagion, other might be noticed, had we the time to refer to the characters of Scarletina, Rubola, Variola, the Plague &c.

7. Miasm. This is a subtle Emanation - a viscous atmosphere, which arises from marshy districts, when water is in contact with vegetable matter in a state of decomposition, <sup>Elevated temperature,</sup> & at air. The nature of Miasm as of Contagion, is unknown, although we have attempted a definition. Its effects, though well known, are equally uncertain, as are the persons living in the same house; working at the same business, may be taken down together; the one with intermittent,

It was the first time I had  
seen the water of the  
river so clear and bright  
as it was then. The  
sun was shining brightly  
and the water was  
like a mirror. I had  
never seen it before.

When I found the  
river so clear and bright  
I was surprised. I had  
never seen it before.  
The water was like a  
mirror. I had never  
seen it before.

The water was like a  
mirror. I had never  
seen it before. The  
sun was shining  
brightly and the  
water was like a  
mirror. I had never  
seen it before.

the other with remittent fever. This may result from some predisposition, or from the imbibition of a larger quantity of the Morbid Poison, or what is now probably, from both combined.

It seems to select for its particular Subjects, Strangers. The wards of the Palladium Infirmary, have during the present fall, (1869) been crowded with Irish Patients, labouring under the Miasmatic fever. They were mostly from the Mine bank near the City, or from the Public Works near Cumberland; both of which places are notorious.

Another singular feature in the history of Miasm is, a selection of the seasons of the year as most favorable for its development. The fall months are preeminently Miasmatic.

**B. Mechanical Causes.** This class embraces all those elements which by direct and perceptible contact, injure, or tend to injure the human organism.

1. Blows. These may come from

The first part of the book is devoted to a general  
description of the country, its climate, soil, and  
resources. It then proceeds to a detailed account  
of the principal towns and cities, and the  
commerce and manufactures of each. The  
author has also given a list of the principal  
ships and vessels which trade with the  
country, and a list of the principal  
merchants and traders. The book is  
very interesting and useful, and  
contains much valuable information  
concerning the country and its  
resources.

A. B. C. of the Country  
The second part of the book is devoted to a  
description of the principal towns and cities,  
and the commerce and manufactures of each.  
The author has also given a list of the  
principal ships and vessels which trade with  
the country, and a list of the principal  
merchants and traders. The book is  
very interesting and useful, and contains  
much valuable information concerning the  
country and its resources.



Blunt, as well as cutting instruments, and if by their impinging the skin is not separated, or does not lose its continuity, still it is so far injured as, in a certain degree, to lose its vitality.

Mechanics, are as a class, more exposed, perhaps to these injuries, than any other class of persons, by virtue of their occupation, - being more liable to accidents.

2. Falls, by which bones are fractured or dislocated; Muscles contused or ligaments ruptured.

3. Mode of Dressing. This, though not so startling in announcement, as some dire disaster by "flood or fell", yet occupies a conspicuous place in the Etiological category. The Sex must have common points of resemblance. The "Pistols and Coffee", of the man, has an analogue in the woman's tongue. He is "clothes-lined", has a delicate substitute in the Corset. - An ingenious piece of mechanism, which has been as prolific, perhaps, as any other cause, in the production of Misery. The compression caused by tight lacing, compels



her to breathe Pneumonicly, Her form is dis-  
figured; the motions of her ribs and diaphragm  
are interfused with, and she presents the ap-  
pearance of a model, tis true, but strangely  
altered from the Grecian Venus.

C. Chemical Causes. These are they,  
which, by combining with some of the constituents  
of the cuticle, destroy the native proportions,  
necessary for health.

1. Irritants. Substances which on being  
applied to a Part, cause a morbid accumulation  
of blood, such as Mustard.

2. Caustics. These are also irritants, but  
in a much greater degree than the former.  
The substances comprised in this class, as acids,  
alkalies &c. act by combining chemically with  
some one or other of the constituents of the  
living tissue, causing its destruction. As a  
general rule, the different substances have an  
Electro affinity for the Water, which enters into  
the composition of the integument.

The first part of the paper is devoted to a  
general survey of the subject, and to a  
description of the various forms of the  
disease, and the manner in which it  
is communicated.

1. Definition. It is a disease  
characterized by a local inflammation  
of the mucous membrane of the  
throat, and is attended by a  
fever, and a general debility.

2. Causes. It is caused by a  
contagion, which is conveyed  
from one person to another, by  
the breath, or by the saliva,  
or by the sputa, or by the  
secretions of the nose, or by  
the secretions of the throat.

## II. Internal Causes of Disease. In the

Very cursory glance which we have taken at the 'External Causes of Disease', we have seen enough to account for at least a portion of human ill; but these are not all. In professional life, a gaping wound, or ulcer, is a sight by no means rare; but how much more frequent is the Physician called upon to treat a symptom, the cause, and perhaps principal effect, being unseen, — to inspect maladies by scientific light. A child looks upon the clock, but sees nothing to elicit observation save the painted dial, and hands moving by some unseen power: that power lies within. So in man, the power to will; the springs of sense are concealed, they lie deeply buried in the inward mechanism. When by the aid of scientific research, we are enabled to look into, and comprehend that complex mechanism — when we see nervous filaments and capillary ramifications, spread out as a net of gauze

II. Actual Cases of Disease

The first case was that of a young man who had been ill for some time with a fever and a cough. He was treated with various remedies but without success. He was finally taken to the hospital where he died. The post-mortem examination showed that he had died of pneumonia.

The second case was that of a woman who had been ill for some time with a fever and a cough. She was treated with various remedies but without success. She was finally taken to the hospital where she died. The post-mortem examination showed that she had died of pneumonia.

The third case was that of a man who had been ill for some time with a fever and a cough. He was treated with various remedies but without success. He was finally taken to the hospital where he died. The post-mortem examination showed that he had died of pneumonia.

The fourth case was that of a woman who had been ill for some time with a fever and a cough. She was treated with various remedies but without success. She was finally taken to the hospital where she died. The post-mortem examination showed that she had died of pneumonia.

The fifth case was that of a man who had been ill for some time with a fever and a cough. He was treated with various remedies but without success. He was finally taken to the hospital where he died. The post-mortem examination showed that he had died of pneumonia.

upon the internal structure; and when too we are informed, that these are all liable to be disordered by the slightest irregularity, we cease to wonder at the disease, and turn, in humble adoration to the great First Cause.

1. Moral affections.

(a.) The Imagination. The imagination may be suffered to roam at will for such a length of time, and to such a degree, that it often becomes a source of evil. We frequently see this exemplified in females, who indulge to an inordinate degree in mental speculations. — who desire to think of nothing except imaginary future misery: hence that most unpitied of all diseases, Hysteria.

(b.) Memory. Reminiscences of former days, acting on the body through the mind, may cause disease. Nostalgia is a characteristic of the Swiss peasant, who is obliged to leave his native hills. So notorious is this that royal edicts have gone forth, for the





suppression of a simple lay, & by which the  
herdsman requires the lagging hour. We have  
another touching illustration, in the life of the  
celebrated Patriot, Emmet.

2. Sex. A certain predisposition is attached  
to the individual, as male or female. In the male  
we find disease sooner assuming a typhoid  
character, arising, doubtless, from the unaccustomed  
suspension of active labour. He is subject to  
hypochondriasis. In this sex, also, we find a  
tendency to a gouty diathesis, and calcareous depo-  
sitions.

The Female is troubled with diseases of the  
urino-genital system, as disorders of the  
menstrual function; with diseases accompanying  
lactation, and of the nervous system, as  
hysteria.

3. Descent. As children, we are  
liable to inherit defects of constitution,  
as well as anything else. Thus in the  
examination of a phthisical patient,

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our first question would most probably be  
as to the disease of which his Parents had  
died. Again Scrofula, generally shows itself  
in the Members of the family. The same  
Remark is true of Gout, Claws &c.

4. Idiosyncrasy. Some persons are  
so constituted, that what may be tolerated  
with impunity by the Majority of Mankind,  
to them proves destructive. Two instances  
occur to me of two persons, in no wise  
connected, who upon leaving their residences  
in the city, for the country, suffer great  
uneasiness in the function of Respiration, and  
what is still more singular, this effect is  
never produced, until they have retired.

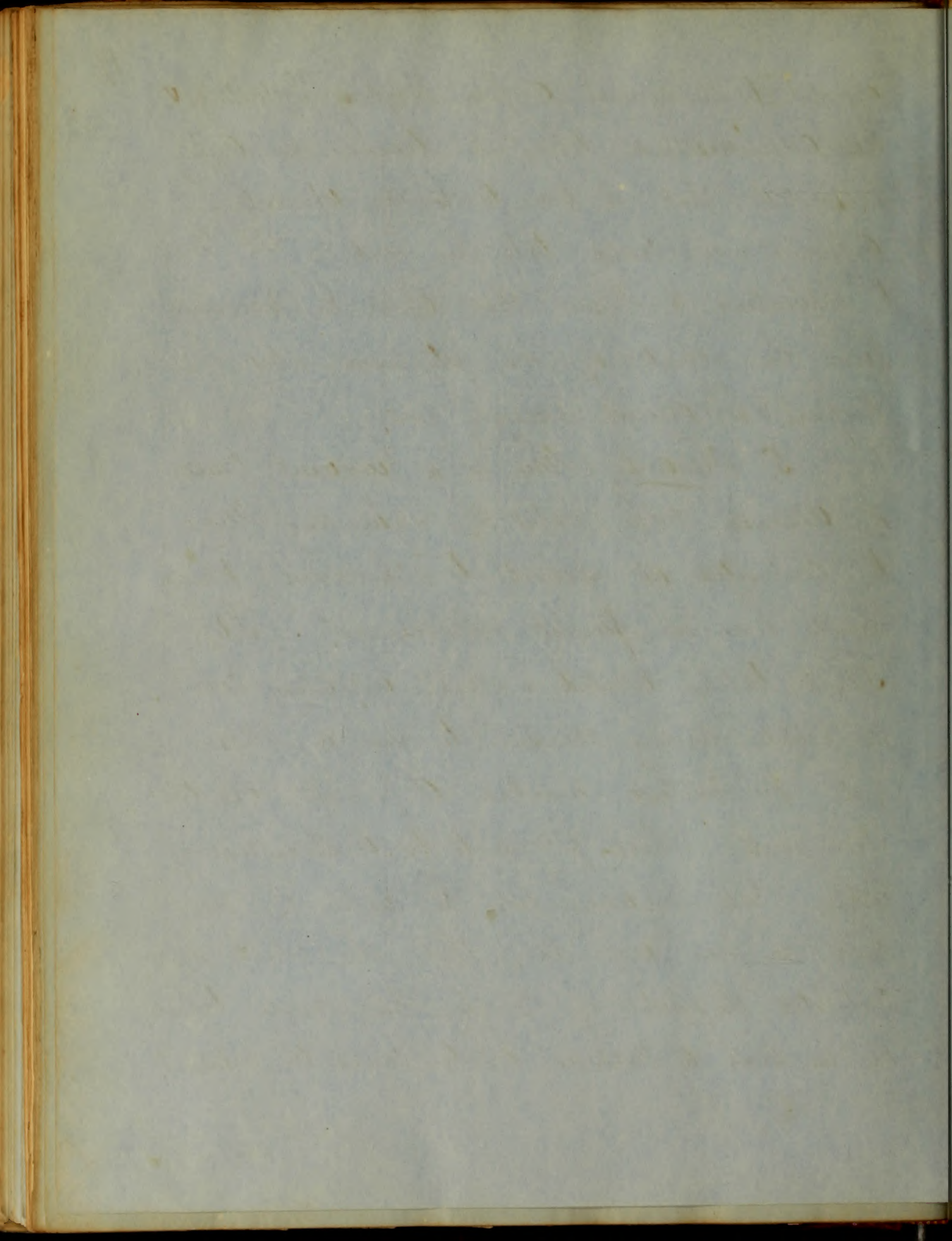
Again, diminutive doses of certain  
Medicines, act with more violence upon some  
persons, than large doses, upon the Majority.  
During the last Summer, application was  
made for admission into the Wards of the  
Baltimore Dispensary, by a British Seaman,



affected with general dropsy. Hydrag: Proctoh: 99. v.  
 was administered, when he became so deeply  
 salivated, that it was with the utmost  
 difficulty he could take his food. It may  
 be interesting to know, that after he recovered  
 from the effects of his Styalism, his  
 dropsy was almost entirely gone.

5. Habit. This is a frequent cause  
 of disease. The habit of Squinting may  
 be contracted at school, by children, which  
 finally ends in perfect Strabismus. Prof.

Smith, lately related a highly interesting case  
 in point, having occasion to see a little  
 girl, he noticed marked deformity of the  
 elbow joints, which proved to be dislocations of  
 either. On Enquiring into the history of the  
 case, he was informed, that the child had  
 contracted the habit of carrying her hands behind  
 her in such a manner, as to cause the lesions.



## B. Mechanical Causes of Disease.

We have already noticed, 'External Mechanical Causes,' We may also have internal Causes, acting mechanically.

1. Ligatures, These by their pressure may cause irritation, inflammation or ulceration.

2. Spontaneous Fracture, The muscles may be brought to act with so much violence, that the strongest bones in the body may be unable to offer effectual resistance, and so are fractured. This is frequently produced, when powerful exertions are made to save oneself from falling, as by slipping on ice, &c.

3. Morbid growths, may so press upon blood vessels, nerves or surrounding tissues, that either obstruction, neuralgia or inflammation & ulceration may be produced.

4. Vital Changes, as Uremia, hyperemia, hypertrophy, atrophy, &c.

## C. Chemical Causes of Disease.

B

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C



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These are substances, which when taken into the stomach, act chemically, in various ways: either by combining with substances found in the stomach, or by being absorbed into the current of the blood. In whatever manner they act, their effects are all, or nearly all, specific.

1. Metallic Poisons. When preparations of these substances are given in large dose, their peculiar actions are very manifest. Thus lead, especially, the carbonate of its protoxide, and its vapours, has a specific action on the alimentary canal. Again, Mercury affects the glandular system.

2. Drugs &c. Substances that are employed for the alleviation or cure of human suffering, are often the exciting causes, when employed ignorantly or without due caution.

Such articles are far from being few. Thus Belladonna, when employed for a length of time, produces a state of the system somewhat resembling scarletina.

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3. Venom. The Poison of certain reptiles and insects, although not taken into the stomach, yet by being introduced beneath the surface of the cuticle, so act, as frequently to cause disastrous consequences. In the case of Serpents, the poisonous fluid is speedily absorbed into the blood; that of bees acts precisely in the same manner, only in a diminished degree.

My task is ended. Upon a subject, boundless in extent, and enriched by the votive offerings of many a choice spirit in the profession, I have dared collect a few scattered thoughts. My only apology is, the necessity of the case. — My only regret, that they are not worthier.

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