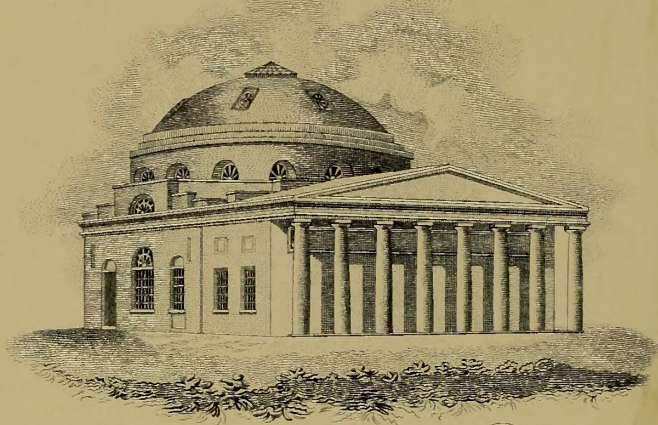






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## University of Maryland Theses

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

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

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

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HSHSL 2011 for the UM Digital Archive. Sources consulted for corrections: Original Dissertation; University of Maryland Medical Faculty, Matriculation List, 1821-1851; Cordell, Eugene F. "University of Maryland, 1807-1907" (New York : The Lewis Publishing Company, 1907), Volume 2.

\* Text lost in inner margin during binding process





(2)

Owens, Thomas

Parabysma Splenicum

Fisher, Edward C.

Hemorrhoids

Hoffman, Philip Rogers

Some Considerations on the Different Theories of the  
Excitation and Accumulation of the Galvanic Fluid

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UNIVERSITY OF MARYLAND

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An Inaugural Essay

on

Prophesy

Submitted to the Judgment

of

The Provost, Trustees and Medical Faculty

of

The University of Maryland

For the Degree of Doctor of Medicine

By

John C. Wright

of

Virginia

March 5th 1851



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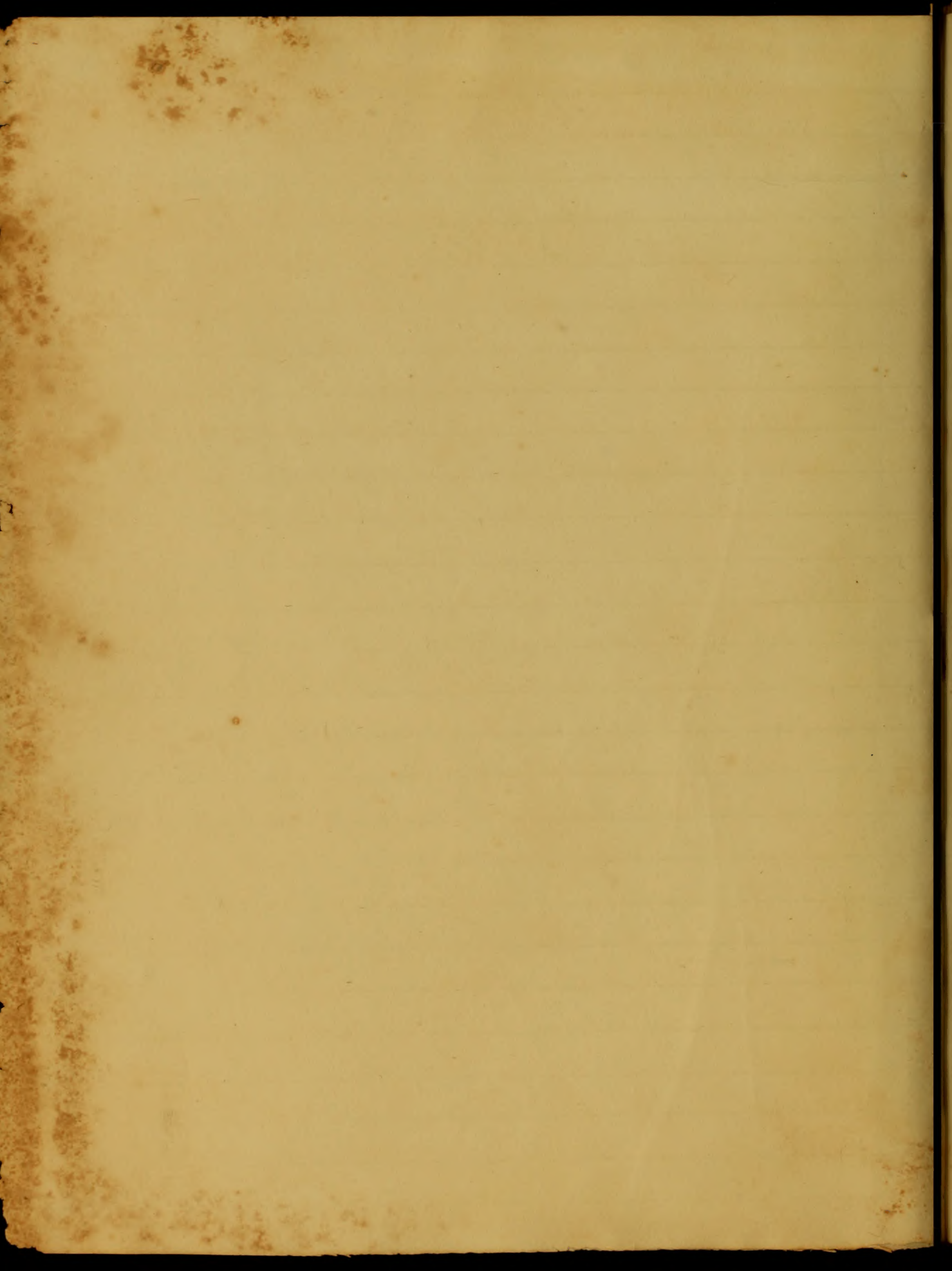
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## Apoplexy

This is a disease of which Coma Constitutes the leading feature. It may be the consequence of external injuries or it may occur without any assignable Cause. In the former Case it is an object of attention to the Surgeon, and is Remediable by a Surgical operation, In the latter Case it falls under the Cognizance of the Physician, and is by him denominated symptoms of Coma or Apoplexy. The Causes which give rise to it are a life of Luxurious, Idleness, a plethoric temperament, high living &c. It has also been asserted that those who have a short neck were more exposed to it; but this disposition does not appear so, but because of the Volume of the soft parts of the Neck. This disease seems also to be Hereditary. Sometimes it makes its attack after violent passions; such as anger; or after a copious meal; by long application of the Mental Faculties; by suppression of habitual evacuations. The frequent use of Narcotics will also produce it in some persons. It was supposed by some to be nervous; but I say that the nervous system is no more concerned than as the medium of sensation. The Nerves are the parts acted upon, and not the parts acting. Apoplexy is the Result of increased action of the ~~blood~~ vessels of the brain, causing Congestion and pressing upon the origins of the Nerves. The symptoms are various, because produced by so many Causes. The most Common are Vertigo, Violent Head-ache, and if the Patient is bled in this state he often Recovers; because there is a disposition to Rupture of vessels in this state and bloodletting removes it.







It is sometimes preceded by pain in the stomach, and sometimes a vomiting, great degree of restlessness, with a slow pulse. It is also sometimes preceded by affections of the Bronchia; also a sudden diminution of muscular strength: Tingling of the ears, bleeding at the nose, or derivation of weight and uneasiness about the forehead, sometimes of Occiput, heaviness and redness of eyes, also blindness, all owing to the impetus of the blood to the brain where bloodletting is strongly indicated. Sometimes the patient is more disposed to sleep than in health which is unfavorable. Often indistinct articulation, loss of memory precede an attack. Various Paralytic affections may also precede and then you are warned to bleed your patient. It has been thought and declared by some authors that this is incurable; and therefore many patients have lost their lives. But it is no longer a question that a great many patients may be cured by going to work radically viz by Bloodletting Purgings and abstemious Regimen. Prognosis. Apoplexy is to be distinguished from Intebriety, generally by the breath, and from there being a slow, weak pulse in the latter. Apoplexy is distinguished from Epilepsy by the complete absence of spasms in the limbs, by the stertorous breathing, and the long duration of the fit in the former. It is distinguished from syncope and Asphyxia by the fullness of the pulse, which, in syncope and Asphyxia is wholly or nearly imperceptible. I will here mention a few circumstances to prove that the power of sensation is not entirely abolished in apoplexy. The pupil will contract from light being applied —







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The patient will often Refuse to take Nauseous articles and take agreeable ones. There are many other proofs that could be mentioned if necessary. Convulsions are often met with in Apoplexy, tho' not always. They generally take place at the Commencement or just before death. When they occur in the Commencement and the Patient is bled he generally gets well. We need not despair so long as the pupil continues to Contract. When you see your Patient putting his hands to his head you may Consider it an unfavorable Symptom, as it denotes a deep seated pain. In the first Stage of Apoplexy there are but few Marks of inflammation, but in the second there is a very great Change and the pulse is very quick. Whereas in the first it is seldom above forty or fifty. In violent Cases there is a bleeding from the Ears and mouth, There may be a sweating also but this does no good. When the pulse becomes quick and small we may be sure that death draweth nigh. Apoplexy has an influence on the secretory Organs as upon the Kidneys for very often there is no Urine secreted for several days; Sometimes during the attack a Diarrhea Comes on; also a profuse sweat which is said by some to be of great benefit; but I am of the Contrary opinion. In some few Cases the Cases Patient lies in a state of quiescence and then recovers. Persons in a state of Apoplexy are often







6

in a full possession of all their thought but cannot find words to express them. After an attack of Apoplexy the Patient often loses some of one of his senses as the sense of swallowing &c. On Dissection we find the Dura Mater thickened and adhering to the Cranium. When the disease has existed for sometime the Tunica Arachnoidea instead of being transparent is opaque. The Pia Mater often evinces Vascularity. The whole Surface of the Brain appears of a light red Colour, with Crimson Spots in various parts. There is often a serous fluid mixed with the blood between the membranes. The brain is firmer than in other Cases. There is blood on the Surface and Substance of the Brain. We cannot always discover extravasation of blood but may generally find marks of inflammation. Blood is generally to be found in the Hemisphere opposite the one paralysed. In Apoplexy the Liver is frequently affected especially in those who indulge much in spirituous Liquors. It has been supposed by some that a particular artery was ruptured causing the extravasation. This is not the Case. It is the consequence of a more general rupture. The predisposition of this disease may be transmitted from one generation to another. Intemperance in eating or drinking predispose to it. Persons advanced in life are most liable to apoplexy, although young persons may also have it. Suddenly stopping long continued



The text on this page is extremely faint and illegible due to significant fading and discoloration. It appears to be a single paragraph of handwritten text, possibly in cursive or a similar script. The ink is very light, and the paper shows signs of age, including brown spots and uneven staining. No specific words or phrases can be discerned.



evacuations frequently induce Apoplexy. Extreme  
 Cold also as well as heat also predispose to apoplexy  
 and then the Patient should not be brought suddenly  
 to the fire or warm Room as it produces too much exci-  
 -tation. Large doses of Narcotics induce Apoplexy  
 by their powerful action on the Brain. In fact whatever  
 tends to fill and overdistend the Vessels predispose to  
 the disease under review. Apoplexy frequently succeeds  
 Gout and this Dr Cullen Calls immobility of the Ner-  
 vous System. But in my opinion it is nothing but  
 a Metastasis of Gout to the Head. Pregnant Women  
 are often the subjects of Apoplexy and if they are seized  
 in labour it does not stop the parturient process and  
 some fall in a state of Apoplexy in which the  
 Symptoms are distinct. Hence the argument for bleed-  
 -ing in such Cases. I will now mention the Hypo-  
 -thesis of various authors with respects to this disease.  
 Vesperia undertook to explain the nature of the disease  
 and determined that it originated in the Substance  
 of the Brain. Galen supposed that a fluid was only  
 to be found in the Ventricle and supposed the effu-  
 -sion to Cause pressure upon the Nerves. Hoffman  
 assumes as a Cause the fullness of the Vessels and  
 any thing that increases the fullness may bring  
 on Apoplexy and strange as it may appear he  
 Calls it a nervous disease. Boerhaave considered it  
 as the effect of such Causes as impeded the flow







of nervous fluid in the Brain. Cullen says that whatever prevents the motions of the nerves from the center of the Brain produces Apoplexy Thus you see they all first locate <sup>the disease</sup> in a nervous fluid, without considering arterial action. Some writers have denied the distinction between sanguineous and serous apoplexy. Dr Cullen still retains the opinion that there is a distinction but he does not say how the disease is produced. Dr Cheyne says he never saw serous Apoplexy and the reason of this is that he considered it as nothing but Hydrocephalus. Some have considered it as only a variety of sanguineous apoplexy. They say that the two diseases are produced by different causes. Thus a sanguineous temperament induces a sanguineous Apoplexy - and a melancholic temperament will induce only serous apoplexy - but this like most general rules has exceptions - for it is evident that a sanguinary temperament some times induces serous Apoplexy and vice versa. Some say that when a man dies with a pale face he has died of serous, but in those who die suddenly the face is always pale. Patients sometimes die suddenly when there is no serum secreted in the Brain, because serous apoplexy never kills suddenly. A number of writers have described a series of symptoms for serous apoplexy.







but they have been often mistaken, for when they  
 have declared serous apoplexy to exist dissection  
 has shewn that it was sanguineous. No Man can  
 tell the state of the Brain from the symptoms unless  
 he knows the history of the case, and when the  
 Patient has been attacked or sometimes then we may  
 presume that it is serous Apoplexy. Phrenitis, Hydroceph-  
 alus Lethargus Palsy &c are nothing more than modifica-  
 tions of Apoplexy. The Chronic state often continues  
 for many months before the more acute comes on and  
 then any exciting cause will bring it on and death  
 in all probability will ensue. Treatment. If the  
 disease arise from a hereditary Predisposition as a pro-  
 phylactic I would recommend hard labour. If I were  
 called to a patient with a paralysis of any of the muscles  
 and a small pulse I should consider him in an incipient  
 state of apoplexy and in such cases we should pre-  
 scribe an abstemious regimen together with labour. —  
 It is dangerous when a person indulges in wine to break  
 off suddenly — as it produces debility and then when  
 Reaction commences he will be apt to have Apo-  
 plexy. In such cases he should take exercise on foot.  
 He should not eat a great <sup>quantity</sup> at one meal, but should  
 eat often and a small quantity at a time. He should  
 drink water and sleep on a board or hard mattress  
 and not be covered too warmly. Patients liable to  
 Apoplexy should wear flannel and keep <sup>the</sup> feet dry.



but they have been often...  
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and warm. There are some who cannot exercise on horseback, as sailors for example. It has the same <sup>effect</sup> on them that riding in a ship would upon one of us, and sometimes nothing will kill a sailor predisposed to the disease sooner than putting him <sup>on</sup> the back of a horse, and in such cases there is no cure but another sea voyage.

Apoplectic persons should keep their bowels soluble as constipation increases the paroxysms. In addition to these means we are obliged to bleed, and the best plan besides these is to put a seton in the back of the neck. So soon as the symptoms of the disease come on the patient should be placed in a cool place, be bled and injections thrown up of such a nature as will operate quickly and the patient will then be prepared for any subsequent treatment and it is a good maxim to do every thing we do well and cannot apply better than in the disease under review. We ought to bleed as long as there is a symptom of the disease. Plistering and purgatives or only auxiliary remedies in the disease. It is said by some that bloodletting brings on Palsey or Droopy, but this is founded on a false principle. I know that they do sometimes follow Apoplexy but it is only when the disease is chronic and has not been properly managed by bloodletting. We must bleed until we cure or relieve the patient of all symptoms without regard to weight or measure.





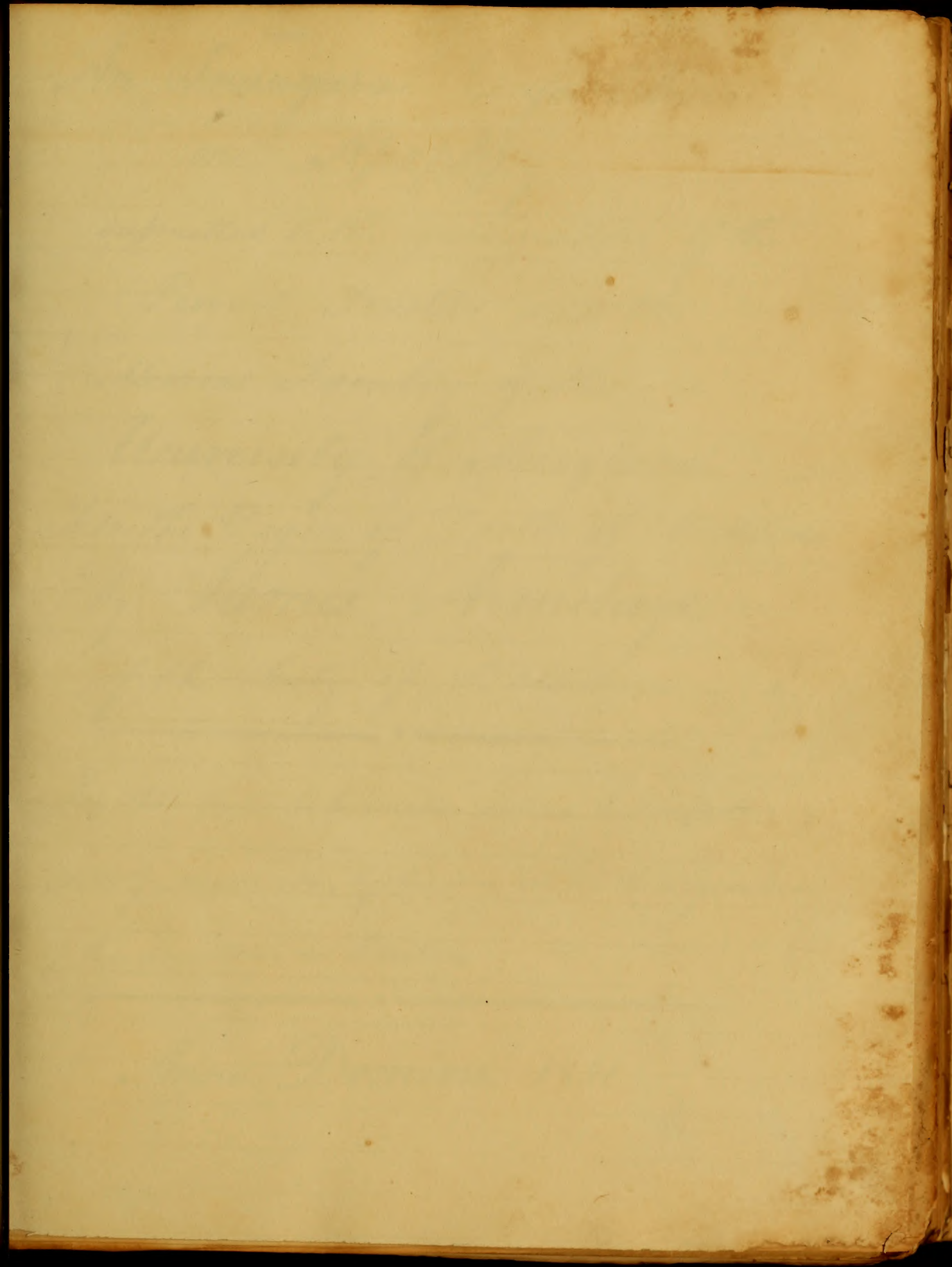


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If that be as long as a drop will come. Unless we  
do bleed sufficiently the patient will become passid  
I do not think it makes any difference from what  
part we take blood provided we get <sup>it</sup> in quantity  
sufficiently large. Sometimes the action of the heart  
is so prostrated that you cannot get the blood  
to flow from the veins and then you may open  
an artery. One large bloodletting in the beginning  
is of more consequence than twice the same quantity  
by many small bleedings. If Paralysis comes on after  
Apoplexy you are compelled to bleed, before your  
patient will recover. The best Cathartic you can use  
is ~~Mer~~ Calomel and if you make the mouth  
sour you accomplish your object. Emetics in this  
disease are decidedly injurious. Some contend that when  
it comes on with a full stomach they are necessary  
but if you bleed sufficiently your patient will be  
Dune to vomit let what may be in the stomach.  
Blisters are of no importance unless when we wish  
to stimulate.

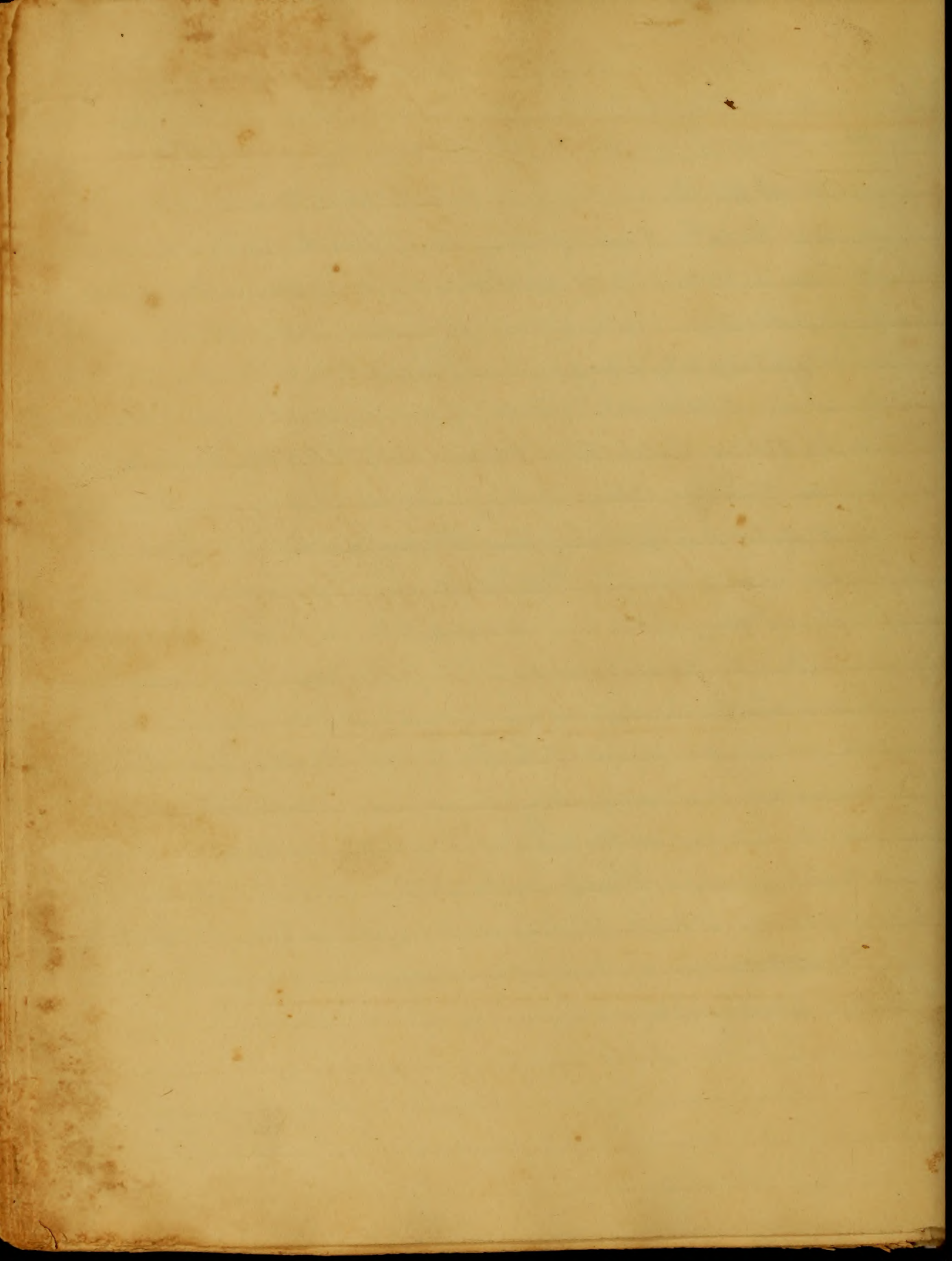


There are two other things  
to be considered in the  
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It is to be noted that the  
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An Inaugural Dissertation  
on Apoplexy  
submitted to the examination of the  
Provost, Trustees and the  
Medical Faculty of the  
University of Maryland  
For the Degree of Doctor of Medicine  
by James Armitage  
of the City of Baltimore

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He that wishes to be counted among the benefactors of  
posterity, must add, by his own toil, to the acquisitions  
of his ancestors. — Rambler,

---

Anno Domini. 1831



The General Assembly  
of the State of New York  
in Session assembled  
at the City of Albany  
January 15th 1831  
Resolved That the  
Commissioner of the  
Land Office be and he  
do cause to be printed  
and bound in a  
small octavo form  
the Report of the  
Commissioner of the  
Land Office for the  
Year 1830  
by James A. Hart  
of the City of Albany

---

Approved in open Session  
of the Senate the 15th  
of January 1831  
James A. Hart

---

James A. Hart 1831

Yo Corbin Amos M. D.  
of Baltimore M<sup>d</sup>.

Dear Sir

With great pleasure do I avail myself of this opportunity of acknowledging how much I am indebted to you for the polite attention and valuable instruction I have received while pursuing my studies under your direction. In return for which I beg you to accept of my warmest wishes for your future welfare and be assured that I always shall remain,

With sentiments of the highest esteem

Your obliged friend and pupil

The Author





1  
When we take into view the different diseases which affect the human system, and which have made their appearance in different ages and countries, none appears to be of greater antiquity and of more importance than Apoplexy. We find it treated of by Hippocrates and most practical writers since his time. Notwithstanding it has been elaborately treated of by many of them, its cause and what is of still greater importance its cure was badly understood and explained by many of them.

In a medical treatise, as it is usual, it is proper, first to give the reader a general introduction to the disease, then the state of the various functions during the attack, lastly the treatment and prophylaxis. It attacks both sexes, sometimes persons in youth and middle life, but more particularly those who are advanced in years. Some of the appearances observed before the supervention of this disease, which



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are vulgarly thought to promise long life, are in reality the effects of disease; as the fulness of body, the ruddiness of the complexion, accompanied with a great susceptibility to bronchial affections, sometimes with languor, inactivity and muscular debility, which to the discovering observer indicates a morbid condition of the blood vessels. Apoplexy has been considered an hereditary disease by many medical writers and with great propriety we think, as several instances have come under our observation to confirm it. It is also acquired as is observed in persons who have lived an indolent life and are fond of the luxuries of the table. often it occurs in Gouty diatheses, generally it is preceded by a train of symptoms which are called precursors, they are, headache, vertigo, musca volitantes, tinnitus aurium, nausea, pain in the stomach, anxiety, palpitation of the heart, restlessness, often a feeling of weight, tightness or tensive pain across the forehead, with a painful throbbing of the temporal



*[The page contains approximately 15 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is too light to transcribe accurately.]*

and occipital arteries, flushing of the countenance, heaviness of the eyes, temporary fits of blindness and unusual flashes of light are complained of. Some have sensations of loud and discordant sounds, like the boiling of an immense cauldron, the roarings of the sea or the clamors of an unruly crowd, their nights are often restless from anxiety, incubus &c. Another on the contrary is often drowsy, sleeps longer than usual, dozes during the day, his articulation is indistinct, sometimes falls asleep at the table, he has no mental energy, is forgetful, irresolute, timid and confused. Various slight paralytic affections occur, spasm of particular muscles, stertor in persons unaccustomed, the complexion and pulse indicates an embarrassment of the circulation, which is increased by stimulants, Epistaxis often supervenes and if profuse relieves for the time, there is often observed great disorder of the Chylopoetic viscera, particularly when it arises in an intemperate person. But it is not to be denied that



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Apoplexy sometimes seizes those whose health, to every appearance was unbroken, and who had felt themselves unusually vigorous some time before the attack. Most of the foregoing symptoms generally precede an attack of apoplexy; though sometimes the patient is instantaneously stricken dead without a single premonition.

Hence the disease acquired its name. The scene was considered portentous, and not to be explained by any of those marks or signs of decay, which are part of our constitution, in so much that the sufferers were called *Attoniti* or *Thunder struck*.

Great changes may be observed in the state of the different functions in the course of every attack of Apoplexy. It has every appearance to a common observer, of a profound sleep or rather like the sleep following intoxication, there is stertorous breathing, he cannot be roused by the loudest calls, by pinching or pricking him. The vital functions are impaired, sensibility and voluntary motion are greatly diminished, articulation difficult or



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suspended. the eyes are suffused and watery. the pupil obeys the stimulus of light, he starts when pricked with the lancet and the bowels in general are torpid. But as the disease advances the organs of sense entirely loose their faculty of receiving impressions. respiration becomes slow, laborious and irregular, the face livid, the pulse slow, full and heavy, the secretion of urine is suspended in others there is profuse perspiration. the eye has a deadly appearance, the function of deglutition completely lost and if he is not relieved promptly, the jaw falls. the countenance assumes a cadaverous aspect, the pulse is quick and small. the extremities gradually become cold, the sphincters palsied permitting urine and feces to pass involuntary, convulsions supervene and the paroxysm <sup>generally</sup> terminates in death, sometimes palsy but rarely in health.

**Pathology.** There has been great diversity of opinion respecting the pathology of this disease. Hoffman thought



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The arteries only were affected, they being distended pressed  
 on the sensorium and prevented the secretion of the nervous  
 fluid. Boerhaave considers this disease as the effect of  
 something that obstructs the distribution of the nervous  
 fluid or halitus. Morgagni was of the impression that  
 it resulted from an aneurism existing in some part of  
 the body, from the circumstance of his having found one  
 on dissecting a subject who had died of Apoplexy.  
 Baillie ascribes apoplexy to a deposition of bony or  
 calcareous matter in the brain or any part of the body  
 but more particularly when in the brain. D.<sup>r</sup> Cullen  
 says the proximate cause of this disease is whatever  
 prevents or interrupts the mobility of the nervous power.  
 Strictly speaking this disease arises from an impairment of the  
 veins of the brain, which admit of morbid distention or con-  
 gestion thereof, resulting in an increased action of the heart



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

and arteries, which terminates in an effusion of blood or pressure on the origins of the nerves, as is clearly proven by the symptoms and the appearances on dissection. Much has been said about what has been called Serous Apoplexy for our part we cannot admit of such a disease in this place, because we consider it to be a distinct disease, depending upon an increased action of the arteries, which assume the part of glands, and pour out a quantity of serous fluid in the ventricles of the brain or between the membranes thereof. It is nothing more or less than a Chronic Inflammation which in children is called Hydrocephalus Internus, in adults, Apoplexia Hydrocephalica, from the circumstance of its terminating suddenly in death on the application of a strong exciting cause. It is the impression of a Learned writer, that, the application of strong stimuli to a brain <sup>are produced</sup> phenomena similar to those of concussion and death





8  
results from the same effect.

**Diagnosis.** There are several diseases taken notice of by Authors. under the names of Carus. Cataphora. Coma and Lethargus all of which are symptomatic or differ from Apoplexy only in degree. Apoplexy differs from Palsy by a suspension of all the powers of sense and voluntary motion, from Epilepsy by the complete absence of general Convulsion and foaming at the mouth, by the stertorous breathing and long duration of the paroxysm; from syncope or asphyxia. by the fulness of the pulse, which is wholly or nearly imperceptible in them. It is distinguished from natural sleep, by its coming on suddenly without previous fatigue and the difficulty of rousing the patient from his Apoplectic sopor. Intoxication often presents phenomena analagous to those of this disease, and even the experienced physician may be deceived, Respiration



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is generally rather more accelerated, the pulse more frequent at the same time the breath is generally saturated with the effluvia of the intoxicating potation. Apoplexy cannot be mistaken for concussion, because the pulse is an infallible criterion.

*Predisposing Causes.* The causes which predispose the system to be affected with Apoplexy, are all such as give rise to an accumulation of blood in the vessels of the brain and tending to produce plethora, as intemperance in eating and drinking, Indolence and a full diet, the suppression of any habitual discharge as Hemorrhoids, Catamenia &c.

A peculiar conformation of body it has been observed by all writers, dispose to this disease, as a large head and short neck. Corpulency also it seems to act by pressing on all the vessels of the body, except those of the head and preventing the free circulation of blood through the lungs.

Great indulgence in sleep and sedentary occupations





have been ranked among the causes laying a predisposition and with great propriety. It is well known that long continued and intense study and despondence consequent to great misfortunes, have a tendency to produce Apoplexy. There are certain diseases which dispose to it as Gout, Epilepsy & Hysteria.

Pregnancy according to authors lays a predisposition. Old Age seems to predispose in consequence a determination to the head, which takes place very often, yet the cause of it is not evident, and has not been clearly explained by writers.

This disease mostly occurs in advanced life, yet when the remote cause acts powerfully it is developed in Youth.

**Exciting Causes.** Are all such as when applied either generally or partially to the body, are capable of exciting a paroxysm. Their operation is either to increase the velocity of the circulation through the cerebral vessels or prevent the free return to the right auricle of



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the heart, thereby augmenting the quantity of blood in the vessels of the brain. and distending them beyond their power of reaction, cause them to give way to the propelling force of the heart, among these are first, Violent passions of the mind as anger and joy, great muscular exertion, general application of heat, long exposure to cold then sudden exposure to a high temperature by exciting violent reaction, partial application of heat as the rays of the sun to the head, as occurs frequently in Tropical climates, There is no cause more apt to excite it than eating a hearty supper, the warm bath and check of perspiration often excite it. The sudden stoppage of any habitual discharge, drinking freely of wine or Ardent spirits at night. Breathing in a crowded assembly, occasionally excites it. The sudden retrocession of any of the exanthemata, as small pox, measles &c. Retrocedent Gout sometimes falls on the



The heart, being surrounded by pericardium, is the  
chief of the brain, and retaining them, the  
of arteries, come then to give way to the  
of the heart, among them are the  
the mind as organ and the great muscular system,  
general affection of that, being common to all the  
the affection is a high temperature of the  
the arteries, but not affection of the  
the sun to the heart, or even, perhaps, in the  
then a common cause of the heart, or the  
perhaps, the heart, and chief of the  
the water, the water, the water, the  
the heart, the heart, the heart, the  
the heart, the heart, the heart, the

brain and produces it. Excessive use of Tobacco. Matt liquors and  
 all the narcotics. The fumes of lead and exposure to carbonic  
 acid gas, violent vomiting, severe paroxysms of coughing, violent  
 shocks of Electricity. Secondly, Tumours of the neck by press-  
 ing on the Jugular veins impeding the return of blood from the  
 head and giving rise to congestion, the sudden twisting of  
 the neck. Tight cravats or other ligatures around the neck.  
 Sleeping with the head low or stooping too long. Spicula  
 of bone, tumours or fluids pressing on the brain. Hypertrophy  
 of the heart, enlargement of the abdominal viscera by  
 pressing on the aorta and impeding the free transmission of  
 blood through it, by which a greater quantity is determined to  
 the head. Asthma often acts as an exciting cause in  
 predisposed persons. Lastly any violent impression, either  
 to the body or mind may give rise to this disease in those  
 who are predisposed to it.



The first part of the paper is devoted to a  
 description of the various species of  
 plants which are found in the  
 country. The second part is  
 devoted to a description of the  
 animals which are found in the  
 country. The third part is  
 devoted to a description of the  
 minerals which are found in the  
 country. The fourth part is  
 devoted to a description of the  
 climate of the country. The fifth  
 part is devoted to a description  
 of the population of the country.  
 The sixth part is devoted to a  
 description of the commerce of  
 the country. The seventh part  
 is devoted to a description of  
 the government of the country.  
 The eighth part is devoted to  
 a description of the history of  
 the country. The ninth part is  
 devoted to a description of the  
 present state of the country.  
 The tenth part is devoted to  
 a description of the future of  
 the country.

Appearances on Dissection. On dividing the integuments and removing a portion of the cranium, an unusual quantity of blood is discharged from the superficial veins and sinuses. The Dura mater is thickened and adhesions are sometimes formed. The Tunica Arachnoidea is thickened and opaque, the Pia mater evinces a great degree of vascularity, the veins are engorged with dark blood and the arteries seem to be greatly distended, the membranes generally exhibit marks of high arterial action, there is often observed between them an effusion of a serogetatinous fluid often blood. The ventricles are enlarged and contain considerable quantities of blood, it is also found effused in the substance of the brain in some instances. Extravasations of blood are not invariably found, but we never fail to find the remains of greatly increased action and great congestion in the arterial and venous systems of the brain. A detail of the above appearances which are usually



11  
The first object of the present work is to  
ascertain the nature and extent of the  
various species of the genus, and to  
determine their geographical distribution.  
The second object is to describe the  
characters of the several species, and  
to point out the means of distinguishing  
them from each other. The third object  
is to give a list of the species which  
have been found in the various parts  
of the world, and to state the countries  
to which they are confined. The fourth  
object is to give a list of the species  
which have been introduced into  
Europe, and to state the countries  
to which they have been introduced.  
The fifth object is to give a list of  
the species which have been introduced  
into America, and to state the countries  
to which they have been introduced.  
The sixth object is to give a list of  
the species which have been introduced  
into Asia, and to state the countries  
to which they have been introduced.  
The seventh object is to give a list  
of the species which have been introduced  
into Africa, and to state the countries  
to which they have been introduced.  
The eighth object is to give a list  
of the species which have been introduced  
into Australia, and to state the countries  
to which they have been introduced.  
The ninth object is to give a list  
of the species which have been introduced  
into the various islands of the Pacific  
Ocean, and to state the countries to  
which they have been introduced.  
The tenth object is to give a list  
of the species which have been introduced  
into the various islands of the Indian  
Ocean, and to state the countries to  
which they have been introduced.

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found in the brain after apoplexy, confirm we think the preceding remarks made on the pathology of this disease very strongly and clearly indicates the method of treatment we should follow.

**Prognosis.** In a disease so awful in its appearance and dreadful in its consequences as this, a physician should be very cautious in giving an opinion with respect to its favourable termination. As the brain is the seat of this disease our prognosis must be drawn from the quantity of sensorial power which remains, thus we should not despair until the retina ceases to obey the influence of light or the pupil becomes permanently dilated, if the coma and other symptoms begin gradually to decline after the energetic employment of remedies to be hereafter mentioned we may augur favourably, but if the symptoms continue violent for several days and the pulse becomes quick and tense, deglutition completely lost, and convulsions supervene the greatest danger is to be apprehended.



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-ended. When the sphincters of the bladder and rectum become paralysed, and the urine and faeces are suffered to pass involuntarily accompanied with a weak and thready pulse, cold and clammy sweat, cadaverous countenance, eyes sunk and dim, death is near at hand to carry off the sufferer in triumph.

Treatment. The cure of this disease is of the greatest importance and should be attended to with great diligence by every physician who values the life and health of his patient.

As the disease runs its <sup>course</sup> so soon, that unless he is very prompt in the administration of the proper means without delay, his patient, will soon be beyond the controul of art, and he will be compelled to stand and witness the agonies of death, without being able to administer any assistance.

If a person has once laboured under this distressing malady however slight it may have been, he will scarcely ever enjoy his usual health of body and mind as before, and



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... to have the copy of the paper in hand.

# Treatment.

... and should be attended to with great attention.

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he is forever after liable to a return. The treatment divides itself into two parts, First to relieve the paroxysm, Secondly to prevent its accession in subjects predisposed.

The remedies to be employed during the paroxysm, are,  
 1<sup>st</sup> Venesection, the propriety of which the pathology clearly indicates, it should be drawn very freely and from any part where the greatest quantity can be obtained in the shortest time, the best plan is to open a vein in both arms and suffer the blood to flow through a large orifice until the system is sensibly affected. No precise rules can be laid down as to the quantity it will be proper to take, this must in a great measure depend on the circumstances of the case, of which the physician must be guided by his own judgment. If we should attempt such, the best would be "to leave as much blood within the system as will keep soul & body together"







by so doing we avoid paralysis and in a great degree break up the predisposition. Many objections have been started against the free use of the Lancet, but we conceive them to be futile, because the very diseases which they adduce said to be produced by copious depletion (which are Palsy and Dropsy) are owing to a sufficiency not having been abstracted. If a sufficient quantity cannot be obtained from the arms, we may open the Jugular veins or the Temporal artery and use Cups. Cupping and Scarifying the temples and nape of the neck, may be used as adjurants, after general P.S. has been carried as far as the powers of the system will permit, without entirely removing the symptoms.

2<sup>ndly</sup> Purgings has been considered of the greatest importance in this disease by all physicians who understand the pathology of it, it has been objected to, but experience (which is paramount to all theories and idle speculations) has conf-





18

irmed its great utility. A brisk purge should be given as soon as convenient. Chloride of Mercury is supposed to be best in all cases, but, more particularly in those connected with derangement of the abdominal viscera, to secure its prompt action it should be followed by large doses of the Neutral Salts, or it may be combined with some of the more drastic cathartics as Salep, Scammony &c. If the function of deglutition is very much impaired and the patient is incapable of swallowing. The bowels should be unloaded by acrid & stimulating enemata, which should be frequently repeated.

3<sup>rdly</sup> Emetics have been highly extolled by some of the practitioners of the present time. They are much used in France, for our part we do not consider them suitable remedies, and led to believe so from the circumstances that violent emesis often acts as an exciting cause, and the experience of many excellent physicians who have



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employed them, is decidedly opposed to their use in consequence of no benefit having accrued and in a majority of cases the disease was aggravated. Many have attempted to restrict their use to those cases which arose from overdistention of the stomach, but we are opposed to their use in all, because we have a better remedy one which will relieve the distention of the stomach and at the same time cures the diseased action, it is Copious Venesection.

#### 4<sup>thly</sup> External Applications, and first of Cold.

It is very useful and may be applied in all stages, but more benefit is derived from it after V.S. has been carried to a great extent, and there still remains a slight tension of the pulse, indeed there are some cases in which the action cannot be subdued until it is applied, it may be applied in the form of Seed water or pounded Ice. Solution of Muriate of Ammonia or Vinegar and





water and suffer evaporation to go on freely. Next Blesters  
 these are certainly injurious remedies in the first stage, in conse-  
 quence of their stimulant action being imparted to the brain which  
 is already in too high a state of excitement, they would  
 rather accelerate than retard a fatal termination. In conse-  
 quence of their having been indiscriminately used in all stages  
 they have fallen into disrepute, yet we are not disposed to dis-  
 card them altogether, reasoning from analogy we are led to  
 believe they may prove beneficial in the latter stage, after  
 the patient has been kept on a strict antiphlogistic plan of  
 treatment for several days, and there remains general debility  
 with uneasiness in the encephalon, a blister may be applied,  
 the stimulant influence would be imparted to the weakened  
 vessels, which would enable them to recover their natural tone.  
 to this stage we would restrict them and think them injur-  
 dicious in all others. Sinapisms and Cataplasms of



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Garlic have been much spoken of by authors to rouse the patient from his apoplectic sopor, but, they are futile measures and seem to be of no use except, the patient has been depleted very much and great prostration ensues, when they may be used with advantage, but like the last mentioned remedies they are prejudicial in the first stage. The management of a patient during the paroxysm is of the greatest importance, he should be placed in a room well ventilated and of a moderate temperature, on a hard bed with his head elevated, all ligatures about the neck should be removed, he should be suffered to be surrounded by anxious visitors and at the same time keep him as tranquil as possible. then make use of the remedies as directed above.

**Prophylaxis.** We come now to our second division, the treatment of Predisposition, a subject which has not been much attended to by authors, It is often in the predisposition alone, that the physician can confidentially interfere, and stand



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as an obstacle between his patient and the fell destroyer; for when the disease has actually supervened it often withstands the most active remedies and best directed art. When a person has been attacked before or is threatened, he should avoid all causes that would tend to excite it. He should live temperately, no indulgences at the table or in bed should be allowed. His diet should be principally of vegetables. He should eat light suppers, avoid overdistention of the stomach, go to bed early and rise betimes, sleep on a hard bed with the head elevated, keep the bowels soluble, avoid the use of crowded assemblies, all violent mental exertions, all deep and abstract studies and passionate altercations, he should exercise freely and labour hard be careful to preserve a serene and placid temper and sacrifice pleasure, interest and duties to health. Flannel should be worn next the skin and the head bathed in cold water every day - all spiritous pota-



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tions should be avoided, if he has been accustomed to them the quantity should be gradually diminished. Issues and Setons have proved very beneficial by keeping up an habitual discharge, thereby equalizing the condition of the general system. A change of climate has in some instances completely removed the predisposition. If after following the above rules any of the precursors should supervene it would be proper that he should ~~lose~~ blood take an active purge and confine himself to a spare vegetable diet. After the preventive means have been employed sometime, they produce a complete renovation of health and strength <sup>ce</sup> the pampered and self-indulgent patient, who engages with reluctance in this active mode of living and is with difficulty inured to it, finds it at last, his happiest state, and is conscious of an alacrity of spirit, a clearness of intellect and vigour of health, which he would not exchange for all those enjoyments or that voluptuous languor





in which he was wont to indulge.

Before I conclude, permit me Gentlemen, to express the gratitude I feel for the kind and polite attention shown to me, ~~and~~ and the advantages I have derived from your valuable lectures, and to breathe a wish that your laudable exertions may be crowned with success.





1  
Dissertatio Inauguralis

De

Systematis Nervosi Officiis,

Quam, annuente summo numine,

ex auctoritate Praefecti

Universitatis Terrae Mariae;

nec non

Amplissimi Facultatis Medicae Consensu;

Pro Gradu Doctoris

Omnibusque in medicina honoribus et privilegiis

rite et legitime consequendis,

eruditorum examini subjecit;

ad diem 4 Martii, Anno Domini,

MDCCLXXXI,

Carolus Franciscus Snowden



20  
2  
Epistolarum

Epistolarum  
Johann. Remondini  
de medicina

Principes in medicina  
de medicina

Principes in medicina  
de medicina  
de medicina

MDCCLXXI

Carolis. Medicorum

Viro Dignissimo  
Johanni Buckler, M.D.

Præceptori Optimo,  
cujus ope et ductu,

In artē medicinæ proqueſſum sum;  
Mihî ob summam humanitatem et

Innumera beneficia  
Semper colendo;

Nec non

Viro Clarissimo,  
Nathanieli Potter, M.D.

Medicina Præceptor Professore venerabili,

In alma Universitatē Lenæ Mariæ,

cujus præstantissimis consiliis,

Pathologiam morborum Curamque

Investigando multam  
adjutus sum

Hanc dissertationem

Qecatam voluit

Auctor.



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De Systematis Nervosi Officiis.

Nervosum Systema constat ex medullari Cerebri substantia, cerebello, medulla Spinali et oblongata ac nervis denique, qui ad has partes, diversis corporis organis currunt.

Nomine Cerebri, ea pars corporis significatur, qua intra calvariam est. Quod vero Cerebrum appellavimus, id in tres partes dividitur, quarum, qua maximas ad superiorem partem sita est, cerebrum proprium est, qua posterior ei subjacet, cerebellum, qua media et inferior medulla oblongata.

Ad Cerebrum venimus. Illud superiorem et anteriorem partem habet, et a procepsu falciformi durae matris, in duo hemisphaeria dividitur, in quibus, lobos anteriorem, posteriorem et medium distinguimus. Positum ad imam ac posteriorem partem capitis cerebellum, sub eo procepsu durae matris, quod tentorium vocant. Capitis mediam et inferiorem partem medulla oblongata tenet. Medulla Spinalis







A.

4

est ea pars nervosi Systematis, qua per foramen  
magnum opis occipitis exit, et per foramina  
vertebrarum ad tertiam lumborum descendit  
ac denique in plurimis fibris, cauda equina  
similibus terminatur. Per via vertebrae latera  
sunt, per qua nervi à diversis corporis partibus  
intrant.

Sensus ex Systemate Nervoso oritur.

Sensus est idea simplex, quam quidem unusquisque  
intelligit, nemo vero verbis definire potest. Cum  
affirmamus Systema nervosum sensuum esse  
organum, hoc dicere volumus, id esse partem eam  
compaginis nostrae, cujus ope res externa à mente  
percipiuntur. Novimus, quinque esse organa,  
quibus, distincti sensus accipiuntur, lux nempe  
oculis, soni auribus, saporibus linguis, odores  
nasibus, et omnes alii quomodocumque dissimiles  
inter se superficiei corporis percipiuntur.

Nunquam nervi ad eadem cerebrum inveniuntur.  
Officii super fundum etiam oculorum, super internas  
nares auresque expanduntur. Extremi in lingua  
deprehenduntur nervi, qui tenui cuticula  
tacti, impressiones saporum corporum percipiunt.



but the good people of the world  
are not so easily deceived  
as the wicked are. They will  
see through the disguise of  
virtue and find out the  
heart of man.

There is a great deal of  
good in the world, but it is  
not so easily seen. The  
wise man will look for it  
in the hearts of men, and  
not in their words. He will  
see the good that is hidden  
in the evil, and the evil that  
is hidden in the good. He  
will see the truth that is  
hidden in the lies, and the  
lies that are hidden in the  
truth. He will see the  
good that is hidden in the  
evil, and the evil that is  
hidden in the good. He  
will see the truth that is  
hidden in the lies, and the  
lies that are hidden in the  
truth.



Impressiones quamvis hebetissima, in nervos nudos facta, acutissimum sensum dare solent, hujusmodi est dolor quem sentimus, quum cuticula sublata, aër frigidus in nervos cutis vera sese impingit eosque stimulat; nam puncti, lacerati, incisivi nervi acerrime dolent.

Nervo in quacunque parte inter finem cerebrumque, vel deletò vel constrictò, sensus ejus illico perit aut hebescit. Præterea, <sup>quacunque</sup> Sensum corporis imminuunt vel augent, imprimis, per medium Systematis nervosi agunt. Nervi multarum partium, veri sunt nuntii impressionis generalis, sed locum ejus non tam accuratè monstrant, unde fit, ut saepe cum Juvenale dicere possimus,

"Nequeo monstrare, et sentio tantum."

Et hinc adeo reperire difficile est sedem interni doloris; nec non eorum, qui procul a loco irritato, ob consensum nervorum partium, sentiuntur.

Hinc quoque istè dolor quem membri quoddam post amputationem, sentit refertque ad partes exsitas.

Quaedam cerebri affectiones, compressio præsertim, Sensum imminuunt aboleritque, nervis etiamnum liberis aut sanis; quod quidem sapius



The first part of the paper is devoted to a general  
 consideration of the subject, and to a statement of the  
 objects which it has in view. It is then divided into  
 three parts, the first of which is devoted to a  
 description of the nature and extent of the  
 disease, and the second to a description of the  
 symptoms which it produces. The third part is  
 devoted to a description of the treatment which  
 is to be resorted to in the various stages of the  
 disease. The paper concludes with a summary of the  
 principal points which have been discussed, and a  
 statement of the author's conclusions.



fractō vel depresso cranio, et in paralyſi aut in  
apoplexyas aut in hydrocephalo videtur est.

Motus etiam ex Syſtemate nervoſo oritur.

Nulla quidem quaſtiones de hac re ſeſe offerunt.  
Mentem motum quorundam mufculorum  
dirigere, certum eſt et inexplicabile. Vitales  
porro et naturales motus impreſſiones in organa  
horum factas conſequuntur; ſed nihil aut  
~~artificioſius~~ difficilius aut inutilius eſt quam  
cauſam proximam definire, vel vinculi naturam  
explicare, quo motus et impreſſiones iuncte ſe  
conſiſtunt.

Philoſophi in omni aetate hanc rem multum,  
at parum feliciter, ſi fallor, explicare laborarunt.  
Perpauci autem hodie ſunt, qui motus animales  
censeant, iſdem legibus obedire, quae in Chemicis  
mechanicis obtineant. Motus in quavis parte, ſemper  
impreſſionibus in ejus nervos factis excitari poteſt.  
Haec ubique perſpicere licet neque ſolum in mufculis  
quorum voluntarii motus ſunt; ſed in corde quoque, in  
viſceribus, aliisque partibus, animi imperio haud  
ſubjectis. Hiſ motusque mufculi, nervo ejus compreſſo,  
aut



...the ... of ...

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aut a sedantibus affecto, imminuuntur. Contractiones quidem fiunt, stimulus infra illum locum, aut ad ipsos musculos applicatis, sed infirmiores quam, quae, antea libero nervo, peragerentur. Functiones etiam cordis et stomachi, canalis alimentarii, aliorumque vitalium organorum, nervis cuique propriis sublatis, vel perturbantur vel cessant.

Convulsiones frequentissima et violentissima ex impressionibus in cerebrum factis oriuntur. Hinc illa quae depresso cranio aut sero in ventriculos cerebri effuso subsequi solent. Qui, epilepsia perierint, in eis sanguis intra caput effusus, exostosis ab interioribus ejus tabulas, abscessus, aut sapissimae vasorum cerebri distensio inveniuntur —

Pari ratione, mobilitas omnium musculorum minuitur, ita ut voluntarii imperio voluntatis non pareant, involuntarii lentius moveantur. Musculi etiam, ut jam diximus, qui vitalibus functionibus inseriunt, lentius moveantur.

Nonnulli sunt hodie, qui credunt, phenomena Systematis nervosi oriri ex his vibrantibus, quasi elasticis chordis solidis; atque alii, qui Cerebrum esse organum secerneus putant, cui nervi sicut ductus excernentes seriant.



I have been thinking of you very much lately  
 and wondering how you are getting on  
 I hope you are well and happy  
 I have not much news to write at present  
 but I will write again soon  
 Give my love to all the family  
 I am your affectionate friend  
 M. J.



8

Ad primam sententiam venimus. *Lusio Nervorum*  
pendet ex Membranis eos tegentē, quae quidem non  
modo, non nervis opitulatur, sed etiam illis, ubi, suo  
officio praecipue funguntur, omnino deponitur.  
Nervi per se non sunt elastica sed mollis materiae,  
percuti musculum modo inferiorum commoveat,  
partibus superioribus minimè affectis.

Præterea, in fascias nervi colligantur, sensus  
autem, ob mutuas intè se communicationes, confusos  
indistinctosque reddunt. Nec vero, hæc opinio,  
quod vires nervi præparā seu ligaturā decrescant  
percutiōes, rationem reddere videtur.

Porro, in omni fere nervo, si ligatus fuerit et postea  
supra ligaturam irritatus, sensus sine motu excitatur;  
si vero infra ligaturam irritatus fuerit, tum sensus  
nullus, sed motus tantum in partibus musculosis  
excitatur. <sup>Hæc</sup> Igitur opinio omnino rejicienda est.

Ad Secundam venimus sententiam. De fluido  
nervoso, plurimi, multum, at parum feliciter, mi  
fallor, loquuntur. Nervus ligatus, nec ultra, nec  
citras ligaturam tumet. Nervus resecto, nullus humor  
exillat? Multum igitur ab aqueosis, vel aëreis fluidis,  
nervosum illud de quo disperunt, differre videtur.



The first part of the book is devoted to a general  
 account of the history of the world, from the  
 beginning of time to the present day. The author  
 has followed the usual plan, and has treated  
 the subject in a clear and concise manner.  
 The second part of the book is devoted to a  
 description of the various kingdoms of nature,  
 and to the history of the human mind.  
 The third part of the book is devoted to a  
 description of the various arts and sciences,  
 and to the history of the human mind.  
 The fourth part of the book is devoted to a  
 description of the various laws and customs  
 of the human mind.  
 The fifth part of the book is devoted to a  
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 feelings of the human mind.  
 The sixth part of the book is devoted to a  
 description of the various actions and  
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 The twelfth part of the book is devoted to a  
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 fears of the human mind.  
 The thirteenth part of the book is devoted to a  
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 hates of the human mind.  
 The fourteenth part of the book is devoted to a  
 description of the various respects and  
 indignities of the human mind.  
 The fifteenth part of the book is devoted to a  
 description of the various honors and  
 dishonors of the human mind.  
 The sixteenth part of the book is devoted to a  
 description of the various rewards and  
 punishments of the human mind.  
 The seventeenth part of the book is devoted to a  
 description of the various triumphs and  
 defeats of the human mind.  
 The eighteenth part of the book is devoted to a  
 description of the various successes and  
 failures of the human mind.  
 The nineteenth part of the book is devoted to a  
 description of the various gains and  
 losses of the human mind.  
 The twentieth part of the book is devoted to a  
 description of the various acquisitions and  
 losses of the human mind.  
 The twenty-first part of the book is devoted to a  
 description of the various increases and  
 decreases of the human mind.  
 The twenty-second part of the book is devoted to a  
 description of the various enlargements and  
 contractions of the human mind.  
 The twenty-third part of the book is devoted to a  
 description of the various expansions and  
 contractions of the human mind.  
 The twenty-fourth part of the book is devoted to a  
 description of the various dilatations and  
 contractions of the human mind.  
 The twenty-fifth part of the book is devoted to a  
 description of the various relaxations and  
 contractions of the human mind.  
 The twenty-sixth part of the book is devoted to a  
 description of the various loosenings and  
 contractions of the human mind.  
 The twenty-seventh part of the book is devoted to a  
 description of the various loosening and  
 contractions of the human mind.  
 The twenty-eighth part of the book is devoted to a  
 description of the various loosenings and  
 contractions of the human mind.  
 The twenty-ninth part of the book is devoted to a  
 description of the various loosenings and  
 contractions of the human mind.  
 The thirtieth part of the book is devoted to a  
 description of the various loosenings and  
 contractions of the human mind.



9

Nonnulli in cerebro fluidum electricum vel magnet-  
icum secernere (a quo, sensus motusque derivantur)  
cui accumulationem per somnum ad resificiendas  
vires et muneris peragenda, necessariam esse, patiunt;  
sed an tale fluidum, et ad eam finem secernatur,  
juro dubitamus; nam somnus ad vigilia saepe  
fiunt manentque, ex causis, quae, ut nobis videtur,  
tale fluidum afficere nequeunt.

Compressio quoque cerebri statum somno similem  
parit, ut in depresso cranio, in apoplexia, paralyti,  
aut epilepsia, ex congestione vasorum cerebri, ex malè  
formatis cranii ossibus, nec non etiam in Hydroceph-  
alo videri potest.

Omnes quidem causa, quae somnum inducunt, tales  
sunt, ut sensum motumque imminuant vel (quod  
idem est) collapsum pariant.

Princeps et frequentissima causa excitationis,  
est actio directæ in systema nervosum, quae, quidem  
ab externorum rerum impulsu et etiam ab animo  
ipso, fieri solet. Excitatio nimias debilitatem parit,  
unde requies longior fit necessaria, quo, vires ad  
propria officia reparantur. hinc

Quod caret alternâ requie durabile non est;  
Haec reparat vires, fessaque membra levat.



The first part of the paper is devoted to a general  
 description of the country and its resources. It  
 is then divided into several sections, each  
 dealing with a different aspect of the subject.  
 The first section is devoted to the general  
 description of the country and its resources.  
 The second section is devoted to the  
 description of the different parts of the  
 country. The third section is devoted to  
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 different parts of the country. The tenth  
 section is devoted to the description of  
 the different parts of the country.



Itae excitatio quoque ex impressionibus, non solum  
 ubi facta fuerint, sed etiam alibi procul perceptis,  
 fieri potest. Talia sunt exempla plurimorum sensuum  
 et motuum, qui partium consensu seu sympathia  
 experiuntur.

Hinc loci excitatio ex naturalibus appetitibus  
 vel propensionibus ortam referre licet. Hujusmodi  
 sunt, Fames, sitis, tussis, singultus nec non sexuum  
 appetitio, quorum omnia ex certis corporis statibus,  
 vel quibusdam causis sensorium afficientibus,  
 oriuntur.

Itae cerebrum alienis corporibus solum excitatur,  
 sed potest etiam ab animo ipso (ut jam supra  
 diximus) sine impressionibus in corpus factis excitari.

Nemo certe est, qui magnam vim consuetudinis,  
 ad regendos corporis motus statimque ejus ~~modo~~  
 mutandum, non persentiat agnoscatque. Exempli  
 gratia, somni desiderium solita cubandi horae redit,  
 praecipueque, cum, per totum orbem siletur. Ita etiam  
 corporis labor continuus, requiem tandem postulat, et  
 requies post quoddam tempus elapsum, ad repetenda  
 caetera vite munia hominem corpore et animo repletum demittit.

Hinc musculi motus voluntarii lassitudinem patiuntur,  
 debilitatem



The first part of the paper is devoted to a general  
 consideration of the subject, and to a statement of the  
 objects to be attained. It is then divided into three  
 parts, the first of which is devoted to a description of  
 the nature and extent of the disease, the second to a  
 description of the symptoms, and the third to a  
 description of the treatment. The first part is  
 divided into two sections, the first of which is  
 devoted to a description of the nature and extent  
 of the disease, and the second to a description of  
 the symptoms. The second part is devoted to a  
 description of the treatment, and is divided into  
 two sections, the first of which is devoted to a  
 description of the general treatment, and the second  
 to a description of the local treatment. The third  
 part is devoted to a description of the prognosis, and  
 is divided into two sections, the first of which is  
 devoted to a description of the general prognosis, and  
 the second to a description of the local prognosis.



debilitatem pariunt; et requiem postulant, naturales vero vitalesque sine lapsitudine aut intermissione perquunt. Ex consuetudine oriuntur singulares illi gestus motusque corporis, quibus nonnulli homines utuntur. Ita quidam, in oratione dicendas, singulari quodam modo manus disponunt, et posituram totius corporis adhibent, qua res, etsi nullo modo ad eloquentiam conferant, prorsus tamen consuetudine necessaria facta sunt, ut in oratione suas progrediantur -

Deinde nervosum systema imitatione excitatur. Hoc equidem melius exprimere nequeo, quam, his verbis

“Ut videntibus arident, ita flentibus adflent  
Humani vultus?”

Sed diximus, nimiam excitationem debilitatem (vel quod idem est) virium vitalium collapsum parere. Atque debilitatem vini magnos potus sequi invenimus; nam ubi bibendo indulgetur, tunc, ut omnibus notum est, cerebri functiones perturbantur: vis rationis et iudicii acumen hebetantur atque retardantur; Atque gestus stulti sermonesque fere ridiculi fiunt; si ulterius bibatur, tum vero vires sensim deficientibus



The first part of the paper is devoted to a  
 description of the various species of  
 plants which are found in the  
 country. The second part is devoted to  
 a description of the various species of  
 animals which are found in the  
 country. The third part is devoted to  
 a description of the various species of  
 minerals which are found in the  
 country. The fourth part is devoted to  
 a description of the various species of  
 fossils which are found in the  
 country. The fifth part is devoted to  
 a description of the various species of  
 rocks which are found in the  
 country. The sixth part is devoted to  
 a description of the various species of  
 soils which are found in the  
 country. The seventh part is devoted to  
 a description of the various species of  
 climates which are found in the  
 country. The eighth part is devoted to  
 a description of the various species of  
 winds which are found in the  
 country. The ninth part is devoted to  
 a description of the various species of  
 rains which are found in the  
 country. The tenth part is devoted to  
 a description of the various species of  
 snows which are found in the  
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 a description of the various species of  
 snows which are found in the  
 country.



potator se ipsum sustentare nequit. Præcipuas  
autem ebrietatis indicia, nemo verius, nemo præsius,  
elegantiusque Lucretio depinxit:

“..... Hominem cum vini vis penetraverit  
Heris et in venas discepit diditus ardor,  
Consequitur gravitas membrorum, præpediuntur  
Crura vacillanti, tardescit lingua, madet mens,  
stant oculi, clamor, singultus, iurgia gliscunt.”

Vinum equidem, si moderate potetur, magnas præstat  
utilitates ad corporis vires confirmandas; (nam vitam  
quasi novam corpori ipsique animo dare potest) sed  
eodem nihil perniciosius, si modus absit. Quod quidem  
Plinius; “Nec viribus corporis aliud, si modus adest,  
utilius; nec aliud perniciosius vino, si modus absit.”  
Horatius ipse quoque usum vini immoderatum  
non laudat.

At quis modici transiliat murena Liberi...

Sic demique canit poetas Anglicanus;  
“Wine whets the wit, improves its native force,  
And gives a pleasant flavour to discourse:  
By making all our spirits debouair,  
Throws off the lees, the sediment of care;  
But highest Cordials all their virtue loose  
By a too frequent and too bold an use.”

Quidam







Quidam etiam animi affectus, inter causas collapsus frequentissimas enumerandi sunt. Istius generis praesertim sunt timor, et maestitia et diversi utriusque gradus.

“Nor less the labours of the mind destroy  
The solid fabric. . . . .  
But ‘tis not thought (for still the soul’s employ)  
‘Tis painful thinking that corrodes our clay.  
The mind with various thought amus’d,  
Nor aches itself, nor gives the body pain;  
But anxious study, discontent and care,  
Love without hope, and hate without revenge,  
And fear and jealousy fatigue the soul—  
Hence the lean gloom that melancholy wears;  
The lover’s paleness, and the sallow hue  
Of envy, jealousy; and the meagre stare  
Of sore revenge.”

Atinias vasorum sanguine distensio, qualis fit in apoplexia,  
(secundum nostrum Clarissimum Professore[m] Doct.  
N. Pottii, quo, nemo, omnium reverentia dignior,  
nec non inquisitor in morbosum curando) hanc  
systemas excitat, sed ejus actionem imminuit, atque  
omnia signa debilitatis prodit. Pari ratione,  
visceras







vicera, ex nimia distensione, nervis eorum compressis, fiunt paralytica. Absentia autem impressionum debilitatem collapsam parit, quod nullibi tam evidenter quam in somno, (quum cuncta secretiones minuuntur) apparet.

Impressiones nullae in nervos factae vel levis somno favent. Ita ubi silentium ac tenebrae regnant ibi etiam somnus. Quidam soni leves semper somnum conciliant. Hujusmodi sunt zephyri folia agitantēs, ac cantus avium in ramis arborum, apud fontis ripas undarum murmur, vox philomelae ab ulmo, aut lyrae cantus aut cithara. Cujus rei pulchram nobis imaginem Lyricus Poeta, Carmine de felicitate vitae rusticae depinxit:

“Libet jacere modo sub antiquas illic,  
 Modo in tenaci gramine:  
 Labuntur altis interrim ripis aquae;  
 Quercuntur in sylvis aves;  
 Fontesque lymphis obstrepunt manantibus,  
 Somnos quod invitet leves.”

Somni status exemplum est notabile vis nervosa diminutionis; nam motus cordis et arteriarum non cessat sed tardatur. Fatigatio laborque vim nervosi systematis imminuunt, Soporque invadit. Exempli gratia,







gratia, durus agricola qui quotidie in terra colenda  
versatur, nautaque audaces per omnia maria qui  
currunt, post labores peractos, cito obdormiscunt. Nam  
oculi jam dudum graves, paulatim connivent, denique  
occluduntur.

“Plauda quies furtim victis subrepsit ocellis?”

Omnia, qua cerebrum et nervosum systema stimulant  
excitantque, somno advenienti inimica sunt. Lux Coeli,  
cantus galli, et strepitus quiris homines suscitato somnosque  
 rumpeo solet. Oculi, <sup>adhuc</sup> connivent, sed brevi, musculis extremarum  
partium iterum iterumque extensis, Sopor omnino excutitur.  
Mens ad rem quamvis attentā, etiam horae cubandi nervosum  
systema stimulat et somni desiderium fugat.

Tentāmini huic jam finem imposituro nihil nunc  
restat dicendum, nisi ut Professoribus universis illustrissimis,  
qui almam hanc Universitatē, scientia, virtute, moribus  
suis ornant, gratias aquam amplissimē fere debitas, non  
solum, ob fructus cognitionis, quos ab eis utilissimos  
percepimus, verum etiam plurima consilia praestā-  
-tissima, non austeritate tristē dietata sed obvia illa  
sermonis comitate, qua maximē eminent aspersa; et  
in primis, eximio nostro Professore Pottē (cujus nomen  
sine reverentia nunquam nobis dicendum est.)

dignissimoque





dignissimoque Praeceptori meo, Johanni Buehler, quibus,  
 in arte medendi, perpauci, siquidem pauci, praesunt, quibusque,  
 nemo est, cui magis beneficiis devinctus magis grati animi  
 recordatione et amore conjunctus sim. Quantum alteri debeam,  
 propter praestantissimas instructiones, in praelectionibus  
 impertitas, verbis exprimere perdifficile est; Quantumque  
 alteri praeeptori fidelissimo, amico optimo, meo nunquam  
 ex animo effugiet —

Satis erit mihi, si hoc opusculum, Professoribus nostris  
 praeclarissimis, hisque viximis viris, quibus dicatum est,  
 non indignum esse videatur.

Tandem, valeas celebratissima Terra Maria Universitas,  
 sis incolumis et florens semperque, laus et nomen tuum  
 maneat: Vosque, Professores illustres semper honorandi  
 semperque colendi, valete; longa et felix sit vita:  
 Juventutem America lenire dolores, et morborum  
 furores compescere, pergitis docere, valete.





A.  
In  
Inaugural Dissertation

on  
Cholera Infantum

Submitted for Examination

to  
The Provost Trusters

and  
Medical Faculty

of  
The University of Maryland  
for the degree of  
Doctor of Medicine

by  
John R. Fergusson  
of  
Maryland

March 2<sup>nd</sup> 1891



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In contemplating the condition of man, while under the influence  
 of external agents: We viewing him as a being created and sustained  
 amidst the varied operations of causes incessantly tending to his destru-  
 ction: We not only cease to be surpris'd at the feeble resistance, which  
 he offers to the noxious properties of those causes, but come at last  
 to wonder at the tenacity of life. Thus surrounded and beset  
 by agents inimical to life, - insensible in their nature, known  
 only by their effects: We no longer wonder that men, whose minds  
 have received the best aids of education, should upon the subjects of  
 medicine betray an ignorant infatuation and superstitious credulity  
 characteristic of the untutored savage. That cause, which at the  
 present day, and found saturated with the elements of disease and  
 death should for a long time elude the detection of the most  
 skilful and inquisitive. Of all the calamities in the path of  
 disease to which humanity is obnoxious, perhaps, none has  
 excited more our sympathies, or more generally led the  
 physician to upbraid his profession with the incompetency of  
 its resources. than the subject of these remarks *Viz Cholera Inf<sup>a</sup>*  
 this disease occurring only in summer, makes its appearance first  
 generally, in June, and continues to prevail as long as hot weather lasts.



The following is a list of the names of the persons who have been  
 elected to the office of Justice of the Peace for the year 1850.  
 The names are as follows: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1851 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1852 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1853 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1854 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1855 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1856 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1857 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1858 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1859 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White. The names of the  
 persons who have been elected to the office of Justice of the  
 Peace for the year 1860 are: John A. Smith, James B. Jones,  
 William C. Brown, and Thomas D. White.



It is confined exclusively to children, and said by respectable authorities to be known only in and about Country. It is always distinctly febrile. In some rare instances the harbinger of the disease, is a slight chilly sensation, though chill properly speaking the ordinary phenomena is not one of the essential attendants. The disease most generally commences in a slow and insidious manner, commonly diarrhoea for several days, then attended by vomiting & loss of appetite is the order in which the symptoms display themselves. The Child soon becomes listless and indifferent to every thing around it, and even the toys, which used to hit its little mind in ecstasy of delight and through the medium of its own morbid changes the object of their wonted enchantment. The tongue becomes white, skin pale, pulsed frequent, vomiting and purging increased, and the evacuations which at first might have been colourless and frothy, soon become green, and in some cases black. Not that the stool unaided by medicine, thus early disengorges itself (and it is questionable if this could occur) but the peculiar aspect of the discharges is owing I think, to secretion *vis generis* from the stomach and bowels. For as to the colour the discharges of a Child in Cholera, and whether green and green, or black at first, they will soon become white or colourless, and in very many cases, the dejections will put an



The first of these is the fact that the  
 government is not a unitary system  
 but a federal one. The second is the  
 fact that the government is not  
 elected by the people but by the  
 members of the parliament. The third  
 is the fact that the government is  
 not responsible to the people but  
 to the parliament. The fourth is the  
 fact that the government is not  
 elected by the people but by the  
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 not responsible to the people but  
 to the parliament. The tenth is the  
 fact that the government is not  
 elected by the people but by the  
 members of the parliament.



his appeared without any exposure. But, by a similar process  
 exposure to the sun, or even to the air, of the discharges of a child  
 coming under ordinary bowel disorder, whatever might have  
 in their appearance when first voided, they will certainly, generally,  
 I believe always, assume a greenish hue, probably indicating  
 acidity. In the advanced or second stage of the disease, the pulse  
 becomes more frequent and small, heat partial, accumulated about  
 abdomen, and often, about the head, while the extremities become  
 or sometimes cold. The countenance looks pallid, features either  
 withered and apparently worn down by distress, or sharp and con-  
 vinctive indication of anxiety and ~~spasm~~ Tympanitic evolution of  
 abdomen soon follows, attended by so high a degree  
 sensibility, that the little sufferer cannot endure the tenderest  
 caresses of a fond and anxious mother. I think in a majority  
 cases, this condition of the abdomen precedes the more explicit  
 signs of cerebral pathology, and they might perhaps with propriety  
 be regarded, as standing, in the relation of cause and effect.  
 In other cases however, the symptoms of head affection present  
 themselves so early in the disease (and even before the painful  
 tympanitic distention of the abdomen is manifest) that grounds  
 are afforded for the belief that the exciting cause spent its force



The first of these is the fact that the  
 system is not a simple one, but a  
 complex one, involving many different  
 parts and processes. It is not a  
 single, unified system, but a  
 collection of many different  
 elements, each of which has its  
 own function and purpose. The  
 system is not a simple, linear  
 process, but a complex, multi-  
 faceted one, involving many  
 different levels of organization  
 and control. It is not a simple,  
 static system, but a dynamic  
 one, constantly changing and  
 evolving over time. The system  
 is not a simple, isolated one,  
 but a complex, interconnected  
 one, involving many different  
 parts and processes. It is not a  
 simple, linear process, but a  
 complex, multi-faceted one,



mainly upon the brain. I am disposed to believe, though observation  
 wanting to settle the question in my mind, that when the disease  
 will be fairly referred to heat, as the sole agent in the production of  
 primary symptoms, that is, when no other cause than a high  
 grade of temperature has existed to produce the affection, the cerebral  
 symptoms will present the highest grade of pathology, and generally  
 enter the state of abdominal Tympanites. Whatever may be the  
 fact in regard to this question, certain it is, that no very  
 considerable time intervenes between the two, and that when they  
 both present in a high degree of development, the ground  
 our hope is indeed narrowed. The first indication of  
 altered brain disorder, will I think, most commonly be found  
 consist in excessive heat about the head, with a proportional  
 falling off of temperature in the extremities, the temporal and  
 carotid arteries beat high, eyes look wild and vacant, child  
 raves while seemingly asleep, and often rolls its head quickly  
 in capriciously upon its pillow. Eyes become oblique, convulsive  
 movements, and soon put an end to the sufferings of the little  
 patient. Or else it sinks down into a dull lethargic Comatose  
 state with an apparent mitigation of all the symptoms  
 but after a period of uncertain protraction, its little spirit







suits its clayey tenement sooner, and brings its way to the  
 world of spirits. If the disease kills before the supervention of Coma  
 Chilo seems to die, more by exhaustion than extensive lesion. The  
 pulse becomes so frequent and quick, often sharp, as to be incalculable.  
 At when Coma comes on, the pulse loses its frequency and quickness,  
 not unfrequently, becomes even slower than natural.

Chilo falling a victim to the disease used the symptoms last  
 enumerated, will almost invariably be found to have died, by  
 effusion of water in some part of the Encephalon. Superadded to  
 symptoms above we not unfrequently find the alvine discharges  
 coming so acrid as to excoriate the rectum, and by a smearing  
 blood, simulate Dysentery. If the disease be not so  
 violent as to kill in either of the modes above mentioned  
 runs a slower course, or passes into what is generally  
 the Chronic Form, and here there is by far less danger  
 lesion in the brain. The Chilo now much more rapidly  
 acquires, because the Aliment however mixed, passes off  
 changed. Oedema makes its appearance, at the appear  
 the mouth, and toward the closing seen petechae or  
 rickles are seen in different parts of the body most  
 usually I believe on the Chest or abdomen.







In accounting for the mode, by which the disease kills, in its acute form, it will be seen I have made no mention of the gastric or intestinal pathology as revealed by post mortem examinations - although in a large majority of cases the symptoms belonging to that pathology appear first, the degree of inflammation found in the Stomach, bowels, and liver, will often be insufficient to explain the ~~gradual~~ mode of a fatal termination. But, in the more protracted form of the disease, these organs appear to bear the whole onus of disease, giving rise to thickening or ulceration of the mucous membrane, and in some cases even mortification. By far the most common morbid condition will be found to consist in ulceration giving I believe in the Muscularis glandas. But, although ulcerations may be commenced here, it not infrequently extends far beyond narrow limits of these little glands, and in some cases so entirely lifts off the delicate mucous tefur, as to give the appearance, as if an infinitely great defect had been taken away sometimes to extent apparently of an inch. In other cases the innumerable points of ulceration will be discrete, though so minute and often so aggregated as scarcely to be distinguished by <sup>the</sup> naked eye. Often they will tend to vary from this state of infinite minuteness, in different respects, and often indeed in different portions of the intestinal Canal in







the same subject, up to a large surface of continuous abrasion.  
 In some cases, the delicate mucous tissue bounding these ulcers, will be  
 found exhibiting a slight inflammatory blush, whereas, in others,  
 they seem to be elevated above the surrounding level, and exhibit a  
 cart like aspect. This diversity of appearance, seems to depend more, on  
 duration of the change, than upon the degree or intensity of the action  
 which it is owing. The uniform appearance of this kind of degeneration  
 of the muciparous glands of the Stomach and Duodenum, (most common  
 of the latter), has led Dr Horner in his pathological anatomy to presume  
 that the essential pathology of this affection consists in an inflammation  
 first set up in these little bodies. With all due reverence to and  
 to who has indefatigably devoted himself to the culture of medicine; I  
 would respectfully ask, if the Dr may not like Broussais have mis-  
 taken effects for causes? It seems to me probable that the subjects, from  
 which the plates (representing this kind of degeneration) were taken, must  
 have died in the chronic form of the disease; for so far as my observation  
 extends ulceration does not obtain in the acute stage. nor is it  
 a necessary thing in the chronic: (yet Dr Horner sets it down as invari-  
 able). In some cases of the chronic form of this disease the mesenterick  
 glands become first enlarged, and are afterwards found nearly  
 liquefied, or hard and looking much like chesed. I think it not



I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the  
 matter of the application of the late Dr. [Name] for a license to practice medicine in the State of  
 New York. The Board of Regents of the University of the State of New York, in conformity with  
 the provisions of the laws in that behalf made, have the honor to inform you that the  
 application of the said Dr. [Name] is hereby approved, and that he is entitled to a license to  
 practice medicine in the State of New York, which license shall be valid until the 1st day of  
 January next. You are requested to deliver to the said Dr. [Name] the said license, and to  
 inform him of the same. Very respectfully,  
 Your obedient servant,  
 [Signature]



improbable, that when these glands are found in this Condition  
 Truma may generally be found lurking in the Constitution,  
 though I have no doubt it may exist, and certainly does independ-  
 ntly of such a diathesis: For we know that any high degree of  
 irritation long continued, will frequently produce enlargement  
 of the Lymphatic system, sometimes producing a change in their struc-  
 ture, at other times producing distinct suppuration. Since thus post  
 mortem examinations so often detect structural lesions in  
 parts, whose healthy offices are absolutely essential and indispensable  
 to the well being of the Animal: A Comorbid, we need not upbraid  
 ourselves of ignorance or impotency, when we fail to cut short  
 obstinate diarrhoea, oedema, emaciation, and the long train  
 of melancholy phenomena inseparably connected with a state  
 beyond the reach of medicine, and I had almost said necessarily fatal  
 structural lesions of parts intimately associated with life, ~~and~~ whose  
 functions, in toto, cannot be suspended even for a time, without inflic-  
 ing injury upon the system, must always be attended by danger and  
 imminent of death. Such is the Condition of the Heart, such the Condi-  
 tion of the lungs, and such in no small degree is the state of things with  
 the Stomach and intestinal Canal. Constantly called into action for  
 support and maintenance of the general system it has no







opportunity afforded it to rest quietly from its labours, and call in its aid the healthful resources of other organs. Now it is that a large kind of the intestinal tube has been said to have mortified, and to have cast off by itself without causing more than a temporary inconvenience.

But how the cause which produced the lesion was local (I allude to strangulated Hernia) but it is a question exceedingly doubtful, and in my mind, whether or not mortification, or even ulceration of the Charac we see in the disease before us, attended as it most commonly by a falling off in all the functions of the animal Economy, or ever does heal or reunite. Bichat I believe thinks it never can.

In question however I cannot be expected to settle; it has enlisted experience and talents on both sides, and so far as my knowledge extends I have sub judice it rest. It has been and now is, supported by highly respectable Physicians, among whom may be mentioned Andrieux and Rush, that marsh miasma is one of the fruitful sources of Cholera Infantum. But however plausible, this opinion might and has been, it seems to me to be satisfactorily substantiated by the fact that this disease is much more rife in summer, before marsh miasma, which is the product of vegetable decomposition even begins to be evolved. It prevails also in locations, where marsh effluvia and its diseases scarcely exist. That beyond a question of doubt is



I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the  
 matter of the estate of the late John Smith deceased. I have the pleasure to inform you that  
 the same has been referred to the proper authorities for their consideration. I am, Sir,  
 very respectfully,  
 Your obedient servant,  
 J. B. Smith



A.

11.

the Common predisposing, and not unfrequently the exciting Cause  
By the continued operation of a high degree of temperature general  
Languor and debility are produced, giving rise to Congestion in the  
vascular tissue of the Stomach, bowels and Liver and in some cases  
the brain also. In a majority of cases, something superadded to heat is  
necessary to excite the disease, and among these denudations may, must of  
all, improper articles of food or drink, impure milk of mothers or  
nurses, worms, or impure air &c. It is supposed by Brown and  
his followers, that as heat produces indirect debility & excitability is  
lessened, whereas the very Course of the case is true; for an article  
of food will excite vomiting and purging, and the whole train of  
symptoms belonging to this disease after the action of heat, which  
from its operation the child might have taken with impunity.  
The French in this Country have much less Cholera than the Americans,  
because, they use flannel, and remove the debility on which the  
disease depends by the use of the cold bath. Could the cold bath be  
generally employed subject to prudent discrimination, I am  
disposed to believe the list of mortality from this dire Calamity  
could be lessened in a ratio proportional to the extent of its  
judicious employment. It certainly is the duty of every  
Physician to extend his influence as far as possible



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 County of ... in the year 18... The names are as follows: ...



to impress upon the mind of every mother the absolute necessity  
of guarding with care and attention the diet of her little ones. For little  
maternal tenderness suspect, that in diet, Compositions for the  
stimulation of appetite often contain <sup>the rudiments of</sup> disease and death. In  
combating the symptoms of this disease, if we are called to attend  
children in populous cities, or crowded Hospitals, the Ventilated  
Circumstances, allow us to employ the surest means in the  
shortest time; dispatch at once the little sufferer to some sequestered  
Country, where he may enjoy the full benefit of a pure  
salubrious air, protected as far as possible from  
vicissitudes of temperature, but especially withdrawn from  
the influence of Heat. Not unfrequently, by taking advantage  
of this seemingly trivial Circumstance, we shall at once  
vanquish the monster disease in its nascent state.

If however our services are still required, we should recollect  
that this is a disease in which, no time is left for Change or  
trial of remedies. For unless our first efforts are skillfully aimed  
the artifice or science will prove abortive. If then our  
patient be recently attacked, and we find him puking and  
vomiting as, under these Circumstances we generally will, we  
could not like some have done before us, supposing







offending matter in the stomach add fuel to the fire  
 of cramping and little suffers with a brisk emetic. Nor can  
 daw as in Cholera of adults to pour down Laudanum in  
 gigantic doses till we shall have subdued the disease. Now  
 that I have already said in regard to the great liability to  
 affection, no additional emphasis seems to be required  
 condemning as worse than hurtful the practice of opium  
 inhibition. But even waving this strong tendency to brain  
 congestion, (of which the practitioner should never lose sight)  
 very condition, on which all the morbid signs depend and  
 engrafted, could not possibly be alleviated but must necessarily  
 be rendered worse by opium. For so long as congestion  
 the portal circle remains, all the opium the patients stomach  
 and contains would be inadequate to stay its irritability,  
 but by destroying its vitality. We must then look abroad  
 search of some other article, which while it quiets the  
 stomach removes the foundation, on which its irritability  
 is built; I mean congestion. Perhaps, no remedy of which  
 I have any knowledge, so happily blends these qualities as  
 the Mucous Hydragoric or Calomel. And, although this  
 point is conceded on all hands, few there are who agree



I have been thinking much of late  
 of the state of the world and  
 of the progress of the human  
 mind. It seems to me that we  
 are in a state of transition  
 from a barbarous to a civilized  
 state. The progress of the  
 human mind is slow but  
 steady. It is not a matter  
 of days or months but of  
 centuries. We are now in the  
 midst of a great change. The  
 old order is passing away and  
 a new one is coming into  
 being. It is a time of trial  
 and tribulation. We must  
 be true to our principles and  
 stand firm in the face of  
 all opposition. The future  
 is bright and full of hope  
 for those who are true to  
 their duty. We must not  
 be discouraged by the  
 present state of things. We  
 must have faith in the  
 future and in the power  
 of the human mind. We  
 must strive to improve  
 ourselves and our fellow  
 men. We must be true to  
 our principles and stand  
 firm in the face of all  
 opposition. The future is  
 bright and full of hope  
 for those who are true to  
 their duty.



14.

to the best mode of its exhibition. Some contend that soon as you have the first warnings of the affection full and decided impulsion must at once be made: While others give the propriety of small doses frequently repeated. It would seem to be rather difficult to settle this dispute for each party adduces own experiences and observation in support of its principles - and so is the disparity between them that an harmonious compromise to scarcely be hoped for. The fashion of generalizing in medicine perhaps too prevalent, and, in many instances I am disposed to believe does no good - It is certain that in many cases of the disease question, so much is the patient worn down by the continual operation of a high temperature that the debilitating effect of a full dose of Calomel would at once depress him below the point of healthy reaction. Yet it is equally true that in some cases, we can tempt to bleed with advantage, and surely such cases will prosper under a half or a quarter of a grain of Calomel three times a day. Trifling and inefficient as the action of half grain doses three a day may at first seem, it is that in a large majority of cases it is the safe and proper mode of proceeding. There is something sensible in the operation of Calomel, for without producing







ny sensible evacuation, it quickly puts a stop to all the  
 symptoms of the disease. Often after the exhibition of a few  
 in the small quantity above specified, from being prostrate  
 anemic and lethargic, the little sufferers will promptly erect itself  
 the vivacity of health again. True it is there are cases in  
 which we can effect nothing. But this we find true in every disease  
 and Intermittent fever, though generally regarded as harmless,  
 sometimes from the very beginning, wears upon its front the  
 prep of fatality. It will be obvious that by these general  
 marks, I mean to apply this practice to the disease as it gene-  
 rally appears and not to particular cases, which from peculiar  
 circumstances often require a special management: Such  
 as instance as Cholera excited and kept up by unimpaired  
 milk or tedious dentition or any other plain and palpable cause -  
 or here common sense would dictate the first step to be taken  
 Restore the child pure milk, or scarpify its gums. Indeed it  
 has been highly recommended by some, to employ scarification  
 every case, as one of the means, by which to quiet irritation  
 the stomach and bowels - alleging that the small quantity  
 of blood thus abstracted will often be found eminently  
 serviceable. In addition to the means already cited we shall not



The first of these is the fact that the  
 government has not yet decided upon  
 a definite policy in regard to the  
 tariff on raw cotton. It is true  
 that the tariff on raw cotton has  
 been reduced from 10 to 5 cents  
 per pound, but this is only a  
 temporary measure. The government  
 has not yet decided whether it  
 will continue to reduce the tariff  
 or whether it will raise it. The  
 fact that the tariff on raw cotton  
 has been reduced is a sign that  
 the government is leaning towards  
 a policy of free trade. However,  
 the government has not yet decided  
 whether it will continue to reduce  
 the tariff or whether it will raise  
 it. The fact that the tariff on  
 raw cotton has been reduced is a  
 sign that the government is leaning  
 towards a policy of free trade.



infrequently find a valuable adjuvant in the judicious employment of the warm bath. When we have preternatural distension of the surface, painful evolution of the belly by gases and a restless inquiet throwing about in the bed, attended by a sharpness of contraction of the face, if we can opportunely place our patient in warm water for a few minutes and produce a slight relaxing effect, at the same time the Calomel is producing a soothing gently aperient influence. I think in many cases the fate of the case will be determined in our favour. It might be inferred from what has already been said that the general plan of purgation influenced is of doubtful efficacy. Under all circumstances

Sulph. Salt, Butter not so highly lauded by some, and the whole class of purgative agents except Calomel must be withheld. True it is that an accumulation of morbid secretions will irritate as long as they are retained. But these are qualities which often be found sufficient to provoke a quickened action of the intestines, or if not we may exhibit a small quantity of Gum Resin for it certainly possesses some virtue of protecting the highly excited mucous surface over which it passes. The use of the bath in cases in which the head is highly concerned, if not always inapplicable at least requires an additional caution







Perhaps Leeches and Cold applied to it and the abdomen, while  
drip is made by means of some exciting warmth to the extreme  
wounds under nearly all such circumstances promised more  
certain relief. ~~It~~ Come now to speak of the mode of treatment  
most to be relied on, after the disease has passed the stage of active  
excitement and immediate danger. Although a wider range  
of remedial agents is left us, perhaps nothing now remains to  
do that can avert the final accomplishment of a fatal case.  
The great dread of head affection has now commonly subsided  
though even in the chronic form the brain labours under the consequences  
of previous exalted excitement. But in the general we are not  
tired from the entire use of Opium in some of its less exceptionable  
combinations with other means. Calomel which was once our chief  
hope, now promises little, unless some hepatic obstruction has  
not been left behind. The cure of the disease is now thrown upon  
mucous life mainly of the small bowels. Hence obstinate death  
while vomiting is now rare. Our means must now be of  
cordial kind, bland nutritious food, and in some cases slight  
stimulents may be given with advantage, though they should  
be of the least exciting kind. Frictions over the abdomen  
of exciting the surface, which is now universally pale and







18  
need often benefits, while the feet are immersed in some excitant agent  
to nitro muriatic acid bath. This indeed will be found an excellent  
if any engorgement remains about the liver: not only in this affection  
in many others, when we wish to excite the skin, and promote  
the secretion. The Flowers of Zinc in small doses from half  
grain to one or two grains in union with a fractional  
part of opium will sometimes stay the bowels, when nothing else  
If this should fail, we may add  $\frac{1}{2}$  gr Clove powder or even a  
in some cases. The Chalk Mixture is often signally benefi  
The Bark Linctus has been recommended in this state, often  
and upon each renewal moistened with Whiskey or brandy.  
If the diarrhoea and emaciation with all the concomitant associated  
Symptoms depend as they frequently do upon an ulcerous condition  
of the mucous tissue, I fear all our remedies will be alike useless,  
except so far as they may afford a temporary relief from pain,  
even this is something, and since a possibility of recovery is  
not out by some Let us not despair till all is lost

Respectfully

John Sturgeon







No. 2 Dent

Fracture of the Neck of the  
Femur



17  
The  
of  
the  
the

An Inaugural Dissertation  
on Fracture of the Neck of the Os Femoris.  
within the Capsular ligament.

Submitted  
to the examination of the  
Provost ~~and~~ Medical Faculty  
of the University of Maryland,  
for the Degree of Doctor of Medicine;  
by Stouten W. Dent  
of Maryland.



*[Faint, illegible handwriting]*

*[Faint, illegible handwriting]*

A.

12

A Dissertation on Fracture of the Neck  
of the Femur within the Capsular Ligament.

Every fracture to which we are subject is attended with inconvenience both to the patient and Surgeon, but none more than the one under consideration. The Surgeon is oftener foiled in the treatment of this than any other; so often indeed are Surgeons foild in this fracture, that many have come to the conclusion, that it cannot unite by specific matter under any circumstances. The Patient is doom'd to be an invalid the remainder of his life. But, if Surgeons in former days have been foild, that should not prevent the younger of the Profession from attempting to restore the limb to a sound state, and even if we fail, it cannot possibly cast any reflection on us as skilfull men, since so many have fail'd before us, and should





1st. The Hip Joint is composed of two bones, the Os Innominatum, and the head of the Femur. There is a large cavity in the Innominatum, called the acetabulum, from its supposed resemblance to a cup used by the ancients to hold vinegar. This cavity has a ligament arising from its edges, which surrounds the head of the Femur and is inserted into its Cervix near the Trochanter Major, which is called the Capsular ligament. It has a round ligament arising from within the acetabulum and is inserted into a depression in the head of the Femur. The Fracture of which I design to treat, takes place within the Capsular ligament -

2ndly. The characteristic marks of the Injury, are as follows viz. The limb injured is from two to three inches shorter than the other, and if the patient has been trying to stand or walk on it, so as to relax the  
ligament



The first thing I noticed when I stepped  
 down the stairs was a heavy weight  
 of the air. It felt like a giant hand  
 was pressing down on my shoulders.  
 I tried to breathe but the air was  
 so thick it felt like I was swimming  
 in a sea of lead. My chest ached  
 and my head spun. I wanted to  
 run but my legs felt like they were  
 made of jelly. I stumbled and  
 fell onto the floor. The world  
 around me blurred and I could  
 hear a faint voice calling my name.  
 I tried to get up but I was too  
 weak. I closed my eyes and  
 waited for death. But when I  
 opened my eyes again, I was  
 still there. The air was lighter  
 and I could breathe again. I  
 looked around and saw that  
 I was in a different place. The  
 walls were made of a soft, glowing  
 material. The floor was like  
 a warm blanket. I felt safe  
 and at home. I had found a  
 new world. A world where I  
 could be whoever I wanted to be.  
 I smiled and knew that this  
 was my chance. My chance to  
 start over. My chance to live.  
 I took a deep breath and  
 stepped forward.

ligament, it becomes as much as three or four inches shorter, the Foot and Knee is erected, the Patient cannot bear any weight on the injur'd side without pain, the rotundity of the Joint is in some measure destroyed. If you attempt to rotate the limb, the Patient complains of some pain, owing to the rough surface of the fractur'd bone rubbing against the smooth surface of the Capsular ligament; also the bone may be felt on the ilium, particularly, if the accident has occur'd for some days and the patient has been trying to walk, or pressing much on the injur'd limb so as to relax the ligament, the muscles will draw it up. In ordinary cases where the patient has not exercised much, or the accident has not long occur'd, the fractur'd bone will be found resting on the edge of the acetabulum and ilium above it. If the Patient be placed on his back, and

(compare)





Compare the malleoli, we can best observe  
the difference in the length of the limbs,  
the head of the injured limb will be found  
to rest in the hollow between the malleolus  
Internus and tendo achillis of the other limb.  
There is three causes why the <sup>limb</sup> is everted -  
first - The natural tendency of the limb,  
which is to fall outwards - Secondly - The  
rotatory muscles which carry the limb out-  
wards, which are, the Obturators, Pyramiformis,  
Gemini, Quadratus, Pectoralis and Triceps,  
those muscles all have that tendency, the  
principal opponents are part of the Gluteus  
Medius & minimus and the Tensor Vaginae  
Femoris - Thirdly and lastly - the fractured  
portion of bone resting against the Plum  
operates mechanically, so as to prevent  
the Fracture from being drawn inwards.  
There may also be a Crepitus discover'd,  
by extending the limb, so, as to bring the  
fractured portions in apposition, the limb





is easily extended, but so soon as the force is taken away, the limb is drawn up again to the former situation.

3<sup>rd</sup>ly This Fracture rarely ever occurs until at a late period of life, according to a late writer, out of two hundred and twenty five cases, there was only two under fifty years of age, but from fifty to eighty is the time of life they usually occur. Females are more subject to them than males, owing, to the greater width of the bones. The reason they are more apt to occur at this time of life, appears to be owing to the bones becoming thin and brittle, in consequence of absorption being greater than the deposition. The most trivial circumstances generally cause them - such, as walking on foot pavement, and slipping suddenly off. I once knew an old Man, by kicking at his dog, the animal at the same time getting between  
(his





his leg, threw him, the result of which was,  
he arose with the neck of the Femur fractured.  
4thly. Distinction between this and fracture  
without the capsule. In Fracture without  
the capsule, there is considerable tumefaction,  
the limb is not generally so much shorten'd,  
as in the other case, it does not require so  
much extension to produce crepitus as in  
the other case, and is attended with more  
pain than in the former. Happens earlier  
in life, and requires greater violence to affect it.  
5thly. From dislocation, it may be distin-  
-guish'd, by the Foot being inverted, and by  
the bone being permanently placed on the  
dorsum of the Gluteum, in this case you  
cannot extend the limb, nor can you  
rotate it easily, besides, you may feel the  
head of the bone, and there is no crepitus,  
this, also occurs early in life -

(Sixthly)





A.

8

Sixthly and lastly - In the treatment of this formidable Fracture, the limb should be kept as quietly as possible, The best apparatus for this purpose, is the apparatus of Dr. Smith - I cannot do better in describing this apparatus, than give the Dr's own words, taken from his Medical Journal No 8. "The material which I prefer, is the very thick binder's board. This I cut in two pieces, one for the thigh, and the other for the leg. The thigh piece ought to be, for an adult, about sixteen inches long, thirteen inches broad at its superior extremity, and ten at the lower. The leg piece should be about nineteen inches long, and ten broad at both extremities. These pieces, are then to be very slightly moistened with a wetted sponge, or cloth, and then to be bent into a femi-cylindrical shape with the hand. The concavity, however, should be a little  
(deeper





deeper than a semi-cylinder, in order  
that the sides may rise a little above the  
middle of the thigh, and be somewhat  
flattened. I have been accustomed to  
shape these pieces on blocks of wood of the  
proper form. I warp them over these whilst  
moist, and binding them firmly with a  
cord, leave them till they are dry, when they  
will retain their shape permanently. The  
block for the leg may, if a very apparatus  
be desired, be shaped, at its upper and back  
part, like the calf of the leg, swelling out  
like it. When the board is bent upon it  
and properly moulded, it will be adapted  
to the calf of the leg.

The upper part of the thigh piece is now  
to be carefully pared away, in such a manner  
as that, when it is applied to the member,  
the superior margin shall be properly  
adjusted to the perineum on the inside, and  
to the tuberosity of the ischium behind.





On the outside it may be suffered to project in the form of an angle a little above the trochanter. It is obvious that it must be deeply cut away on the inside, to fit the perineum. A glance at the plate will give a better idea of this than words can convey. The lower extremity is also to be truncated obliquely, so that the lower convex part shall not project so far as the angle, by about an inch and a half.

The angle of the thigh piece, which projects above the trochanter, is now to have a piece attached to it, which may extend up along side of the body, and be bandaged to it. Sometimes I have done this by nailing a piece of wood to the side of the splint, so as to make a suitable angle. But the better mode is to use a piece of iron, of the thickness of an eighth of an inch. This may be made without a hinge, having an angle at the corner of the thigh piece, the  
(lower



The first of these is the  
 fact that the  
 number of  
 cases of  
 the disease  
 has been  
 increasing  
 steadily  
 since the  
 beginning  
 of the  
 year.

The second is the  
 fact that the  
 disease is  
 spreading  
 rapidly  
 from  
 the  
 coast  
 to the  
 interior.  
 The third  
 is the  
 fact that  
 the  
 disease  
 is  
 being  
 carried  
 by  
 the  
 wind.

lower leg of it being four or five inches long  
and applied to the side of the splint - the  
other, six or eight inches long, and ascending  
on the side of the body; - or there may be a  
hinge made at the angle, by merely making  
the two pieces, which there will then be, a  
little broader, and rivetting them together  
at the angle. This will enable the operator  
to adjust the angle to the attitude of the  
limb. The lower piece of this hinge may  
be continuous with the piece which extends  
down to the lower extremity of the thigh  
piece, to fortify one of its angles there; this  
will render the whole firm.

The iron should have numerous small  
holes made in it. - Through these it is to be nailed to  
the splint, which can easily be done, with  
great firmness, by placing an iron upon  
the inside of the splint, and clenching the  
tacks securely on the inside. - The upper  
piece of the iron hinge is to be nailed,  
1 in



I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the above mentioned matter. I am sorry to hear that you are unable to attend to the business of the office at present. I have no objection to your absence, and will endeavor to do all the business that may come before me during your absence. I will also endeavor to get the papers of the office in order as soon as possible. I am, Sir, very respectfully,  
 Your obedient servant,  
 J. M. [Name]

in the same manner, to a piece of binder board,  
a little broader and longer than itself, and  
then to bent a little inward.

The two longer angles of the thigh-splint  
are also to be fortified with thin pieces of  
iron, extending up, along the sides of the splint,  
on the one on the inside about six inches -  
that on the outside continuous, with the hinge  
above. They should project beyond the  
angles, about two and a half inches, and  
be pierced with holes half an inch apart.

When the thigh piece is applied to the  
perineum and tubes of the ischium, the  
margin should be wrapped with three or four  
folds of soft, old blanket, and this covered  
with lather.

The leg-piece should be shaped at its  
upper extremity like the lower end of the  
the thigh-piece, and fortified in the same  
manner with pieces of very thick sheet  
iron; these however, not projecting beyond  
the



The first thing I did was to  
 go to the bank and see  
 how the money was  
 getting on. I found  
 it was all right  
 and I was glad  
 to see it. I then  
 went to the office  
 and saw the  
 manager. He told  
 me that the  
 business was  
 going on well  
 and that he  
 was satisfied  
 with the  
 results. I then  
 went to the  
 bank again and  
 saw the  
 cashier. He  
 told me that  
 the money was  
 all right and  
 that he was  
 glad to see  
 it. I then  
 went to the  
 office again and  
 saw the  
 manager. He  
 told me that  
 the business  
 was going on  
 well and that  
 he was  
 satisfied with  
 the results.

A.

the angles, nor having holes, but, instead of them, having short strong pins projecting ~~beside the angles, nor having holes,~~ but, instead of them, having short strong pins projecting) from the outside, adapted to the holes in the irons attached to the thigh piece. I think it well that the concavity of the upper end of the leg-piece should be a little deeper than that of the thigh.

When I have been desirous of making the apparatus a very complete one, I have appended to it a contrivance for forcing the thigh and leg pieces at any angle that might be desired. This consists of two pieces, which are attached, the one to the thigh piece, and the other to that of the leg. The former is a piece of flat steel three fourths of an inch broad, and about ten or twelve inches long. At one extremity it is broad and pierced with holes, for  
(nailing)





making it to the back part of the thigh  
piece. The other end is narrower, and at a  
quarter of an inch from its extremity, it is  
bent up at a right angle. The piece when  
attached to the thigh-splint projects be-  
-yond it, down four or five inches, on the  
back part of the leg-splint. It should  
have a spring temper. The piece attached  
to the leg-splint is merely a piece of sheet-  
-iron or tin, fastened to the back part of  
the leg-splint. In this there are transverse  
slits, half an inch apart, to receive the  
bent extremity of the spring. Whenever the  
leg-piece is bent upon that of the thigh, the  
spring will catch in one of these slits and  
immediately fix the two splints at a  
permanent angle; and by adjusting the  
spring to one or other of these holes, they  
may be fixed at any desired angle.

I would observe, that in using tacks  
on the binder's board, for the purpose of  
fastening





A.

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fastening the various appendages, a little piece of leather should always be put under the head of the tack. When this is done they hold very securely.

When the various pieces of the apparatus are thus put together, the paper should be brushed over with strong glue-water, and as often as it dries this should be repeated three or four times. At last it should be varnished with black spirit-varnish used by saddlers, to prevent its imbibing moisture, and sticking to the limb and the bandages.

The mode of applying the above apparatus, is very simple, you place a linen cloth within the pithing piece, to keep the skin from contact with the splint. You place across the leg-piece, two bands of linen, one of these, is across the upper part of the leg-splint, just below the joint, and is suffered to drop deep in the cavity of the splint, but not to the bottom, if it supports the  
(upper





A.

16

upper part of the leg - the other band,  
is to be laid in the same manner, at the  
part which will receive the ankle, and  
will prevent the heel from touching the  
splint; a circumstance which creates pain  
and may cause displacement of the  
fractured bone. Now, the limb is to be  
raised, and kept distended at the same  
time; the thigh piece is first adjusted  
to the limb, then the leg-piece, after  
placing the limb in the splint, it will  
be perfectly quiet, and you proceed to  
apply the bandages, one, for the leg - the  
other for the thigh, each of which, is  
to be, about four yards in length -  
commencing with bandage at the foot,  
it is continued to the knee, when, you  
commence with the other, above the knee,  
and carry it to the body, taking care  
to confine the splint to the body, in  
order, that when the body moves, the  
splint





17  
splint also move, consequently, prevents  
displacements of the fractured bones - After  
applying the apparatus, the patient should  
be kept quiet as possible, the bowel, should  
be kept soluble by laxative medicine, or  
by injections, the patient should have  
nourishments, that are mild and easily  
digested - Although, we are told, that  
bony union never will take place, yet, I  
am apt to believe that it will, at all  
event should I ever meet with a case, I  
will try to effect such a union, but, I  
should not promise to my patient, too  
much success, there cannot any harm  
arise from attempting to restore the  
limb, and there might be a good deal of  
good - With these remarks, I shall con-  
clude this subject, confidently believing  
that the time will be, when this fracture  
will be as little thought of, as any other  
to which we are subject -



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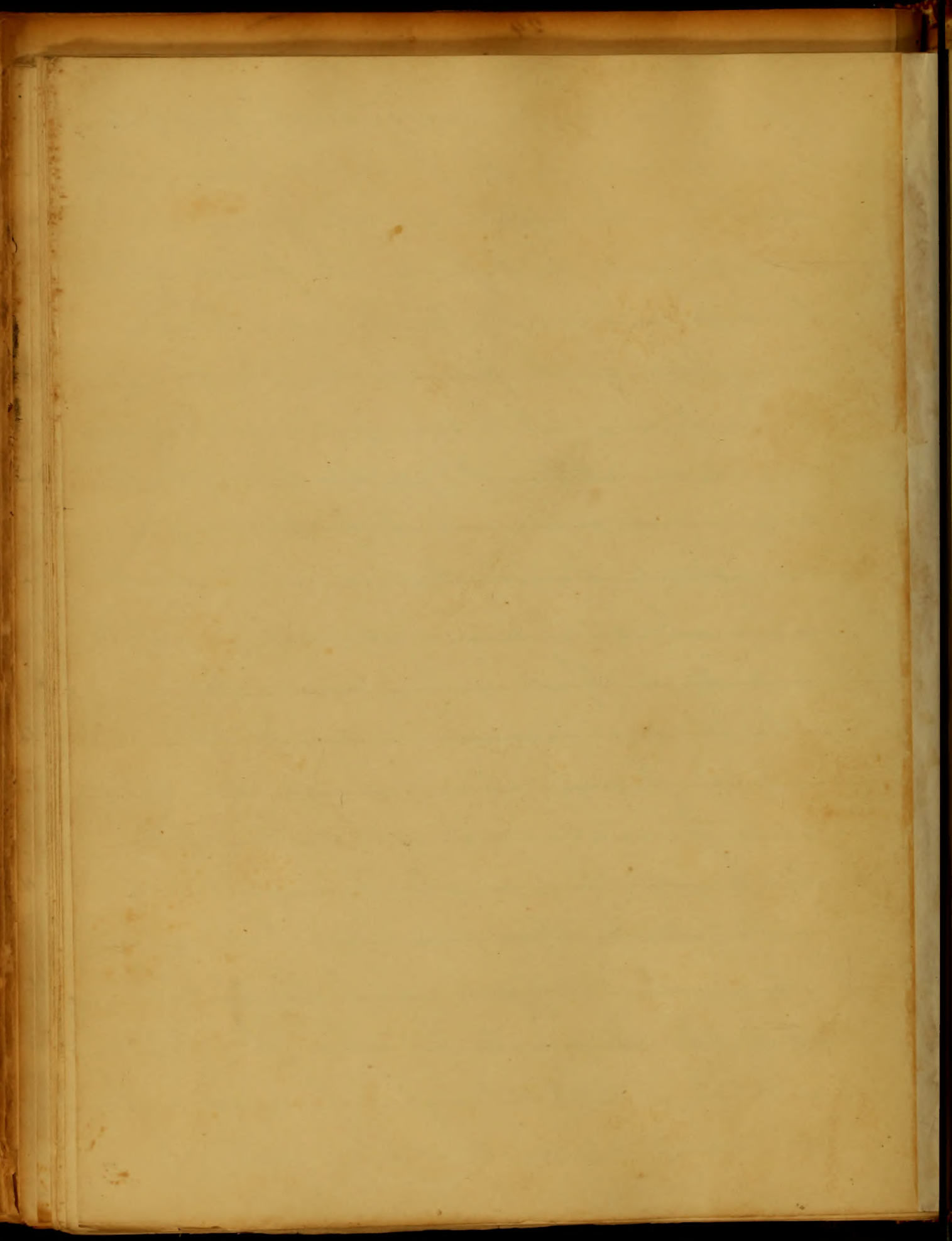
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An  
Inaugural Dissertation  
On the Effects of Music  
In Curing and Palliating Diseases,  
Submitted

To the Examination of the  
Provost, Trustees, & Medical Professors  
of the University of Maryland.

For  
The Degree of Doctor of Medicine  
On the 3<sup>th</sup> Day of March 1831.

By  
William H. Selby  
Of Maryland.

---

"There is a charm, a power that sways the breast  
Bids every passion revel — or be still;  
Inspires with rage, or all our cares dissolves,  
Can soothe distraction, and almost despair;  
What power is Music?" — Armstrong.

---





To. Nathaniel Potter M.D.

2.

Professor of Theory & Practice of Medicine  
In  
The University of Maryland.

Dr. Sir.

A public declaration of the pleasure and satisfaction which I have derived from your instruction, is only announcing to the world, what I presume you have intimated yourself; and in a more improper & satisfactory manner than formal letters could convey, or inadequate language express.

Permit me therefore to dedicate to you, as a mark of Gratitude, friendship and esteem, this imperfect Essay.

The Author —



at present the...

...of the...

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the...

To Samuel Barco M.D.

And

Elisha DeButts M.D.

Professors in the

University of Maryland.

To commemorate

The particular favour and Attention

with which

He has always been honoured from them

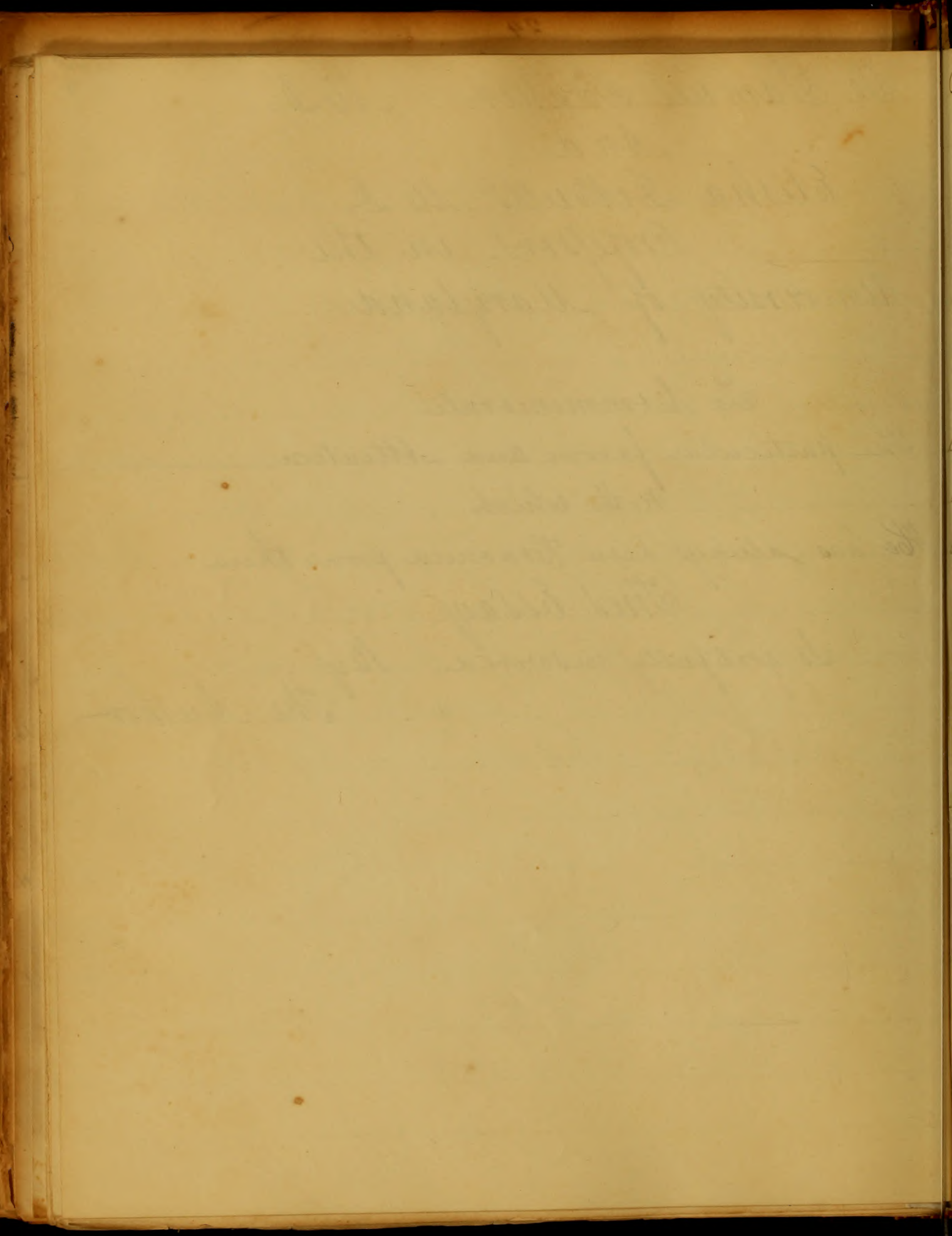
This Essay

Is gratefully inscribed.

By

The Author





To.

4.

Nathan R. Smith M. D.  
Professor of Surgery  
In the  
University of Maryland.

Sir

In prefixing your name to this essay, I have only fulfilled a duty, which every pupil owes his Preceptor, but should accuse myself of ingratitude, were I to pass over obligations of a Superior nature unnoticed. As it was from your friendly counsels, and generous exertions, that I learned to appreciate the Superiority of intellectual acquirements; but for your liberal & disinterested zeal, Science, would to me have been an empty and unmeaning sound. Under your tuition I have had the most extensive opportunity of improvement, in that profession so successfully pursued by yourself, and to which, my future life will be devoted. I feel indebted to you for the basis of those principles, which are to conduct me in the arduous, though pleasing task, of alleviating the distresses of humanity. Permit me therefore to dedicate to you as a mark of gratitude, friendship & esteem this imperfect Essay, the first product of a Medical education, conducted under your direction.



1840  
The University of Cambridge  
Library

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and be assured it comes from a heart deeply impressed with a sense of its obligations, for your Goodness,

Please to accept also Sir of my warmest acknowledgments for the many opportunities of improvement afforded by yourself, and believe me, the many pleasing proofs of disinterested friendship & polite attention, with which you & your amiable Consort honored me during my residence in your family, will ever be held in lively recollection. With unfeigned wishes for your future health and happiness, together with an extension of that professional celebrity to which you may do justly lay claim I subscribe myself, your ever grateful

friend & Pupil  
The Author



The first part of the paper is devoted to a  
 description of the general appearance of the  
 country, and the nature of the soil. It is  
 a fertile soil, and the climate is  
 temperate. The principal occupations of  
 the people are agriculture and stock  
 raising. The principal articles of  
 commerce are wheat, corn, and  
 stock. The principal cities are  
 New York, Philadelphia, and  
 Baltimore. The principal rivers are  
 the Hudson, the Delaware, and  
 the Chesapeake. The principal  
 mountains are the Allegheny, the  
 Blue Ridge, and the Appalachian.  
 The principal lakes are the Great  
 Lakes, and the St. Lawrence.  
 The principal bays are the Chesapeake,  
 the Delaware, and the Hudson.  
 The principal harbors are New York,  
 Philadelphia, and Baltimore.

James M. Smith  
 New York



# On The Effects of Music &c.

In entering <sup>upon</sup> the subject of the present Essay, I full as if  
were about to tread a path thickly strewn with thorns, but  
was encouraged at the same time by the hope, that fortitude will  
enable me to withstand the severity of their points, though I  
could not succeed in obtaining them. From the subject I  
have selected for the following thesis, It may be expected  
of me to enter <sup>upon</sup> the consideration of the mutual influence which  
exists between Body and Mind, but as it will be read by none  
so ignorant of their intimate connection, it would be in-  
fringing their understanding, and imposing on their patience to  
read any time on it. Great indeed is the goodness of providence  
in various parts of his benevolent plan have been unfolded,  
though the aid of scientific exertions, and doubtless many impor-  
tant discoveries yet remain to be known, but I am equally  
firm in the belief that there are certain phenomena in the hu-  
man system which will never <sup>be</sup> clearly explained. The noble sci-  
ence of Chemistry, has furnished many highly useful impro-  
vements, and has elucidated subjects, that but a few years  
ago, were not even imperfectly understood, but here we have  
evidence of the senses to conduct our enquiries, and are en-  
abled by analytical and synthetic experiments to ascertain  
component parts of many visible, as well as invisible objects  
with which we are surrounded. But how is it possible on chemi-  
cal principles to explain the operation of intellectual faculties.



The Office of the Secretary

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[The following text is extremely faint and illegible due to the quality of the scan. It appears to be a list or a set of instructions.]



And where the Chemist, who, by any experiment, which almost ingenuity can devise, is able to elucidate this wonderful Phenomena. But a beneficent Creator, whose paternal Care is conspicuous throughout his works, whilst-assigning some Subjects with his sacred Arcana, has endowed man with Capacities to acquire knowledge, and with judgment, to apply it, hence the more he becomes acquainted with subordinate Causes and their effects, the more is qualified for being extensively useful, and perhaps no Class Society have greater occasion to bind their attention to this Subject, than the practitioners of the healing Arts. It leads them far from unavailing attempts to investigate the essence, instead of attentively observing the operations of Nature, and should teach man, that the more he becomes acquainted with <sup>the</sup> order, and harmony established throughout the works of Creation, the more he should be disposed in humility to acknowledge the limited powers of human Comprehension, when compared with the boundless intelligence of omnipotence itself.



Having promised those general remarks, I shall <sup>now</sup> proceed briefly to speak of the effects of Music & previously to this, I shall make a few remarks relative to the VOICES, ~~both~~ in a healthy, & in a diseased state. The voice in their healthy state, may be aptly compared to a well tuned string instrument, in the hands of a skilful performer, when all its vibrations are conducted with regularity, & harmony, and when it strains precisely accord, with the desire & expectation of the



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musician. This is very different from what we find the nervous system in disease, here we behold the instrument, by mismanagement or casualty, with some of its strings, relaxed, and others vibrating harsh tones far from corresponding with the expectation or wish of the performer; by striking those keys which formerly charmed by their unity, and harmony, we are quickly assailed by rough discordant vibrations, which rather tend to weary without imparting the minutest pleasurable sensation

66  
 A harp whose chords elude the sight,  
 Each yielding harmony, disposed aright  
 The screws reversed; a task which if he please  
 God in a moment, executes with ease  
 Ten thousand times ten thousand strings go loose  
 Lost, till he tune them, all their power and use

Let us now take a cursory view of some of the diseases in which the nerves are materially affected, and observe how far the above comparison will hold good. In their healthy state do we not find the muscles of the will performing all their functions with regularity and ease; how widely different do they appear in some diseases, such as Chorea. where there is irregular & convulsive action of the parts affected. When under the influence of the will, Again in perfect health I would ask what two senses impart greater satisfaction, and delights to man, than do those of seeing & hearing; yet in Phantasm, how distressing is their operation. In this disease we observe impressions made



The first thing I noticed when I stepped  
out in the morning was the cool air. It felt  
like a blanket, with just the right amount of  
warmth. The sun was just starting to rise,  
and the world was waking up. I took a deep  
breath, and the scent of fresh air filled my  
lungs. It was a beautiful start to the day.

I had never before felt like this. The  
peace and tranquility were exactly what I  
needed. The birds were chirping, and the  
flowers were starting to bloom. It was  
a perfect day, and I was so lucky to be  
here. I took a walk in the park, and  
the children were playing. It was a  
great day, and I was so happy to be  
here.

As I walked, I saw a beautiful sunset.  
The sky was a mix of orange, red, and  
purple. The sun was low on the horizon,  
and the clouds were catching the light.  
It was a sight I had never seen before.  
I stopped for a moment to take a picture.  
The camera clicked, and I had a beautiful  
memory. I was so lucky to be here, and  
I was so happy to see this. The sunset  
was a beautiful sight, and I was so  
lucky to be here. I took a picture, and  
I was so happy to see this. The sunset  
was a beautiful sight, and I was so  
lucky to be here.



in the senses above mentioned, conveyed to parts of the brain  
 not accustomed to vibrate with them, and thus produce false  
 perceptions: here precisely does the same action take place in  
 the brain, as does in the disorganized instrument. Now in the  
 the part which was formerly acted on, has lost its power, or  
 admits perception so feeble as not to be observable, and the parts  
 & the impression not being received as usual by its proper seats  
 & action, passes by, and is expended on the next weakest parts  
 from which the false perception arises. In the second or instru-  
 ments, by touching the key whose corresponding chords are relax-  
 ed, we either obtain no tone, or a very imperfect one, at the same  
 time, the power applied to the key will be so forcible as to dis-  
 place the relaxed string, and resist its influence on the ad-  
 joining, thereby producing morbid action or disease. M. de  
 Lairan, in the memoirs of the academy of Sciences for 1737  
 speaking of the medicinal powers of Music, reasons in the fol-  
 lowing manner: "It is (says he) from the mechanical and involun-  
 tary connection between the organs of hearing and the conso-  
 nance excited in the outward air, joined to the rapid communi-  
 cation of the vibrations of this organ to the whole nervous system,  
 that we owe the cure of spasmodic disorders, and of fevers attend-  
 ed with delirium and convulsions" — From the above opinion or  
 opinion it would appear, that the medicinal effects of this remedy  
 depend exclusively on its mechanical operation; but I flat-  
 ter myself, there are very few of the present day who will assist  
 at the Rams' horns, used as musical instruments at the siege of  
 Vicksburg, would prove so efficacious in the cure or removal of







increases as the Flute, Violin, or the Melifluous Strains of the enchanting female. I must Confess that-music is of service by its mechanical action, this I believe will be admitted on all hands, & that-its sole effect-is from its mechanical action, As an opinion I can by no means subscribe to, and hope from the following marks, aided by my gleanings from the works of respectable authors to satisfactorily prove, that-the Modus <sup>Organic</sup> ~~of~~ Music the body is twofold, in the Cure of diseases, first-as it effects those who are musically inclined, and secondly, as it respects-

“ The man who hath no Music in himself,

“ Nor is not moved with Concord of sweet Sounds”

In the first-those musically inclined there always subsists exact unison between the tones employed, and the state of the nerves, other wise, the application would have an injurious tendency. If, in irregular or morbid action of the nerves, the application of Sounds not harmoniously arranged, or not suited to the patients Condition be made, the Malady will be increased & the effect may be compared to that-arising from an unskillful performer, thumping on an instrument out of time, but the other hand, If we observe in the administration of it, that regularity and order which constitutes harmony, and also attend to the Condition of the patient, we shall find by its influence & attraction which it has for corresponding motions in the nervous system, that-by & by it will overcome the morbid action, and establish regularity and concordance in them. In order to make valid my position, with respect to the necessity of harmony will mention an interesting narration given by Baglivi



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his Cases of the effects of Music in curing the disease  
 ducea by the bite of the <sup>tarantula</sup> Tarantula in which he informs  
 that the patients, after shewing evident signs of its happy  
 influence, suddenly relapsed by the instruments getting out of  
 tune; nor could he again be affected, till the performers restored  
 harmony, by tuning their instruments, when he was a second  
 time reliev'd, and finally cur'd. From this case, as well as  
 from Burney's General History of Music, we receive convincing  
 proofs of the ancient and effectual use of our remedy, in  
 the cure of diseases. Mr. Burney informs us, that Music "was  
 used as a remedy by the ancient Egyptians, Hebrews, Greeks  
 and Romans, not only in acute but Chronical disorders";  
 he also tells us that "not only Mr. Boerhaave, but many mo-  
 dern philosophers, physicians, and anatomists, as well as  
 ancient poets and historians, have believ'd that music has  
 the power of affecting not only the mind, but the nervous system  
 such a manner as will give a temporary relief to certain  
 diseases, and at length operate a radical cure". In the follow-  
 ing pages I intend to consider the effects of Music, first, in  
 diseases of the Mind, and here I shall confine myself to its in-  
 fluence in the Hypochondriacal, and Maniacal States of the  
 mind. secondly, I shall mention a few facts which will shew its  
 efficacy in the low diseases of the body, In this part I shall  
 confine myself wholly to its mechanical action. According  
 to the above arrangements I shall commence with the Consideration  
 of Music, in Hypochondriasis. And here, it will be proper to ob-  
 serve, that it is not my intention to enter into a detail of the







symptoms and Characters of the diseases to be Spoken of, far  
 more than is absolutely necessary, to the introduction of the  
 remedy under consideration. In Hypochondriasis, when the  
 mind is constantly engaged in Contemplation on one Subject,  
 and where every interruption, which is not Calculated to excite  
 agreeable emotions, is received with displeasure, the exhibition  
 of Music as a remedy should be attended with the utmost  
 delicacy and nicety; and we should be particular in having the notes  
 accommodated to the excitability of the patients mind. With this  
 precaution, we may gradually raise the tones from those we  
 judge proper in the commencement, to those of a more lively  
 tenor; and imperceptibly draw the patients mind from himself,  
 and thus obtain for him, a temporary respite from his mental  
 anguish. This is not mere speculation, or theory without  
 support; nor is it intended to place the Subject of the present  
 Dissertation in a <sup>more</sup> favourable light than it deserves, by shewing that it  
 could be used with <sup>more</sup> nicety, than is really necessary, but it is  
 a Caution that should be attended to. The following Case  
 related by Professor Rush, being directly in Confirmation of the  
 above opinion, I beg leave to subjoin. A gentleman in the  
 year next to the breaking of an Hypochondriac, intending to amuse  
 himself with playing on the flute, accidentally commenced  
 a lively tone; which so engaged the Hypochondriac, that he  
 rushed into the room, seized the instrument from the performers  
 hands, and broke it over his head - How differently would  
 that man have acted, had the tone been accommodated  
 to the state of his nerves - Had the above advice been in this



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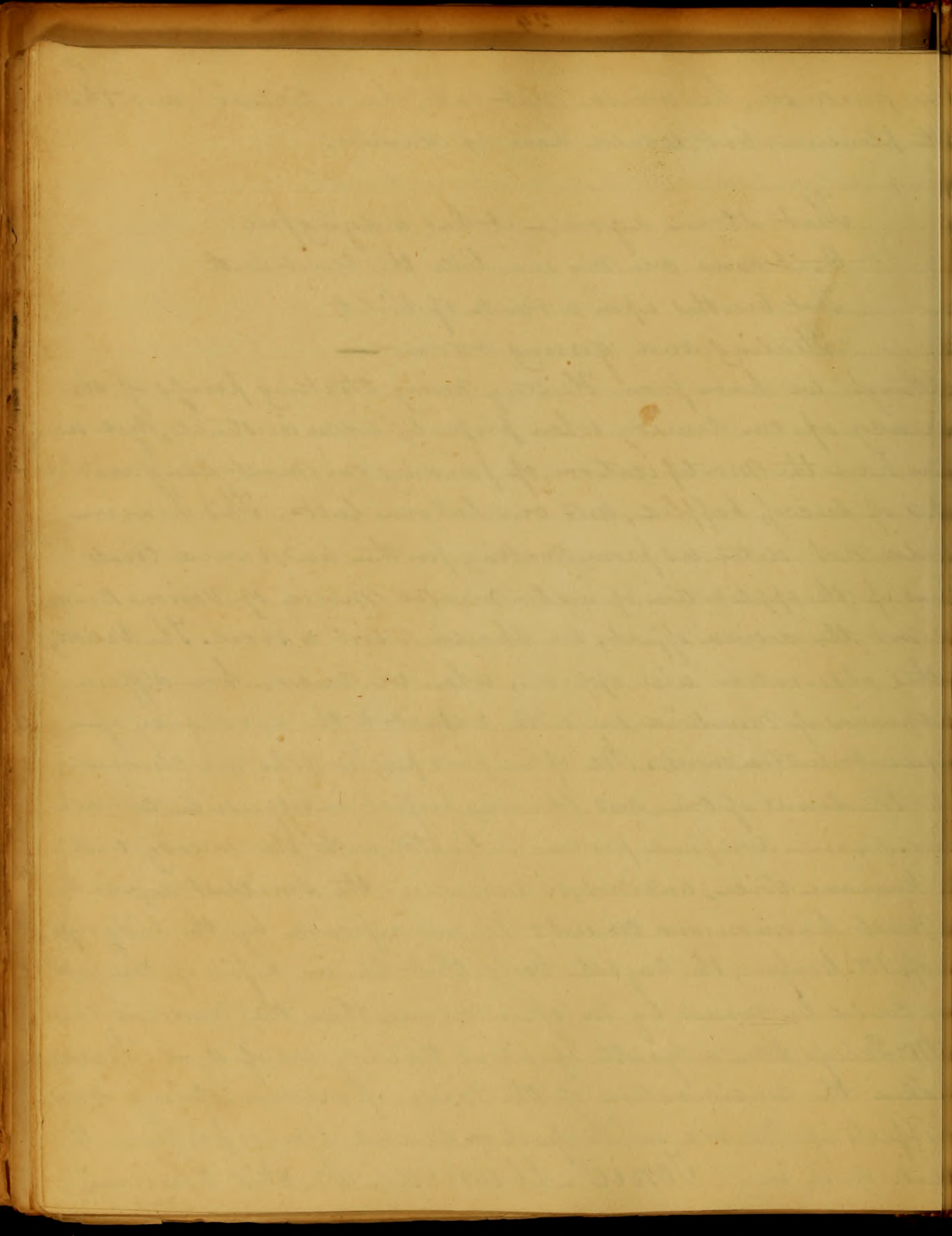


use pursued, he would not only have listened, and that  
with pleasure, but would have claimed,

That strains again; - it had a dying fall:  
O, it came over my ear, like the sweet South  
That breathes upon a bank of Violets  
Stealing and giving odour -

Although we have from History many striking proofs of the  
efficacy of our Remedy when properly administered, yet we  
too have the mortification, of finding our most sanguine  
opes of success baffled, and our labour lost. This however  
could not deter us from making further and varied trials  
thus if the application of instrumental music of various kinds  
is not the desired effect, we should resort to vocal. The Validity  
of this observation will appear, when we consider how different  
opinions of mankind, are with respect to the excellency of  
different instruments. We often find persons who are charmed  
with the sound of one, and showing perfect indifference to all  
others, again - we find persons delighted with the melody with  
a humane voice, and not, or moved in the smallest degree, by  
the most harmonious concert. We are informed by the biographer  
of Mr. Cooper, the English Poet, that he in a fit of Melancholy  
could be roused by no other means, than the musical voice  
of Mr. Paley's Son, a youth of about twelve years of age. Having  
finished the consideration of the mode of administering, and  
effects of Music in Hypochondriasis, I next proceed to  
speak of it in. Tonic Mania. In this however,







shall be very brief, as I consider it as a higher grade only  
 the same disease, and of consequence, nearly the same remedies  
 applicable, with an additional degree of care and circumspec-  
 tion in using them. In this disease as we often find the mind  
 a state so highly excitable as to render it necessary to preclude  
 slightest intercourse with the patient, the stimulus of Convers-  
 ation even of the keeper must be prohibited until the morbid  
 excitability is rather abated, by judicious management or  
 has been expended by the furious exertions of the unhappy suf-  
 ferer. From the above remarks, it is evident that the applica-  
 tion of music must be attended with great hazard; and want  
 of success will often be the result of our attempts to relieve  
 it if we credit holy writ; it would appear from the following  
 passage, that music was regarded by the Hebrews as a common  
 cure for madness: "Let our lord now command thy servants  
 who are before thee; to seek out a man who is a cunning player  
 on a harp, and it shall come to pass, when the evil spirit  
 of god is upon thee, he shall play with his hands, and thou shalt  
 be well" - It is not a little surprising, in my opinion, that  
 the beneficial effects of music should have been so well  
 known in such remote ages, in relieving mental diseases,  
 and yet so little attention is paid it in an era in which  
 every science is rapidly advancing to perfection. Under our  
 modern heads, or the consideration of the mechanical action  
 of music, I shall view it as a sound only, without supposing  
 it to act in any other manner than as an external  
 stimulant. As life is the effect of certain stimuli acting



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on the sensibility, and excitability, which are extended  
 different degrees over every external and internal part  
 the body; and as sound has an extensive influence upon  
 man life, I flatter myself, the application of this last in  
 low diseases of the body, may be attended with success.  
 The reasons for this belief are the following - 1. From the many  
 cases to be met with of persons being resuscitated, by the stimu-  
 lating action of the shrieks of their friends, and surrounding  
 relations 2. From the practice of the Malays, who are in the  
 habit of beating a drum before the doors of persons ill of fevers,  
 which I think must be often attended with success or they  
 do not continue the custom. And 3. From the happy effects  
 the firing of Cannon on board of a French Ship of war,  
 which then were many in those low state. Sound also  
 alleviates the pains of death, when as a remedy it is ineffe-  
 ctually administered. Here its stimulus counteracts that  
 pain; and if it be greater will entirely subdue it. This  
 may be explained by calling to mind a law of the  
 animal economy, which is, that "no two impressions of  
 equal power can be felt at the same time, but that the  
 weaker must yield to the action of the greater". Now in  
 using this imperfect Essay. I will make a few remarks  
 upon the Effects of Music, on the brute Creation -  
 very evident indeed are its effects upon some of our  
 domestic animals. Can we imagine any thing more plea-  
 sing and delightful, to any Creature on earth, than the thun-  
 der of the horn saluting the ears of the Horned. Again



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we not see the horse when his ears meet the yell of  
the horns, inspired with new life, is it not more evident, when  
we see him betake himself across the plains, with <sup>the</sup> velocity of  
lightning, forgetting his food, and unmindful of labour.

66 For do but note a wild and wanton herd  
Or race of youthful, or unhandled colts  
Tetching mad boulders, bellowing and neighing loud  
(Which is the hot condition of their blood)  
If they but hear perchance a trumpet sound  
Or any air of music touch their ears  
You shall perceive them make a mutual stand  
Their savage eyes turned to a modest gaze  
By the sweet power of music"

Shakespeare

For all its effects confined to the human species and brute  
creation, if we are to place confidence in the writings  
of many; thus Pope informs us:

66 "in air the trembling music floats  
And on the winds triumphant swell the notes  
So, soft, though high, so low, and yet so clear,  
Even listening angels learn'd from heaven to hear."

— <sup>no.</sup> Finis —

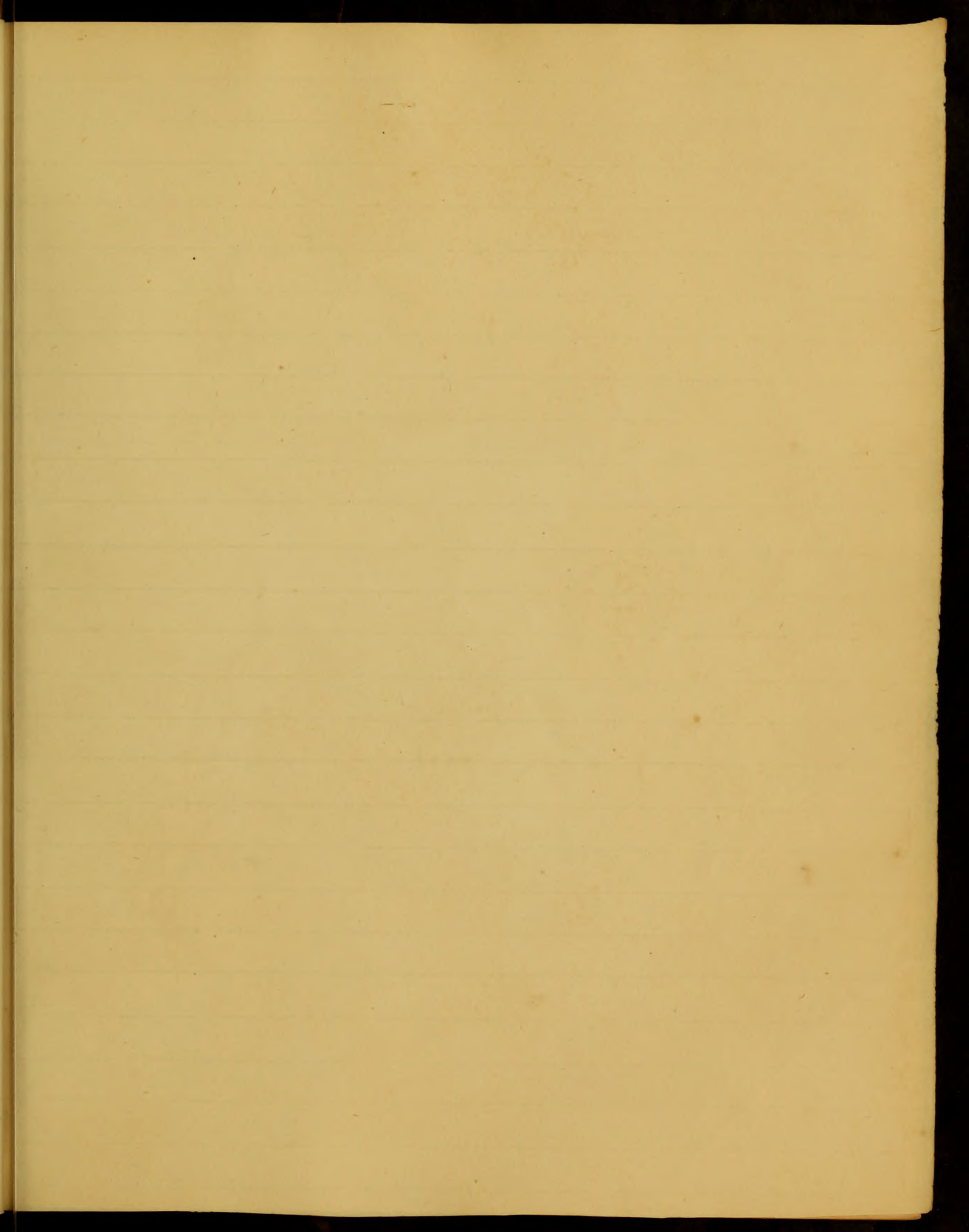


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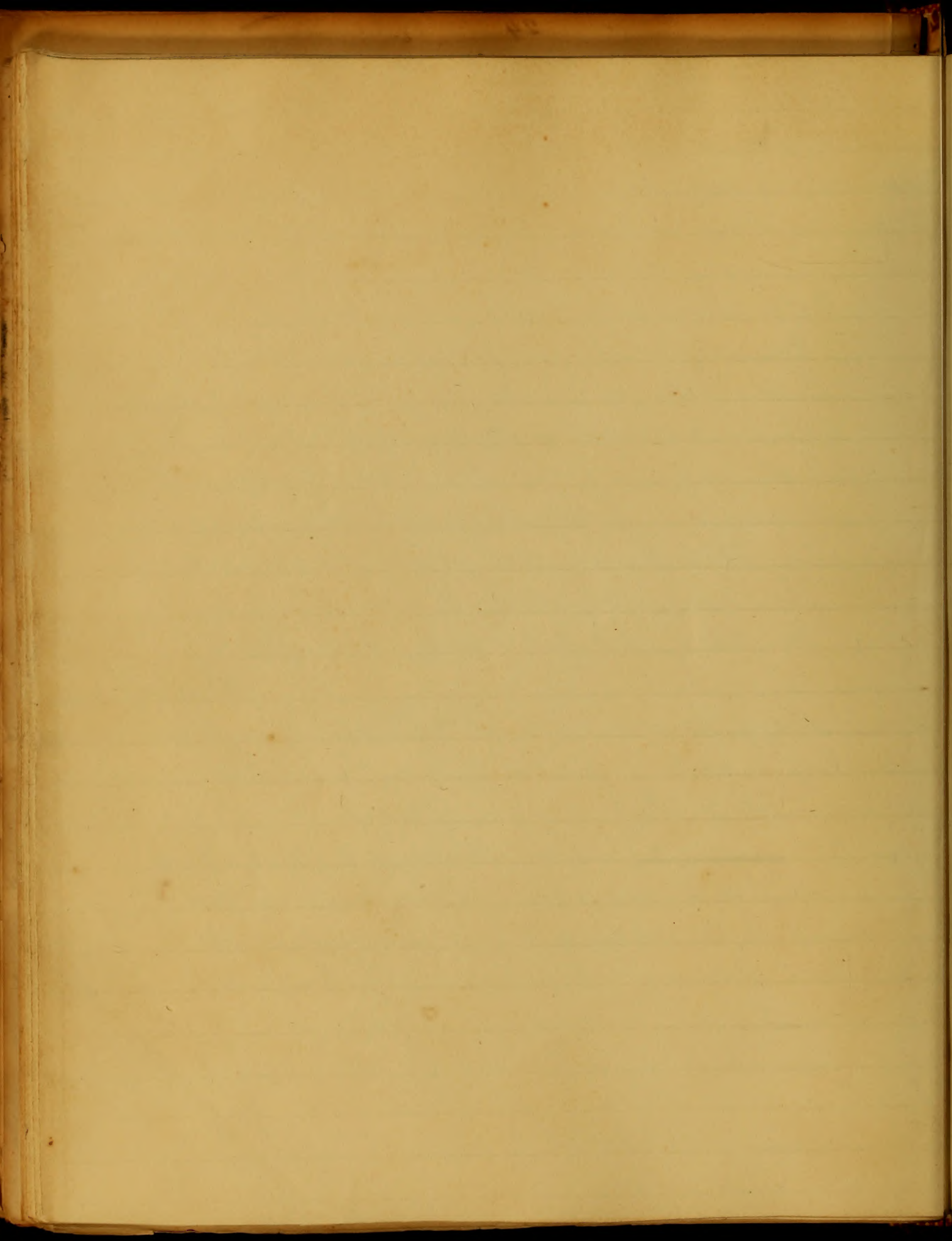
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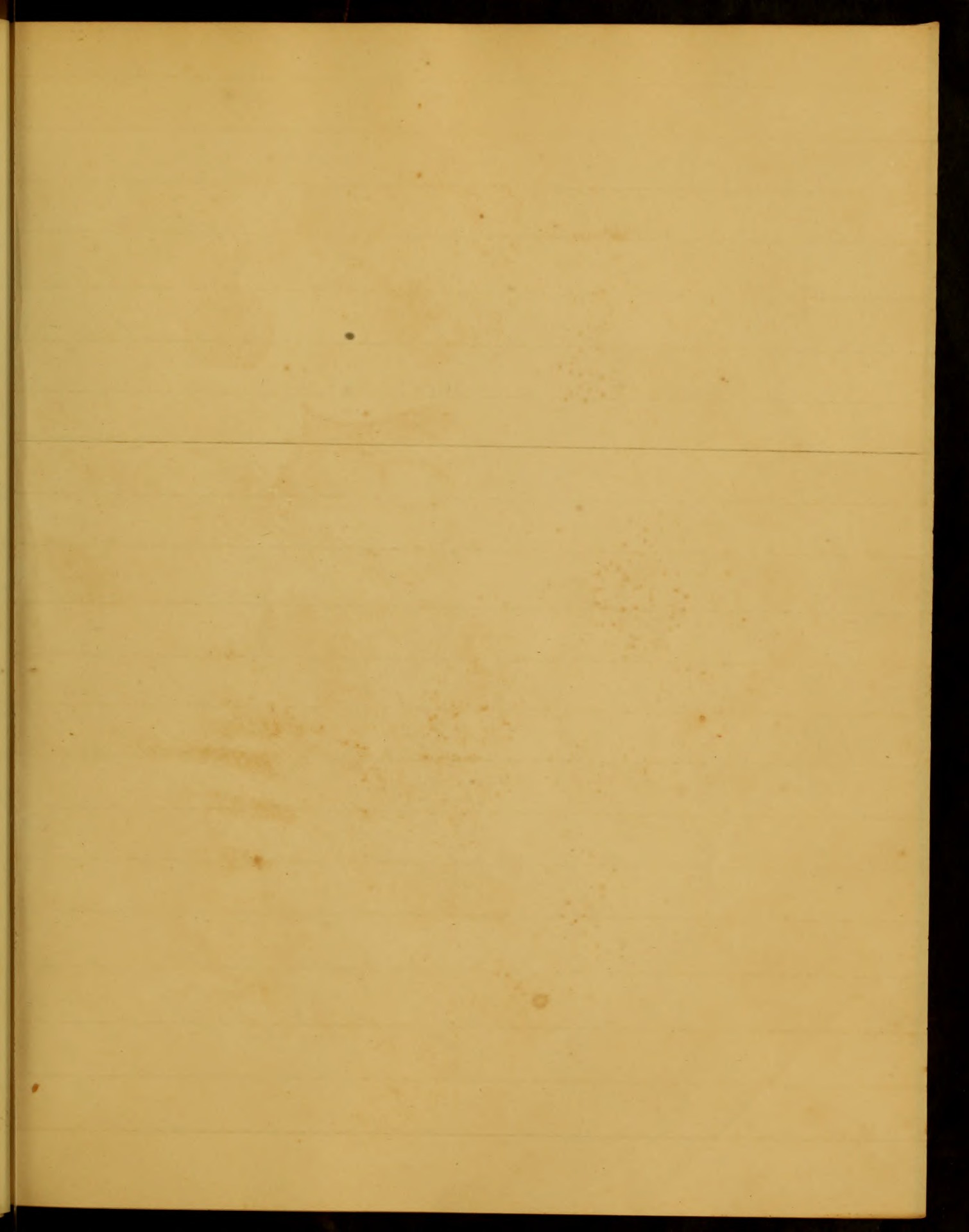
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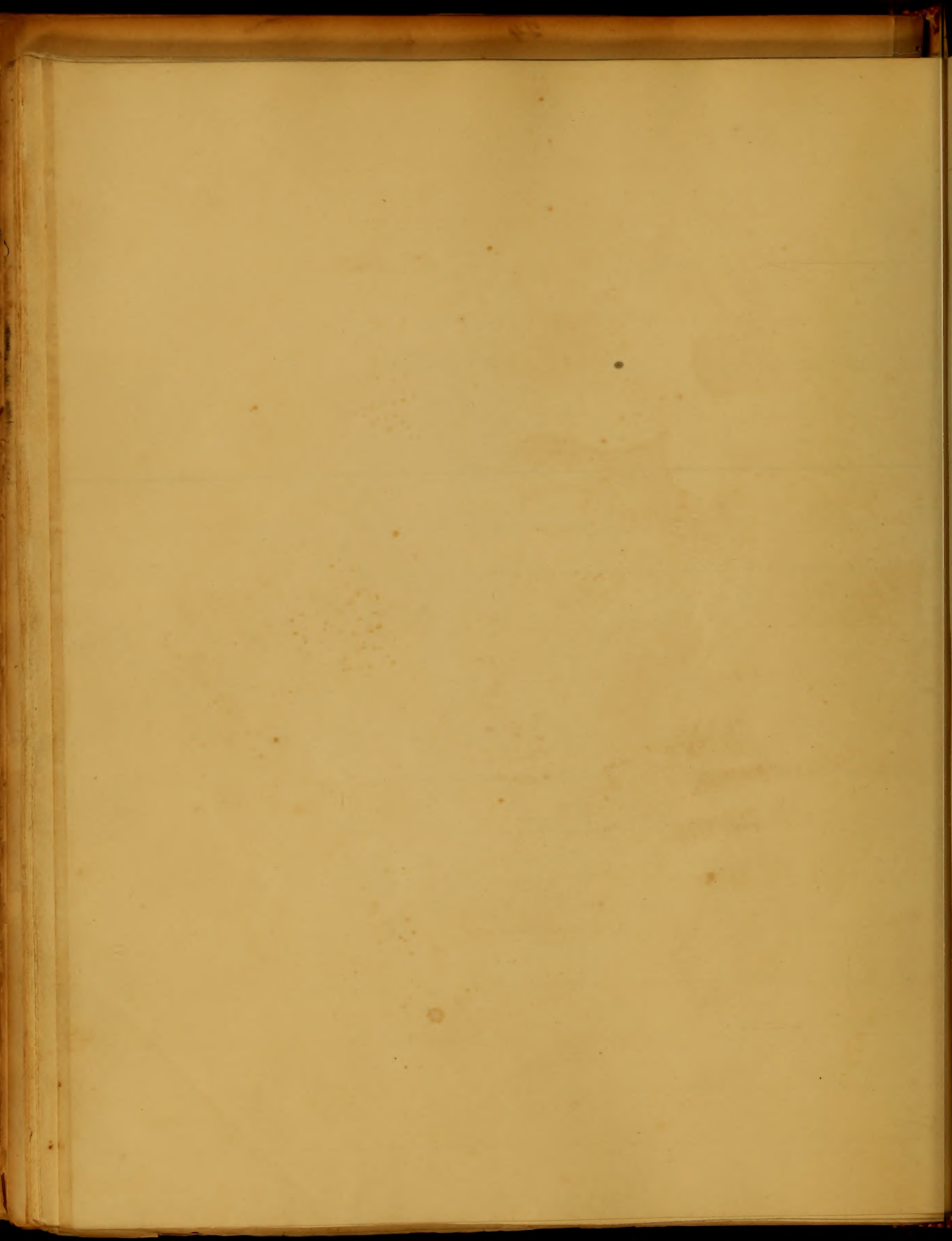


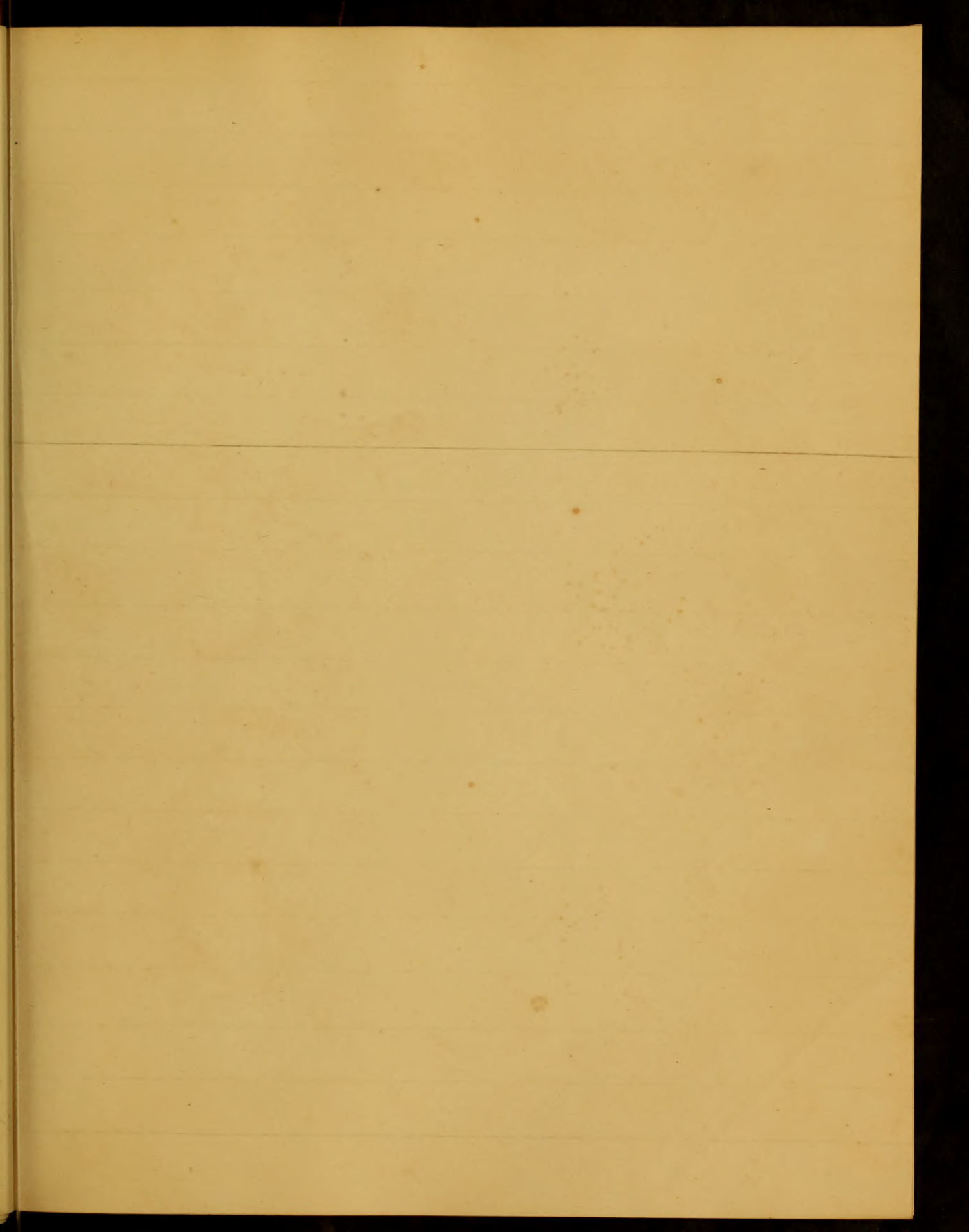




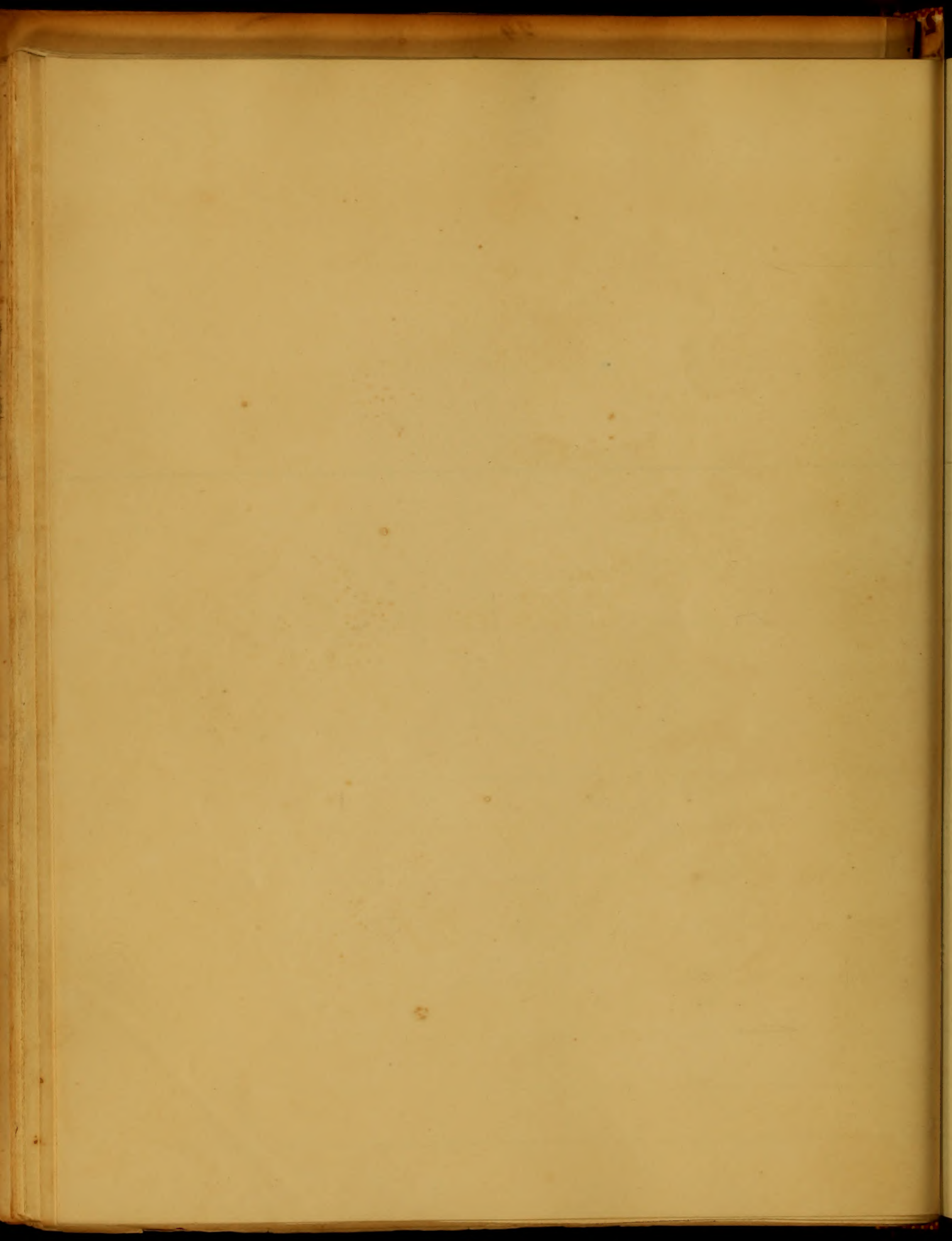


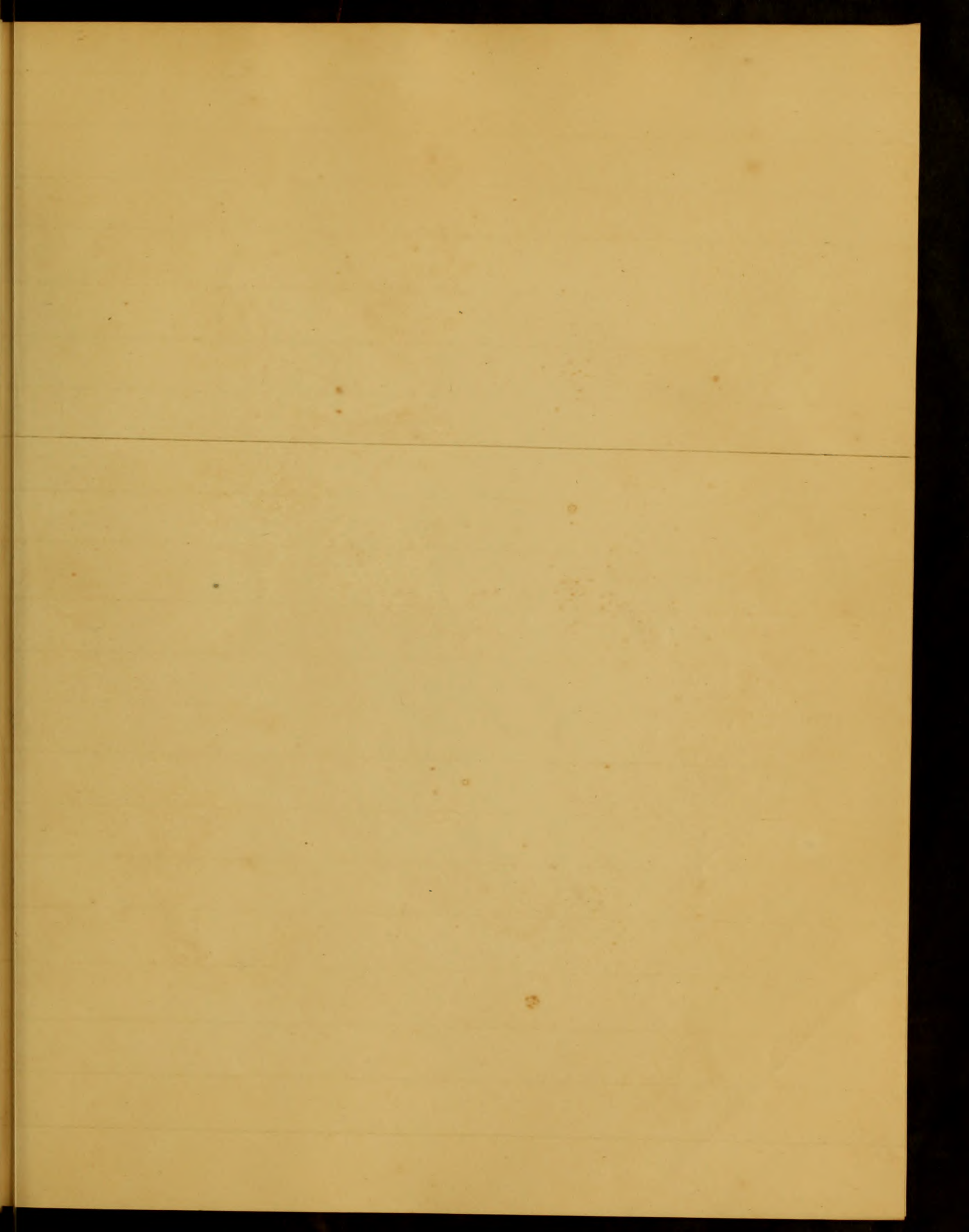




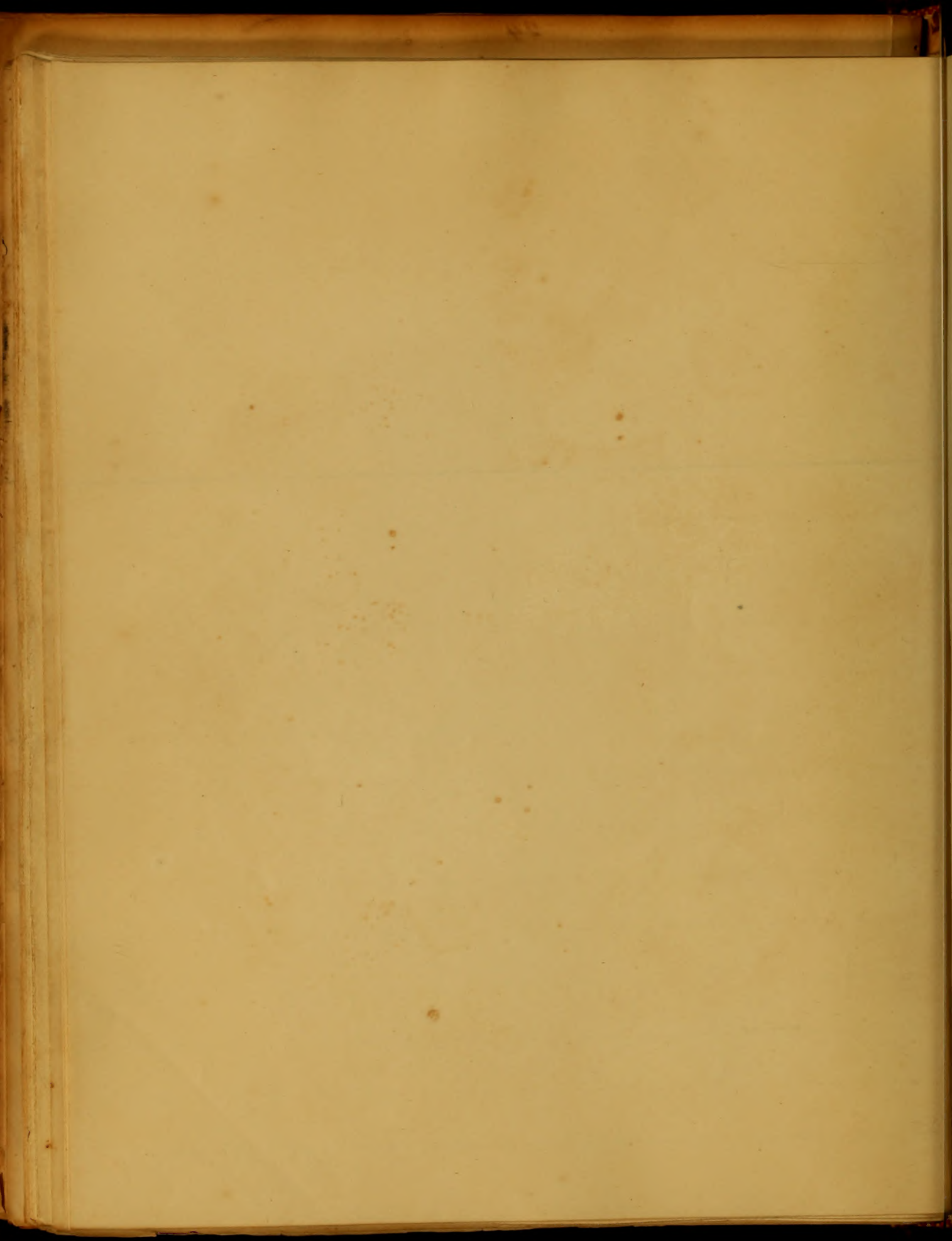


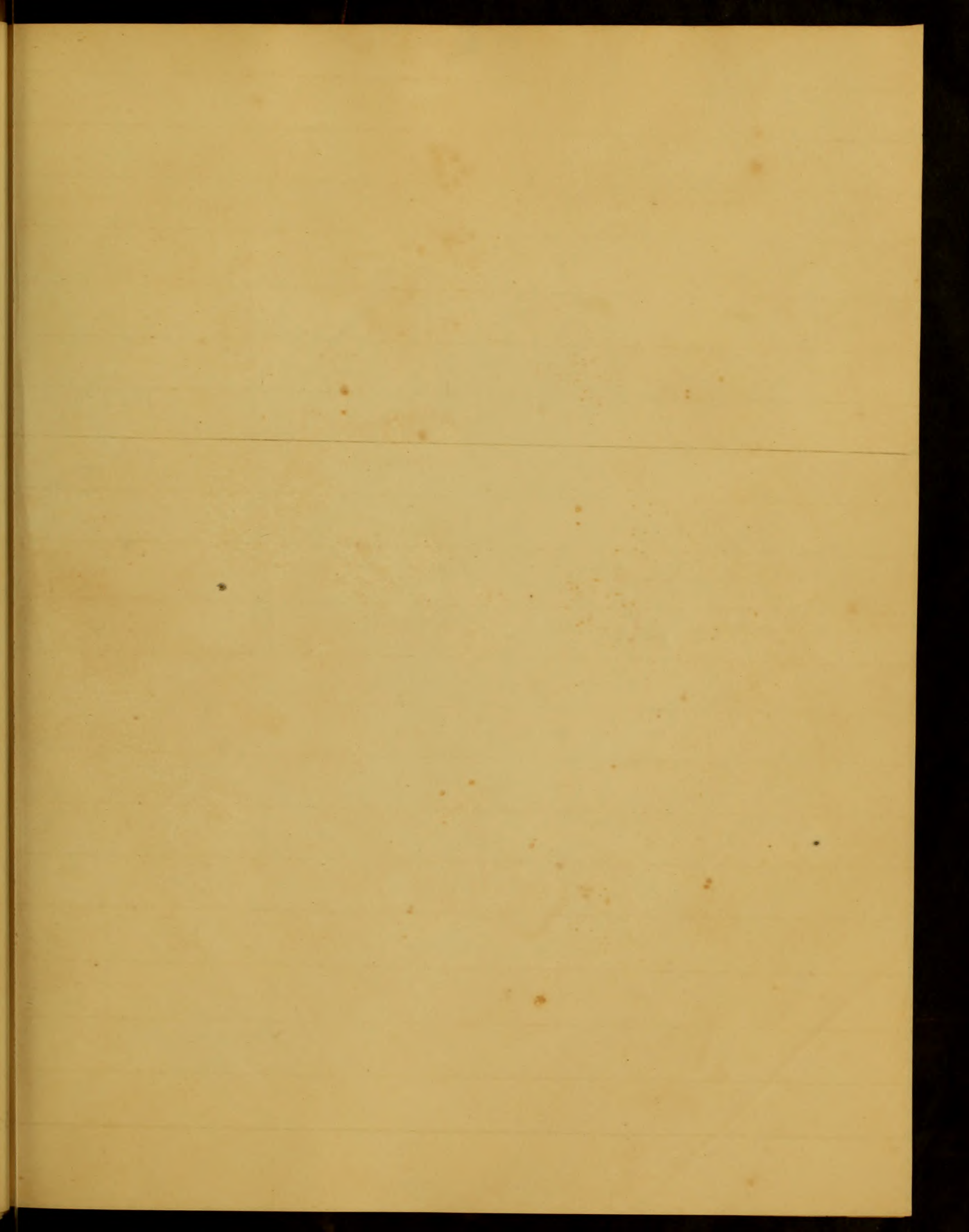




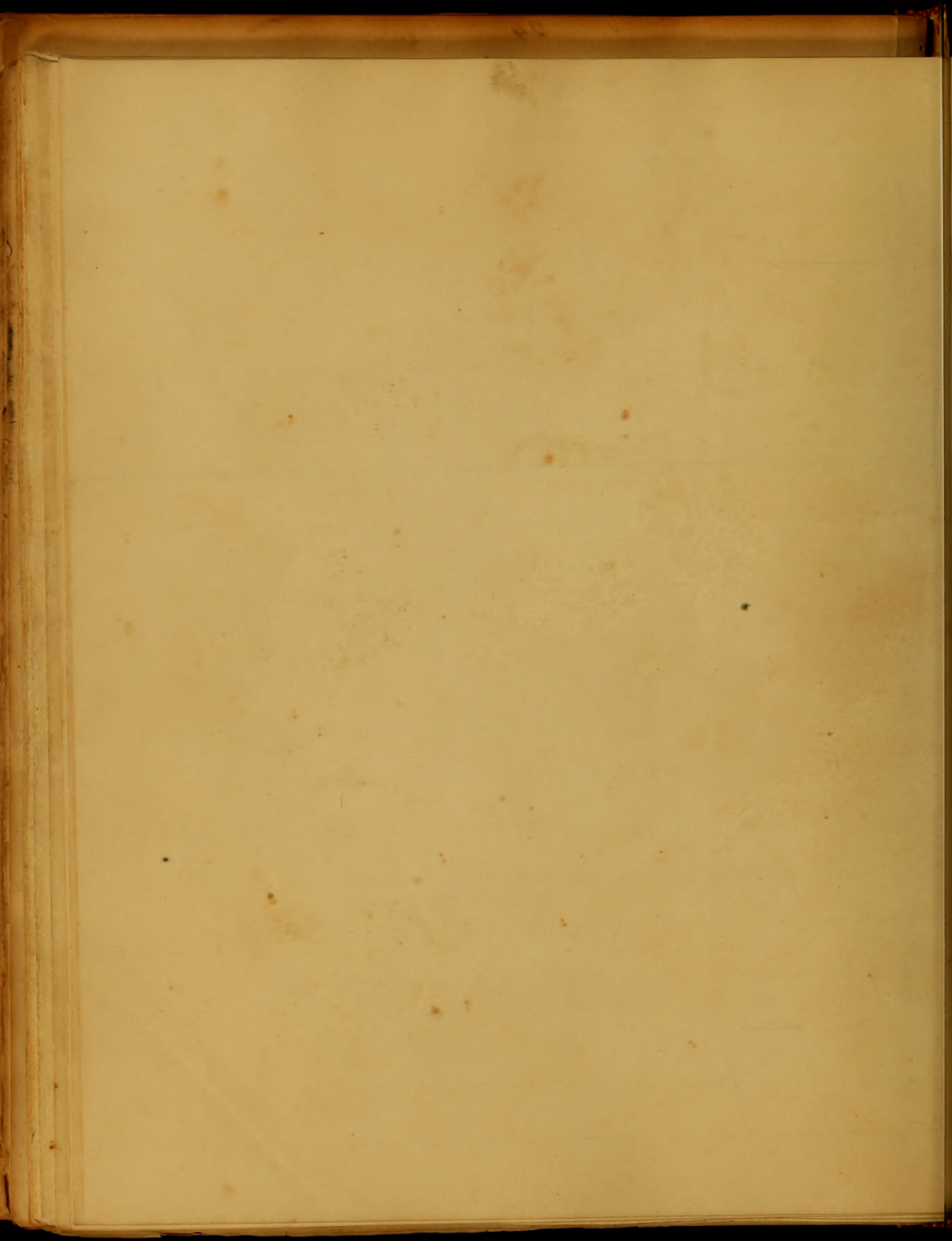


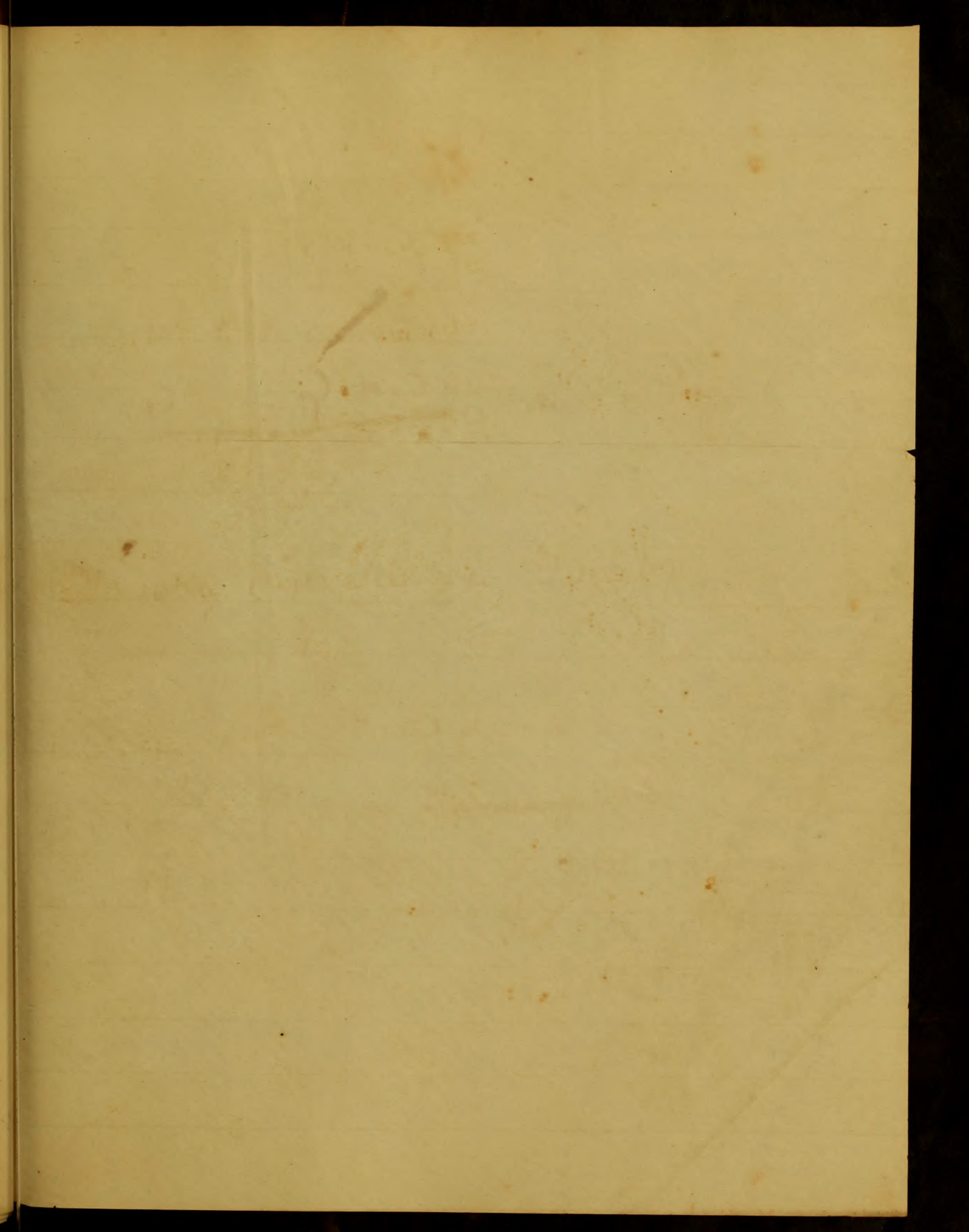














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An  
Inaugural Essay on,

Empiselas

Submitted to the examination of

~~Reverend~~ <sup>m</sup>James M. Provost

The

<sup>m</sup>Trustees and Medical <sup>m</sup>Faculty

of the

University of Maryland

~~on the 28<sup>th</sup> day of February 1831~~

For the Degree of Doctor of Medicine,

By

Richard Mott of Baltimore Md.

on the <sup>m</sup> of March 1831.



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1773  
The Honble. the Lords of the Council  
of Great Britain

James Oglethorpe Esq. Secretary

to the Honble. the Board of Trade

London

My Lord

I have the honor to receive your letter of the 10th

inst. in relation to the petition of the

above named persons, and am glad to hear

that you have been successful in your

application, and that the petitioners

are now settled in the colony.

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



Ad Johannem P MacKenzie. M.D.

<sup>m</sup>Hoc testamentum meae amoris deditur

Ricardo Motté



eos, qui iter per terram faciunt sepe, multa mala  
 affligunt: cumque auctor illis sociari exoptat, qui certant  
 fluctos levari morbis omnibus illis, procurentibus. Ei cuius  
 spore escanimi oculoque vitreo vestigia denotantur, cu-  
 s sub glaciali aspectu sanguis calidus pulchrum, a  
 nantiumque amatorumque frigeat; Hæc Thesis, manus  
 venilis opus iudicio illorum, qui eum assensitate libe-  
 re et honores afferre possunt, quos anhelante corde longè  
 staret, subiecitur: si qua sensu sit in ausilio al-  
 ui morbum gravem sublevari, si frontem ferventem mitiget,  
 et capiti dolenti et pectori tristi delicias somni impertiat,  
 si oblectabit non frustra laborare. —

Crysipelas, anglicus St Anthony Fire, prævalet in  
 una portione zone temperate qua mihi cognoscitur,







tamque saepe obvenitur in regionibus torridis idque tanto  
 olentior quanto temperies urentior. Hauset nomen Egro  
 raei traho πελας prope, quippe partes adjacentes contra  
 untur vel eruptione vitiantur. Fire incidet in Petermu  
 so, tametsi nonnunquam diffunditur cuti verae membranae  
 e cellularis. Escitans in eis inflammationem sporam et  
 efficiens sanationis. Priusquam ulla indicia externa mor-  
 sprebeantur, aeger alget, languet pulsu arteriarum  
 sprepa magna que studio oscitanda. Escinde omnia indicia  
 utantur, firmus plenus durus fit spulous, in hepate, stom-  
 cho capiti que angetur, facie rubefacta, cutem arida cali-  
 que, lingua albidam et sedatam fere cum retentione fecium.  
 Brevis tempore cutis, plerumque facialis, quia vasa capillaria  
ia sanguinem ferre aptiora, (cujus ardens rubor modestia  
 identia est rubescens), colore peculiari rosacea suffunditur,  
 um prouita, rapidaque extensione, esse quo oriuntur multae  
 e papillae pellucidam lympham refertae. Hae, nisi inci-  
 e sumpuntur, et partes exhibent livida colore, quae



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glegentia exulcerant atque mortua esent occidunt. Pulsus  
est eruptionem, et iritabilitatem frequentior fit sed minus  
rmos vel durus, mitigatione omnium indicium. Tertio,  
ruptionem semper apparere tertia vel quarta in die, et mi-  
i videtur regi violentia exempli, quoniam in homine, qui  
aneros ediderat, cognovi primum accipsum sequeri eruptionem  
uidquaquam longius modo unius horae. Paxter falsè  
ictum impertire contagione quia multi periclitantur  
ii nequaquam infectione laborant atque omni in exem-  
lo citato mihi cognito, omnes aegroti una stirpi du-  
untur: in quibus haud dubie consortio cibi et originis  
git; quoniam licet existimare hospites unius mensae  
adem victu frui, sobolem ejusdem famaliae virtutibus  
itisque consociari.

M<sup>o</sup> Feliciter venit reputatione medicorum ipsam  
estimationem nequaquam magnopere prevaluisse, mihi  
e videtur ejus devotionem in morbo de quo loquimur, pra-  
ursore fato impendente in omnibus aliis; etenim quando  
cientia clarissima chymiae potestate instruerent genus



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umanum (quod credo esse infans) investigare principia va-  
rorum pestiferum, qui veluti caecodemonos perlabuntur sine  
usu campos aerales mundi invisibiles; cumque pro nostra  
credulitate existimando aerem respirabilem, de quo nostra  
perceptio tam exigua, constituitur oxygene, nitrogene, car-  
bone, promptly persequemur ad principia sub innumeris  
modis pro diversa conditione in qua inveniuntur; denique  
cum elementa miasmatum palustrium patefacta fuerint  
eri investigatione physici infatigabilis, tunc univer-  
sali exultatione colentium scientias nostrum contagium  
bigetur a terra.

Propensionem huic morbo saepe duceri parentibus  
emo dubitet quoniam cutis clara teneraque in seorsum  
peritur similitudo liberorum parentibus praevaleat pimi-  
rigo diathesis. Insuper insolita irribilitas tam men-  
tium corporumque eorum, etiamque proprietas saepe an-  
standa per actionem diversorum functionum animalis oco-  
nomiae fere potest observari in eo parente. cui marci-



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nam similitudinem referunt.

In nostris prognosticis debemus duceri <sup>6</sup> magnopere  
tate et morbus aegrotantis: ne obliuiscendum etiam si  
esint cum effusione seri et desquamatione cutis in  
osis non aliter invalidis; apud constitutiones debiles aut  
depravatas suppuratione insalutaris et gangraena crebro in-  
sequuntur morbi impetui haudquaquam minitanti. Sic  
licet inferre comparationem ab artibus mechanicis, medicis  
aut fabro operante in ligno caroso; instrumentis inculpatis  
ihil habet in quo laboraret. Quoque necesse est annotari  
uoties aeger afflictus fuerit, quoniam quisque in uasis  
reddit obnoxiiores altera sequenti sepiusque reuersione  
officilius remedium. Ac si simul aegrotans affligatur  
chronica inflammatione hepatis, raro vel nunquam con-  
alescit.

De pathologia mea distat opinio omnibus aliis  
ihic cognitis; et si sapiat antiqua concepta humoralium  
athologorum confido non minus esse veram. Credo  
uotiescunque morbus non restrictus fuerit ad locum,  
uti minus hepaticum impeditum vel affectum esse







jura alius modi. Non potest existimare contradictio præ-  
care morbum nunquam restrictum esse una quia cutis  
raro vitatur quavis inflammatione aliter quam Erysipelate;  
cumque Cantharides introductæ intra stomachum  
antum satis est, non solum generant Gastritem sed etiam  
inflammationem totius alimentaris canalio; adhibita meram  
siccationem sequentem restrictam Erysipelati; cumque quibus  
vaporibus acerbis cute applicatis excitant Erysipel-  
tem, Pulmonibus Pneumoniam, oculis ophthalmiam  
cultate insita irritandi sententem fibræ animalem.

Scitum est hepar recipere totum sanguinem reverten-  
tem aliis chylifœticis visceribus ascendentem primam  
partem esse maximum indicium Erysipelatis;  
non illi necesse est sequitur hepatis repetentem  
sanguinem illis partibus repletis insalubri vitato acido  
ve humore aliquanto carumpi. Tute habeamus pro certo  
et magnam rem sanguinis venosi emuntem hepatis et ob pro-  
metatem eius secretionum sanguine venoso omnino  
ecernere; ac si sanguis qui redit ab illis partibus



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epletis acido humore vitietur, eius secretiones si ul-  
 e sint eodem modo vitiantur, sin autem hic sanguis  
 on vitietur acido in partibus de quibus discedit, quò evenit  
 uod in Dyspepsia ubi morbus acida materia generata  
 ritur in stomacho debile, hepar semper torpore vel per-  
 urbari? Dicere hepatis torpentem vel perturbantem con-  
 sensu tantum prebet demonstrationem ignorantie. Dup-  
 e si torpeat consensu stomachi oppressi materia asces-  
 enti, quomodo evenit cum hæc ascescens materia, quam  
 Cholera morbo, excitat emesin hepar usque ad vomitos  
 eratos pariter torpeat. Hic doctrina consensus de-  
 st quia fingit hepar torpere consensu partis, quæ ve-  
 ementer excitata. Quecunque officia sint hepatis  
 pinio adhibeta mihi, ullis atque consentiet. Si bilis  
 it excrementi atque ejus secretio tantum designetur  
 orpore excimere que non amplius prosint stimulare intes-  
 na adstrictioni relaxationique, torpor vel perturbatio







hepatis excitatus asecretia primarum viarum certe  
 nocet retinendo aut obstando ejus salutari secretionis;  
 et si bilis sit recrementi necessaria que formationi  
chylis hic torpor vel perturbatio inhibenda ejus formatio-  
 ni; postremo si secundum quosdam Physicos nupere-  
 rit unum munus sit hepatis adjuvare pulmonibus  
 in efficiendo chymicam mutationem sanguinis certe  
 nocet inhibendo illae mutationi. Si prima suppositio  
 sit verax, est retentio materia ex qua corpus elevatum  
 impet; si sit secunda, Chylus, lymphæ quæ maxime  
 interest, deportata sanguine per totum corpus tam necessa-  
 ria viribus non potest salubriter discerneri, sed si postrema  
 sequitur sanguinem impurum esse. Illius nervo-sanguis-  
 eae temperiei, cutis clara oculique caerulei, fortasse deducens  
 morbum majoribus, stomacho repletis acido, non amplius im-  
 pulsus frigoris aut aliarum causarum, quæ accumulante  
 irritabilitatem cutis, egerit aggrepsu veri Erysipelatis affici.







Fuere qui censuebant inflammationem cuticularem  
 non amplius esse concernere naturam corpori escimere moriam  
 materiam in sanguine misctam; forsitan iure, quia anno-  
 amas posteaquam eruptionem apparuisse, aegrotantem valde  
 relevauit, attamen conamine minime salutari. Adhibenti for-  
 ro effectum sine dubio prarum causae insequens locatae  
 visceribus chylis spiculis fingunt probare actionem cui-  
 jus omnino dirigendae ausilio eorum qui aut amiserunt  
 salutem aut periclitantur. Eodem modo mitigatio indicium  
 in Erysipelate adhibetur probare conamen esse salutari na-  
 turae, adhibenda gangraenam inflammationi insequentem co-  
 namen esse pariter salutari naturae quoniam eadem mitiga-  
 tio utraque videnda. Illi obicitur, nempe aegrum fere  
 convaluisse posteaquam pars gangraena affecta fuerit, ple-  
 umque mori; attamen inflammatio Erysipelatis non mi-  
 nus praevalet ea astanti mortificationum cederetur vi  
 corroboratae naturae, summam mortalitatis non multum  
 esse. Ceteri natura inflammatione cuticulari egit in  
 morbo escimendo gangraena saepissime insequens vincit



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am pariter intentam fuisse aegrotantem subtrahendo. 11

In remedio morbi necesse est acidam materiam canali  
alimentari amoveri, hepate salutarem secretionum restitui  
ri, vasa cuticularia relaxari epe ac febrem irritationi miti-  
gari. His omnibus peractis, vires corporis sustinere, vasa cutic-  
lari debilitata morbo firmare conamina nostra adhibenda.  
ut primum consilium efficiatur, prescribere magnesianam;  
pro secundo tertioque resectionem cum emeto-cathartico;  
pro quarto omnia haec remedia conjuncta cibariis exiguis,  
medicinis deprimentibus sudoremque excitantibus amoven-  
doque affectioni restrictae, qua post haec tractabo.

Haec remedia aliquando parum necessaria, quoniam  
aedam exempla sine nullis egent. Sin morbus valde sae-  
-iat, ne detinerer metu debilitatis usu omnium, quia pro-  
pria experientia ducor existimare aegros raro mori debilitatis  
sed saepissime corruptione partium; eos feliciter epe qui stu-  
ebant ea impedire. Sine dubio morbus iste notus typhoides  
sepe gerit; autem quando reminiscitur morbos typhoides  
characteris fere semper congestione associari, quae



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pretant concretionem removeri, dum vires possint sustineri:  
sunt Feliciora in morbo sublevando.

Magnesia certe remedium aptissimum acido auferendo nisi aeger multum tabefactus sit; ibi sit necessarium adhibere aquam calcis conjuncta qua medicina certe roboranti; quia si credendum debilitate morbum semper oriri videmus aegrum ne faciamus infirmiorum. Postquam magnesia adhibita sit, murias hydrargari magis faustum efficiat. Quomodo hoc sit non intelligo sed ad sententiam Professoris Potteri, accidunt nonnulla exempla visum mihi confirmantia ejus veritatem. Postea magnesia et sulphur murias hydrargyri inflammatio rapide discedit etiam in desquamatione. Olim hominem vidi facie tumida oculos oclusos, cujus inquietudo qualis erat (ut verba ejus usurpare) non possit ore eloqui, neque mente aliter concipi, cum duro firmeque pulsu salienteque, lingua alba foedataque et angore juxta venas frontium, postquam adhibita sint portio magnesia, copiosaque inasectio insculta emeto-cathartico tantum sublevari



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Inflammationem, quae confectum definivipet cum effusioni  
eri, resolutione sanari modo unius diei.

Quod pertinet ad dietam opinor prohibitionem ab  
ab cibo animali ad extrema impulsam fuisse; eterrim  
pleraque exempla sunt annotanda aut in pueris, senibus  
que debilitate depravata habitus stomachus languidus  
in quibus cibaria omnino vegetabilia neque corroborant  
vires pepticas neque eas sustinet totius corporis. In  
hoc exemplo quam in omnibus aliis debemus regi  
indiciis; quamdiu temporis habitus aetatesque homi-  
num distent, ac quamdiu occasio morbi regitur alia  
vi dispari, regulae uterunque idoneae non possint dari  
quae congruant omni exemplo; etenim usque ad  
longevitatem vivamus, sed nihilo magis videamus  
duo exempla omnino paria, quum nonnullis neceps  
est praecoribus cibum parcissimum, sunt alia quibus  
medicamina quam maxime Joventia, firmantia que  
vise sufficienti retineri animum terrotri domicilio.







Quum oblectatio in satietatem incidit, forma nobilisque  
 olim pulchritudinis, et oribus affluens marcescit, onerique  
 succumbit multarum hyemum, cumque visus obocurator  
 uminaque cordis igni ferventem olim micantia, in orbi-  
 tis subsident, cumque pro fuscis crinibus venustam cla-  
 ramque frontem juventutem decore ambientibus, sparsi  
 capilli senis, notantur in asperis sulcis curae, cumque  
 vultus olim sedes rosae, solum gaudis senectutis laetatur,  
 denique eam omnia indicant procepum rapide volvin-  
 tum annuum eum amplexui majorum clemente  
 allaturum epi figet ominis, hunc morbum ocepissime  
 venium afficeri moria. Cumque lecto adoliti, gem-  
 itumque fortis audiri prorepi hominis; cum flaccidum  
 manum huc illuc factatum vidi, tristem praemonitum  
 mortis! cum sensi frontem ferventem acerbiter spir-  
 itusque quas non potui levare, etsi cognovi eum cito  
 futurum epi in ea clariore regione, qua impii cepant  
 vescare, fepi quiescunt, moestus sum inanitate  
 totius humanae peritiae. Est ad huc solatium est







homini benevolens, licet debemus omnes bibere somniferam  
 potionem mortis, plurimum posse mitigari angores anime  
 descendentes; licet aliquando nostrum est astiteri spe-  
 tantium dolorem quem nequaquam leniri possit; nostras  
 manus sæpe id tenere quod afferet pacem pectori af-  
 flicto sæpe ei protendeas mollia vela somnium vigi-  
 lanti laxitudine magnâque molestiâ; restitueri parum-  
 tem orbantis, virum visceri etiam quem Amor ipse  
 desperaverit.

In præcipiendis diaphoreticis semper adhib-  
 ita sedativa quum febris est vehemens, stimulantia  
 quum defectio visuum manifeste apparuit. In exemplo  
 priori sæpe probari venæsectionem cum emeto-ca-  
 thartico esse aptioris: post eorum adhibitionem si ad-  
 huc febriat, præscripsi nitratem potassæ cum minuta  
 portione Tar. Antimonii; si magnam irritabilitatem  
 eruptio inducit febre esigua in modo Pulvis Doveri.  
 Remedium sulphur est aptissimum huic morbo quo-  
 riam ad benignam actionem cuti, accidit aperientem







ntacia atque epe. In curatione cavendum potissime ne quae  
 e frigore obicitur ne relabatur. Fertur gypsum phosphatis  
 rosericum quo sudorem excitent in morbo diuturnis  
 cuticularibus felicissime adhiberi; nisi inflammatio  
 valde torpuit mollena illud praecuribus quod fere  
 inducit inflationem membranae cellularis. Corpore mag-  
 nopere defecto, si desideremus remedium roborans, simul  
 atque sudorem excitans, in plantis flosaque idonea  
 speriamus.

Quod attinet ad medicamina externa, inflamma-  
 tionem parum vehementem leni popurimus lotionem astringenti  
 abolvere. Ad usum vegetabilis astringentis nonnulli  
 suadent sed quamdiu nobis sit acetum plumbi rae il-  
 lis legimus. Eius mitis solutio potior. Si advenit vesic-  
 ulae oportet eas operiri lymphamque effusam imbibi spon-  
 giis molli. Eadem si partes inflammatae non immoderate  
 eruat modicum amyli eae inspersum jucundissime agit.  
 In exemplo posteriori oporteat uti cataplasmate emollienti  
 brevi auferendo ne inducat suppurationem huic morbo







minimo insolentem. <sup>m</sup>Hirudines utilis ea conditione ut  
 non applicatæ in habitu probo parte inflammata pro-  
 nores, quoniam morsus eorum gangræne inclinant.  
<sup>m</sup>Tametsi in his habitis sani nequaquam temendum  
 prospera eventu frugante quoniam ad portionem ipsam  
 inflammata adhibita sunt. Ubi desunt hirudines,  
 Populus uti cucurbitis eadem præmonitione. Si gan-  
 græna imminet aut jam existet, fertur vesicatoria de-  
 bere <sup>q</sup> admoveri. Postquam inflammatio evanu-  
 rit, lotiones lenes astringentes possunt adhiberi, vasa  
 cuticularia roborare.

Aliquando inflammatio cuicunque visceribus  
 nascime cerebro transfertur. <sup>m</sup>Hic oportet omnibus re-  
 mediis antiphlogisticis uti, venesectione utriusque modo,  
 cathartice pilule luti glacie comminuta lotioni arescenti  
 ceteris — Sed maxime nitamur de integro in-  
 flammatione cuticulari excitanda. <sup>m</sup>Hic aptissima  
 adjuvmenta frictio, vesicatoria, balneumque sale ma-  
 rino saturatum. Perora existimare debeat omnino







Phrenitis. Quum translatio infanda eveniat parva spes  
 magna apprehensio. Visi occurrit nisi incisa morbo  
 primario fractis utque ad depletionem necessariam cu-  
 ratione nequeant ferre. Postquam operam maximam  
 dederimus saepissime eveniet nihil prodesse: Attamen  
 solatium praebet incipiente morbo arripito nunquam  
 non posse ejus exitui lethali prohibere. Ei exemplum  
 huiusmodi aspexit dolore dementem vehementer  
 saevire subiectum, quam vultus furiosus incensusque, in-  
 dicare nequeunt; audiretque voces murmuratas delirio  
 monentes spiritum reseatum ardere desiderio mortalis car-  
 ceris aufugendi, regionis que petenda qua in luce cla-  
 riori, vallibusque amenioribus immunis esset a malis  
 per multo homini praemonentibus mortem; ei qui visus fe-  
 rocem aspectum aut audivit insanum risum insani  
 simul secumque volenti eum aspicere audire que  
 risum hominis instar sui, illud solatium potest  
 adhiberi.

Multum magis innotueram scripsi, forsitan

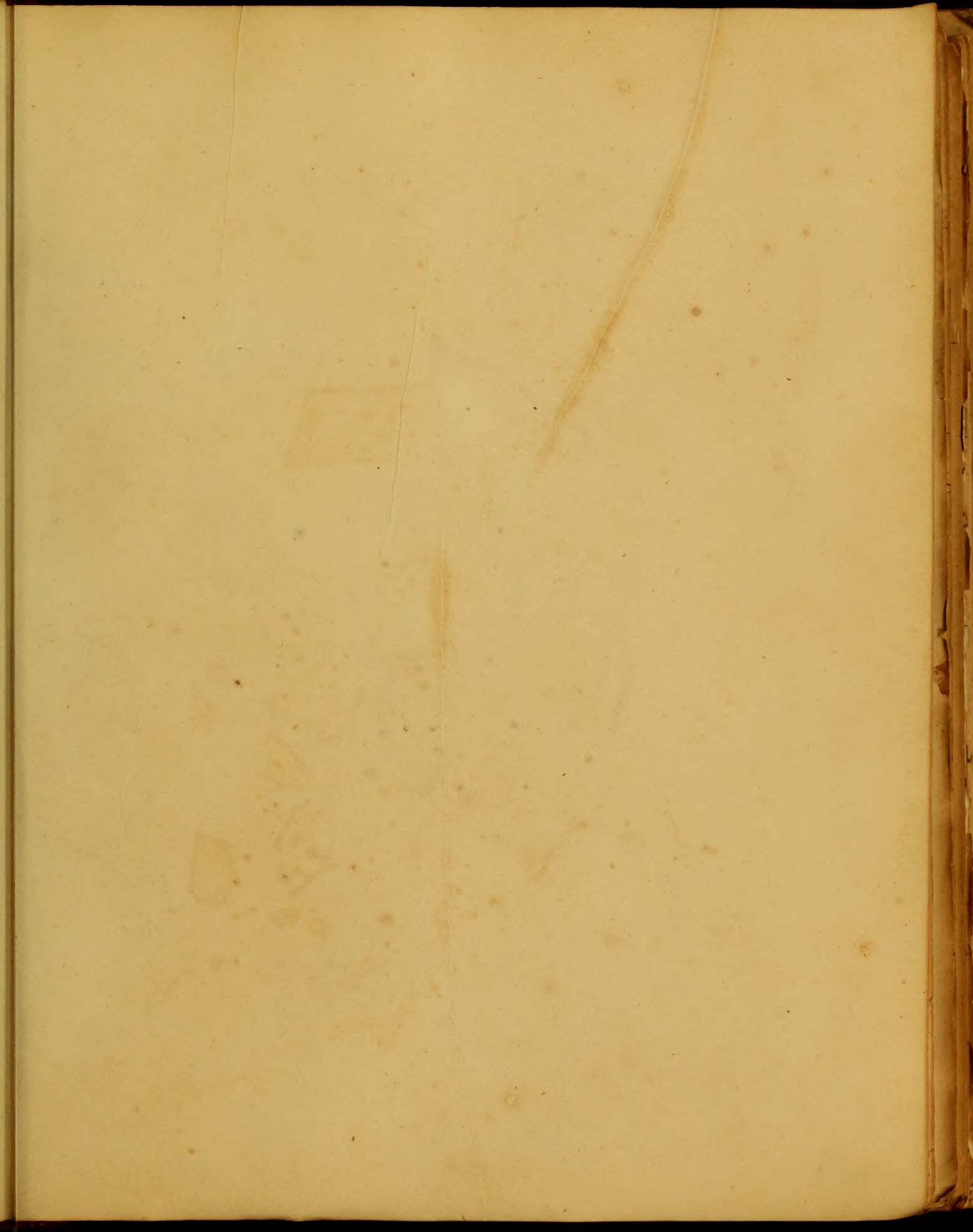




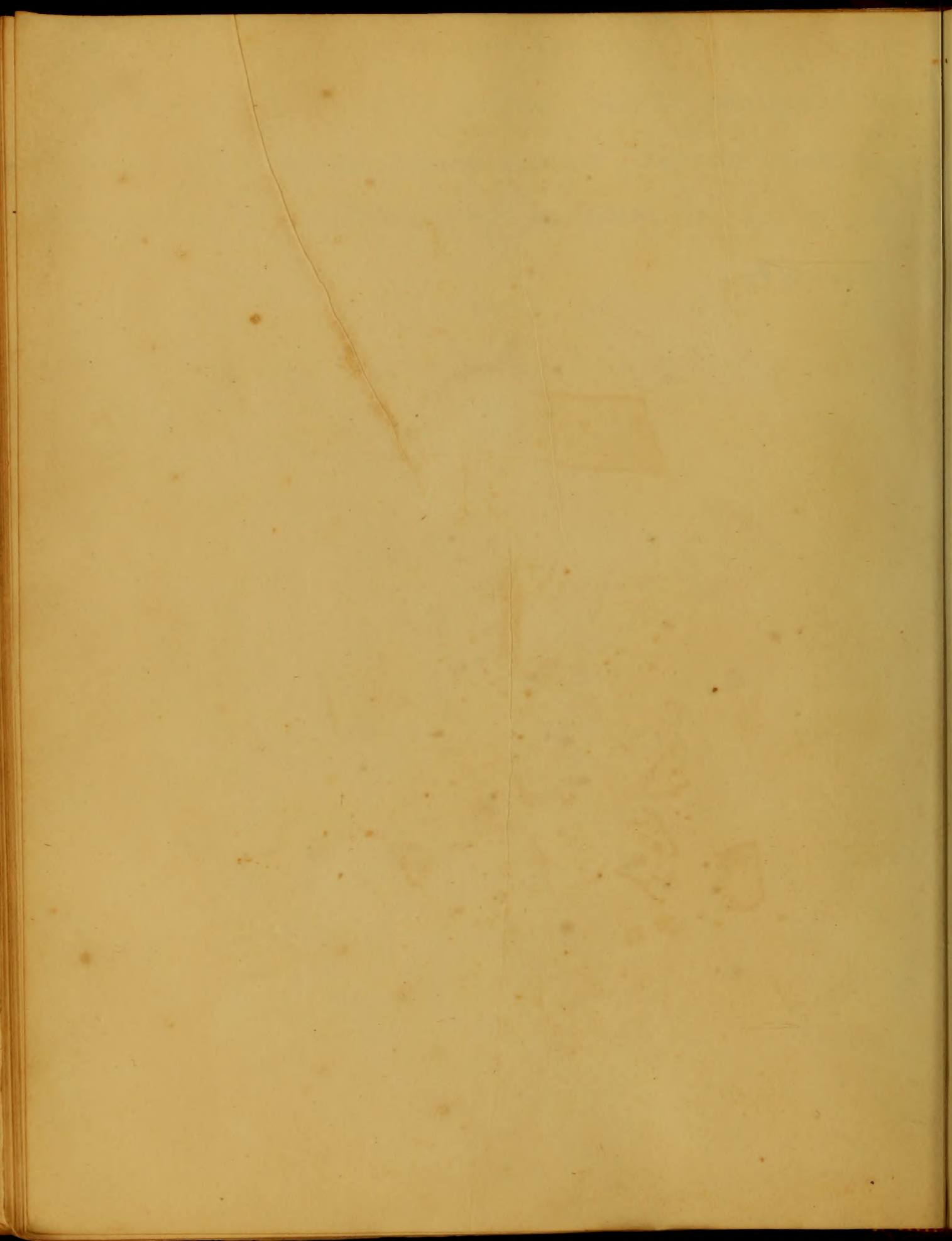
19.  
inguis quam sequando legitur; narratio morbi non  
opit unquam jurare, atque a jurone qualis ego pauci  
respectant disere, autem quicquid ei imponat fatum  
emper opus confecturum jucundissimum juvenilis aetate  
recensebo.





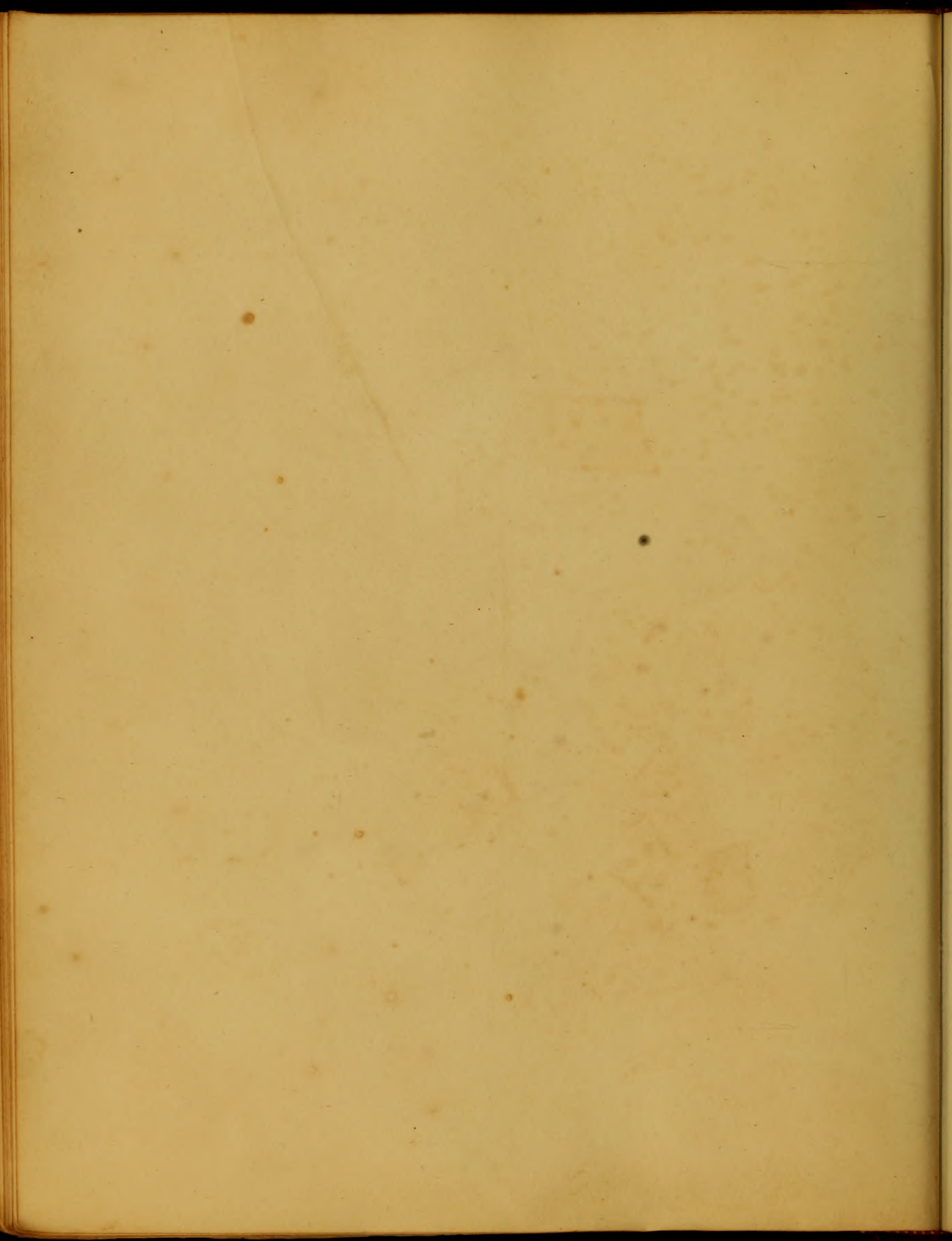


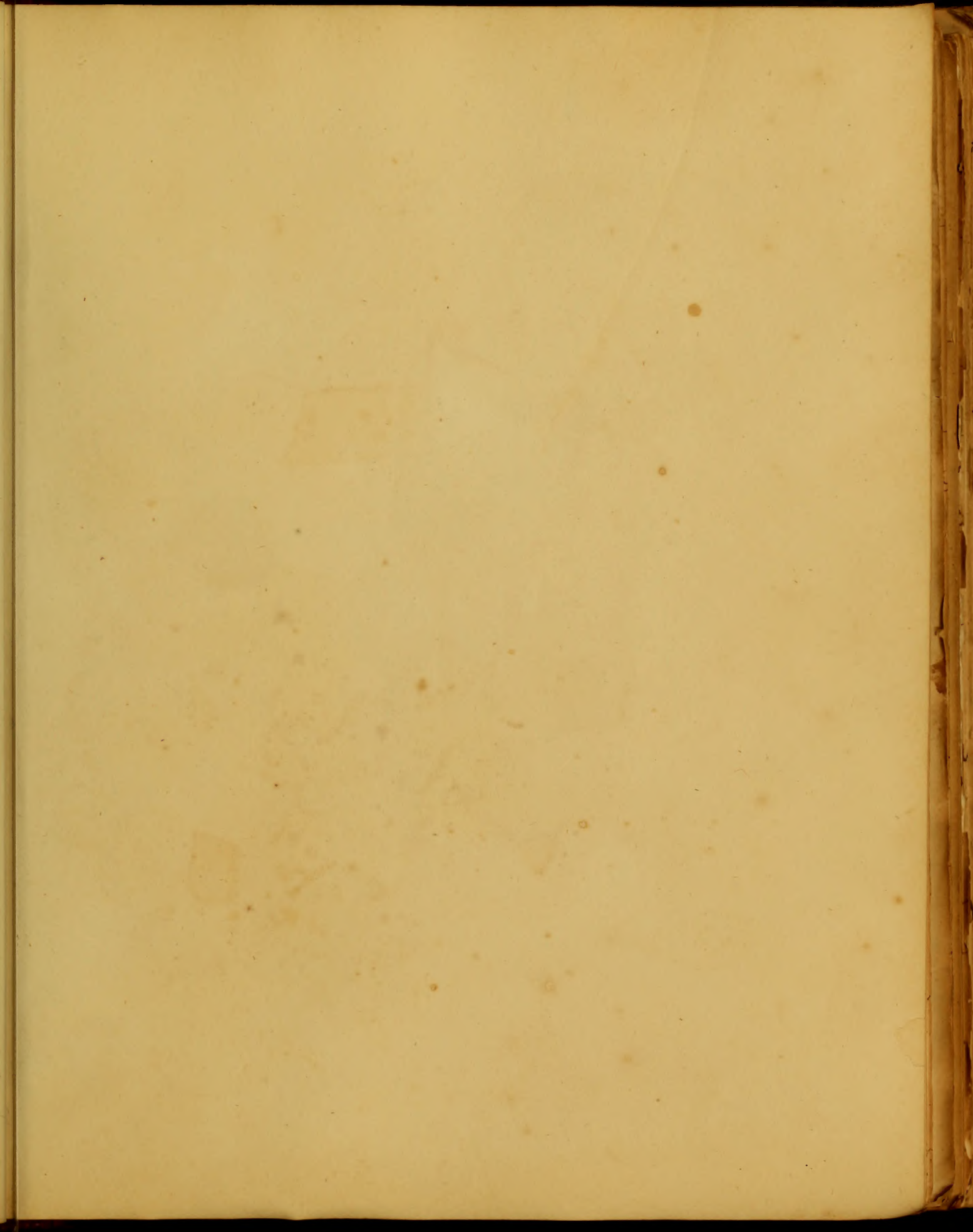




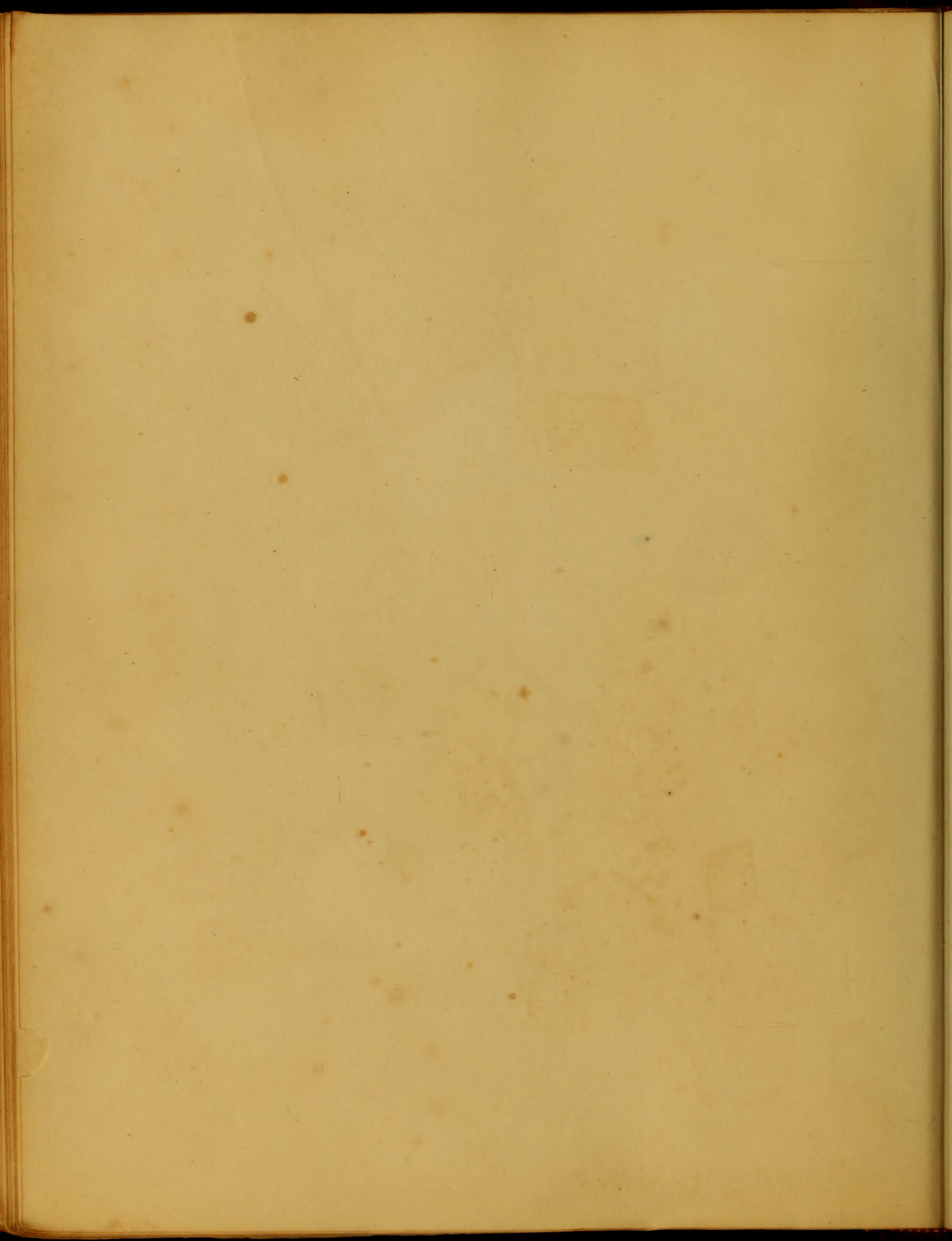






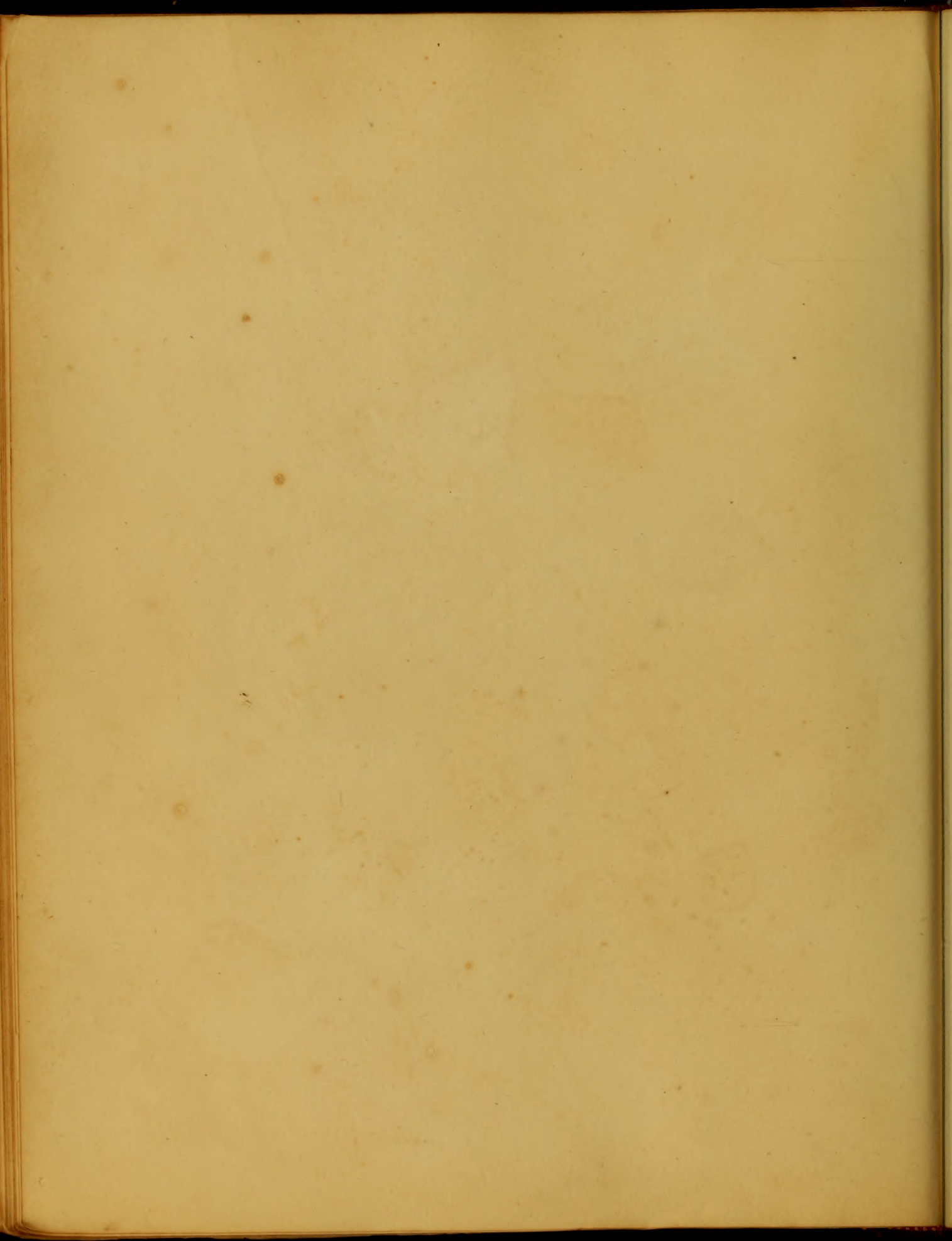






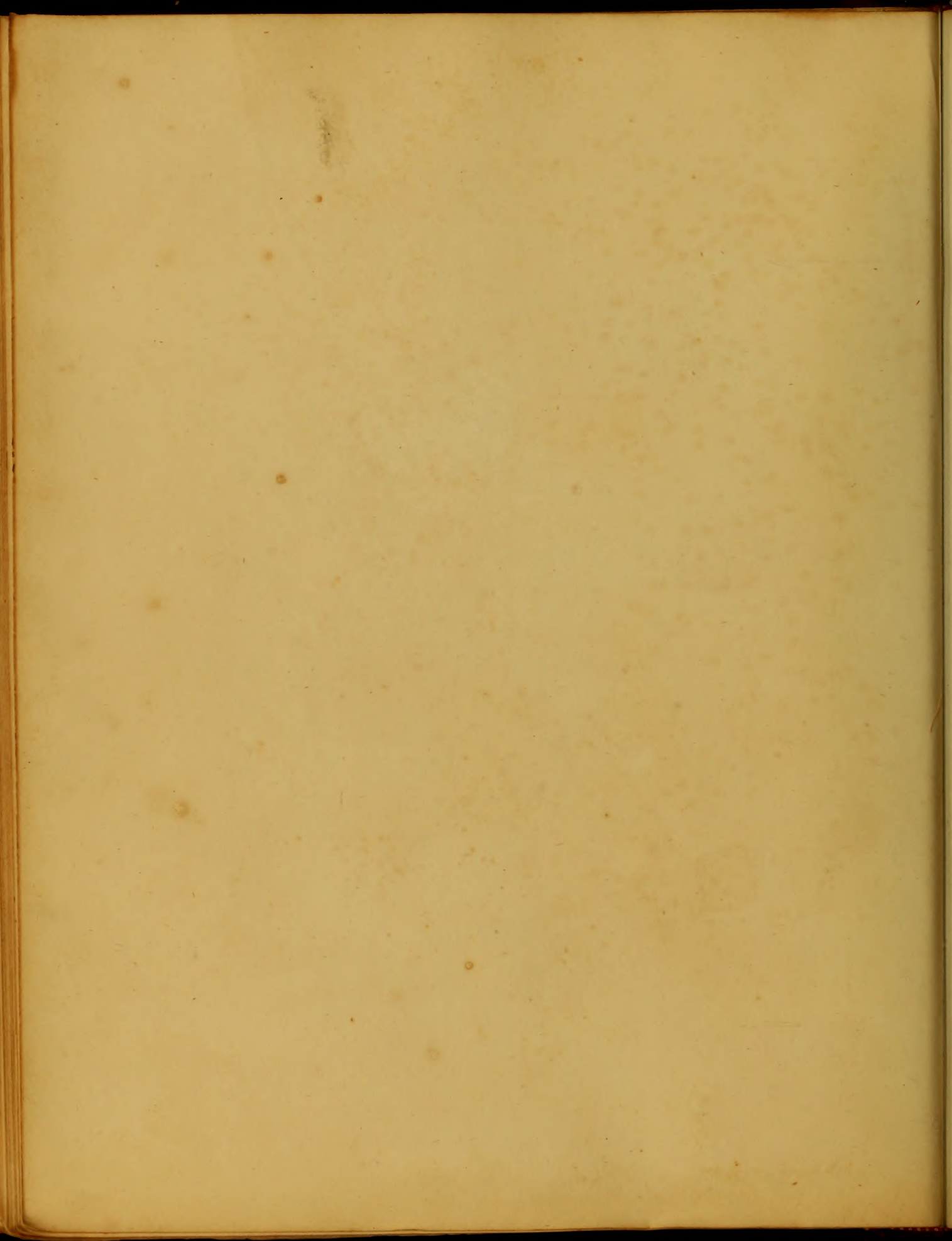






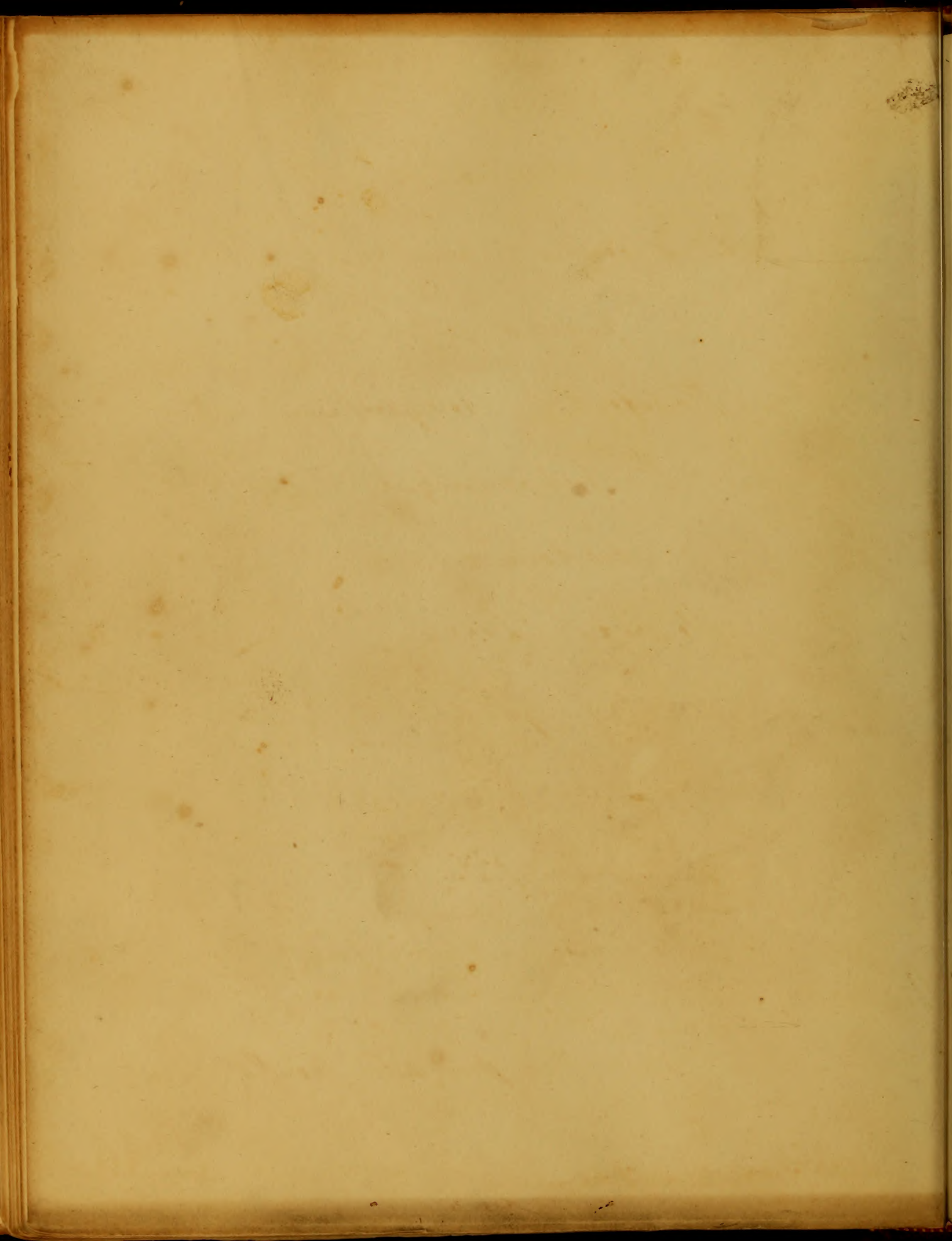












Dissertatio  
de cerebri anatomia,  
iudicio  
Praefecti Praesentium  
Professorumque  
academica  
Mariae Terrae  
pro gradu  
Doctoris Medicinae  
submitta  
A. Maurice Morrison.

Hae die prima mensis martii

1831



Philadelphia

to the Honorable

Senate

of the United States

Washington

District

of Columbia

Dear Sir

I have the honor

to acknowledge

the receipt of your

kind letter of the 10th

1831

Proposari Nathan Smith

hic conatus inscribitur

ab Auctore



Professor A. Cotton Smith

his constant assistance

of the



Mi Care Benefactor,

Credo nullam linguam utcumque eloquentem  
posse expressionem dare palpitationibus  
internis gratitudinis. — Ergo quamvis officium  
pupilli exerceam versus preceptorem thesem  
tibi dedicando; tamen eloquium his affecti-  
onibus, quibus es profecto dignus, in potes-  
tate mea non est. Cum, reflecto de  
claritate, qua me ducebas contra excel-  
-lenciam asperam scientia, et de mun-  
-ificentia, qua partebaris istam intelligent-  
-tiam, cuius possessione insignis es, et de  
cura paterna, qua deducebas vestigia mea  
per labyrinthos philosophia medicalis, —  
cogor dicere, quod debeo plus tibi soli,  
quam omnibus personis, quas unquam vidi.  
Si enumerem haec attributa, quibus  
tu ut civis et philosophus ornaris,  
repetitione dentur rei sit, quam millia  
jamdudum proclamaverunt: "quare gaude  
tes isto tam excellenti bono", De vestra  
benevolentia versus me multum dicere  
possum, sed quoniam mihi restat con-  
-firmare actionibus meis quas ore meo  
locutus sum, absistam, ne permittendo  
suntillare cor, quod salutem vestram  
ardet, transcendam limites, quos formula  
proscribit. — Maurice Morrison







41  
Cerebrum est viscus, quod in cavitate cranii  
situm, quo a violentia externa defenditur.

Membranae, quae involvunt, tres sunt: dura  
mater, membrana arachnoidea, et pia mater,  
prima fibrosa, secunda serosa, et tertia  
tunica vascularis est; nihilo minus hae  
omnes quae per canalem spinalem extend-  
unt, et spinalem chordam involvunt. Dura  
mater membrana prograndi tenacitate  
et casio colore est, superficies superior ap-  
ibus adhaeret, a quibus nisi cum difficultate  
separi non potest. Apud fundamentum  
cerebri, dura mater quam altero loco apibus  
firmiter magis connexa est, ibi emittit  
proceps porcos per numerosa foramina: aliqui  
procepsum arterias et nervos involvunt, et  
in illos gradatim perducuntur. Arteriae num-  
erosae duram matrem sanguine suppeditant,  
quarum largissima est arteria meningialis, ra-  
mus arteria maxillaris interna, in ape  
sphenoidali apud fundamentum cranii  
per foramen spinosum intrat, et stream  
sibi subedit, ut ascendit expendere se in  
membrana in angulo inferiore et anteriore  
apis parietalis. Dura mater per medium  
ramarum ab occipitalibus, vertebralibus et  
pharyngis arteriis quaeque suppeditata est.  
Haec arteria dura matris, quaeque, ape superi-  
inposita sanguine saginant. Proceps a







5.  
cerebrali superficie dura matris in cranio  
descendunt, qui cavitatem cranii in divisione  
ibus plurimis dividunt: hi proceps dura matris  
sunt septum cerebri, tentorium cerebelli, et  
falx cerebelli. Sinus magnus longitudinalis  
marginem superiorem septi cerebri pererrat.  
margo inferior septi parti media commixtura  
magna cerebri congruit, sinus longitudinalis  
inferior in hac plia membrana involuta est.  
Tentorium cerebelli simile arca transverse  
in parte posteriore cranii panditur; margo  
convexa hujus plie fastigio transversa opis  
occipitalis connexa est angulo inferiori parie-  
tali, angulo superiori petrosi, et posterioribus  
clinoidis proecipibus sphenoidi. Ubi cerebrum  
removetur, falx cerebelli exposita est:  
membrana densa, sed parva est, et re levi  
cujus fundamentum supra tentorio adhaer-  
etur, apex est infra apud foramen magnum,  
margo convexa spinae occipiti adhaeret, sinus  
occipitales inter laminae opis involuti sunt;  
margo convexa ejus hemisphaericalis divisiones  
cerebelli separat. Sinus sunt similes venis, et  
sic describuntur: longitudinalis superior et  
inferior, rectus, lateralis dexter et sinister, pe-  
trosi, cavernosi, rotundi, transversus, occipitalis,  
et torcular Herophili, Ubi sinus longitudin-  
alis apertus est, chordae Wittne sunt in medio  
sinus utrinque videri, quae extendunt a tunica







6.  
a latere uno ad alterum. Numerus pororum  
alborum corporum decumbentium in hoc sinus  
aliquando singularem est, sed frequenter magis  
in sepe convolvuntur: glandula Pochioni appell-  
ata sunt. In additione ad numeros parvas  
venas a cerebro et dura matre hic sinus decem  
vel duodecim magnos venas prope verticem ac-  
cipit a superficie superiore hemisphaeriarum  
amborum. Sinu superiore longitudinali de-  
scripto, nunc venio ad descriptionem inferioris,  
de quo non est necesse multum dicere; quia  
non semper adest, vena parva simillimus  
est, et parvas venas a corpore calloso accipit,  
sinus rectus in linea media ponitur inter  
laminae basis palis, et supra tentorium invo-  
lutus est. Sinus laterales sunt largissimi, in  
forma similes ellipsi sunt, quarum unus-  
quisque primum prorsum, et exterioris in  
strua apicis occipitalis procedit, et in angulo  
inferiori parietalis, tunc partem mastoideam  
apicis temporalis descendit, et medius <sup>in</sup> occipitale  
prorsum vertit, et foramine laevo posteriori  
ingressu in vena jugulari interna terminat.  
sinuum unusquisque lateralem numerosas parvas  
venas accipit a lobis posterioribus cerebri, et  
cerebelli. In fundamento cranii sinus sequentes  
siti sunt: sinus cavernosi utrinque a procepu  
anteriori clinoidis ad punctum apicis petrosi  
seus latus corporis apicis sphenoidalis extendunt.







in hac regione dura mater in laminis duabus  
dividitur. vena ophthalmica in parte anteriori hujus  
sinus aperit, et duo sinus petrosales ab ea ad  
sinus laterales retrò extendunt. Sinus petrosales  
sunt quatuor: duo utrinque superior et inferior.  
sinuum unusquisque a caverno sine retrò excurrit.  
Sinus transversus ab uno petrosali sine inferiori  
ad alterum extendit super procepsum cuneiformem  
apicis occipitalis. In falce cerebelli  
sunt duo parvi sinus: occipitales appellati sunt  
in quibus vena a cerebello, et saepe a  
canale vertebrali se vocuant, in torculari  
Hierophili aperiunt. Torcular Hierophili  
est receptaculum, in quo sinus plures terminant  
in situ congruit tuberi apicis occipitalis, et  
inter laminas folii et tentorii involvitur; in  
forma est simile ovo. sex apertiones ei  
sunt: sinus laterales utrinque, sinus longitu-  
dinalis super, sinus rectus antè, et sinus  
occipitales infra sunt. Tunica arachnoidea  
est tunica secunda cerebri, nitida et tenuis  
membrana est, et tactum eruditum exigit  
eam dissecare, et demonstrare. membrana  
arachnoidea e medio pia mater elevari  
potest inflando columnam aris inter has  
membranas. Tertia tunica cerebri est membra-  
na vasculoris, vel pia mater, structura  
cujus est mollis et tenuis, firmè cerebri  
adhaerit, et sequens involuciones ejus cum







substantia ejus gradatim adjungitur. ---  
Descriptis membranis, nunc venio ad descriptionem  
cerebri, et nervorum, qui ab eo oriuntur. Cerebrum  
est pars largipima visceris, ab figura profunda  
in duas partes equalibus dividitur hemisph-  
aeris dextro et sinistro. Unusquisque hemisphae-  
riorum in tribus lobis ab superiori parte  
dividitur, quarum anterior in lamella superiore  
orbis recumbit; lobus medius foram mediam  
in base cranii occupat; lobus posterior in  
tentorio habitat. Cum pars superior hem-  
isphaeri uni a planitia aqua cum cannipura  
magna cerebri removatur, videri est  
spatium album circumscriptum, a linea subs-  
tantia cineria removendo hemisphaerium alt-  
erum a planitia aqua cum cannipura  
magna cerebri centrum magnum ovale  
exponitur, quod est linea substantia  
cineria circumscribens mapam albam centr-  
alem. Cannipura magna cerebri nunc in  
centro cerebri videtur; sed propriam ap-  
pantali quam occipitali, et ea raphe divisa  
est. Ventriculi laterales deteguntur dividendo  
corpus callosum brevi intervallo utrinque a  
raphe; et septum lucidum descendens in linea  
media ab eo ad superficiem superiorem fornicis  
videatur. Ventriculi laterales septo lucido divisi  
sunt, quod in quartis laminis consistit: duae  
quarum sunt utrinque, quintus ventriculus inter







7.  
has existit. Ventriculosi laterales a medio cerebri  
in anterioribus et posterioribus lobis extendunt.  
corpus uniuscujusque retro transit, cornu  
posterum oblique prorsum et exterius descendit,  
et pone figuram Sylvii, et infra cornu pos-  
- terum terminat. Fornix supra corpus callosum et  
septum lucidum horizonti ponitur, et a velo  
interposito et plexis choroidiis facit. Quamvis  
septum lucidum, cui supra alludebam, est  
pars intra ventriculos laterales, tamen haec cavitates  
communicant per foramen quod appellatur for-  
- amen commune anterius. In cornu posteriori,  
ventriculorum est parva eminentia hippocampa  
minor, in cornu inferiori hippocampam majorem  
videmus extendentem secus aream cavitatis, et  
terminantem in expansione tuberculata, pede  
hippocampae secus marginem interiorem ejus est  
arcta alba copula tania hippocampa vel  
corpus fimbriatum. In ventricosis laterales  
thalami optici videntur sunt: duo alba corpora  
mutuo tangenta interne, haec commissio commipu-  
- ra mollis appellatur, genus figurae thalamos  
separat, haec figura in parte anteriori  
ducit ad foramen commune anterius, et  
haec foramen est pone commissuram mollem,  
et inter pediculos glandis pituitariae situm  
Thalami optici videntur duo tubercula corpus  
geniculatum internum et externum, sub parte  
inferiori thalamorum opticeorum, Ventriculosus







101  
tertius est cavitas arcta in media linea  
situs, et terminatur utrinque a thalamis  
opticis, supra velo et fornice, infra tubere  
cinereo, et loco perforato prorsum columnis  
fornicis, et commixtura anteriori retrorsum,  
commixtura posteriori, et glande pienniali,  
Canalis parva ducit retro a parte posteriori  
ventriculi tertii; hoc est aquaeductus  
Sylvii, vel iter ad quartum ventriculum  
Commixtura anterior est chorda discreta ro-  
tunda extendens ab uno hemisphaerio ad  
alterum, et terminans in radiis prope  
figuram Sylvii. Commixtura posterior  
pone ventricosum tertium transverse exten-  
dit supra aquaeductum Sylvii, et ante  
tuberculum quadrageminum. Tubercula  
quadrigemina sunt sub hac commixtura  
et glande pienniali, a plano obliquo duo  
superiora et anteriora nates appellata sunt  
duo inferiora et posteriora testes appellata  
ex supra et pone aquaeductum Sylvii  
sunt, qui separat illos a ponte Varolii  
nates thalamis opticis conectuntur, et  
testes cerebello, hi sunt procepus a  
cerebello ad testes; hi dividunt erga  
cerebellum, et continui sunt externi  
et infra cum denso rotundo albo pro-  
cepu, crure cerebelli, inter hos duos proce-  
pus lamina tenuis extenditur valvula







Vicupentes appellatur, vel quartus ventricosus. Crura cerebri convergunt et descendunt, et terminant in extremitate superiori pontis Varolii, tertius ventricosus inter ea est, et tractus aptius utrinque circumdant. Pons Varolii, vel connipura cerebelli in cerebello oblique ponitur, quartus ventricosus aquaductus Sylvii, et tubercula quadrigemina sunt in superficie superiori et inferiori ejus superficies anterior et posterior in ope quiescit. Pons Varolii ab aliquibus scriptoribus describitur ut portio medulla oblongata, tamen cum ea connectitur tam cum cerebro, et cerebello, denique quasi communis omnibus consideratur. Per emovendo lobos posteriores cerebri, et dividendo tentorium, cerebellum exponitur, quod in dexteris et sinistris parte et ante dividitur a fovea profunda: hac fovea foveam cerebelli recipit. Secus circumferentiam uniuscujusque hemisphæri fissura profunda extendit, apud fundum cujus chorda alba videtur, hæc est crus cerebelli scriptorum, in partem Varolii jungendum prorsum ascendit, Dividendo hemisphæris horizonti, massa substantia alba observetur, germinans in fibris tenuibus prope, in centro hujus massa alba quæ cum proseppe ad testes continua <sup>superiora</sup> est et inferiora cum crure cerebelli est, massa ovalis



*[The text on this page is extremely faint and illegible, appearing as a series of light-colored lines on a yellowed background. It likely contains a list or a detailed account of items, possibly related to the botanical specimens mentioned in the adjacent page.]*



substantia cinerea: haec est corpus dentatum  
 vel rhomboidaeum. Substantia alba qua  
 a medulla oblongata ad crus cerebelli  
 extendit per hoc transire videt, a quo  
 in quantitate crescit, hinc ab aliquibus  
 scriptoribus ganglion cerebelli appellatur.  
 Medulla oblongata est ista portio alba  
 substantia, qua a margine inferiori pontis  
 Verolii extendit ad chordam spinalem circum  
 pollicem in longum, et a linea longitudinali-  
 bus in sex eminentias dividitur, quae parallelae  
 sunt. Corpora pyramidalia sunt circum  
 pollicem in longum, a parte superiori chorda  
 spinalis oriuntur, et continent corpus dentatum  
 popula superficiali ab eminentiis prioribus  
 separata sunt, extremitas superior illorum  
 in ponte Verolii continuatur.  
 Corpora restiformia longiora quam prioribus  
 sunt, figura separata sunt, quae a calamo  
 scriptorio seu lineam mediam posteriorem  
 chorda spinalis continuatur, corpora restifor-  
 mia supra in cruribus cerebelli continuantur,  
 hinc aliquando proceps a medulla  
 spinali ad cerebellum appellantur.



substantia curae: hoc est corpus continentium  
vel substantiam. Substantia illa que  
a materia oblongata ad eam creditur  
retinetur per hoc temperamentum, a quo  
in quantitate crevit, sine ad aliquam  
conformationem partem creditur appellatur.  
Materia oblongata ad hanc partem esse  
substantia, que a materia inferiori partem  
habet, etiam ad hanc partem operationem eorum  
habentem in tempore, et a hinc substantiam  
hinc in eis numerata dicitur, que partem  
sunt. Partem substantiam sunt eorum  
habentem in tempore, a parte superioris partem  
quodammodo, et continentia corpus continentium  
partem substantiam ad numerum partem  
operatur sunt, continentia superioris illorum  
a parte illius continentium.  
Partem substantiam superioris partem partem  
sunt, partem operatur sunt, que a eorum  
superioris sunt numerum partem  
chose sunt continentia, corpus continentium  
sunt partem in partem creditur continentia  
sunt, hinc ad partem partem a materia  
operatur ad continentiam appellatur.



19.

Cerebro descripto nunc venia ad descriptionem nervor-  
um qui ab ea oriuntur.

Par primum sita infra lobos anteriores cerebri  
a figura Sylvii oriuntur, in bulbo ovali  
terminantur, qui situs supra laminam cribrosam  
opis ethmoidici, per quam transeunt, et  
expanduntur in membranas nasi: nervi sen-  
sui specifici olfaciendi sunt.

Par secundum, vel optici a matibus et tes-  
tibus oriuntur, per foramen opticum transeunt,  
et in retina terminantur.

Tertium, vel motores oculorum a latere  
interiori crurum cerebri oriuntur, per  
foramen lacuum orbitale transeunt, et  
in quinque musculos in orbita distribu-  
ntur.

Quartum a valvula Vieussentis oriuntur,  
quorum unusquisque canalem parvam inter  
laminae tentorii intrat, et traiecit ad  
musculum superiorem obliquum oculi.

Quintum, vel trigemina largipima cerebra-  
lium nervorum sunt, a ponte Varolii  
oriuntur tunica densa membrana fibrosa  
illis est, nervis spinalibus similes sunt.

Sextum a corporibus pyramidalibus orientur,  
per foramen lacuum transeunt, et  
in musculos rectos externales oculorum  
distribuentur.





14.  
Septimum a corporibus testiformibus ad aurem  
et faciem eunt,

Octavum a corporibus olivaribus et testiformibus oriuntur, per foramen jugulare trans-  
eunt.

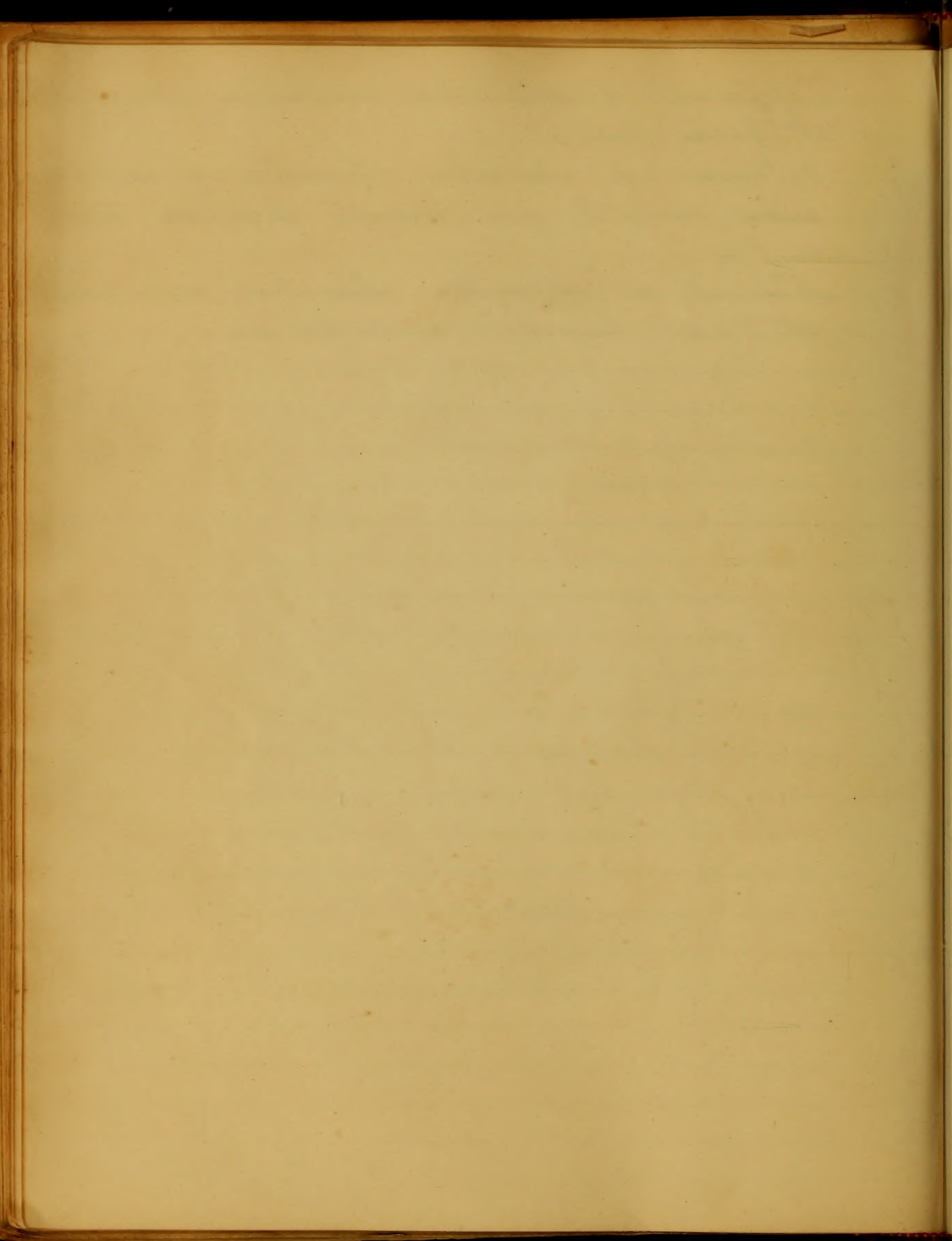
Nonum a corporibus olivaribus oriuntur,  
et ad linguam mittentur—





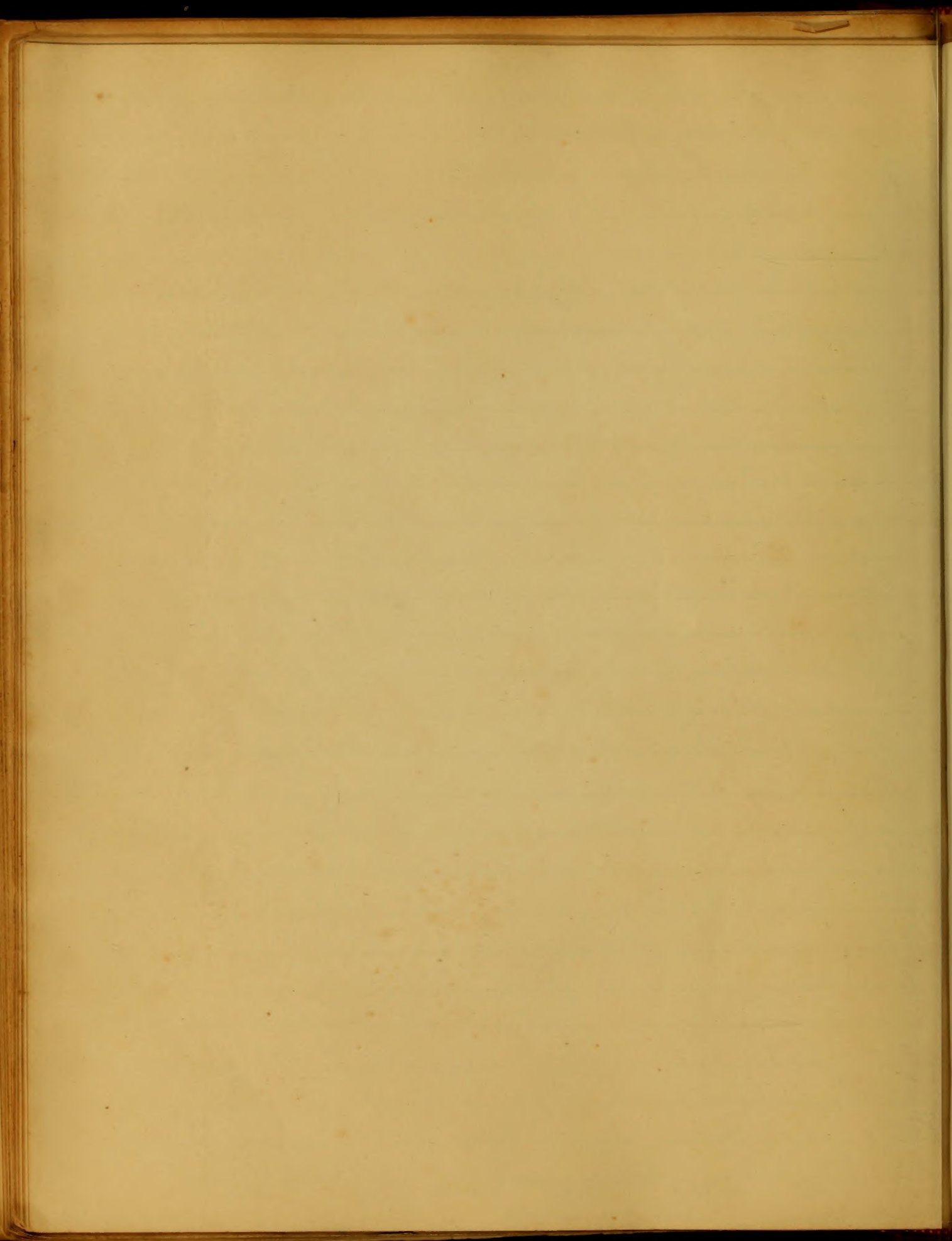


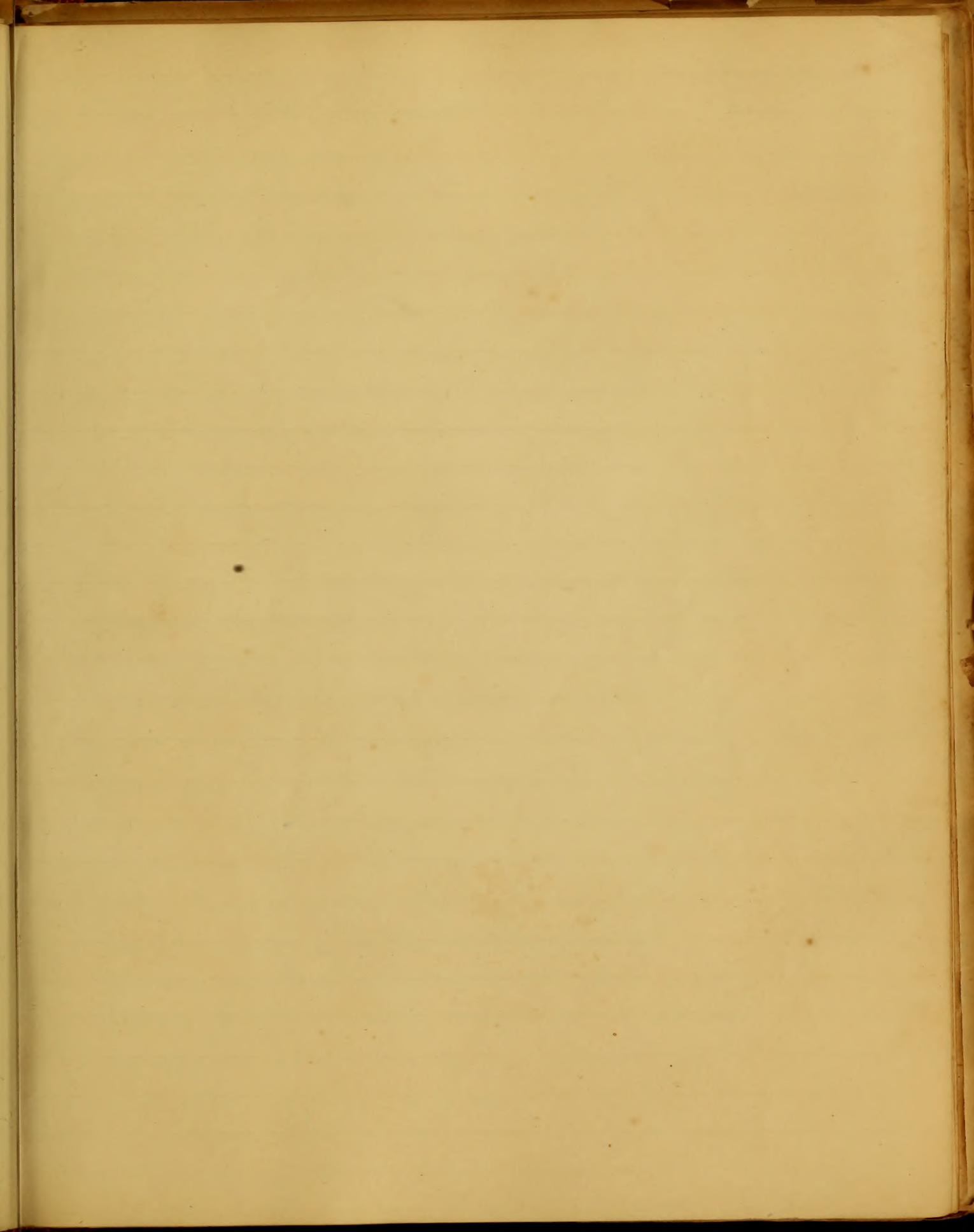




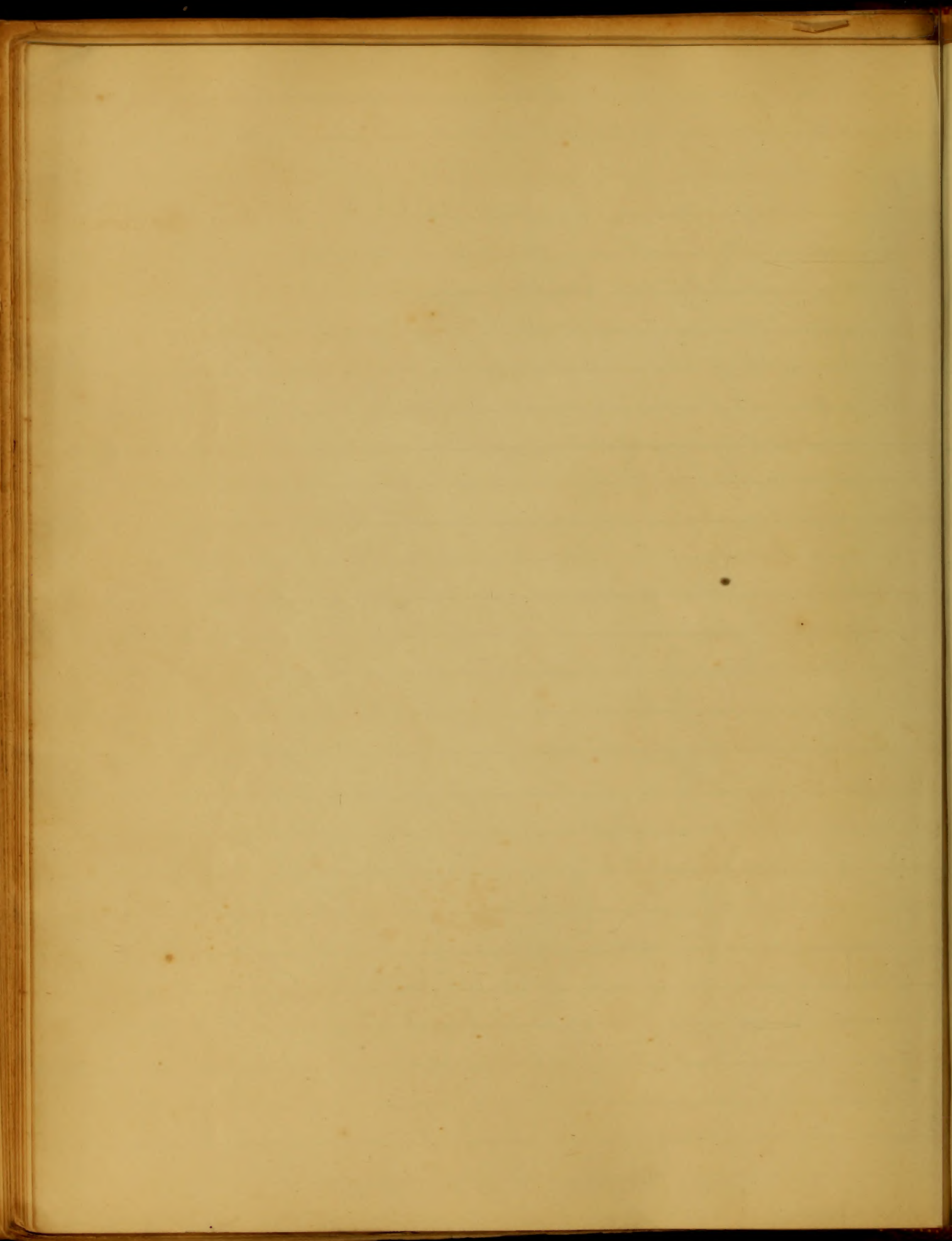


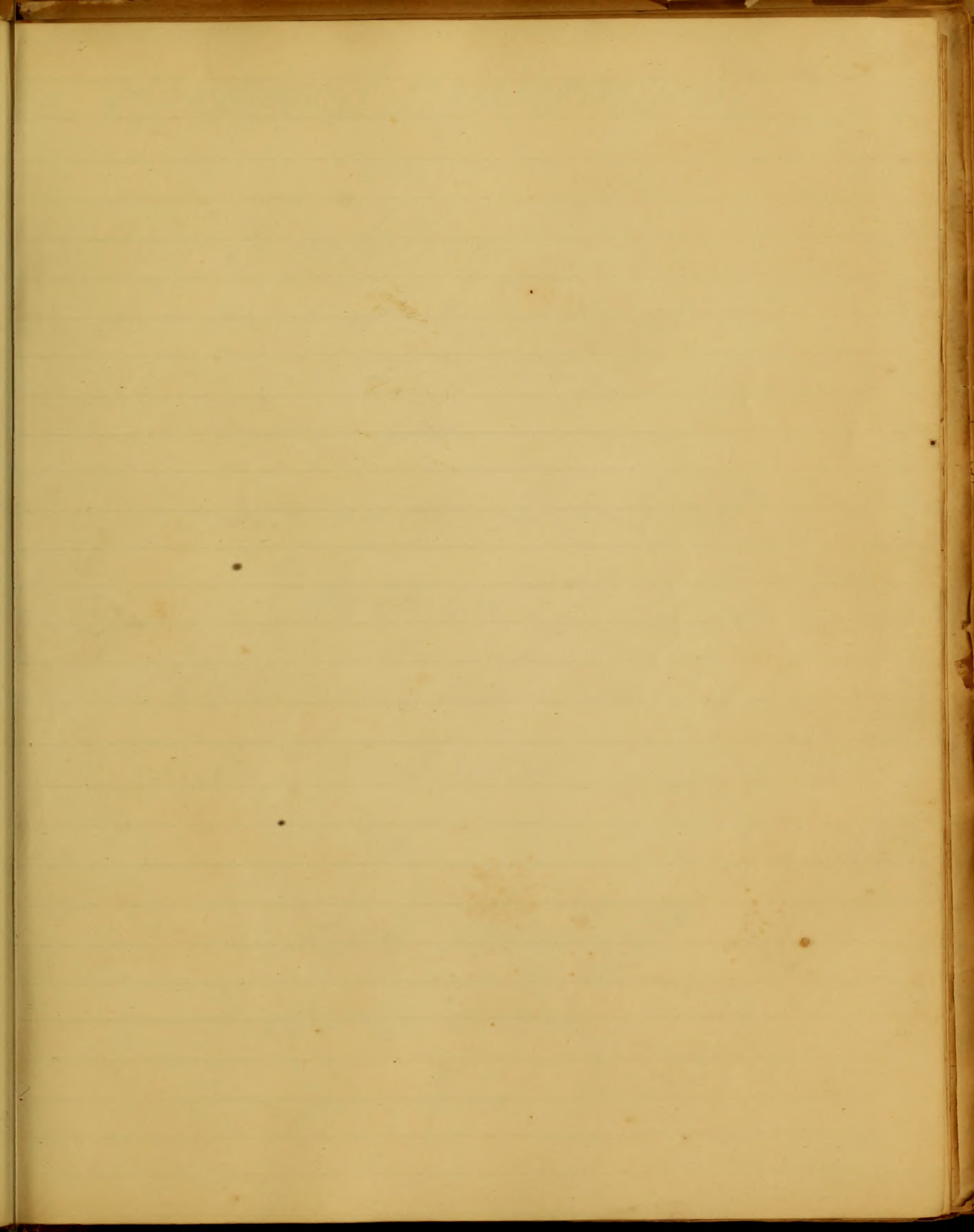




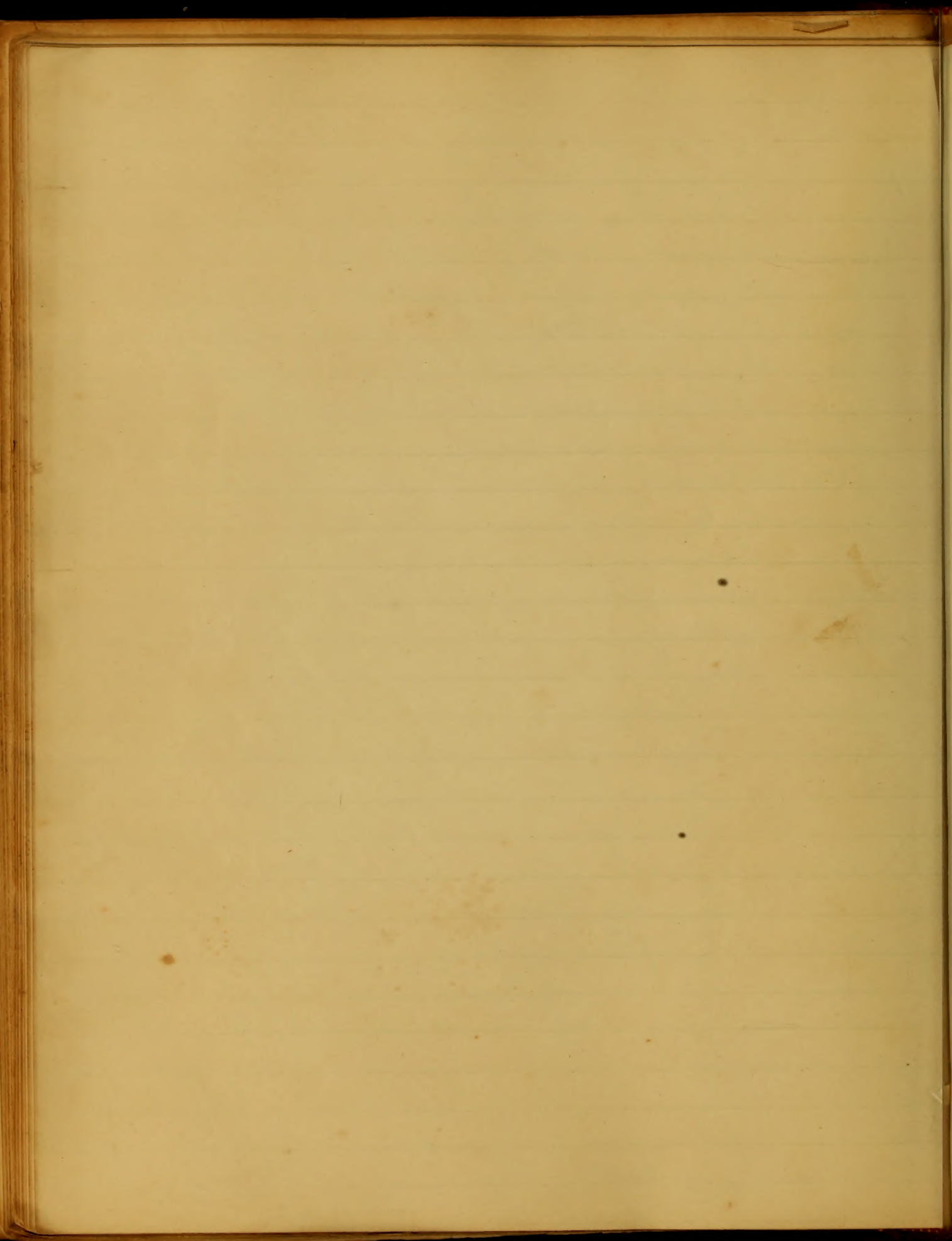












Inaugural Dissertation

on

Epilepsy

Submitted to the University of Maryland

in partial fulfillment of the requirements

of the

University of Maryland

for the degree of

Doctor of Medicine

In April 1881

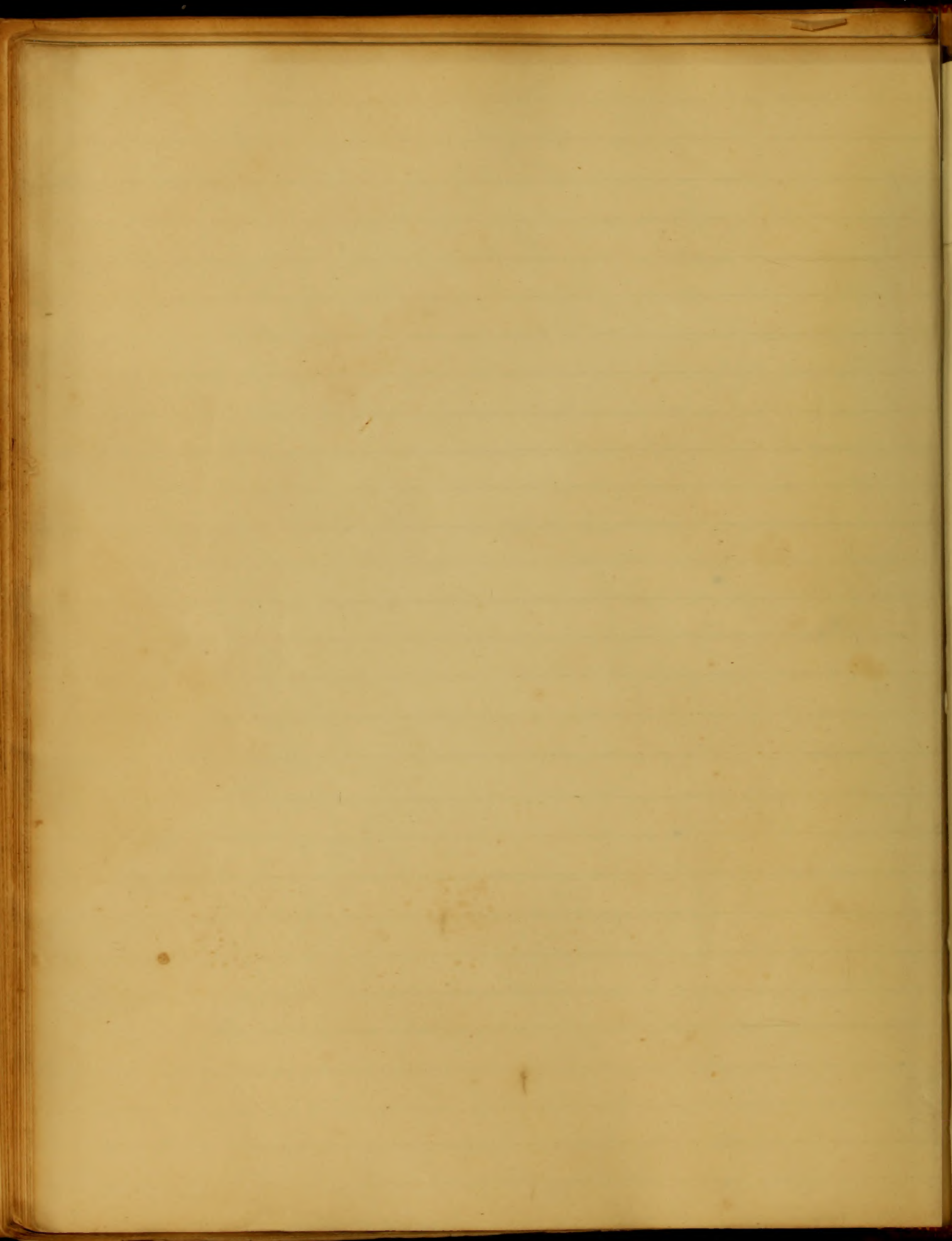
by

Joseph H. Stoughton

Fredrick County

Maryland.





Inaugural Dissertation

on

Epilepsy

Submitted to the examination of the  
Proost and Medical Faculty

of the

University of Maryland

For the degree of

Doctor of Medicine

In April 1831

By

Joseph Singluff<sup>©</sup>

Frederick County

Maryland.



University of Maryland

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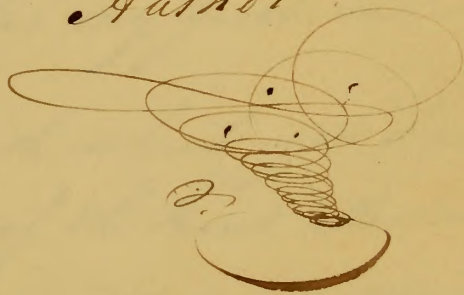
To Nathaniel Potter M. D. Professor of Theory  
and Practice in the University of Maryland.

Dear sir,

I avail myself with the greatest  
pleasure of the opportunity which is now  
offered to me of returning my most grateful  
acknowledgments for your kind attention  
on various occasions during my pupilage.

But more especially for the anxiety which  
you manifested with regard to my recovery  
during my late illness, has left an impression,  
the recollection of which shall ever be asso-  
ciated with feelings of the deepest gratitude  
by the

Author





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*[Faint, illegible handwriting, possibly a signature or initials.]*



Samuel Baker M. D.  
Professor of Materia Medica & Therapeutics  
in the University of Maryland.

Dear Sir.

It affords me the highest degree of satisfaction to have an opportunity in this public manner to offer you my sincere acknowledgments for the instructions, which I have received from you during the time I had the honour of prosecuting my medical studies under your directions & for the many favours you have conferred on me; as a public testimony of my respect & as a slender tribute of gratitude, allow me to dedicate to you, this my first medical essay. Of the politeness with which you have always honoured me & of the kind attention which I received from you during my late illness, I shall ever retain a grateful feeling & be assured, dear sir, that no length of time or extent of distance can ever lessen that real affection, which is now cherished by  
Your sincere friend & former pupil  
Joseph Klingluff.



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## Epilepsy.

Epilepsy whether considered in its immediate phenomena or remote consequences, is unquestionably one of the most distressing and deplorable of human maladies. Its tendency to impair the understanding, to produce hebetude, and even total abolition of the rational powers, leads often to a condition infinitely more lamentable than death itself. So frightful and distressing a disease could not fail to attract the particular attention of the physician of every age; and we accordingly find it minutely described, & its nature & treatment extensively discussed in the works of the Greek & Roman physicians; Hippocrates describes epilepsy under the name of *Morbus sacer*; a name which was given to it from its supposed origin, it being generally regarded at his day, as an infliction of the Gods, or of demonic influence. Aristotle treats of it, under the name of *Morbus herculeus*.



1844

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Definition. Epilepsy has been defined to be a disease primarily seated in the nervous system manifested by convulsions, recurring at uncertain periods, in paroxysms, accompanied by temporary loss of consciousness, sense & voluntary motions & terminating in somnolency.

Symptoms The epileptic attack sometimes comes on suddenly without any manifestations of its approach. Now frequently, however, certain symptoms precede the occurrence of the paroxysm & of these the following are the most common. A peculiar confusion & distressing feeling in the head, an absent or wandering and confused state of the mind; giddiness; dimness of sight; ringing & loud sounds in the ears; sparks & flashes of light before the eyes; distention of the veins of the head & neck; a trembling & feeling of restlessness in the extremities; an anxious feeling in the praecordial region; starting during sleep; loss of power & of distinct



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articulation; complete temporary deafness & drowsiness; in some instances there is a manifest change in the moral disposition, a short time before the accession of the attack; sullen gloominess with an irritable temper is manifested by some patients.

In some cases the mind falls into a kind of reverie from which it cannot be drawn, & which terminates often in total insensibility.

Occasionally spasmodic twitches of particular muscles, especially in those of the face, precede the attack.

The most remarkable of the premonitory symptoms, however, is that which is technically called *aura*. The sensation to which this term is applied, & which, I believe, occurs in no other disease, is compared by patients to a gentle stream of cool air directed on the face. This sensation generally commences in the feet or legs, & gradually ascends until it reaches the head when the patient instantly becomes insensible & epileptic. Some patients are enabled by this symptom to tell with accuracy



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4.  
The nearness of the attack, & to avail themselves of this intimation to place their bodies in such a situation in which they will be best able to sustain injury during the attack.

Spicula of bones, tumours, & foreign bodies pressing upon & irritating some nerve, have been found to exist at the starting point of this singular sensation; the primary condition is however, invariably, seated elsewhere, & transferred sympathetically to the part in which the aura commences.

In many instances, the attack occurs at night whilst the patient is sleeping. In this respect epilepsy differs conspicuously from Chorea, the convulsive motions of which, however violent during the day, are almost wholly suspended during sleep.

When the epileptic seizure occurs whilst the patient is sitting or standing, he suddenly falls down in a state of insensibility, & immediately becomes more or less violently convulsed. In some instances, the convulsive actions of the muscles, particularly those of the



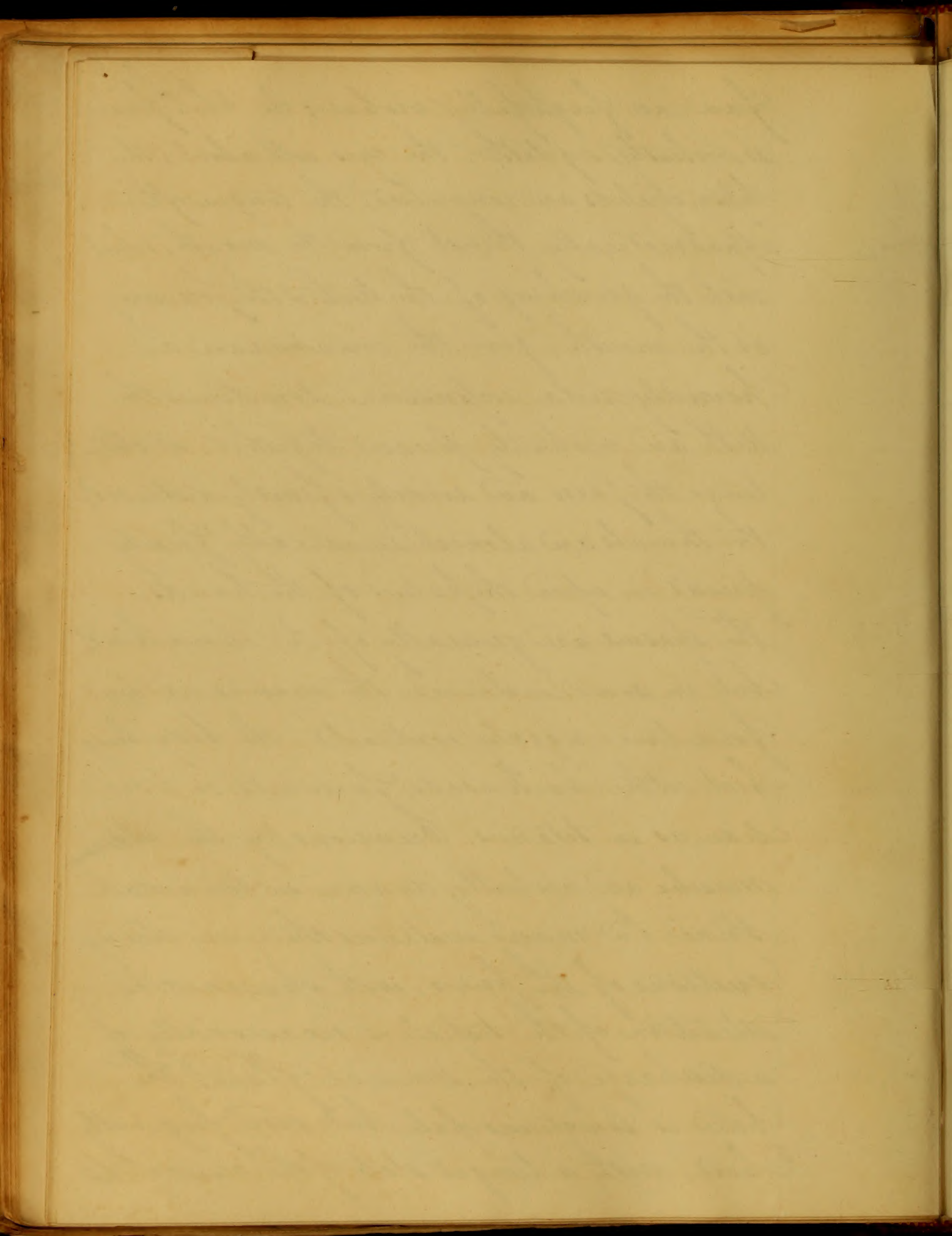
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face, are frightfully violent; the whole frame  
is violently agitated; the eyes roll about; the  
lips & eyelids are convulsed; the tongue often  
spasmodically thrust from the mouth, which  
with the gnashing of the teeth & the foaming  
at the mouth, give the countenance a  
horridly wild expression. Sometimes the  
teeth are violently pressed together; at other  
times they are widely & fixedly distended;  
the thumbs are almost invariably firmly  
pressed in upon the palms of the hands.

The spasms are generally of the clonic kind;  
but in some instances, the muscles remain  
for a time rigidly contracted, the body being  
beaten either backwards, forwards or to one  
side, as in tetanus. Occasionally the abdominal  
muscles are violently drawn in towards the  
spine. In many instances there are strong  
erectious of the penis, with spasmodic  
retraction of the testicles & occasionally of  
a discharge of the seminal fluid. The  
face is sometimes pale, but more frequently  
livid, with a turgid state of the veins of the

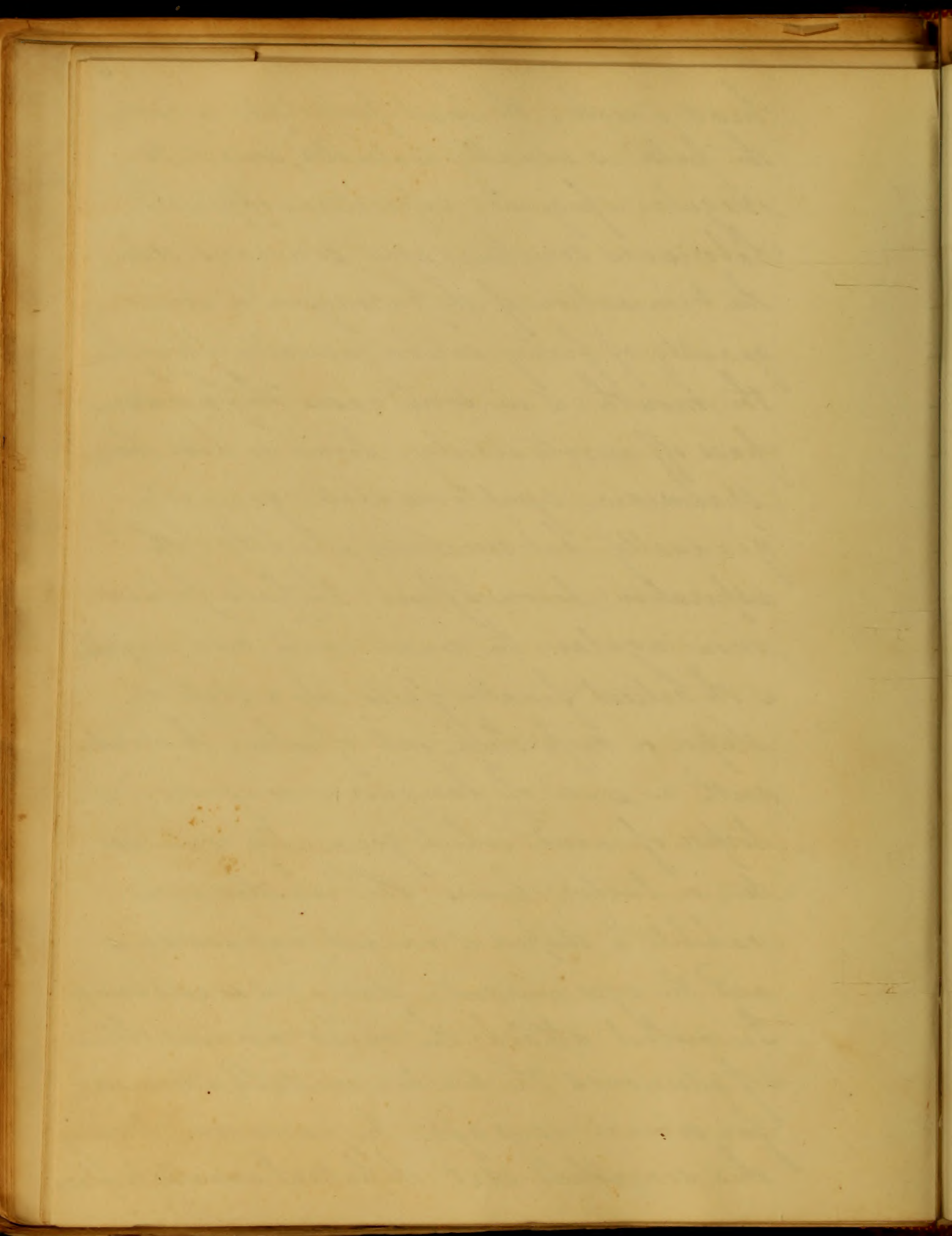






6.  
head & neck; the heart palpitates rapidly; the pulse is usually contracted, small, & irregular & frequent; respirations oppressed, laborious & sometimes even sonorous. About the termination of the paroxysm a considerable quantity of frothy saliva usually flows from the mouth; & in some cases the feces will pass off involuntarily. Sooner or later these spasmodic symptoms abate; generally gradually, but sometimes abruptly. The respiration becomes freer; the pulse fuller & more regular; the countenance more composed; & the patient finally falls into a state of stupor or deep sleep, out of which he awakes with a sense of languor & confusion & torpor of mind, which generally continues ten or twelve hours. The countenance exhibits a stupid & vacant expression; and the eyes are dull, staring & wandering. In violent attacks the mind remains obtuse & at times the temper irritable & morose, for several days after the paroxysm. During this somnolent state the patient usually perspires





7.  
freely; & the perspiration has frequently an  
peculiarly offensive smell. Epilepsy, does  
not however, always, assume such a  
violent character. Sometimes the attack  
supervenes suddenly, & after a few moments  
partial convulsions of the muscles of  
the face & neck quickly subsides, & restores  
the patient to consciousness.

In relation to the duration of the  
epileptic fit there exists great diversity.  
The convulsive stage generally continues from  
10 to 15 minutes, sometimes for half an hour,  
& occasionally for days. The paroxysms are  
most apt to become protracted in children.  
In most instances one paroxysm only occurs  
at a time — sometimes however they recur  
in succession, the patient passing from one  
paroxysm into another, with but a very short  
interval between them.

With regard to the interval of the epileptic  
seizures there also exists considerable diversity.  
In some few cases the paroxysms recur almost  
daily, in others from a few days to a whole year.



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45.

Occasionally the paroxysms recur regularly at the periods of new & full moon. Richter observes that cases arising from gastric or intestinal irritations & from catamenial irregularities, are most apt to assume a periodical character.

Prognosis. Epilepsy seldom proves fatal, except through the intervention of apoplexy. When it recurs very frequently, however, the mental powers gradually fail, until at last a total imbecility or idiotism is produced, & this takes place sometimes in less than two years. Although the immediate danger of the epileptic paroxysm is not in general very great; yet in relation to its curability, the prognosis is always highly unfavorable. Even when a cure or suspension of the disease has been effected the liability to a relapse is always considerable. When epilepsy depends on organic disorder within the head, no medical management can effect a cure. Epilepsy however unconnected with cerebral lesion may sometimes be cured. That variety of



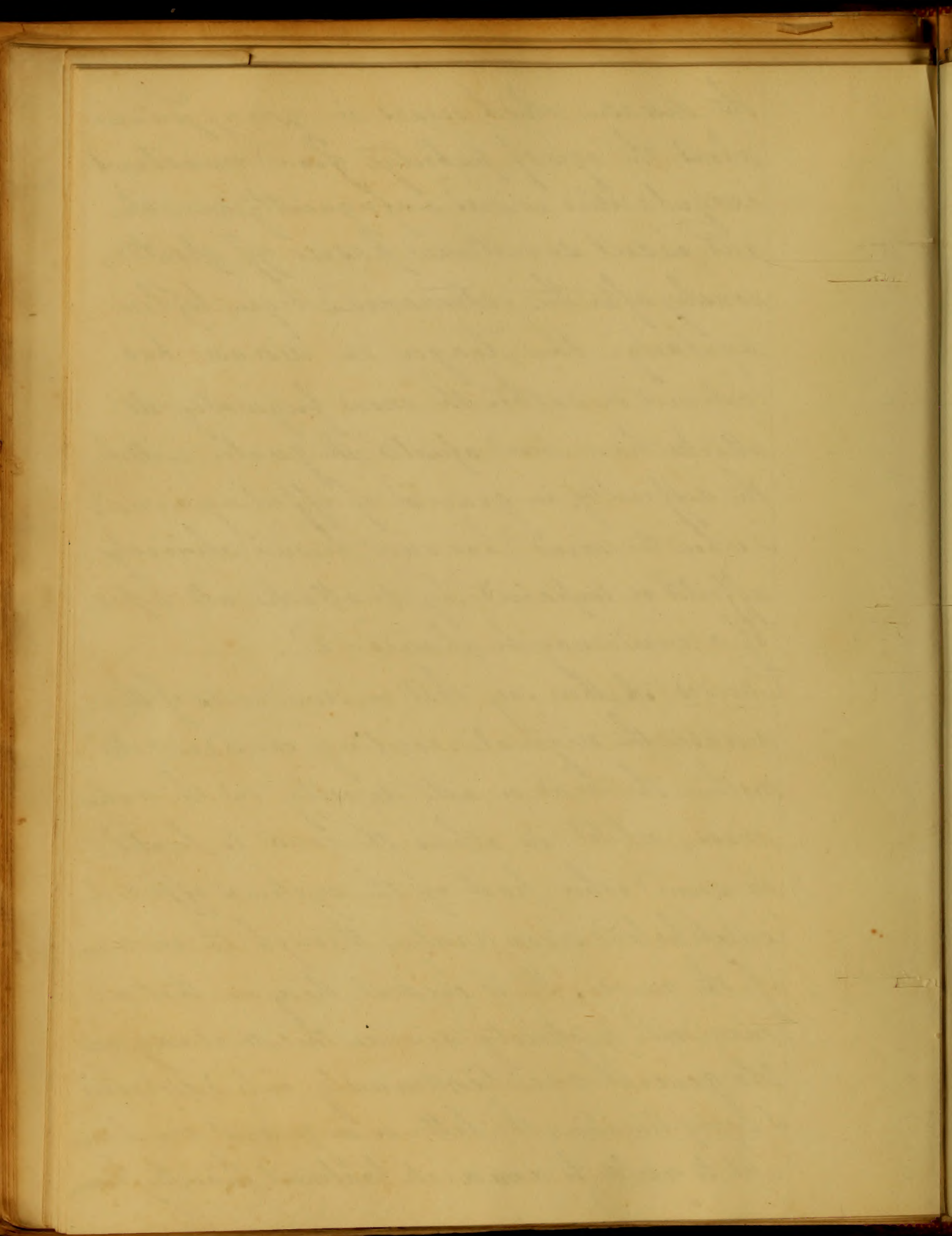
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The disease which occurs in young females about the age of puberty, from menstrual irregularities is not unfrequently curable, and indeed sometimes passes off spontaneously after the catamenia begin to flow regularly. The longer the disease has continued or rather the more frequently its attacks have been repeated the greater will be the difficulty, in general of effecting a cure, & when the mind has once become obviously affected or impaired by its attacks, all hopes of a cure may be abandoned.

Causes. Authors say that in some cases of this disease the original exciting cause is seated within the head or acts directly on the cerebral mass, whilst in others the cause is located in some other part of the system & affects the encephalon secondarily; through the medium of the nerves. It is evident therefore that we may with propriety divide this malady into two general varieties; namely, into idiopathic & symptomatic; the latter is in general much more apt to yield to remediate treatment than the former.



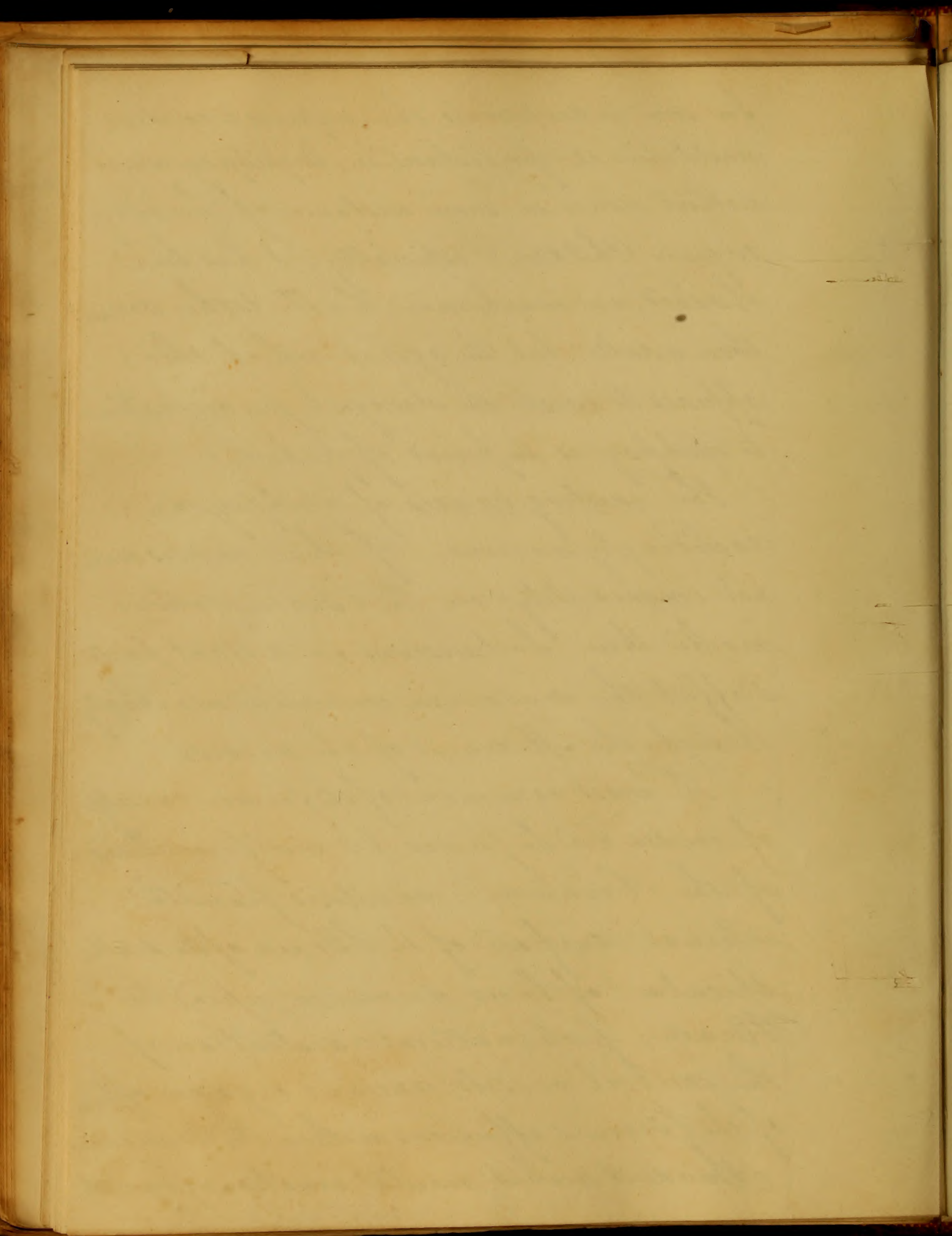


In some individuals there appears to exist a constitutional predisposition to epilepsy, it is without doubt in some instances of hereditary origin. Children, especially, it has been observed, are much more liable to this disease than adults; but the age at which there appears to exist the strongest predisposition to epilepsy is the period of puberty.

The exciting causes of epilepsy are exceedingly various. Of these causes some act immediately on the Brain & others make their Impressions on distant parts & affect the sensorium communis secondarily through the Medium of the nerves;

The most common of the former variety of causes are Injuries & malformations of the Cranium; exostosis from the internal surface of the Bones of the skull; Spiculæ of bones driven in upon the Brain; preternatural distention of the cerebral vessels; various organic affections of the Brain & effusions within the Cranium. Madæ & violent mental emotions frequently





11.  
produce this disease by a morbid excitement  
originating in the Brain. Fear, terror, grief,  
& other disagreeable, sensual & mental  
Impressions have been known to give Rise  
to epilepsy. Many remarkable instances  
have been excited by disagreeable & strong  
impressions on the senses, have been reported.  
Strong odours, sudden & vivid light, loud  
Speculiar sounds & certain colours have  
produced this disease in irritable habits.  
This disease has frequently been excited &  
reexcited by a sight of a person affected with  
the epileptic paroxysm.

Among the Causes that act upon the  
Brain through the general system, gastric  
or intestinal irritation is perhaps the most  
common. Worms & indeed every other substance  
which is capable of producing an irritation  
in the nervous extremities of the mucous  
membrane of the alimentary canal, may  
give rise to this affection, in weak & irritable  
habits.

The suppression of habitual discharges



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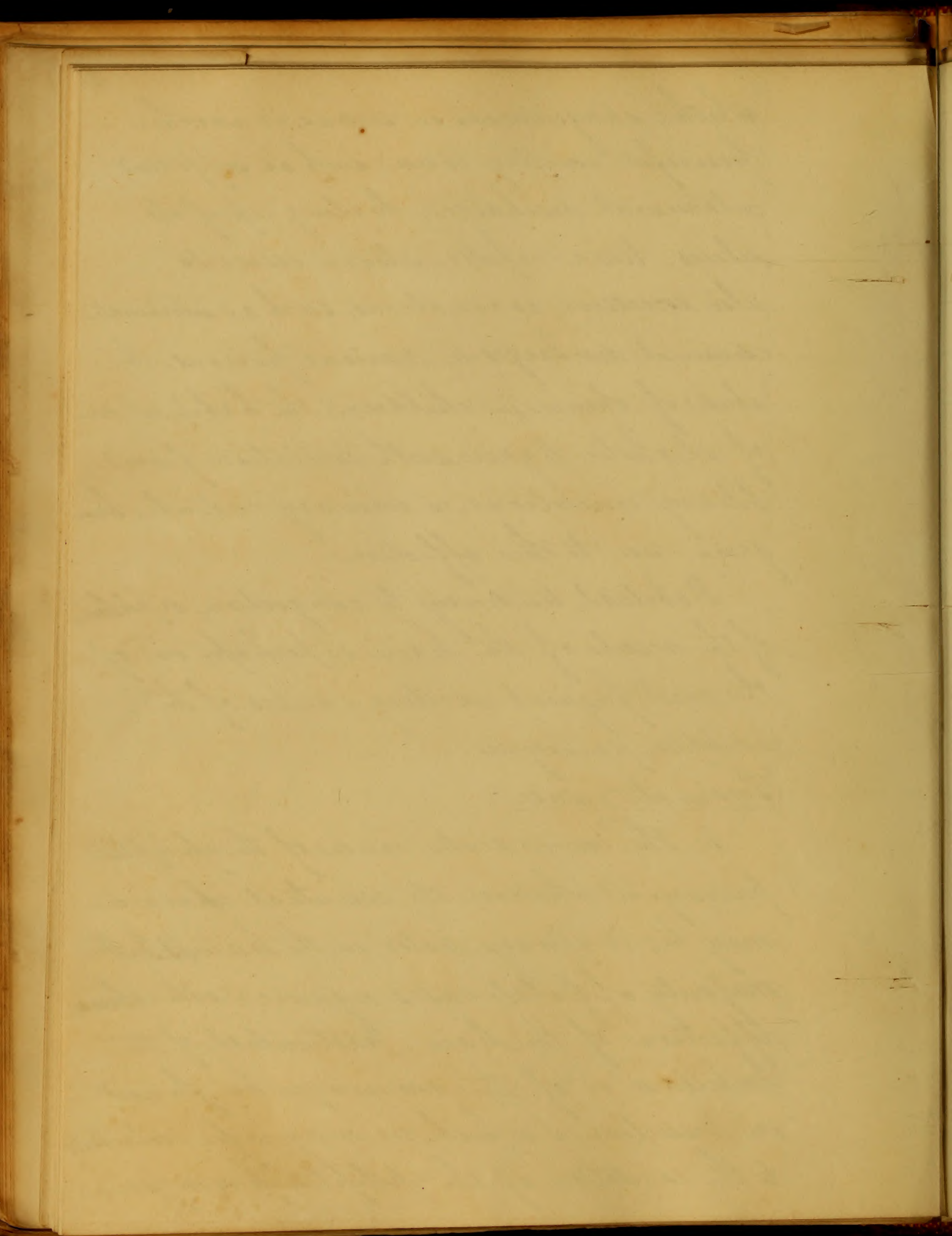
whether sanguineous or serous, is another powerful exciting cause, such as suppressed catamenial discharge, healing up of old ulcers, tinea capitis, setons & issues &c. also excessive evacuations, such as inordinate seminal discharges &c various poisons, the abuse of opium in children, the habitual use of alcoholic liquors, with irritation from biliary concretions, & urinary calculi have given rise to this affection.

Habitual tendency to congestion or plethora of the vessels of the brain is perhaps one of the most frequent exciting causes of the epileptic paroxysms.

Proximate cause.

1. The immediate cause of the epileptic paroxysm whatever its essential character may be, is always seated in the brain. In the majority of fatal cases organic & other obvious affections of the brain, particularly of the cerebellum or of the meninges are found on dissections & which we may infer contributed to the excitation of the epileptic paroxysm.







3. The cerebral affection is in some instances primary & the result of causes that act directly upon the brain; In others, probably, in the Majority of Cases, it is Secondary, depending on primary irritations, located remote from the brain.

4. Immediately before the accession of the epileptic attack, it would seem that vascular turgescence takes place in the encephalon & the pressure thus created, in cooperation with the general predisposition to the disease & the organic cerebral affection, when such disorders exist, is probably the immediate exciting cause of the paroxysm.

Diagnosis. The affection with which epilepsy is most liable to be confounded is Hysteria, when this disease assumes the convulsive form. They may be distinguished however by the following circumstances. In hysterical convulsions the countenance is less livid & distorted & there is seldom any foaming at the mouth

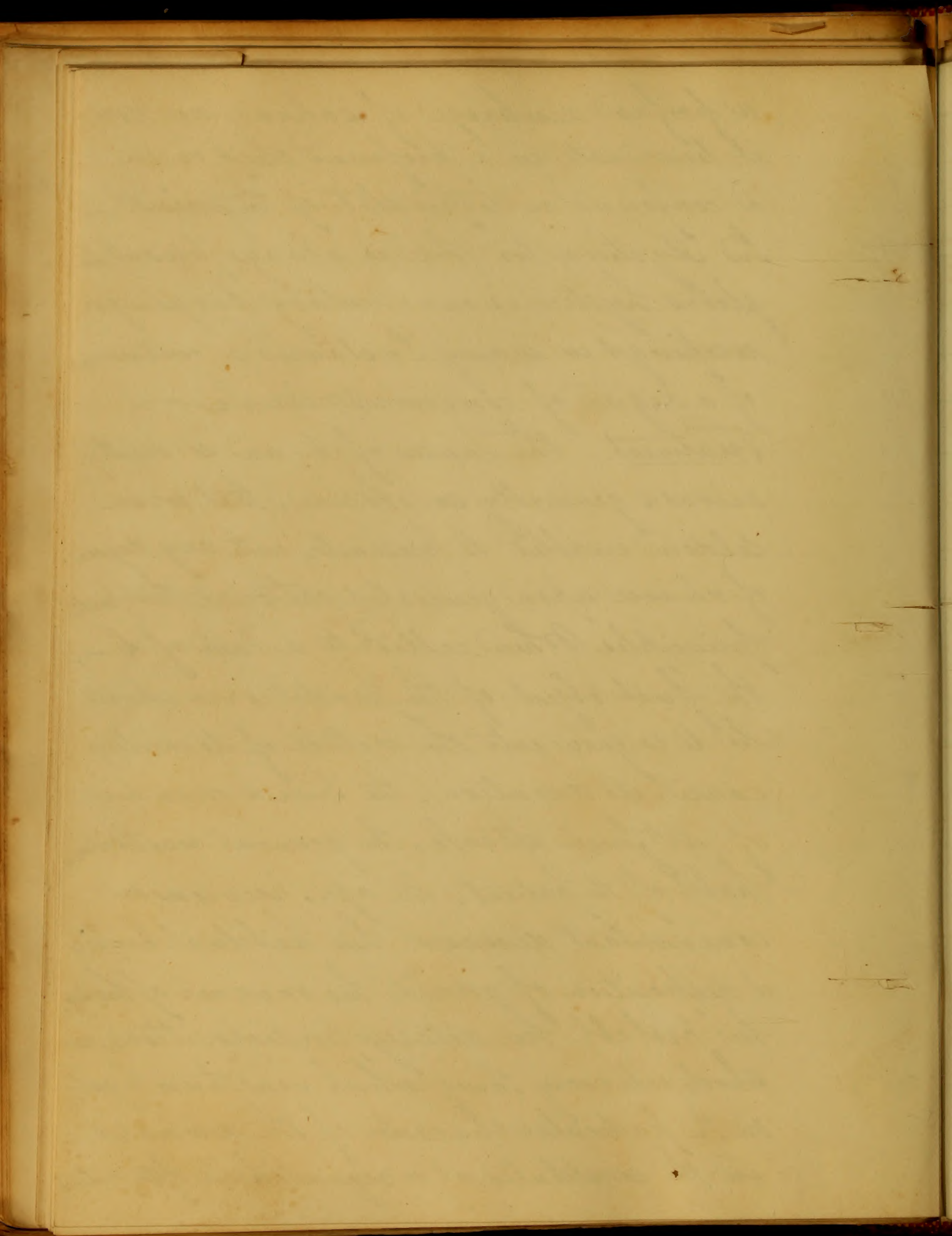


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or profuse discharge of saliva, nor does  
it terminate in a profound sleep or in  
a comatose or torpid state of the mind.  
In Hysteria too there is always present the  
globus hystericus, involuntary laughing or  
weeping & in many instances a continuance  
of a degree of consciousness &c  
Treatment. The causes of H. are so multif.  
arious & generally so obscure, that we are  
seldom enabled to prescribe, with any degree  
of reliance upon general & rational therapeutic  
principles. When called to a case of H.,  
the first object of the practitioner should  
be to enquire into the nature of its exciting  
cause, its duration, the time & manner  
of its first attack, the general constitutional  
habit of the patient, the age, previous or  
concomitant diseases, his habitual temper  
& disposition of mind, his manner of living,  
his probable hereditary predisposition, in  
short, into every thing which can throw light  
on the particular character of the disease, &  
on the constitutional or acquired habit of the patient.







155  
Alopecia upon the limb from which the aura arises  
has been found of service in preventing the paroxysm.  
In persons of robust & plethoric habits, prompt &  
efficient bleeding must be resorted to.

In the epileptic paroxysm our principal object  
should be to diminish the congestion of the  
cerebral vessels. The immediate danger of an  
epileptic fit arises chiefly from this condition  
of the cephalic circulation; for when death  
occurs during the paroxysm of this disease,  
it is almost invariably by apoplexy from  
vascular turgescence or sanguinous extravasation.  
When the patient is plethoric the signs of  
inordinate sanguineous congestion in the  
head are considerable, it will be prudent to  
abstract blood & to remove every thing which  
may compress the veins of the neck or impede  
the free return of blood from the brain to the  
heart. It is very doubtful however whether  
any treatment during the epileptic paroxysm  
can materially mitigate its violence or shorten  
its duration. It is almost exclusively with the  
view of protecting the brain that remediate



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16.  
measures can be resorted to during the fit with a prospect of advantage.

The most important part of the treatment of *C.* is during the intervals of the paroxysms, for the purpose of effecting a permanent removal of the disease; with this view we must carefully enquire into the exciting causes & regulate our treatment accordingly.

When there exists intestinal Irritation, Emetics, Antacids, & Tonics have been of great service. In verminous epilepsy, we must have recourse to antelmintics. Should the disease have arisen from suppressed perspiration, Diaphoretics & whatever else has a tendency to keep up a regular action of the cutaneous exhalants such as flannel, warm bath, frictions &c are indicated. When *C.* arises from suppressed Eruptions & Evacuations, their Restoration is of the greatest importance; for this purpose we may employ issues, setons, blisters, tartar emetic ointment &c.

*C.* from local Injuries of the head, have been cured by surgical operations.



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The following is a List, of the most approved remedies recommended for the treatment of C — they chiefly belong to the classes of Antispasmodics & Tonics & are admissible consequently, only in irritable, nervous & debilitated systems —  
*Valeriana officinalis* — in ʒj Doses.

The Mistletoe, the animal Oil of Dipple, Oil of Turpentine has at present no considerable reputation as a remedy in this disease.

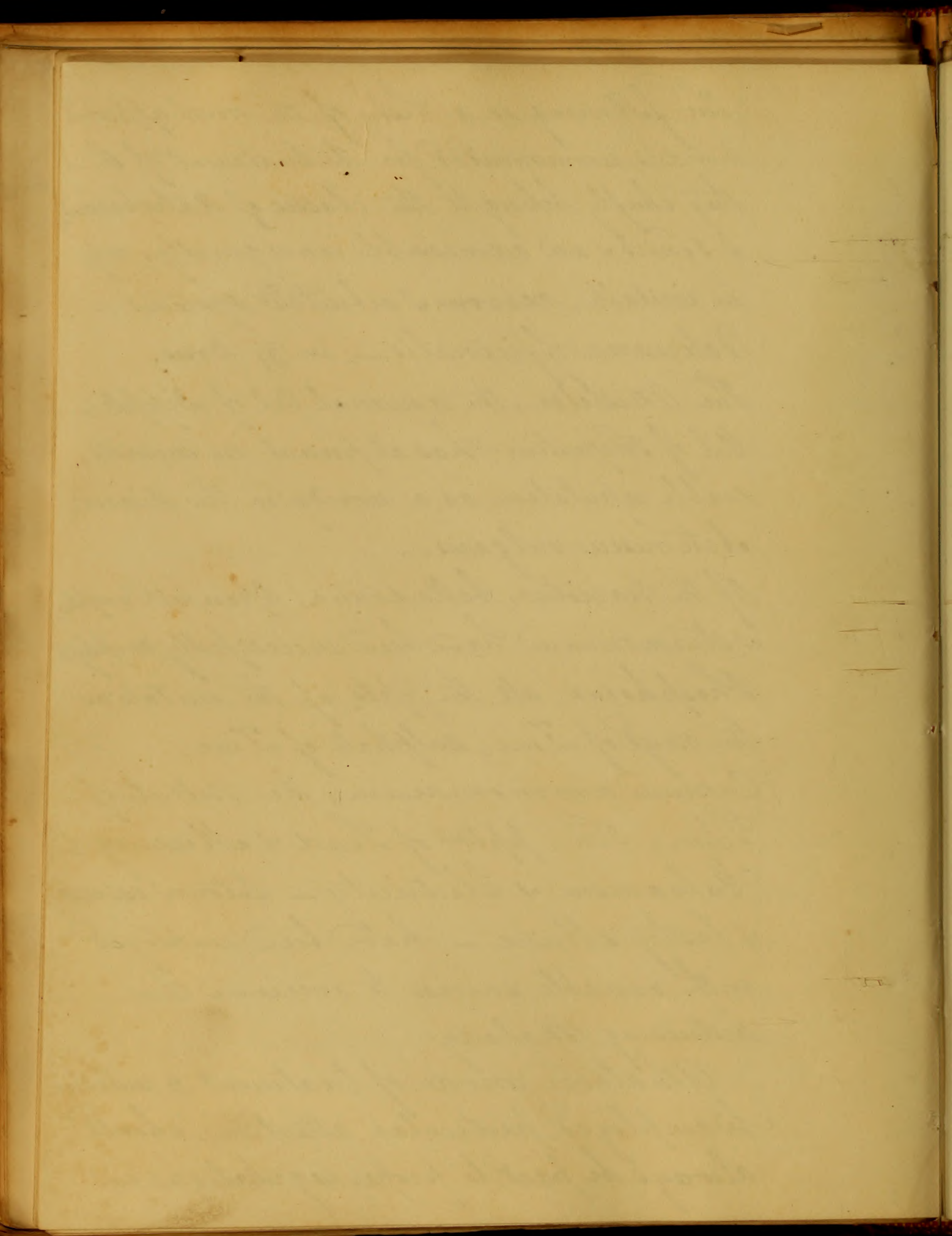
*Artemisia vulgaris* —

Of the Narcotics, belladonna, Opium, Camphor, & stramonium have been successfully employed.

Phosphorus, all the parts of the metals as the oxyd of Zinc, sulphate of Zinc, Cuprum ammoniacum, the Nitrate of Silver, Tin, parts of Lead & Mercury — Galvanism & Electricity — Setons & issues & lastly Music — have been employed with variable success to overcome this distressing Malady.

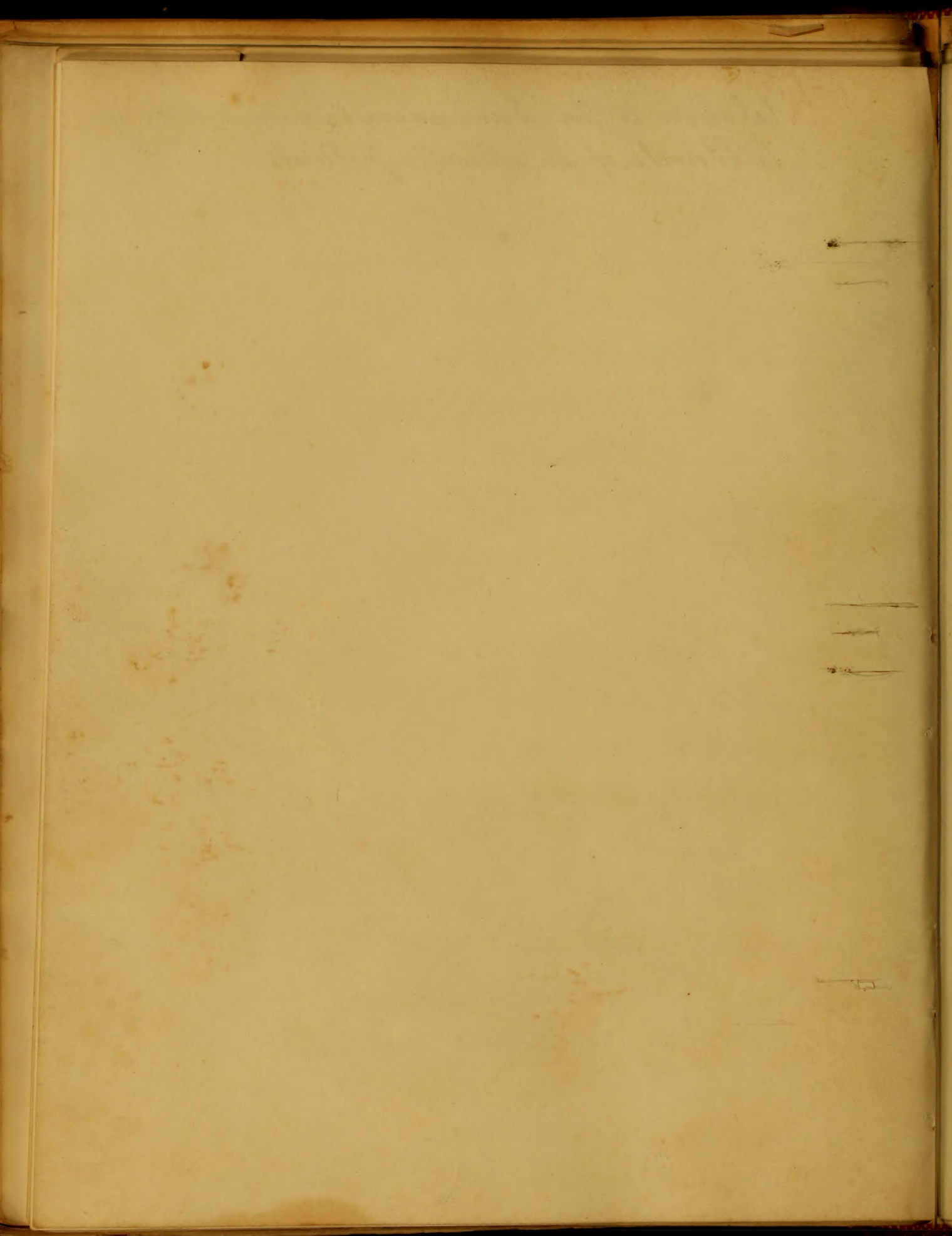
Whatever mode of treatment or remedies be employed, particular attention, should always be paid to proper regulations in





relation to the Diet, exercise & the action of  
the Bowels of the epileptic patient.





This Essay  
on  
Puerperal Convulsions, is,

With all due respect, dedicated  
to the Provost, Trustees and Medical  
Faculty of

The University of Maryland

By

Francis W Pendleton  
of  
Caroline County  
Virginia

March 1831



The City of

Provincial Government

with all due respect to the  
of the Court and the  
of the

The Honorable

James W. Smith

Secretary

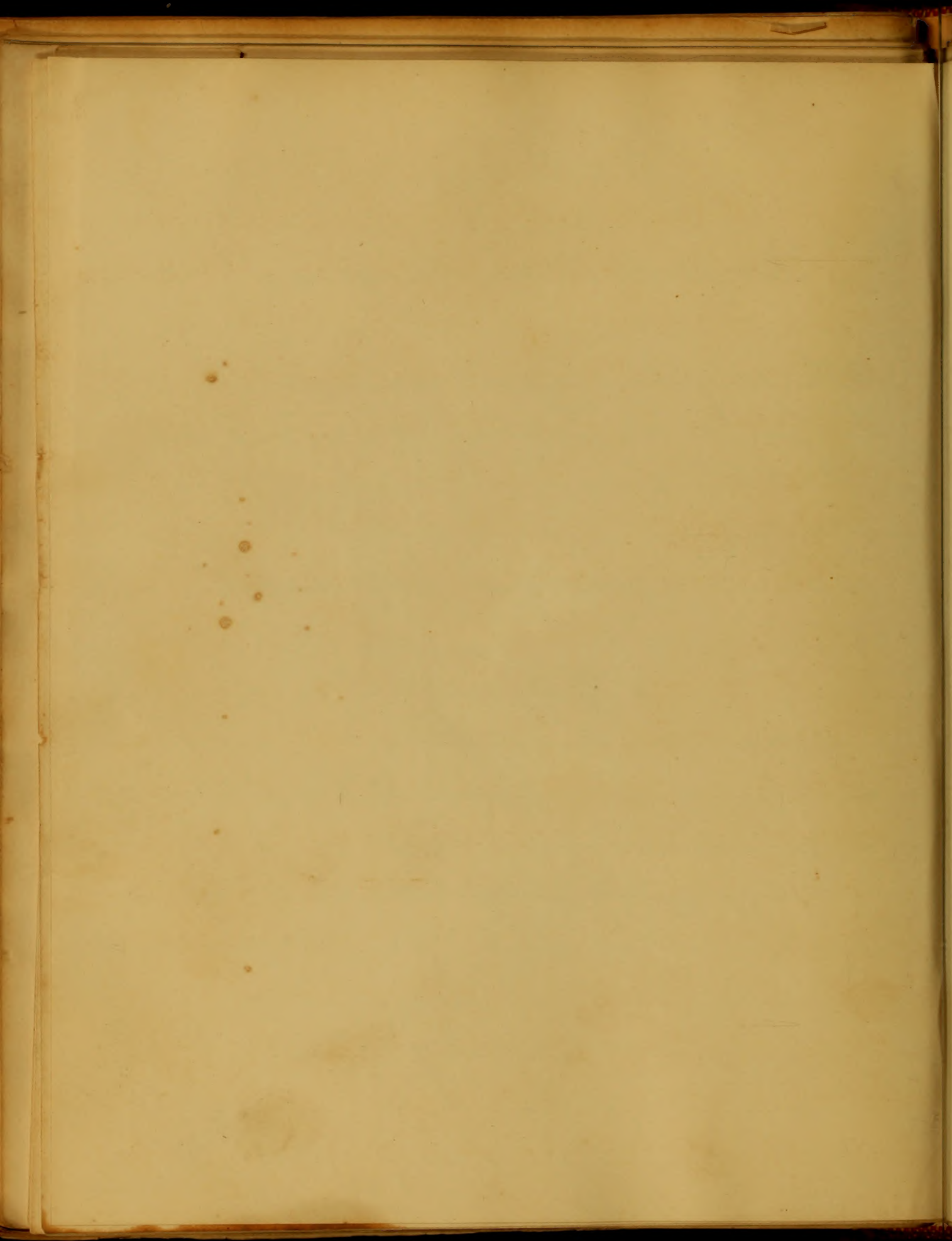
Provincial

1831

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1

There is no disease to which a pregnant woman may be subject, so sudden, or so menacing as Convulsions. their attack is always furious, and their consequence but too often fatal. And what renders this disease still more formidable is the contradictory directions given for their cure. The young practitioner is bewildered by the opposite opinions on this subject; he either pursues with reprehensible temerity the directions of one, or blameably temporises agreeably to the views of a second, or fatally urges the remedies of a third —

The contradictory methods of cure proposed by authors, have originated in the pathological views they have taken of this complaint; and from their having but too generally supposed that there was but one species of Convulsions to which a pregnant woman might be liable.

One set of authors conceived that Convulsions arise from the irritation of the uterine fibres; others believed them to be epileptic; and a third party imagined them to be nervous. —

From these discordant views of this terrible disease, arise the various practical directions for the cure. From success hav-  
-ing







Having attended delivery in some instances, it was hastily believed, it was the only resource; from want of success in other cases, it was given up with too much facility; while in other instances more fortunate, but more rare, Opium was found useful, and it was recommended with a confidence it but ill merited. From this view of the subject it would appear, that success has attended each of the methods just noticed, in the hands of their respective advocates; but that this partial good had persuaded each it was the only plan that could rationally be adopted, than which nothing can be farther from the truth, and of course must have had many victims. Neither of the plans of cure, which have just been noticed, can be uniformly pursued without the most fatal consequences following: it therefore shall be our business, to attempt such considerations of this disease, as are at present most generally received, with regard to the treatment. In prosecuting this plan we shall first advert to the supposed causes of Puerperal Convulsions; secondly, notice the premonitory and ultimate symptoms, thirdly mark the distinguishing signs of each particular species: fourthly, and lay down the method of cure. The causes of convulsions are so completely hidden in







obscurity, that any attempt at a theory of them, until better under-  
 stood, would not only be futile and objectionable, but might be pro-  
 ductive of serious error. We shall, therefore merely state a  
 few of the reputed causes. Doctor Denman, in his Introduc-  
 tion to Midwifery (Vol. II. page 405) says "it is remarkable that this dis-  
 ease rarely occurs in the country," and "that a remote cause of it  
 may be sought for in the particular influence of the air, or in  
 some change made in the constitution, by the custom, and man-  
 ners of living in cities and large towns," and that "the cases which  
 have happened out of London, have happened in large towns,  
 or among those who might be reckoned among the higher  
 ranks of life." These remarks of Dr Denman, are by no means  
 confirmed by the authors of our own Country, who affirm that  
 a majority of cases are found among the lower class of people;  
 and that the robust and plethoric appear to be much more ob-  
 noxious to this disease than the delicate and debilitated in  
 the higher walks of life. How far the condition of the air may be  
 instrumental in producing Convulsions, I am not prepared to  
 determine; but that one season is more productive of this dis-  
 ease, than another I am by no means willing to admit, but  
 yet cannot absolutely deny - it must be left for further observation.



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4

It is said, that every part of the body, becomes more irritable during pregnancy, in consequence of their sympathy with the uterus. And that this is especially the case with women whose habits of life, and mode of education are of the enervating kind: and consequently they are more subject to this disease than those women who by education and habits of living, are seasoned, as it were against impressions which might affect either their mind or their constitution; for it is to both of these we are to look for the causes of convulsions. But I have already remarked, that it is the robust and plethoric who are more liable to this disease. And I may add, upon good authority, that when the delicate and relaxed are seized with this complaint, the convulsions, are generally of the hysterical kind: which we shall say presently, are neither so frequent, nor dangerous as the other species. Mercurial preparations have, according to Denman occasioned convulsions. and he cites two instances of women having convulsions, preceded by violent headache, brought on by the use of Mercury mixed with the powder used for their hair. But it is difficult to believe that the mercury employed, was the cause of the convulsions; for this metal is frequently employed in the diseases of pregnant women whose labours are neither preceded by headache, nor







followed by convulsions. An over distention of the bladder and rectum has been accused of occasioning convulsions. Baudelocque says that the pressure of the gravid uterus upon the descending blood vessels, causing a regurgitation of blood to the upper parts of the body, and the head in particular, is one of the causes of convulsions. He also adds as causes an extreme sensibility of the uterine fibres, a violent distention of the edge of the orifice of the uterus, and of the parts which form the entrance of the pudendum. — It seems to be a fact, now well established that convulsions may become periodical, and return with as much certainly and regularity, as the paroxysms of an intermittent fever. Professor Dewees says "It may also be observed in patients subject to epilepsy, that the fits may return, during pregnancy, at their accustomed period, without particularly deranging the economy of gestation —"

Now proceed to consider the general premonitory and ultimate symptoms of Convulsions. In almost every attack we may observe it to be preceded by the following train of symptoms, which differ more in intensity and duration, than in peculiarity. Headache, ringing in the ears, vertigo, and often a temporary loss of vision — these symptoms continue a long-







longer or shorter time in different patients; some complaining of them many days, others but a few hours, while others only a few minutes before the convulsive paroxysm comes on. These symptoms are said, so uniformly to prevail before the convulsions take place, as almost to enable us to keep them off entirely, by the timely use of the proper means. Some are said to complain of a violent pain in the stomach previous to an attack of convulsions - this by Deurman is considered a more fatal symptom than headache. After the patient has suffered a shorter or longer time with the symptoms we have just described, she is suddenly seized with quickly repeated spasms: the face and eyes are twitched with incredible quickness in almost every possible direction; the arms, legs, and the whole of the body, are violently agitated. One side is sometimes more affected than the other; the face becomes flushed, then livid, may black; the tongue is strongly thrust forward between the teeth, by which it is frequently severely wounded: the respiration at first is much hurried, but eventually becomes almost suspended; the carotids beat violently; the jugular veins are distended; a peculiar







4

peculiar noise is made by the mouth not unlike what is termed  
"Cat-Spitting": a froth issues from the mouth, for the most part  
tinged with blood, from the lacerated tongue; the pulse in  
the beginning is full, frequent and tense, but quickly becomes  
rapid, small, and eventually almost imperceptible: the ur-  
ine and feces are sometimes discharged; a cold clammy-  
sweat bedews the whole body and the fit then begins to subside.  
This, for the most part, is gradual, seldom or never ceasing sud-  
denly and at once - the convulsive motions abate in their vio-  
lence: the pulse becomes more distinct and less frequent; the  
breathing is less hurried and less oppressive: the face loses  
part of its lividity; the muscles are now agitated only at intervals,  
and their action resembles the commotion excited by the passing ab-  
sist electric shock through them, and eventually they become en-  
tirely tranquil - the patient, however, remains for the most  
part insensible, and comatose, attended by a stertorous breath-  
ing or loud snoring - she cannot be roused by any exertions,  
for some time, and when she does recover her shattered sen-  
ses, she is most generally without the slightest recollection of what  
has passed. This trace is too frequently, but of short duration;  
convulsions succeed convulsions without our being able to deter-

-mine







determined with any exactitude, the cause or period of their return—When this disease attacks a woman absolutely in labour, or when it is about to take place, we may observe a pretty strict recurrence of the fits with the probable return of the pains, <sup>at</sup> for altho' the patient be insensible to external occurrences, she appears to manifest by her moans, and that suspension of respiration that is common during a labour pain, that the contraction of the uterus has taken place. The face becomes very much swollen, particularly the eyelids and lips: indeed the whole body seems to partake of this intumescence, but none so conspicuously as the face. So completely is the countenance changed, or rather disfigured, that oftentimes we could not recognize the dearest or most intimate friend; nor does this swelling immediately subside with the convulsions which caused it: it frequently remains many days after they have disappeared. Dimness of sight, may blindness for weeks, are not infrequent consequences of this disease.

That I may be the better able to lay down the rules which should govern our practice, I shall divide Puerperal Convulsions into three species. I shall therefore for the sake of mere distinction, without attempting to defend the propriety of the terms, call the first the Epileptic, the second, the Apoplectic, and the







the third the Hysterical species.

In the first: we have always the premonitory symptoms some days before the attack of convulsions: it is uniformly attended with a strong determination to the head, producing an engorgement of the vessels - it may come on at any period of pregnancy, but most frequently not until some time after the sixth month. This kind almost always produces labour, or at least, is almost always accompanied by it; whether as cause or effect I will not pretend to determine, but am inclined to think the former. This kind may terminate favourably when judiciously treated, or may be converted into the second species. In the second or apoplectic species we have nearly all the premonitory symptoms just enumerated, but they are of much shorter duration. It may attack like the former, at any period of gestation, but does not, necessarily like it, produce symptoms of labour, nor is it accompanied by them. From this it would seem it might be produced by causes independently of pregnancy, tho' this process may be considered as the exciting cause: for it sometimes happens when this is at its height; and is no other way accessory to it, than by the repetition of uterine efforts, the blood is made strongly to determine to the head. It may therefore be either idiopathic or symptomatic. In the third or Hysterical



The first of these is...

The first of these is... before the altar of... a long... of the... apparently... almost... as in... but... possibly... could... of all... use of... they... laws of... it... the... found... laws... laws...

Vertical



Hysterical kind, we have not the same train of premonitory symp-  
 toms. If headache attend it is not so severe, nor so permanent; there  
 is frequently a ringing in the ears, and is always accompanied  
 with Globus Hystericus, and palpitation of the heart: the face  
 is much less convulsed: the eyes vacillate much less, while the larger  
 muscles of the body are much more powerfully agitated: the pa-  
 tient is sometimes very obstreperous, and the muscles on the post-  
 erior part of the body are almost always violently contracted, so much  
 so sometimes as to raise the woman in the middle like an arch  
 while her head and feet nearly touch each other. This circumstance  
 has been considered as a very decisive mark of this species of con-  
 vulsions. The face is much less flushed than in the former kind:  
 but is seldom found pale. There is no frothing at the mouth; and  
 that peculiar sibilating noise which so strongly characterises  
 the first species and perhaps the second, is entirely wanting in  
 this: the patient for the most part, after the fit has subsided can  
 be roused to attention, by a repetition of efforts, for this purpose, or  
 will frequently become coherent, so soon as she recovers from the  
 fatigue and exhaustion, by her violent struggles; and tho' she may  
 lay apparently stupid, she will nevertheless sometimes talk or in-  
 distinctly mutter. The pulse is much less disturbed, nor does it  
 acquire







acquire that extreme velocity and tenacity, that it does in the other kinds, for respiration is never so near being suspended. This kind attacks women of delicate habits, or those who are habitually subject to Hysteria. The recovery from this is always more rapid, and has rarely or never left imperfect blindness.

From the view which we have taken of Puerperal Convulsions it readily occurs, that each particular species requires a somewhat different mode of cure; and that on the discrimination much of the woman's safety depends.

Mode of Treatment. In the first, or Epileptic species, our great dependence must be placed upon bleeding. This must be done promptly and copiously, or no good can be expected; and one efficient means to render this serviceable is that the blood should be abstracted as rapidly as possible in a given time; to ensure this large veins should be chosen, and large orifices made. The jugular veins are opened with a decided advantage over the veins of the arm, as the blood flows more freely, and is immediately derived from the head, the part more particularly involved in this disease. The drawing of the blood suddenly, cannot be too strenuously insisted on, as on this circumstance alone, sometimes  
will







will depend the success of the operation. It is a fact well known, that a large quantity of blood, may be so gradually abstracted from the system, as scarcely to make any impression on the arterial system. When this obtains, then no advantage is gained, as the force of the arterial action is not weakened by the operation; nay, sometimes, we are persuaded, mischief has arisen from this kind of bleeding, for the arterial system, in consequence of being relieved of part of its load, when in a state of depression, acts with renewed vigour, and augments the existing mischief. The well known fact of syncope being more certainly induced by suddenly emptying the vessels, shows that the good derived from bloodletting, is not simply from the number of ounces that are taken from the system, but is owing to that peculiar effect, which this circumstance has upon arterial vigour; for the same, or even a greater quantity allowed gradually to escape from a vein will have no such effect. If it be asked, what quantity of blood should be drawn in any given case? I answer, I would bleed until I had abated the severity of the fits, or until I had arrested their repetition. This may be effected sometimes by thirty or forty ounces suddenly







suddenly drawn, but it may require upwards of a hundred in the course of a few hours. Besides bleeding generally and topically, which should not be omitted, other evacuations come to our aid, and are to be promoted, such as purging, enemata of stimulating ingredients &c. The application of cold to the head, as bladders filled with pounded ice, cold water &c, should not be neglected. Sinapisms, and blisters, have been applied to the head, but from the nature of their operation, I am not inclined to think favourably of the practice.

Mode of Treatment in the second or Apoplectic species.

The only difference in the treatment of this, that is very important, is that bloodletting should, if possible, be more promptly employed, and more extensively used than in the former - for if an hour be lost, the patient's doom may be sealed. And it should not be disguised, that the patient but too often falls a victim to its violence, notwithstanding all the means that can be employed. The warm bath is a remedy also employed, though which none other has been prescribed with less attention to the state of the system. Hence the conflicting opinions of eminent writers upon its effects.

Dr Denman observes "there have been women with convulsions







convulsions, who were freed from them only during the time they were in the bath; and that he had heard of cases of their being actually delivered in the bath without any ill consequences to mother or child". Dr Bard says "the warm bath, always a safe, and frequently an efficacious remedy, should be tried as soon as it can be got ready. The patient will sometimes remain free from convulsions as long as she continues in the bath. Should the fits return on taking her out, let her be returned to the bath, and delivered in it.". The London Practice says "it has been directed that the patient be put in a warm bath, but experience contradicts its use. The fits have been found to be more violent in it; and the patient is liable to bruise herself, and be otherwise much injured. I should not be disposed to use it, at any rate, until due depletory means have been employed; then it may aid, in placing the parts in a condition favourable to delivery."

Mode of treatment, in the Hysterical Species. This species is much more rare, than those we have already mentioned; it is also much less mischievous. It may occur at any period of pregnancy without necessarily derang-

ing







deranging its economy. In the most part, the convulsions continue longer, but are evidently not so threatening, they sometimes cease suddenly, and the patient will frequently recover her senses, and anxiously enquire "where she has been, and what is the matter". The fit may take place during labour, but this is rare when it happens before labour, it does not appear to have any agency in producing it. Its cure is much more simple and certain than the other kinds, requiring precisely the same treatments as when this disease happens to women not pregnant. Delivery is rarely considered essential to the welfare of the patient, unless it attacks when labour is pretty far advanced, and seems to <sup>arise from</sup> the irritation given by the head of the child suddenly distending the mouth of the uterus: in this case, to deliver may be important as it immediately removes the cause of convulsions. This form rarely requires more than one bleeding, and that not very large. After we have taken away blood, which should be done when the pulse is full or tense, we may safely administer opium, with Asafetida and other antispasmodics, which will generally pretty speedily arrest the disease. Having the bowels opened is important; and often the only way of effecting this, is by injections







Whilst the Physiologist has laboured to investigate the cause, the Physician has been equally zealous to find the remedy for convulsions, especially for the two first species. Having traced it to its connexion with, and dependence upon the state and action of the uterus, delivery became the consummation to be wished. It was therefore advised "in all cases where practicable, to dilate the Os uteri, and deliver immediately. But careful observation proving that the greater part of those thus delivered had died, their deaths being apparently hastened by the operation, however carefully performed, Dr Ross of St. George's Hospital, had the courage to declare his doubts of its propriety in all cases; and the correctness of this opinion is now generally acknowledged. Denman generally assisted in every fit: but being soon convinced that this endeavour brought on, continued, or increased the convulsions, he desisted and left the work to nature: and concluded as a general remark, "that women who fall into convulsions in the beginning of labour, ought not to be delivered by art." Burns agrees with those who are against forcibly opening the Os uteri, but agrees also with those who advise the woman to be delivered as soon as can possibly be done without violence







violence. He was convinced no rule of practice was more plain or beneficial. Delivery did not always save the patients or prevent the recurrence of the fits; but he thought: it did not follow, that it ought not to be adopted: After much observation Baudelouque concludes that we ought not to be in haste to deliver, when nature seems disposed to do it herself, because nature, notwithstanding the disorder of her functions, can perform in a short time, what we could not obtain but with an abundance of efforts. And that we may in many cases, accuse those physicians of too much precipitation, who have conducted themselves differently, instead of giving them credit for the success they flatter themselves they have obtained: Whilst thus looking to delivery as the most efficient or probable means of a favourable termination, the physicians carefully avoiding timidity or rashness, should assiduously employ all the resources of the profession, to mitigate the effects or prevent the return of convulsions. In violent cases, prompt and decisive measures only can save the patients. Nature seems to be deranged, and her efforts tend to defeat her own purposes. Art is then required to relieve the organ spoiled, to remove the causes of irritation; and, recalling nature to her duty, to restore order to the



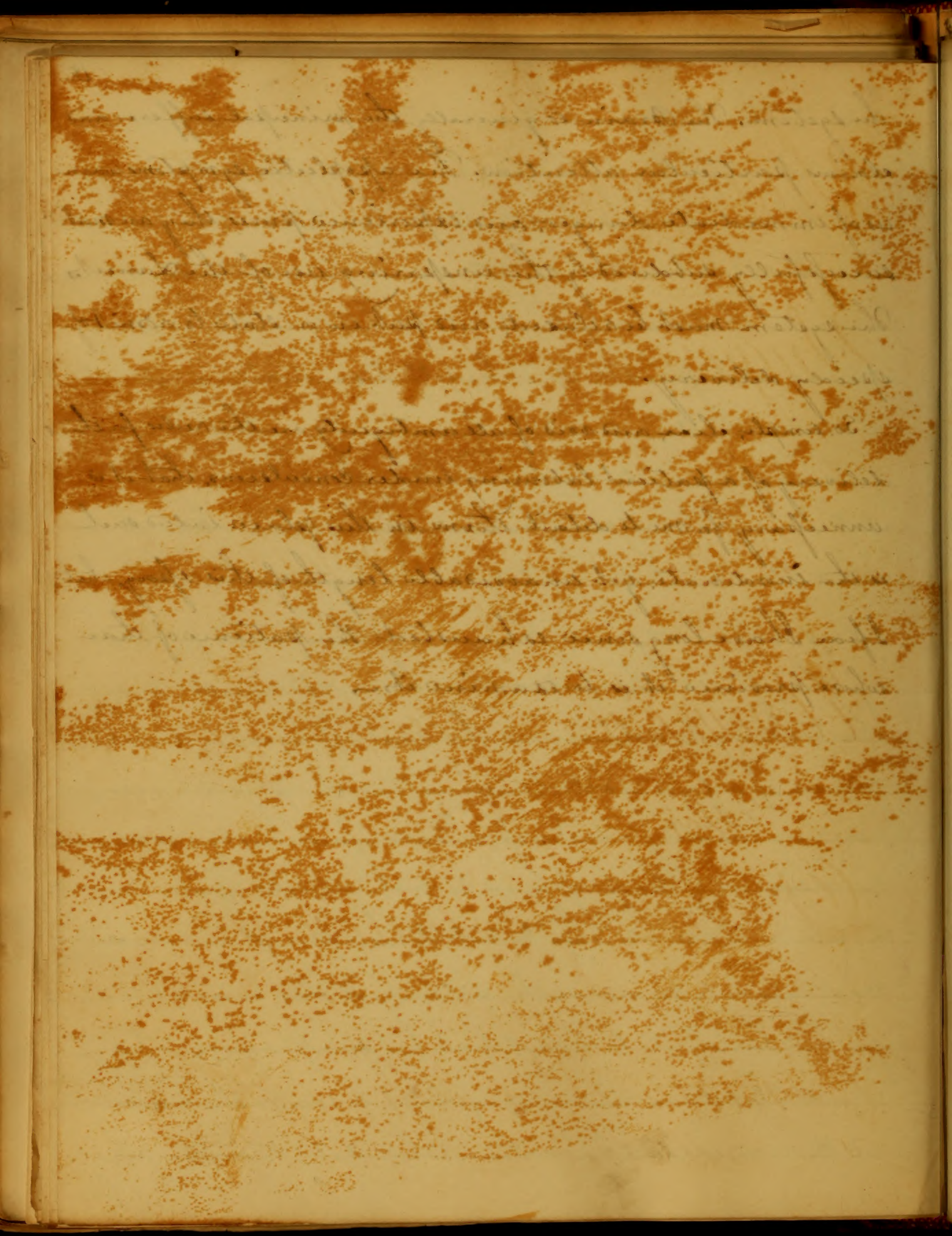
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the system. The Brain is generally the principal sufferer and claims particular attention. The apoplectic symptoms warn us of immediate danger, and experience proves they are most successfully subdued by the unsparring use of the Lancet. The system must be relaxed, and put in a state to admit of speedy delivery.

So simple, clear, and void of all ambiguity are the rules for the delivery of a patient labouring under convulsions, that it is unnecessary for me to detail them in this place, indeed such is the inordinate, yet unavoidable length of this essay, that I fear I have long since exhausted the patience of those whose province it is to examine it.







An  
Inaugural Dissertation

on

Inguinal Hernia

Submitted to the

Provost and Professors

of the

University of Maryland

For the Degree of

Doctor of Medicine

By

Hiram W. Cochran

March 1<sup>st</sup> 1831



Department of Agriculture

Department of Agriculture  
Submitted to the

Secret and Prof. Dr.

University of Maryland

of the College of Medicine

John H. Beckman  
March 18 1857



# Inguinal Hernia

1

The word Hernia is derived from the Greek *egros a branch*, because it protrudes forwards. By the term Hernia in general we mean a protrusion of any organ or viscera through the walls of the cavity in which they are contained. But by this term surgeons imply a protrusion of some of the abdominal viscera through the walls of the abdominal cavity. Dr Cullen defines it to be an ectopia or displacing of soft parts though still retained within the skin and other integuments. A Hernia may occur at almost any part of the abdomen. Thus we have, Ventral, Umbilical, Femoral, Inguinal Hernias &c according to the place at which they are protruded. But as it is not our intention to speak of Hernia in general, we shall confine our remarks to one of the above varieties, viz Inguinal or Scrotal Hernia, which is a protrusion of some of the abdominal contents through the Abdominal ring into the groin, it is now called *buboocèle*, but when it descends into the scrotum it is termed *oshoocèle*.

The cavity of the abdomen is always completely filled by its viscera, and its walls are admirably strengthened, by the peculiar arrangement of its muscles. The fibres of each crossing that of the other in which it is in contact, <sup>and</sup> transversely, thus forming a complete network. The abdomen is acted upon by two opposite forces which counterbalance each other, the viscera acting against the parietes, the parietes reacting upon the viscera forming an equilibrium. But certain parts of the abdominal wall being naturally weaker consequently make a much feeble resistance to the action of the viscera especially at the inferior part or that part which extends from the pubis to the anterior superior spine of the ~~ilium~~ ilium and these parts are sometimes



Journal of the Expedition

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further weakened by wounds, malformation &c.

2

We shall now give some account of the parts concerned in Inguinal Hernia. Coming down over the abdomen, between the external oblique subcutaneous fat and skin, there is a lamina of condensed cellular tissue called fascia superficialis, as it descends over the abdomen, it becomes a little thickened at the inferior part, especially when it passes over the external rings; at this place it sends off a few transverse fibres over the superior angle of the ring, giving it a rounded appearance and materially strengthening it; it then passes <sup>over</sup> the groin at which place it becomes extremely thin and then passes ~~into~~ the thigh. It is in fact a portion of the Fascia superficialis which covers the whole body. It is important in as much as it becomes one of the investments in Inguinal Hernia.

The external oblique arises from the seven or eight inferior ribs near their cartilages, by a number of digitations which interlocks with those of the serratus major anterior, and is connected at the three inferior ribs with the latissimus dorsi. The muscular fibres run obliquely downwards and forwards and terminate in a broad tendon, which is continued over the abdomen and is inserted into the two anterior horns of the ilium from the anterior spine of which it stretches across the spine of the pubis, forming what is called Poupart's ligament into the ensiform cartilage and the whole length of the linea alba, at the inferior part the tendon of this muscle splits into two portions called pillars or columns, the internal ~~splits into two portions~~ is attached to the symphysis of the pubis, the external to the spine of the pubis, thus forming a triangulad opening which anatomists



The first part of the book is devoted to a description of the anatomy of the human body. It begins with a general account of the body, and then proceeds to a more detailed description of the various organs and systems. The author uses a clear and concise style, and includes many illustrations to help the reader understand the structure and function of the body. The second part of the book is devoted to a description of the diseases of the human body. It begins with a general account of the various diseases, and then proceeds to a more detailed description of the symptoms and treatment of each disease. The author uses a clear and concise style, and includes many illustrations to help the reader understand the nature and course of each disease.

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have pleased to call the abdominal ring. The Superior angle of this opening as we have before said is strengthened by a fibrous dent off by the fascia superficialis. It is through this opening the spermatic Cord passes in the male and the Round ligament of the uterus in <sup>the</sup> female.

The internal oblique arises from the whole of the spine of the ilium from the fascia lumborum and from the outer third of Poupart's ligament. The fibres run in different directions, the posterior portion runs obliquely upwards and forwards, the middle portion less obliquely and some of the fibres are transversely and the inferior portion runs obliquely downwards and is inserted into the seven inferior ribs and into the costal cartilage. Its tendon divides at the semi lunaris into two portions the one going over the rectus with the tendon of the external oblique and is inserted into the whole length of the linea alba, the other going under with the tendon of the transversalis passes into the linea alba as low down as half way between the umbilicus and os pubis, at which place it passes over the rectus and is inserted into the lower part of the linea alba. The inferior edge of this muscle does not descend so low as the last described muscle but the fibres extend in nearly a straight direction over the spermatic Cord and is attached to the angle of the pubis. A fasciculus of fibres is sent off from this muscle over the spermatic cord and is continued down to the Cord till it becomes insensibly lost in the tunica vaginalis, it is called the cremaster muscle.

The transversalis muscle arises from the inner parts of the cartilage of the seven lower ribs, from the fascia lumborum, from the whole of the spine of the ilium internally and from the



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outer part of Poupard's ligament, at the linea demilunaris 9.  
it joins the tendon of the internal oblique and is inserted into  
the linea alba, except at the inferior part and ensiform  
cartilage. It is manifest from the description of the two last  
muscles that there is a place ~~not~~ not supplied with any co-  
vering from the muscles or their tendons, but which is covered  
by a strong fascia called fascia transversalis. This fascia  
comes down over the abdomen between the peritoneum and  
transversalis muscle, running across this space it goes under  
Poupard's ligament, when it joins the fascia iliaca which  
comes down over the posterior part of the abdomen passing  
over the psoas and iliacus internus, muscles. They join at  
this place & form the femoral or Hoop ligament. The cord  
perforates the fascia transversalis a little above the inferior  
margin of the transversalis and internal oblique muscles  
and it passes obliquely under their edges on its way to  
the scrotum and when it has arrived at the external  
ring. (for the place where it perforates the transversalis  
fascia is called the internal ring) it is embraced by the  
remaster muscle which accompanies it into the scro-  
tum. The inguinal canal is that space from the inter-  
nal to the external ring. It is through this canal the  
testis passes in bubonocoele or inguinal hernia  
it is bounded anteriorly by the tendon of the external  
ligue, posteriorly by the ~~the~~ transversalis fascia  
superiorly by the margins of the transversalis and inter-  
nal oblique, & inferiorly by Poupard's ligament.

The epigastric artery arises from the external  
a just before it passes out to the thigh - It runs



The first part of the paper is devoted to a general  
discussion of the subject, and is intended to  
show that the theory of the present is not  
entirely new, but is a development of the  
principles which have been established in  
the history of the human mind. It is shown  
that the human mind is a tabula rasa at  
birth, and that all the ideas which it  
possesses are derived from experience.  
The second part of the paper is devoted to  
a discussion of the various theories which  
have been advanced to explain the origin  
of the human mind. It is shown that the  
theory of the present is the most reasonable  
and the most consistent with the facts  
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to explain the origin of the human mind.  
It is shown that the theory of the present  
is the most reasonable and the most  
consistent with the facts of the case.



5  
obliquely upwards and inwards, behind the upper angle  
of the external ring and spermatic cord to reach the rectus  
and inosculate with the internal mammary coming down  
from above, the place at which <sup>the</sup> hernia commences is  
the internal ring or that place at which the cord per-  
forates the transversalis fascia, a nodule of intestine being  
(and this point already weakened by disease) for it gen-  
erally occurs in cachectic habits, or violent exercise, it is  
protruded, carrying before it a fold of the peritoneum. It  
passes through the inguinal canal, which we have already  
described, over the cord and on the inside of the epigastric  
artery. It also carries before it the loose cellular tissue  
which surrounds the cord, and this has been called the  
ascia of Camper.

The envelopes then of an inguinal hernia would be  
first the skin and subcutaneous fat the fascia super-  
ficialis, cremaster muscle and <sup>a fold of the</sup> peritoneum.

There is a variety of hernia which sometimes takes place  
on a blow or some other violence inflicted on the ingui-  
nal region, directly through the walls of the abdomen at  
the external ring. This variety of hernia is called ventro-  
inguinal or hernia by the direct descent, while the other  
variety is called, hernia by the oblique descent. In ventro-  
inguinal hernia ~~however~~ the relations of parts are enti-  
rely changed, the epigastric artery which in the above  
variety was on the outside of the hernial sac is now on







the inside, and the cremaster does not now form an invest-  
 ment. The investments of this variety would then be, First  
 reckoning from within outwards, the peritoneum, fascia  
 superficialis, subcutaneous fat and skin, hence the  
 necessity of bearing these things in mind in the performance  
 of the operation. Hernial tumours are named from their  
 situation as before said, and also from their contents.

If they contain intestine alone they are called enterocele  
 if omentum alone they are called epiplocele, and if both  
 omentum and intestine be contained they are called entero-  
 epiplocele - An enterocele may be distinguished by its  
 smooth and regular surface of the tumour. If it be  
 inflamed or distended with wind, or if it strangulated  
 the tumour will be tense and elastic to the touch, resist-  
 ing the impression of the fingers and painfull. If there  
 be neither stricture nor inflammation, there will slight  
 tension and no pain on handling, and if the patient  
 be directed to cough the enterocele feels as if it were  
 blown into, and when it is returned into the cavity of  
 the abdomen if ~~feels as if~~ it contain air a gentle  
 noise will be heard.

An epiplocele may be distinguished by an irregular  
 rough softness, and it is generally indolent

If both intestine and omentum be contained, it will  
 be more difficult to ascertain its nature it will have  
 somewhat the feel of both the other varieties

Several diseases in these parts have been mistaken  
 for inguinal hernia - Hematocele or a collection of blood







in the tunica vaginalis, may be distinguished by the firmness of the  
tumour, <sup>and</sup> the redness of the skin. The cord can also be felt at the  
ring. The tumour does not dilate when the patient coughs -  
The testicle is sometimes lodged in the ring. Counterfeiting  
incipient hernia; but we can always decide whether it  
be a Hernia or not, by examining whether or not the testicle  
be present in the scrotum. When the tumour is produced by  
the testicle it is also found to be possessed of extreme sens-  
tivity

Circocoele has sometimes been mistaken for Bubonocoele  
and the diagnosis is sometimes difficult. But by attending  
trickly to the symptoms, the distinction may always be  
made. If it be Hernia, after placing the patient in a  
horizontal position, and the tumour <sup>hanging down</sup> emptied by pressure  
upon the scrotum, if the Surgeon then make pressure  
upon the ring and desires the patient to rise, there will  
be no return of the tumour, But if it be Circocoele  
it will not only return but increase in size

Hydrocoele, has sometimes been mistaken by an inattentive  
observer for Hernia, But it may always be distinguished  
from the latter, by its not being affected by any position  
of the patient, from its having begun below, from the absence  
of pain in handling it, from its not increasing in size from  
coughing, and from the size of the cord, which can always



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distinctly felt above the tumour

The most common causes of Hernia, are, violent exertions of the abdominal muscles, compressing the viscera of the abdomen, and thereby diminishing the cavity of the abdomen. Running, jumping, lifting and carrying heavy weights, violent vomiting and straining at stool are particularly conducive to the occurrence of Hernia

Hernia may be divided into, reducible, irreducible and strangulated. It is termed reducible when the intestine lays quietly in the sack without pain, and is capable of being returned into the abdomen - The symptoms of this variety of Hernia are, first. The sudden appearance of the tumour, after violent exercise, or injury, and its being indolent, whilst the patient is in the recumbent posture the tumour is diminished, and frequently entirely disappears, and is enlarged whilst the patient is in an erect position, when pressure is applied, the tumour is diminished, and enlarges again when the pressure is removed, The tumour is also enlarged after meals or by flatulance. The patient is troubled with colic pains, nausea and vomiting, and constipation on account of the displacement of the intestine. It sometimes happens however that the patient, experiences no inconvenience at all from a protrusion

in some cases, the efforts of the vessels



The first of these is the  
the second is the  
the third is the  
the fourth is the  
the fifth is the

The second of these  
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  
the twenty-first is the  
the twenty-second is the  
the twenty-third is the  
the twenty-fourth is the  
the twenty-fifth is the  
the twenty-sixth is the  
the twenty-seventh is the  
the twenty-eighth is the  
the twenty-ninth is the  
the thirtieth is the



of a portion of intestine, the functions being performed with little interruption. A Hernia by adhesions to the surrounding parts, may become irreducible without producing any immediately dangerous symptoms, and the patient doomed to bear a long time a disease for life, from which he daily apprehends the most dangerous consequences, and by the slightest injuries, or the supervention of inflammation, a stricture is produced, which forbids any hopes of recovery. — A hernia may become strangulated at several places, The most common is that which is produced by the pillar of the external abdominal ring; the intestine having been protruded in an empty state, afterwards fecal matter accumulating, it becomes inflamed, and sometimes also the protruding intestine becomes inflated with air. It is also sometimes strangulated by the internal abdominal ring, or by the neck of the sack. Some writers also speak of a strangulation being produced by the margin of Internal oblique muscles, but in each of these cases the symptoms are nearly the same.

The symptoms attendant on this variety of disease are pain on handling the tumour, if it be an enterocele the pain will be increased by coughing sneezing or standing on the feet. The pain at first is experienced in the tumour, but soon extends over the whole abdomen, which becomes tense and







swollen, accompanied by sickness and vomiting, There is also  
obstinate Constipation and fever. If the patient be not  
shortly relieved all the symptoms become more violent, The Contents  
of the stomach and afterwards those of the bowels being thrown  
up. The tension and pain of the abdomen is now much  
increased, the fever is more violent, and great anxiety and  
restlessness comes on, If the patient be not yet relieved  
the pulse becomes quick full and irregular, and the ex-  
cretions cold, after a time hicough comes on, which  
indicates that mortification is about to take place, or  
as already taken place, The pulse which but a short  
time previous, were quick and hard are now scarcely  
perceptible, The respiration is weak, and the whole  
body covered with a clammy sweat, After these symptoms  
have continued for a short time; the pain and swelling  
of the abdomen subside, and the patient vainly flatters  
himself with the hope of recovery, But the eye loses  
its lustre, and becomes glassy, The skin of the part assumes  
a livid hue, a crepitus is perceived on touching the part,  
and sometimes at the juncture the intestine spontaneously  
returns, and the patient dies.

It is only necessary to say with respect to the treatment  
of reducible hernias, that it should be returned into cavity  
of the abdomen, as soon as possible and retained there  
by the application of a proper truss



The following is a list of the names of the persons who have been admitted to the office of the Secretary of the Board of Health, since the first of January, 1865, to the first of January, 1866. The names are given in the order in which they were admitted, and are accompanied by the date of their admission, and the name of the person to whom they were appointed. The names are given in the order in which they were admitted, and are accompanied by the date of their admission, and the name of the person to whom they were appointed.



If it be irreducible, the tumour should be supported by  
a suspensory bandage, and the patient advised not to make  
any violent exertion.

Various means have been adopted for the relief of  
strangulated hernia. The most approved of which we  
shall now notice — First, of the Taxis, by which we mean  
the efforts made by the hands of the Surgeon to return the  
protruding viscera. In order to use the taxis with effect  
the patient should be placed on his back, and the  
thighs bent upon the pelvis, and the one of the affected  
sides turned a little towards, in order to relax the ab-  
dominal muscles, and the parts forming the structure to  
the greatest extent. After the patient has been placed in  
this position, the Surgeon should grasp the tumour  
(when large) with one hand and gently drawing it down-  
wards, he should with the fingers of the other, endeavour  
to return the tumour by pressing its contents upwards and  
outwards, beginning with the part nearest the ring —

If the inflammation be great, we cannot employ the Taxis  
and in all cases where we do use the Taxis we should  
proceed gently, for much mischief has been done from  
its rude employment. If we fail in the use of the Taxis  
other means of relief should be immediately resorted to. If the  
patient be athletic, we should bleed freely, and again try the  
Taxis. If we cannot <sup>then</sup> succeed in reducing it, the patient  
should be placed in a warm bath, and the efforts by the Taxis



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needed. If a bath cannot be quickly prepared, we should try  
cold applications, as no time is to be lost. Clothes wet with  
ice water, or bladder of pounded ice, should be applied to the  
tumour, & then dropped, and permitted to evaporate has been  
highly recommended, but we should be cautious not to  
reduce the temperature too low, lest mortification should  
ensue, and the life of the patient be lost. When ice cannot  
be obtained, a solution of water and sal: ammonia, or alcohol  
may be used with advantage. Injection of tobacco smoke  
- a decoction of the artichoke, has been resorted to when the  
other means have failed, but much caution is required  
in its administration, as it sometimes produces extreme  
prostration, and death. Cathartics and Enemas may  
also be used in junction with the above remedies. But  
if all these means fail, the operation should be im-  
mediately performed.

The manner of performing the operation -

The hair about the pubis and groin should first be  
shaved off, and the patient placed on a table of convenient  
height. The incision should commence about one quarter  
of an inch above the ring, and to be carried down to  
the most prominent part of the tumour, unless it be  
very large. The incision being carried the skin and  
subcutaneous fat divides the external pudendal artery  
which crosses the tumour near the abdominal ring







and if it bleed much it should be tied. This incision exposes  
the *facia superficialis*. This *facia* should now be seized with a  
pair of forceps, and elevated, making a small opening in it,  
with the knife carried horizontally. Then introduce a director  
upon which the knife must be carried, and the *facia*  
completely divided. ~~The artery and vein part of the~~  
~~is the point at which we prefer to divide the sac~~  
~~because the intestines do not descend below, and the fluid which~~  
~~is contained within the sac is contained in this part.~~ The  
remaster muscle which lies beneath the *facia superficialis*  
should be divided after the same manner as the *facia*. The  
true hernial sack being now brought into view, a portion  
of it is to be pinched up with the fingers, after having ascertained  
that we have included nothing but the sac. We should make  
a small opening by carrying the knife horizontally, into which  
we introduce a director, upon which <sup>the knife</sup> is to be carried and  
the sac divided. This being accomplished, the finger should  
be introduced and the structure ascertained. When we have  
found the structure, a probe pointed beston is to be introduced  
laterally on the finger into the wound, and the structure divided  
by carrying the knife in the direction of the umbilicus. Having  
removed the structure we should return the contents of the  
sac, and nothing but the actual mortification of the  
intestine should prevent us. If it entero-epiplocele, the  
intestine should be returned first. The parts nearest the ring should  
always be returned first. After the intestine is reduced, the surgeon



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hand introduce his finger and ascertain whether the intestine be  
 completely in the cavity of the abdomen, afterwards the Omentum  
 may be returned, if not diseased. If there are recent adhesions  
 between the intestine and sack, they may be broken up by the  
 finger. But when the adhesions are old the cautious use  
 of the knife is necessary. Sometimes the adhesions are so  
 short that it would be dangerous to attempt their division.  
 It is better to cut off the adhering portion of the sac, and  
 return it with the intestine. When the intestine or omen-  
 tum or both are returned it should be treated as a simple  
 incised wound. The lips should be brought together by means  
 of sutures, for they are necessary on account of the great  
 quantity of cellular tissue, causing the lips to become  
 inverted. Also adhesive straps and bandages, and the  
 patient should remain quiet —



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An  
Inaugural Dissertation  
on  
Epilepsy

Submitted to the examination  
of the

Provost, Trustees and Medical Faculty  
of the

University of Maryland

On the first day of April 1831

For the Degree of Doctor of Medicine

By

Henry S. Hunt.



17

Journal of the  
Episcopal

Submitted to the

General Convention

of the

Episcopal

in the year of our Lord

1844

By

Wm. J. ...

To  
Nathan B. Smith M.D.  
Professor of Surgery in the University  
of Maryland.

This essay is respectfully inscribed, not only in  
consideration of his high merits as a Gentle-  
man, a Friend, a Physician, for which he is as  
justly esteemed by all his acquaintances; but  
also as a grateful tribute of thanks for the val-  
uable instruction and every mark of friend-  
ly attention, bestowed while he had the  
direction of the early medical pursuits of  
his affectionate Pupil  
and much obliged friend  
The Author



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



## Epilepsy

Many circumstances conspire to give an interest to epilepsy: the great frequency of the disease, the class of persons among whom it prevails, the alarming character of its symptoms, and the difficulties which, from the earliest times, have been experienced in the relief of it. Although the characters of epilepsy are thus sufficiently distinct to have attracted in all ages the notice of the world, considerable difficulty has been found to have been found in contriving a description of it which may include every form of the complaint. Epilepsy the species of which has been accused by authors as arising from various exciting causes, like many other affections, it is both idiopathic and symptomatic: but the phenomena of the epileptic paroxysm, are in both cases, the same.

The epileptic fit mostly occurs suddenly, the patient falls to the ground, and the disease has received the name of falling sickness. When the complaint is fully established, it is usual for the patient to experience certain warnings of the approach of a fit which, though lasting only a few seconds, enable him to make some preparations for it. The most frequent of these warning symptoms are, headache,







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giddiness, nausea, dimness of sight, or flashes of light  
passing before the eyes, ringing in the ears, fetidness,  
disagreeable odours, and coldness of the extremities.

But the most common of all epileptic warnings  
is that singular sensation of tremor, or coldness, or  
numbness, which has been called the *Aura epileptica*.

It begins at the extremity of a limb and gradually as-  
cends to the head, when the paroxysm of convulsions and  
convulsion ensues.

During the fit the convulsive agitations of the  
body are violent. The eyes are fixed and elevated,  
the pupils are permanently contracted; the teeth clash  
against each other, the tongue is thrust forward, and  
often severely bitten, and there is foaming at the mouth,  
the breathing is labourous and difficult, the pul-  
se small and corded. Complete insensibility in-  
vades. The fit varies in duration from a few minutes  
to a quarter or even a half an hour, in some cases it  
has lasted much longer. On its cessation the patient re-  
mains for some time motionless, insensible, and appa-  
rently in a profound sleep. From this he recovers by  
degrees, but without any recollection of the cir-  
cumstances of the fit, it leaves him weak and ex-  
hausted, and for the rest of the day he complains  
of a degree of stupor and sense of oppression  
in the head.

The of recurrence of the fits are too various to ad-  
mit of being stated with any degree of accu-







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racy. When the disease first develops itself, the intervals are long, perhaps two or three months. As it becomes more firmly rooted in the system, the fits recur with a corresponding frequency, until at length the patient hardly sleeps a day without one. Epileptic fits occur at all hours: but much more commonly during the night than in the day: sometimes on first going to sleep: but more usually, on waking in the morning. It is reasonable to conclude, that there is some peculiarity in the state of the brain during sleep, which is favourable to the development of the epileptic paroxysm.

The varieties in the phenomena of epileptic fit are interesting; the first, or common form, is characterized by insensibility, and general convulsions, a strugling of the whole body.

The second, distinguished by the loss of sense and consciousness, with tonic spasm or rigidity of the muscles. The third form of epilepsy is marked by fits of insensibility, with perfect relaxation of the muscular system.

Such are the common modifications of the epileptic paroxysm. In which ever way the disease manifests itself it goes on to produce other, and more serious injury to the constitution. The mental faculties become gradually and permanently more and more impaired; the memory fails, and a state of mind closely verging to idiotism is at length brought on.

Epilepsy, when once thoroughly rooted in the habit, will







generally be found to bring on, sooner or later, some  
other form of Cephalic disease, — Hydrocephalus, Man-  
icid apoplexy, and palsy. The complication of epilepsy  
with mania is at once the most frequent and the most  
formidable. Of one of these, in most instances,  
the epileptic patient dies. Epilepsy sometimes terminates,  
in the third place, totally and suddenly, without in-  
ducing any secondary affection. This though seldom  
witnessed among adults, is not uncommon in  
the epilepsy of children; and indeed it cannot  
be a matter of surprise: — it can only lead us to refle-  
ct, how wonderful must be the structure of that deli-  
cate system which can resist, in ordinary cases, the  
repeated attacks of so dreadful a disease, and  
how little pathology can assist us in unravelling  
such a mystery.

On the morbid appearances of those who die of  
epilepsy, one a turgid condition of the vessels, both  
in the membranes and substance of the brain, has been  
noticed in some cases, with or without effusion of  
serum.

Tumors, cysts, and abscesses, have been discovered in others,  
Reflection has thrown little light on the peculiarities which  
distinguish the convulsive from the other varieties  
of Cephalic disease. Epilepsy is obviously an hereditary  
disease in many instances. In others the parents and rela-  
tives of the patient may not, it is true, suffer from  
actual epilepsy, but they will often be found affe-







sted by other maladies of the same class, such as  
palsy, comate delirium, or mania.

Epilepsy undoubted prevails in that habit of body call-  
ed nervous. It is that state where impressions, both on  
the mind and body, produce more than them usu-  
ally corresponding effects. To this circumstance is att-  
ributed the fact, that epilepsy is mainly the disease of  
early life.

Epilepsy is stated to occur in nearly the same degree  
of frequency in both sexes.

Symptomatic epilepsy is of two kinds; - that which is co-  
nected with disturbance of function in some portion of  
the alimentary canal; and the hysterical, or that which  
has its origin in disturbed functions of the uterus. General-  
ly speaking the first is peculiar to children under the  
age of fourteen; and the second to women between the  
ages of fourteen and twenty.

The first source of that irritation in the alimentary tract  
which leads to epilepsy, is painful dentition. It is a promi-  
nent cause of the cephalic diseases of children, and of none  
more commonly than epileptic fits. The second is acidi-  
ty in the stomach, its distension by wind, or the mere crude  
dentition in it of crude and undigested aliment. In infants  
of high natural irritability of brain, these disordered condi-  
tions of the stomach frequently lead to protracted or  
convulsion, and in many cases they occur, and other-  
wise exhibit all the characters of perfect  
epilepsy.







At a somewhat more advanced period of life there is no kind of irritation which so commonly proves the source of epileptic fits, as the presence of worms in the intestinal canal; but almost any disorder of the bowels will, in certain habits and states of body, bring on a tendency to a convulsion. The prognosis in this form of epilepsy, is more favourable than in any other variety of the disease, because the source of irritation is both more obvious, and more under an control. The hysterical epilepsy is at least an equally frequent, and unfortunately a much more formidable kind of disease.

It is a melancholy reflection, that it prevails extensively among the most delicate of the sex, at the most interesting periods of their lives, often resisting the most active and judicious treatment, and degenerating into that permanent and almost incurable form of cerebral epilepsy. Hysterical epilepsy commonly affects females about the commencement of the catamenial epoch, or shortly afterwards, when the flow is scanty and difficult. Occasionally it takes place at a later period of life, in accidental obstructions of the menses. It chiefly prevails among those of sanguine temperament, with full development and vigorous action of the circulating system, and a delicate irritable constitution.

Epilepsy is in some instances dependent on a primary morbid condition of the encephalon, and independent of disturbed pas.







action of the abdominal viscera. Cerebral epilepsy is  
of two kinds the one connected with functional and  
the other with structural disease of the brain and ner-  
vous system

The obscurity in which the whole subject of the function  
of the brain and nerves is involved, makes it impossible  
to speak with any precision on that difficult point in  
the pathology of epilepsy at which we are now arrived.

but there appears primary functional disturbance of the brain,  
leading to the epileptic paroxysm, the hereditary predispo-  
sition to the disease; the absence of all appearances of ter-  
mination, excepting such as are common to other forms of chronic  
disease of the encephalon; but the recurrence of the fits  
at regular intervals, and fortynonly at night, are confirma-  
tions of this doctrine; but to these are added the peculiar  
character of many of the immediate exciting causes of the  
fit. of this kind are violent mental emotion, irritation  
and the operations of certain poisonous substances both  
of the Morbid and noxious kind. Arsenic and the mineral  
barytes has been strongly suspected of inducing epilepsy.  
The first effect of the poison of small-pox is frequ-  
ently in children an epileptic paroxysm.

A large proportion of the cases of cerebral or idiopathic  
epilepsy, and in many of those which are manifestly  
connected with disturbed function of the bowels or  
uterus, there is well marked preternatural pulsation  
in some part of the vascular system of the Brain.  
Epilepsy occurs in persons of full habit of body, and ind-







8.  
cent made of air: the fit is frequently preceded by  
headache, flushings of the face, and throbbing of the  
temporal and carotid arteries; it is brought on, in  
many cases, by great muscular exertion, as in portu-  
ation, by stooping, urination, heated rooms, and  
by violent fits of coughing, such as occur in severe whoop-  
ing cough: the Mysterious form of the disease is only  
one of these many consequences of obstructed mensu-  
ration, of which the prevailing character is irregular  
determination of blood: the appearances on dissection,  
when observed, are those of sanguine accumulation in  
the brain.

Epilepsy is often connected with the Chronic disorganization of  
some one of the structures within the cranium. Those  
most usually noticed as producing are, Spicula, deta-  
ched by some injury from the internal table of the  
skull, or projections of the dura; tumours of various  
kinds, attached either to the bones, membranes, or porous-  
substance of the brain; and lastly foreign  
bodies lodged there.

Treatment, During the fit no remedial measures  
of any importance are either practicable or neces-  
sary, our efforts are to be resumed for the intervals  
of the fits, and our aim should be to prevent  
their recurrence. In effecting this the following  
are to be the chief objects of attention.

Having described the different kinds of irritation  
in the body which occasion an epileptic, in the spec-







9.

cases of infants and children much may be done by scarification of the gums, by the administration of an emetic, by the occasional use of purgative medicines, by the use of mild aperients and absorbents, and by a strict attention to regimen and diet. Where the symptoms afford symptoms of worms anthelmintics are to be used, (more especially the oil of turpentine in a full dose), This medicine, independent of its febrifuge powers, appears to exert, in moderate doses, a peculiar power of allaying that unstable state of the nervous system, with which the convulsive paroxysm is so intimately connected.

When the irritation is seated in the uterine system as manifested by the concurrent symptoms, scanty and laborious menstruation, and the peculiar periods at which the fits recur,

For this purpose must be had to the warm bath or semicupium, stimulating enemata, relaxing medicines, as the unanymous diaphoretics, and the different kinds of emmenagogues. Regular exercise, occasional purgatives, and in some instances an open or seton, have also afforded efficient aid in the treatment of the plethoric forms of the disease, pregnancy often removes this form.

The second of those principles by which the treatment of epilepsy is to be guided, is the evacuating the general plethora, and taking off that peculiar determination of blood in the vessels of the brain







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which has been adduced as one of the most im-  
portant features in the pathology of the  
disease.

Such a principle is equally applicable to the sym-  
ptoms as to the primary, or cerebral, varieties of epilep-  
sy, where the disease is still recent, where it occurs  
to young persons, and in robust habits, and more es-  
pecially where, in the intervals of the fits, the  
patient complains of headache, giddiness, stupor,  
or any other marks of permanent fullness in the  
blood-vessels of the brain, fullness and hardness of the  
pulse, bleeding from the arm, temporal artery or  
jugular vein, according to the urgency of the  
Case. Under particular circumstances the necessity of  
substituting for it cupping between the shoulders,  
leeches to the temples, blisters to the nape  
of the neck, and the steady use of purgative  
medicines.

The last of those principles which regulate the  
physician in the administration of remedies for the  
cure of epilepsy, is the altering that peculiar con-  
dition of the brain and nervous system with which  
the state of convulsions is associated.

The medicines of the narcotic kind possess a co-  
siderable power over it. many of them have been  
accordingly employed in epilepsy, and with  
occasional advantage, more particularly Chamae-  
iron, Opium, Hyoscyamus, and Stramonium,







Further, there are grounds for believing that the morbid irascibility of the brain and nerves, on which spasm depends, is often connected with general constitutional weakness, hence it is that many of the most powerful of the antispasmodic medicines are in fact tonic, of these may speak, as having obtained considerable reputation in the treatment of epilepsy, hark, steel, valerian, and sniethelae.

The artemisia vulgaris has been lately used, with success. The cones of the yew tree has also cured many cases.

But it must be confessed, that we are unable to form any precise idea of the nature of that morbid state of the nervous system present in convulsive diseases, it shows that some of the medicines which have acquired a character for the cure of this disease, may have deserved it, although the mode of their operation be as little known to us, as the state of the brain on which the epileptic paroxysm depends.

Numerous cases are on record of the permanent cure of epilepsy by the argenti nitratum, by Baile, Johnson, and others, though many of these cases may be inaccurately reported still we must acknowledge the alleviation afforded by the remedy; and this appears inexplicable on any other principle than that







to which I have now adverted, It is taken in the  
dose of  $\frac{1}{8}$  of a grain four times a day, and increased  
continually for some time, it cures the retenti-  
on of a dark hue, which however gradually  
disappears on leaving off the medicine, Arsenic,  
and the oxide of zinc, have been found by  
many very successful.

Dr. Rush and many others of the first authority in  
medicine have borne testimony to the efficacy of  
this preparation of Zinc, given doses of three grains  
three times a day it has been increased to two scruples  
three times a day.

The Cuprum Chimomacum has also succeeded, in the  
dose of a quarter of a grain three times a day and gradu-  
ally increased.

Salivation has often succeeded. Fin has been  
used with advantage. It has been given in com-  
bination with combination with a decoction of the  
Mistletoe, Valerian, &c.

Dr. Rush has given this acetate of lead in the  
dose of two grains three times a day with complete success.

The tartate of antimony given sufficient doses to keep  
up constant nausea, has had a beneficial effect,  
Nipot recommends it in combination with mer-  
cury, in the cases of Children

Dr. Johnson speaks highly of the tincture of Contharides,  
given internally, and blisters applied on the spine  
Galvanism is also among the remedies for epilepsy.







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When the disease depends upon ossification of the membranes of the brain, or upon abscesses in them, (by catarrhs, bone, and schirus tumours, &c.) it is invariable, when the disease has originated from an original injury to the brain, and the membranes are affected, it has been constantly relieved by the operation of trepanning.

The actual cautery, not being applied to the crown of the head of its hair, the hotter it is used, the less band attends it. It has succeeded in this disease.

The cautery, the moxa, burning by the concentrated rays of the sun, and issues are applicable, where the disease is owing to inflammation of the membranes of the brain produced by external injuries.

The use of cautery in epilepsy is supported by the salutary effects of accidental injuries on the scalp.

Hippocrates has observed that ulcers about the head and ears have cured epilepsy.

The Forten emetic treatment, has succeeded by exciting eruptions on the skin beyond any other remedy.



The first of these is the fact that the  
the second is the fact that the  
the third is the fact that the  
the fourth is the fact that the  
the fifth is the fact that the  
the sixth is the fact that the  
the seventh is the fact that the  
the eighth is the fact that the  
the ninth is the fact that the  
the tenth is the fact that the

# De Haemorrhia

In temporibus virtutis aut diebus praeteritis, Morbus haemorrhialis  
fratris huius putabatur. Nam Rex regum Solomon, sapienter prin-  
cipis sapienterum, Haemorrhia simulis exolavit. O puerum  
paucitatis mea, quae nunc in imperium delitescunt.

Guilielmus P Flint

cum reverentia maxima, hoc  
opusculum inaugurale, de Sono-  
rrhea, tradit facultati medicae

In Collegio terra Mariae







## De Gonorrhoea

In temporibus vetustis aut diebus praeteritis, Morbus Venerealis  
praevalens putatur; Nam Rex regum, Solomon, sapientissi-  
mus sapientium, Ita poeta similis exclamat, O, peccata  
juventutis meae, quae nunc in iniquitate delitescunt,  
Haec sunt verba ipsius, qui duxerat uxores sexaginta et  
filiis octoginta — Origo hujus morbi vel videbatur  
ubi primo, est aliquantulum in ambiguitate et obscuritate,  
Nam in scriptoribus antiquis, dissepationem existam  
esse magnam, Enim nonnulli latius est e America  
a militibus Columbi ad Europam dicunt,  
Sed alii fide maxima dixerunt ortum esse in Italia et  
vehabatur inde Galliam Hispaniam et cetera, at rei veri-  
tas est hoc, quae sentiens universalis praevalens ad pun-  
ctum hoc pervenit, quod oriretur copulatione impura,  
"ergo hoc et propter hoc", ab initio illius epochae, quem  
virginitas violata et stupra regnabant — Ab aliis Gon-  
orrhoea pro peccatis multis, hominibus et feminis dicitur  
fuisse tradita, Quae quia virus venereum putabatur illis  
non contaminare carnes, quare aiunt mortalibus Deo  
omnisciente, causa aberrationis et mandatis sanctissimis







7

Decalogo Dei magni. de illis, qui virus Gonorrhoea e corpore  
morboſo dicunt, in eanem partem non transferre poſſunt. Poſtea  
mihi eſt occaſio animadvertere, ſed nunc Pathologiam  
Gonorrhoea cupio cito et literate perſcribere,

Urethra membrana mucoſa dicitur eſſe ſedes huius morbi.  
In primis, virus venereum coctum receptum et a lacunis  
urethra abſorptum, inde irritatio, inflammatio et ſuppuratio  
ſequuntur, partes conjunctae fiunt morboſae et  
inflammatio diebus paucis frequenter veſica urinaria ad-  
venit, glandula proſtata et Cowperi glandula interdum  
ſim inflammatione ſunt affectae, praesertim ſi patienti  
ſit ſcrofula, etiam teſtes turgida quae ſecundum ſcien-  
tiam vocantur, hernia humoralis, inguenis affectae  
glandulae miltariae ſunt ſaepe morboſae, at non crebro  
ſuppurabant, Multi auctores arguunt, quod virus  
Gonorrhoea et virus Syphilis ſunt eadem, horum auctorum  
unus (Joannes Hunterus) loquitur, ſi virus Syphilis poſi-  
tum eſt urethra, morbus Gonorrhoea contrahitur et vice  
verſa et viro Syphilis Gonorrhoea procreatur, Joannes  
Hunterus non eſt ſingulus ſolus, qui opinionem hanc pu-  
tentat, quia multi perhonorifici medici et conſpicui  
et praecelari eandem aſſeruerunt quae veſtigis uſdem



Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher due to the bleed-through effect. It appears to contain several paragraphs of text, possibly related to a medical or scientific study, given the use of terms like "phlegm" and "respiration".



8  
espiderant, Gonorrhoea et Syphilis videantur in corpore uno  
simul, Hæc; sed viro distincto speciali signabantur, si hæc  
sit vera, Cur est Gonorrhoea et Syphilis non perpetuo comites  
videntur, tunc cursum rogarem; non sunt in copulatione  
ne partes omnes penis materiae Gonorrhoea periclitata?  
quid mihi responsum erit, certe sunt, et nemo potest negare,  
sed loquor ulterius, quoties quum hominibus est morbus  
Gonorrhoea, videmus nonnullos linteam positos esse  
super partem omnem, et sine per horas manere, tunc  
erat non tempestivus locus propagationi Syphilis,  
Nunc dic mihi cur Syphilis non supervenit, Hæc sunt  
interrogationes illis qui certant virus venereorum deorsum  
videm insuperabiles, Quomodo, homines, talis sapientia  
scientia et investigationis profunda auferunt opinionem  
tam errore implicitam evo perpetuo diffundere, non  
possum in mente figurare pro vita mei - affectationibus  
diurnis coarquo et factus certior, quod virus Gonorrhoeae  
non potest et nunquam poterit inducere Syphilis et vice  
versa, at sunt illis experimenta qui opinionem contrariam  
tenent, eite tunc fiunt convicti stultitia sua et cedunt  
dictatis erroris expertibus, Virus venereum ab Gonorrhoea receptum  
membrana mucosa urethra se ostendit diebus pau-







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eis, uno ad quindecim, Hebdoma est epocha mediocritatis  
sed illis quibus morbus hic semel fuit, plus facile suscipiant  
et frequentissime se manifestat horis quadringenta,  
Indices hujus morbi sunt sicuti, In primis sensus acule-  
atus seu punctio est perceptus propter meatum externum  
penis cum rubore partis manifesto, inflammatione secuta,  
latera meatus externi penis coagmentantur materia lactis  
flori simili, aliquantulo mixta colore palente subvirido  
sicut morbus progreditur, fluxus fit major et invenit  
inflammatione, Ardor urinae quem inflammatio itinere  
at per membranam mucosam urethrae et extendens ad  
vesicam urinariam, est evidentissimus, quia partes sunt  
Mollicella et exitus urinae super superficiem lacuna in-  
flammatam sic dabant originem sensui ardoris et doloris  
acribitati, Hoc est, quod vulgo vocatur (ardor urinae) —  
Si inflammatio maneat et non domita sed permittitur  
progredi, imperturbata, at si partes saepe abluuntur, aspec-  
tationis natura hujus, Phymosis et Paraphymosis  
erubro succedant, ergo causa horum putantur esse  
virus venereum, quod partibus adhaeret circumiacentibus,  
Materia Gonorrhoea tibi sumit colores diversas, et vicissi-  
tudines multas spiritatus virus in gradibus omnibus diversis







huius morbi, nunc in principio densa, nunc ad finem tenues,  
 Per totum morbi intervallis patientes sunt ~~morbo~~ molesti exer-  
 tionibus membri virilis excruciatos, seu tertiginibus, et plerumque  
 quum recipiunt sese cubitum nocte, et ibi calefacti, hae tertigines  
 cruciatu sequuntur, cum curvationibus penis deorsum, seu chordi.  
 sicut nominaverunt, et causantur inflammatione magna urethrae;  
 quia tunc videtur evidentissime, quod tensio et erectio penis  
 non possunt occurrere ~~atque~~ <sup>absque</sup> dolore maxima, saepe facientes semet-  
 ipsos vociferare, et cubito Balne, eam sponere pelvi aqua gelidissi-  
 ma, dolorem levare; frequentissime per diem sed plerumque freq-  
 uentior per noctem iterum atque iterum, hi patientes tertiginibus  
 reiteratis coacti sunt modo supra dicto, scilicet vase aqua  
 gelida, per multum temporis non cubuerunt cubito, priusquam  
 iterum, simul atque calescunt illis sunt hae tertigines, hic mor-  
 bus progredit per tempus longum, quae interdum dicitur ultimo  
 medicamen suum efficere, at multum frequentior sanies sequitur  
 quam terminatione prima, et morbus diuturnus gonorrhoea non  
 facile remediis notis cedit, huius morbo gonorrhoea inflammata  
 si sinetur progredi, sunt multa consecutiones mala comitan-  
 tes, quorum unus nunc ad deliberandum propono, ob hanc  
 causam, quia est tardior remediis collatis et quia periculosior  
 exitu eius, et quum occidit, quae remedia non cito utuntur, indicio







natura funiculosissima adsunt et si nullum auxilii praebitur  
 instanter mutare statum morbidum partium, citius vel  
 serius patiens festinabitur, iter facere regionibus incompositis  
 Coni ejus longi, etiam strictura urethrae quidem sunt vero prece-  
 ulsa, quia dies, menses et etiam totum anni praeteriant, sed stri-  
 ctura urethrae semel absolute bene formata, adhuc mansant  
 in statu quo, atque intervallis, sicut interdum causa doloris  
 exquisita patienti, forsitan propter exitum urinae per viam  
 naturalem obstructum, et etiam propter tentiginos qua occurrunt  
 et distendunt urethram nodosam, haemorrhagia quaedamque  
 ab urethra subsequuntur, dum morbosus nitatur mittere, eni-  
 tatur cursum. Ecce pertossifactus, quia sanguis effluit, urethra  
 urina mixta, nunc partes circumjacentes fiunt morbosa,  
 vesica urinaria irritatur et patiens post tempus certum urinam  
 non potest tenere, ac irritatio vesicae urinaria eum fert saepe  
 mittere, cum sensu angoris, vicinis seroto, vesicis et fundamento,  
 nunc glandulae inguinis sapissime quem morbus progreditur  
 consensus mutuo partium affectantur, tensa et turgida fac-  
 ta sunt, patienti sunt causa doloris cruciati et etiam doloris  
 volitantes dorso ejus sentiat, calor corporis crescit, et nota feb-  
 ris symptomata sunt obvia; testiculi interdum et plerum-  
 que frequentior tumefacti sunt quam glandulis inguinis.







In hoc statu primum nobis est quod vocatur Hernia humoralis, et si non aetate daretur vel impeditur in ejus progressu, increseat ad magnitudinem vastam que fiat fons et origo angoris magnae nam pondus suum est non tantum fore intolerabile, patienti ambulanti at jam nunc stanti vel sedenti, nisi testes sunt suspensi — subinde Glandula Prostata est frequenter morboza, et morbus in capita duo distinguntur, In primis ha inflammata affectionis, qua sunt appetationis irritationis partium vicinarum, que secundo, Hi morbi horridi quibus in feriadis vite posterioris, de primo horum cupio dicere, glandes morbosus ab Gonorrhoea, insuper saepe est appetatio Gonorrhoea semisanatae quum virus adhuc fluxit enormiter partibus et tardeque exprimitur manu, materia est pusulenta, interdum sanguine mixta, item sensus ardoris, et irritatio cervicis vesicae urinariae frequenter comitantur stercidiosis urinae, Patiens sentit pondus pelvi, vesicae urinariae, recto intestino et perinaeo; faeces ejcta sunt dolore et difficultate maxima, Desiderium patientis mirum est magnum, tentat et cursum tentat sed tantum guttae paucae urinae exactae sunt; Stricturae urethrae etiam sunt appetationis esse Gonorrhoeae, quum injectionibus stimulatibus tractantur, stricturae urethrae definitae sunt, attenuationes exitus urinae per urethram, inflammatione antecedente originata. — Stricturas sunt



The state of the world is now  
very different from what it was  
some years ago. The progress of  
civilization has been so rapid  
that we are now in a position  
to do things which were  
impossible only a few years  
ago. The power of the  
press has increased so  
greatly that we are now  
able to communicate with  
each other in a way which  
was never before possible.  
The world is now more  
connected than ever before,  
and the progress of  
civilization is so rapid  
that we are now in a  
position to do things which  
were impossible only a few  
years ago.



divisiones duae, facta sunt ab aliis; Organica et Spasmodica.  
Joannes Hunterus ait; fibra musculi videntur membrano mucoso  
urethrae, sed multi negabant hoc, quae experimenta falsam pro-  
baverunt, ergo stricture ab primo sint actionis tantum spasmo-  
dicae et actione naturali membrana mucosa urethrae digesta,  
atque si relaxus sit fibrorum, similitudo nulla morbo  
potest videri, quamobrem occurrant secundum speculatorem  
ejus sine inflammatione antecedente; hanc non credo, exper-  
imenta Joannis Bell satis sunt refutare; videlicet, globi  
plumbi et negotiationum ceterorum, in urethrae ponbantur,  
aspectatione erant tales, nem confirmare semetipso, -  
causa stricture sunt variae, et frequentissime oriuntur  
usu injectionum stimulantium in curatione hujus morbi  
Gonorrhoea, cantharidis emplastra superficiei cutis applicata,  
item in vesica urinaria lapides, injuria ceteri partibus  
intendunt cum stricture urethrae est ruptura partium que ext-  
eriora sequitur, possumus sane certis signis ad promo-  
tionem ~~partis~~ pertinentibus exitum prognoscere, enim si  
stricture urethrae, irritatione multa comitatae sint in per-  
inas et cervicem vesicae urinariae cum calore et dolore  
ac exacerbatione frigoris et caloris adsunt. teneritas urethrae  
maxima, cupido inordinata mire que potest tantum







guttas paucas ejicere ardore urina magna, adhuc cupido mi-  
 re auget, que ad extremum dum vitans mire conatus max-  
 imis, huic est sensus fluxus, sed quid est, ecce urethra rupta,  
 tunc urina dum permeat serotum et intumescit  
 confestim ad magnitudinem incredibilem, tumor pergit  
 crescere, vicinis extendes partibus per cellulas membrana-  
 rum et ita angoribus ex cruciatissimis perditur vita,  
 Nunc mihi est occasio loqui de verruculis & Gonorrhoea  
 qua sunt posita vel nascuntur glandi aut preputio  
 penis, interdum permolita facta, Quia si excisio  
 perficiatur, iterum renascunt, ha dicuntur oriri viro  
 venereali Gonorrhoea, manente partibus circumjacent-  
 ibus ore externa urethra, atque etsi morbus evanescent  
 ha verrucae manent, argentes gradatim, et ad extremum  
 sese vertentes in ulcusculum, quia glandie statim  
 certum duritia tenent et tactui sunt sine dolore; Plurimum  
 que frequentior preputio penis locantur, unum, duo, tres,  
 aut plures videantur, que saepius hyeme quam aestate,  
 qua causa explicare non possum, nisi quia frigus reman-  
 sioni virus gonorrhoea, in partes ubi morbus verruculorum  
 locatus est amicitior; alii dicunt consensu mutuo occu-  
 dos affectos esse, similes glandulis inguinis, que illi







10  
sunt difficiles medire. at veritas rei hujus est hoc, patens  
digito morbum communicat oculis, quum illi oculos digi-  
tus tangit seu terit incogitans, quibus erat aliquod virus  
Gonorrhoea, hinc Gonorrhoea ophthalmia, nunc omnes diversas  
apertiones momenti ullius ab Gonorrhoea ortas, credo ren-  
umerari, alia quorum periculosa, alia levis, igitur initio  
incipiam que remedia optima nitabar scribere variet-  
atibus diversis. In primis, morbus ipse - Gonorrhoea tra-  
tata est, in libris prescriptiones invenimus multas die-  
atas et commendatas, auctores multi arguunt quod est  
morbus localis, quamobrem applicationes locales essent  
remedia, injectiones medicinarum constringendarum,  
sed inquam huic praxi, sunt objectiones, primo, obviest  
venereale virus in urethram agitur ulterius, que gignat  
irritationem et inflammationem partium posteriorum fre-  
quentissime stricturas elaborant, vesica urinaria est inter-  
dum ab remediis natura similis implicata, mala ap-  
tationes quidem sunt tales, quod ullis experientia nunquam  
utuntur, igitur ab praxi medicina exauctorentur recte.  
In curatione hujus morbus - Gonorrhoea - cogito mihi esse in-  
tile, ponere hic omnia diversa remedia, que fuerunt adh-  
ibita, alii quorum sunt tantum subsidia, alii peiores quam







nihil, — Si multum caloris corporis adsit, actio cordis au-  
 ta, cum notis ceteris febris, que si sit multum inflammat-  
 ionis localis, tunc est optime incipere detractio sanguinis  
 cathartici salini, poti mucosi haustibus magnis, aqua Hordei  
 seu Ptsana, aqua cum seminibus lineis subferrefacta, sol-  
 utiones gummi Arabici cum lacte, dieta tenuis est sub-  
 acta, quietus corporis. alvi adstrictio est evitata, cathar-  
 ticus darentur, usus quorum est regularis, Post hoc Cop-  
 aba Balsamum est prescripta cum adjuventis ceteris con-  
 junctis, Formula optima, qua scio, et experiri esse com-  
 modi maximi in curatione hujus morbi, verbis potest  
 et dabitur paucis, sicut plures adolescentium vel singu-  
 lorum quibus est Isorrhoea, cupiunt oblitescere, igitur  
 fuisset tandem desideratum, quo modo seu vehiculo  
 optimo, remedia darentur suspicionem vitare, Gummi  
 consolidatum leopava Balsamum fuisset negotiatum  
 sed non efficax satis, per multa remedia cetera, banth-  
 aridis tinctura, Torbunthinae oleum et omnes diuretici  
 stimulantia adhibita sunt, est alius, Piper Cubebis,  
 tantum fiducia in curatione hujus morbi positum est  
 quod in eo solo multi credebant, Tama hujus medicina  
 creta et alta, ut animus ferret eam experi, igitur mor-







basis Gonorrhoea repetite adhibita erat et agometipse in rebus  
 propriis, maxime post vena sectionem, catharticos salinos  
 et dietam tenuem expertus fui, quidem que cogor fatere  
 quod nunquam commodi melius eam cognovi, sed contra  
 ad frustrationem meam magnam deludebatur, quia  
 morbum auget obic, hactenus dico pro piperem  
 hoc bubba, quod pidi usum, multa medicina est  
 urinam eientes que plesum que illorum sine stimulantibus  
 aut non sine discrimine date sunt, et dicuntur curam  
 efficere, sed consuetudine talis, lector, certe quidem in Gonor-  
 rhea tempestiva damnari debent, at gradibus posterioribus  
 morbi quum fit stabilis vel in panis essent utilia praecipue,  
 tunc formulam dabo, capse Balsamum Copera et spiritum  
 Nitri dulces proportionales aequales; Gummi Arabicum dimidii  
 quantum, cui aquam adde nullam sed quantum sacchari  
 albi, tantum facere solendum, quibus etiam aliquantulum nini-  
 tha Piperis vel olei citri, simul teritur, que tunc cumuli  
 huius in partes nonas divide, unam ter per diem captandam,  
 ante cibum semper, Haec praescriptio daretur ab initio, at  
 est optime patientem pepere prius, si systema proseretur  
 interdum inflammatio partis est tanta, quod profluvium  
 sanguinis locale fit necessarii, chordus saepe urethra







obvenit et quum tertigines occurrunt, semper dolorem crescunt et quidem sunt vero cruciati, qui remedium e pluribus est emerge ere instantes perum vasa aqua gelida, alia sunt muso gelido partes posteriores corporis nudas ponere. tam diu tertigo manet. Opii tinctura adhibita est et soporifici ceteri et intrinsecus et extrinsecus cum cataplasmis panis et lactis, frequenter opus est folias Belladonna atropa in pulverem redactas in unguentum factas Peri accommodari, Hernia humoralis dicitur e Isorrhoea oriri sapissime, qui crebro curam et attentionem poseit, quia fit magnitudinis talis, interdum patienti intolerabilis, nisi saeculo suspenditur, quod lenit aliquanto dolorem. huic morbo permutta remedia negotiata sunt, emetici, cathartici, Applicationes aliqua, mis et glacies, sed embrocato herbarum amararum posita partibus est potissimum, continuo quantum caloris tati partes sine dolore possunt tolerare, strictura urethra etiam testantur; in curatione quasum remedium ad radicem pertinet quod praecipue fructum esse, idem est hoc, Nitras argenti, subdita in virgula terite argentea ne summi elastici, introducta per urethram strictura que gesta in urethra pro tempore longo sunt, e parte quarta hora, ad







semihoram, horam, seu potest quamdiu per diem fieri  
 hoc remedium versatur post usum virgula teritis  
 et argentea; ~~salsque~~ agente Nitro argenti, sic strictura  
 tardi et gradatim vincuntur, multum plus de remediis  
 stricturasum diceretur, at quid dixi, satis est, scio,  
 eas obliterare, cur ergo de hac re episcopo dixissem -  
 subinde Inflammatio glandula Prostata etsi inter-  
 dum cum Scrofula oritur, tamen cum gonorrhoea vid-  
 eatur et a hircudinibus tractata est, balnea tepida  
 poti mucosi, infusiones seminis lini cum multis  
 aliis remediis oppurgantibus inflammationis,  
 nunc dicit meipso de gonorrhoea feminasum loq-  
 ui, quia tantum pauca verba dicabo, Imprimis  
 animadvertetur, ea omnia praequam proposit remedium  
 ullam ceterum praeter munditiam, lotiones aqua gel-  
 da et res similes, quia sedes morbi feminis est pagi-  
 na, sed etsi urethra sit interdum morboza, Haec  
 remedia similia, qua in Gonorrhoea masculina eadem  
 exitu negotiosenter felicissimo,







an essay on  
Dysentery.

Submitted as an Inaugural Dissertation

To the examination of

George B. Tamm, Esq. Professor

of the Principles and Medical Faculty of the

University of Maryland.

For the degree of Doctor of Medicine

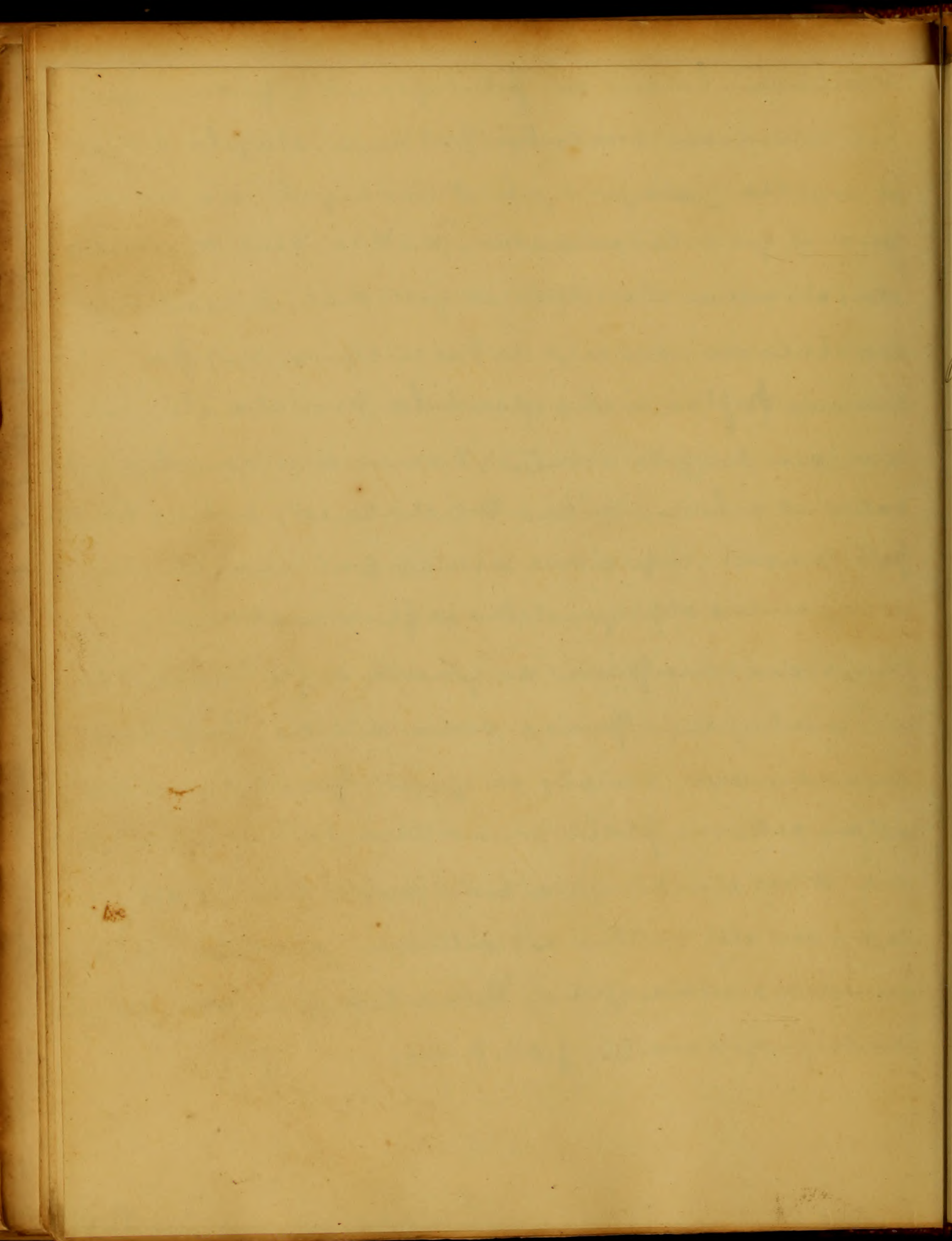
on the            day of            one thousand

eight hundred and thirty one

By William Wilkinson Grogan

of Chatham County Virginia.







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on the . . . day of . . . one thousand  
eight hundred and thirty one. —

By, William Wilkinson Gregory,  
of Chesterfield county Virginia. —

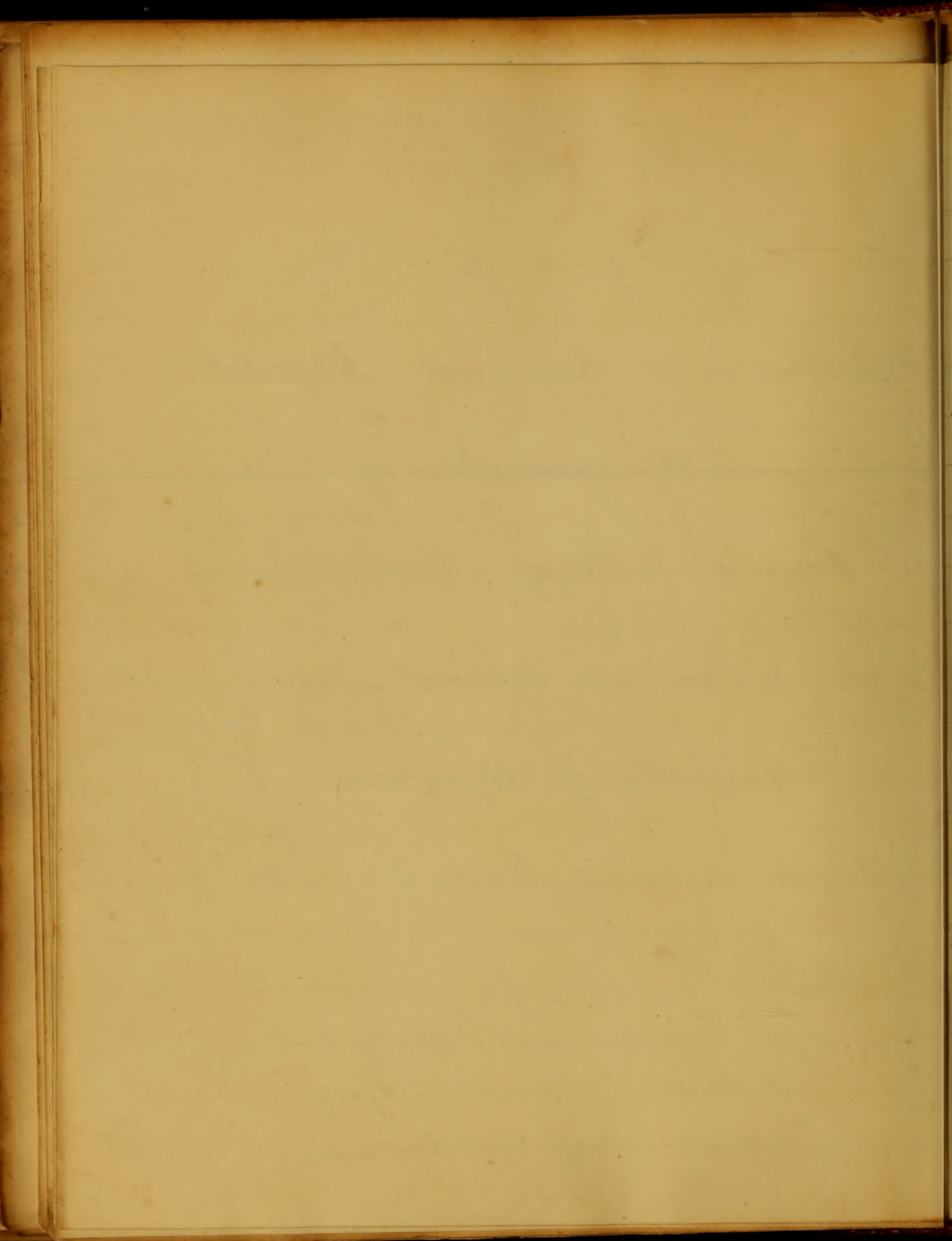


of the Faculty of Medicine  
of the University of Maryland  
in the City of Baltimore  
for the degree of Doctor of Medicine  
in the year 1800  
by  
John H. Johnson  
of the County of Baltimore  
in the State of Maryland











To originate a new and popular theory in Medicine, or in any other science at this period, would be difficult with him whose opportunities for the acquisition of literary knowledge, have not extended beyond mediocrity. In the early ages of antiquity, but little was understood concerning the real operation of causes, and effects; consequently it is very easy to conceive of the manner in which new systems and new theories derived their origin. At the present time the advanced state of science renders it necessary, that the Student should spend the greater part of the morning of his life in acquiring what has already been developed.

If we consider attentively the state of Medicine as handed to the Arabians from the Temple of Esculapius, by some of the Grecian Prelates, by whom the art was principally practiced, we shall be struck with astonishment and admiration when we behold it in the hands of a Sydenham, a Cullen, a Rush and a Potter, clad in the splendid garb of Philosophy. Tho' Chemistry, Mathematics; and in short all the various branches of Philosophy, have been called into aid in the explanation of the phenomena of disease; yet we not infrequently find ourselves entirely at a loss, when we attempt to account for many of the symptoms incident to a morbid state of the animal







functions. The disease which I have selected as a subject for an inaugural dissertation is Dysentery; not that I feel myself adequate to the task of liberating it from the cloud of intricacy, in which it is enveloped: for to such pretensions I have no claim: This I leave to be effected by him, who has mingled with the philosophy of ages, a life of experience and reflection; my object being simply a compliance with the laws of the institution. If I should be so fortunate as to delineate the true character and symptoms, together with the progress and treatment of the disease which I have here proposed for consideration, I shall have, may more than fully, accomplished the object of my most sanguine expectations. —

Dysentery is a disease with which it is of the greatest importance to be acquainted, no other complaint, fever not even excepted, is so much calculated to puzzle the young beginner, and for this plain reason, that when the hour of danger is at hand both men and books are calculated to distract his judgement, and by their diametrically opposite directions, to paralyze his arm. —

For one will tell him that Dysentery is a disease closely allied in its nature to Enteritis, therefore he must bleed; another tells him, that the cause of Dysentery is dependent upon







strictures in the colon and small intestines, thereby occasioning a retention of the fecal and other peccant matter, and therefore he must purge, when perhaps a third assures him his patient will be purged to death, and that the only true plan is to sweat him, and perhaps again he will be informed by a fourth, that if Mercury can be said to act as a specific in any disease, it is in this, and unless he can salivate, his patient must be buried. Now in this state of suspense he continues to vacillate from one direction to another and behold! his success is less than if he had pertinaciously adhered to the worst plan proposed. Experience then will be the only means by which he can determine his choice, and many an anxious hour must he spend whilst exploring his way through this labyrinth of opinions.

We have hardly any disease in Nosological arrangement more uniform in its nature and symptoms than this, hence mistaking prominent effects for proximate causes, must have been the manner in which this discrepancy of opinions among authors and practitioners originated, so that the means of cure directed against the effects have often removed the causes. Therefore each individual believed that he alone had found out the true cause and treat-



...in the ... and ...  
...of the ... and ...  
...perhaps a ...  
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...will be ...  
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...the ...  
...in its ...  
...effect for ...  
...of opinion ...  
...of ...  
...the ...  
...the ...



ment of the disease; perhaps one Physician will examine the body of a patient who died in a certain stage of Dysentery, and he will discover marks of inflammation, or perhaps Sphacelus, in different parts of the intestines, but he finds no other remarkable appearance; so he forms his inflammatory hypothesis, and he makes Venesection the principal indication, and in subsequent cases his success is only tolerable, but he becomes quite satisfied, that he alone has hit upon the proper plan. And then another patient dies, but at a period of the disease less advanced, or when all signs of strictures and relaxation have not been effaced by mortification; he will then say he is examined by another Physician, and upon examination he discovers the inner coat of certain portions of the intestines thickened, corrugated, and the caliber of the organ diminished, with fecal matter (called *Seybala*) lurking in the cells of the colon, or perhaps in the bendings of the small intestines; here then he establishes his doctrine, and occasionally afterwards has recourse to bleeding; and exhibits certain medicines, which he supposes have the power of relaxing these spasms, or strictures, together with frequent laxatives; and very often success is the result.

Another person in the examination of a different subject







discovers ~~himself~~ a defect, or other organic derangement of the liver, and he concludes that Dysentery is Hepatitis in disguise, he administers mercury and his success is still better than those who have preceded him. Therefore he is positive that he alone has followed the true course and has correct ideas of the disease; whilst a fourth will observe that Dysentery is always accompanied with a defective perspiration, and believing as Sydenham did, that it was a fever thrown in on the bowels, he has recourse to sudorifics to turn it out again, and not without success. —

Now I would ask the question, how are we to reconcile these jarring opinions and practices? He who could lay down or establish any fixed principles, which he could always have in view throughout every case, and by them explain the phenomena as well as the mode of cure, and by the same give easy and plain directions, when we ought to lean towards one or the other of these directions, so apparently opposite, without losing sight for a moment of the principles in question would certainly deserve the thanks of the profession. —

**Symptoms.** This disease is often ushered in by a sense of lassitude, nausea, a want of appetite, with a bad taste in the







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mouth, the pulse somewhat depressed, with perhaps slight  
chills, alternating with flushes of heat, great thirst, dry skin,  
with pains in the bowels, costiveness, and sometimes a diarrhoea;  
sometimes the disease is very insidious in its attack, commencing  
with griping, accompanied with mucous and bloody stools,  
and with tenesmus, without any premonitory symptoms; when  
it arises from causes that act immediately on the mucous membrane  
of the intestines, this is most apt to be the case, but most generally  
the fever is developed before the proper Dysenteric symptoms show  
themselves; sometimes the febrile irritation is preceded by more  
or less diarrhoea, and tormina, but occasionally the mucous and  
bloody stools, accompanied with tenesmus, are the symptoms  
first discovered. From the commencement of the disease, and  
generally throughout its whole course, no feces are spontaneously  
discharged, the stools consisting entirely of mucous, more or  
less mixed with blood, but tenesmus may be considered one  
of the most characteristic attendants on this ~~morbid~~ affection;  
and this very violent and painful symptom, will generally  
afford us a pretty accurate criterion by which to judge of the  
violence and extent of danger in the disease. —

Sometimes much pain and difficulty are experienced in voiding



months, the face around the eyes, with purple spots  
chills, a throbbing with flashes of heat, and  
with pain in the face, "catarrhs" and sometimes a discharge  
sometimes the disease is very insidious in its attack, commencing  
with quinsy, accompanied with mucus and bloody stools,  
and with tenderness, without any spontaneous quinsy; but  
it arises from causes that act immediately on the mucous membrane  
of the intestine, this is most apt to be the case, but most generally  
the face is developed before the proper spontaneous quinsy has  
developed; sometimes the facial catarrh is preceded by  
or the diarrhoea, and tenesmus, but occasionally the mucus and  
bloody stools, accompanied with tenesmus, are the quinsy  
first developed. Thus the commencement of the disease, and  
generally the progress of the whole course, in face are spontaneous  
chills or heat, the stools consisting entirely of mucus, more or  
less mixed with blood, but tenesmus may be considered one  
of the most characteristic attendants on this minor affection,  
and this may be met with painful quinsy, with generally  
afford us a pretty accurate criterion by which to judge of the  
nature and extent of danger in the disease.  
The pain much pain and difficulty in passing in vomiting



urine, and then the tormina are extremely violent and distressing, but they are however, more so just before the urgent calls to stool are experienced, whilst a constant soreness is discovered in the abdomen. It is sometimes the case that the stools are entirely of a mucous nature, or with very little or no blood mixed with them, but generally a great quantity of blood is discharged mixed with mucous, though in some cases the evacuations consist, wholly of blood.—

The discharges from a Dysenteric patient in the beginning of the disease are very seldom accompanied with faeces, though it is sometimes the case that they are accompanied with a peculiar disagreeable smell: When the disease is advanced, and where the case is a violent and dangerous one, the stools, generally, have a pungent and cadaverous smell, and at the same time a sarinous and corroding character. In some instances, the heart and arteries sympathize but very little with the local inflammation, but it is much more common to see fever of a high grade accompanying the disease. When the case are protracted and unrelieved, there ensues great prostration; the pulse becomes small, perhaps corded, and very frequent; the countenance cadaverous and contracted; with tenor



... and then the former are of course not only  
but they are however, whereas just before the rupture  
an appearance, whilst a constant course is observed in the  
disease. It is sometimes the case that the blood are entirely of a  
nature, or with very little or no blood mixed with them, but gen-  
erally a great quantity of blood is discharged mixed with  
mucus, though in some cases the mucus consists wholly  
of blood.

The discharge from a splenic tumor in the beginning of the  
disease are very different from those which follow, though it is  
sometimes the case that they are accompanied with a peculiar  
discharge itself. When the disease is advanced, and the  
tumor is a solid and dangerous one, the blood grows at length  
more frequent and copious, and at the same time  
more and more of a bloody character. In some instances, the  
tumor and other symptoms are but very little with the  
local inflammation, but it is much more common to see  
of a high grade accompanying the disease. When the tumor  
has reached a certain extent, there ensues great prostration, the  
pulse is very small, feeble, and very frequent.  
The quantity of excretions and discharges, with their



and elasticity of the abdomen, the skin shrunk and harsh, the gums tender, and swollen, and the breath offensive.

It is sometimes the case that an apparent amendment occasionally occurs, after these very dangerous symptoms have come on, it is however fallacious, for although the pulse may rise and to all appearances be improved, with a remission of the tormina, and tenesmus, still the restlessness and anxiety may increase, and the stools become dark, pungent, liquid, and offensive, the extremities cold, the countenance Hippocratic, and the surface of the body moistened with a clammy sweat. At first the tongue is covered with a white fur, then becoming brown, rough, and in the progress of the disease, becomes dry along the middle, though the edges will be red and perfectly moist.

In protracted cases, or cases of a sub-acute character, the edges of the tongue will become, as well as the tip, perfectly clean, smooth, and fluid; but in the chronic form of the disease, the whole surface of the tongue is often smooth, red, and clean, or perhaps red and granulated. The urine is always diminished in quantity, and high coloured, and is occasionally of a pungent odour. The hepatic and cutaneous functions are always inactive



...of the abdomen, the skin is dull and hard;  
the pulse tender, and the breath offensive.  
It is more than the case that an apparent improvement is  
usually seen, after these very dangerous symptoms  
have subsided, it is however fallacious, for although the  
pulse may rise and the appetite may be improved, with  
a cessation of the vomiting, and the bowels  
may and usually may increase, and the blood become dark  
purplish, livid, and offensive, the extremities cold, the  
countenance sallow, and the surface of the body  
resonant with a clammy sweat. At first the tongue is  
covered with a white fur, then becoming brown, rough,  
and in the progress of the disease, becomes dry and the white  
though the edges will be red and perfectly moist.  
The protracted case, or one of a sub-acute character, the tongue  
the tongue will become, as well as the lips, perfectly clean smooth  
and fair, but in the chronic form of the disease, the white surface  
of the tongue is often smooth, red, and dry, or has a hard  
and granulated. The urine is always dim, in a quantity  
and high colored, and is occasionally of a purulent odor.  
The hepatic and cutaneous eruptions are always in order



9  
in this disease, and the discharges from the bowels invariably freed from bile, and the skin abstinately dry, particularly during the active period of the disease.

Causes of the disease. - a sudden check of perspiration, may be considered the most common of its exciting causes; excessive fatigue, and a long exposure to the direct rays of the sun, appear to have brought it on. All unripe fruit, all acid and acescent substances, will unquestionably produce it; and even fruit which is perfectly ripe when taken in too large a quantity; large draughts of cold water have sometimes the same effect. The character of the fever which accompanies inflammation of the intestines, may be said to vary from synocha to Typhus Gravior, for the type depends upon the cause of the disease; many contend that marsh miasma is the true cause of the disease, but this is certainly a mistake, for it may be found in situations, where marsh effluvia do not exist, although it has been so frequently ascribed to this cause. It is my opinion that heat is the true cause of the disease. In autumn it takes on a bilious remittent form, when it is more inflammatory, and then



in this case, and the discharge from the lungs may  
also flow from the, and the skin is affected by dry, fissures  
usually during the active period of the disease.

(Lives of the illustrious) - a sudden attack of inflammation  
may be considered the most common of its exciting causes;  
excessive fatigue, and a long exposure to the vicissitudes of the  
air, appear to have brought it on. The anasarca first, and  
and an abundant secretion, with unproductive perspiration  
across the surface, which is perfectly dry when taken  
to large quantities. Large draughts of cold water have  
been tried the same effect. The character of the fever which  
accompanies inflammation of the intestines, may be said  
to vary from simple to typhoid fever, for the differ-  
ences upon the course of the disease, though evident that there  
is some in the true course of the disease, but this is certainly  
a mistake, for it may be found in inflammation, but in the  
affairs do not exist although it has been so frequently  
mistaken for typhoid. The true opinion that it is the true  
cause of the disease. The occurrence of typhoid in a disease of  
infectious form, which is more inflammatory, and often



it is always preceded by a chill. It cannot be said to be inflammatory when produced by heat alone, One cause which I have neglected to mention, is the introduction of putrid vegetable food into the stomach, this will almost invariably produce it. We sometimes have Dysentery in the winter, but it is produced from confinement, filth, and putrid aliment taken into the stomach.

This disease is most difficult to treat when it is accompanied with great prostration: We do not find generally as much prostration in white persons, as in negroes, although we have more fever accompanying the disease in the former. It has by many been considered a contagious disease, but I believe the arguments which have been advanced in support of this opinion, have been founded upon incorrect data. It is said that in some constitutions it has lasted for fifteen or sixteen years, but when it continues as long as this it must be owing to a chronic inflammation of the liver. This disease has received many names, by some it is called the bloody flux, or the flux; by others, morbus mucosus; again Dysenteria alba &c. It frequently alternates with other diseases, Rheumatism, Ophthalmia,



It is a common prejudice by which it cannot be said to be  
inflammation when produced by heat alone, but rather when  
there is a local heat in the vessel, in the vessel election of heat  
is not to be put into the vessel, this will also be  
the case. The inflammation here is not in the vessel, but  
the product from inflammation, heat, and heat etc.  
The inflammation is not sufficient to be treated with it is accompanied  
with great heat. The heat is not generally as much  
inflammation in white fever, as in typhus, although the  
heat is more acute as compared to the heat in the former.  
It has been many times considered a contagious disease, but  
the heat the symptoms which have been observed in the  
first of this species, have been found to be more  
acute. It is said that in some cases it has lasted  
for fifteen or sixteen years, but when it continues as long  
as this it must be owing to a chronic inflammation  
of the liver. The disease has been observed many times, by  
many in other the body, but not by others.  
The inflammation is again symptomatic of typhus, and  
the inflammation of the liver, the inflammation of the liver.



and it is sometimes, though rarely, followed by Palsy. —

## Post mortem Examination.

It appears that the true pathological character of Dysentery, was not well understood, until within the last fifty or twenty years, I believe it was the opinion of Richter that Dysentery was a rheumatic or catarrhal affection of the intestinal tube, and this same opinion was formerly entertained by many Pathologists; they contended that inflammation of the mucous membrane, was not primary but secondary, and that it was the result of the irritating action of fluids which they believed to be vitiated and stagnant in the alimentary canal; the bile, the intestinal mucus, and pancreatic secretion, being the fluids to which they alluded. Later inquiries have however shown, that an inflammatory condition of the mucous membrane of the large intestines, is invariably present, to a greater or less extent. —

It is sometimes the case that we can discover inflammation no where else, than in the colon and rectum, but more or less inflammation occupies the whole extent of the intestinal track, commencing from the duodenum and terminating in the







rectum. Whenever Dysentery terminates fatally in the early stage of the disease, the mucous membrane of the colon and rectum, will always present many red spots, or patches, and there will be found to be somewhat elevated above the level of the surrounding parts; sometimes we discover vesicles, but these will be most frequently seen in cases of children.

The mucous membrane of the stomach and intestines throughout will show marks of great inflammation, surface uneven, and sometimes rough granulations may be discovered. The liver is generally very much enlarged, and its whole structure apparently destroyed.

### Prognosis.

In the commencement, when the discharges are almost entirely of blood, the disease may be considered more tractable than when blood and mucous appear in combination.

It has been said, that a copious discharge of blood at the commencement of the disease is advantageous, by lessening the congestion in the portal vessels; when the stools are colliquative and foetid in the advanced state of the disease it is said, to be indicative of much danger, but the appearance of bile







and natural forces in the stools, indicate a very favourable change. When all tormina, tenesmus, pain, and tenderness of the abdomen abate, and when the skin is uniformly moist, we may then prognosticate favourable, and the more natural the appearance of the stools becomes, with more certainty, may we anticipate a favourable result. —

### Treatment.

It may be said, that there are four morbid conditions present in this disease, which are calculated to point out the general indications to be pursued in its management. —

(Namely)

- 1<sup>st</sup> — Inflammation of the mucous membrane of the alimentary canal, which is generally of a greater or less extent.
- 2<sup>d</sup> — Irritated vascular excitement.
- 3<sup>d</sup> — The entire cessation of cuticular transpiration, and.
- 4<sup>th</sup> — The disordered or entire suspension of the functions of the liver, According then to these ~~disordered~~ conditions, must we regulate our plan of treatment. —
- 1<sup>st</sup> — To moderate the action of the heart and arteries when it is excessive. —



and indeed faces in the field, in fact a very favourable  
change. When all things, however, pass, and in the end of  
the labour is done, as to take the field, is not only more  
the way than for any other purpose, but the more  
is the appearance of the good because, with more in fact,  
may be anticipated a favourable result.

THE METHOD.

It may be said, that there are four principal considerations  
in this case, which are not at all important and the general  
consideration to be put in the mind of the student.

(Method)

1. The number of the success members of the community  
is not, which is generally of a great size, of that  
which is more or less important.  
The number of members of the community, and  
the number of members of the community of the  
line, the number of the members of the community  
the number of the members of the community.  
The number of the members of the community  
is not, which is generally of a great size, of that  
which is more or less important.



2 To restore the regular action of the skin and liver. —

3 To relieve the local inflammation of the bowels. —

In establishing the relative importance and urgency of these indications, it must be observed, that the hepatic derangement, as well as the torpor of the cutaneous exhalents, are not always antecedent to the inflammation of the intestines, or to the febrile action; therefore it would seem reasonable to conclude, that the restoring these functions, in the commencement of the disease, (by purgatives) should not constitute a primary object, and I believe this will always be confirmed by experience, for in proportion as we subdue the general febrile excitement, and local intestinal inflammation, by equalising the circulation, and consequently lessening the quantity of blood in the bowels, in the same ratio will ~~will~~ relieve the hepatic derangement, as well as the torpor of the cutaneous exhalents. It appears then that a high arterial excitement is incompatible with the regular performance of these functions, and tends particularly to sustain the local interstitial inflammation. —

The first step in the treatment of the disease is to moderate the very great febrile excitement, by bloodletting, though



The first step in the treatment of the disease is to remove  
the very great febrile excitement, by bloodletting, though  
the first step in the treatment of the disease is to remove  
of these functions, and thus to restore to their  
not dependent in incommensurable but the superior performance  
of the nature of the disease. All appear that a light and  
to will we return the febrile excitement as well as the  
of the quantity of blood in the vessels, in the same  
inflammation by restoring the circulation, and removing  
and the great febrile excitement, and to restore the  
always been found by experience, for in practice, as in  
and in the commencement of the disease (in febrile cases) should  
reasons to be considered, that the restoring their functions  
into line, as to the febrile action; therefore it would seem  
and a large amount of the first four or five of the  
treatment, as well as the force of the nature on restoring  
the excitement, it must be observed, that the febrile ac-  
the exhibiting the relative importance and urgency of  
the nature of the first inflammation of the disease.



in many instances, the fever is so very moderate, as not to call for such depletory measures; when the disease prevails as an Epidemic, the fever is generally of a Typhoid grade, and then the abstraction of blood be wholly inadmissible. Whenever the pulse is quick, tense, firm, and frequent, blood should certainly be drawn, but blood letting ought to be considered only in the light of a useful auxiliary, and as applicable principally to the early stage of the disease. I believe the hotter the climate is, the more inflammatory will the disease be, and the more impetuous in its attack; and here very prompt and copious blood letting may be considered the only means, by which to check its violence, and prevent its rapid termination in disorganization of the liver and bowels. It may sometimes be necessary in the inflammatory form to take, thirty, or sixty ounces of blood, as was practiced by Dr. Halloran in the Dysentery which prevailed at Gibraltar in 1824. Dr. Armstrong also recommends that blood should be taken in the inflammatory stage, but it is equally true that in ordinary cases of this disease, or such as we have in temperate latitudes, it may be very frequently and properly dispensed







with. When the fever is of a high grade one or two bleedings in the beginning of the disease, will be sufficient to moderate the tormina, and fixed abdominal pain, and thereby favour the beneficial operation of purgatives which are indispensable to the cure.

The form of Dysentery which usually occurs in summer can frequently be cured by, a dose of castor oil, a dose of calomel and the like, but that which occurs in autumn is generally of a more inflammatory form; and of course will require a more vigorous treatment, besides the indication of bloodletting as mentioned above, the long continued use of cathartic medicines is usually required, especially heavy doses of Calomel. In some cases of this disease it is with very great difficulty that an evacuation can be procured, and hence it has been necessary to administer as much as one hundred grains of calomel. The matters deposited in the alimentary canal in Dysentery, appear to be highly acrid and irritating, and therefore cannot fail to increase the violence of the disease and sufferings of the patient, when suffered to remain in the bowels; they should be evacuated therefore







from time to time by mild laxatives, throughout the whole course of the disease. As the object is merely to relieve the intestines from this morbid secretion in this disease, those medicines which are less calculated to irritate, ought to be preferred, such as caster oil and calomel. a dose of calomel should be given as soon after the disease has commenced as possible, and followed after the lapse of three or four hours, by an ounce of caster oil; It may be necessary in some cases where the pain is very great to administer Opium, but this medicine should be dispersed with, whenever it is possible to do so. —

In some instances the irritability of the bowels is so great, that the mildest laxatives occasion much griping and spasmodic contractions of the intestinal tube, and here it may be necessary to administer Opium, for it cannot be considered then to impede the operation of laxatives, as it often contributes to their aperient effects, rendering their discharges foeculent, copious, and less painful. Emetics. May be considered valuable in this disease, especially where it has originated from some indigestible article taken into the stomach: they are said also to be valuable particularly where the tongue is coated with a brown fur along its centre, and when







much nausea and bilious vomiting occur in the beginning of the disease. The usefulness of this class of remedies is in a great measure restricted to the early part of the disease, and it is probable that the beneficial effects of emetics in this disease, is dependent upon their mechanical operation, by the concussion which the liver and abdominal viscera must receive by the act of vomiting, thereby promoting the activity of the hepatic function; and at the same time determining the circulation to the skin. —

Diaphoretics are always valuable in Dysentery, by keeping up a gentle perspiration. They may also be administered with purgatives, with mucilaginous drinks, &c. The warm bath has been highly recommended in this disease (particularly in the Typhous type.) The administration of wine and other tonics, is necessary. When the disease is produced by a violent of a putrid nature, the patients diet must be changed, when perhaps he will recover without the use of medicine. Anodyne and emollient enemata are almost always highly useful means in the treatment, both of the acute and chronic Dysentery, but more particularly in the Dysenteric affections of infants and children. The injections may be compared as







the infusion of flax seed, of slipery elm, or a liquid preparation of storch, with a full dose of laudanum, should be administered, about two or three times a day, in fact injections of this kind, even without the anodyne, very rarely fail to relieve for a time, the very distressing tormina, and tenesmus, and predispose the bowels to more free evacuations, from the operation of purgatives. —

It will be advisable during the whole course of the disease, that mucilaginous drinks, such as flax seed tea, solutions of gum arabic, infusions of slipery elm, barley water, or thin preparations of arrowroot, &c. should be freely given. Every kind of solid food must be avoided, during the convalescence from this disease, great caution should be used to avoid every kind of indigestible and irritating food, some of the milder vegetable tonic-astringents may be used. A weak infusion of the dog wood bark, or of Cusparia with nitric acid, may be considered excellent articles for this purpose. Barley, Oat meal gruel, Rice, and boiled milk, &c. are the best articles of diet after the subsidence of this disease.

J. J.



the infusion of fat and of ether oil, or a spirit of fat  
of oil, with a full dose of fat oil, should  
be administered about two or three times a day, in fast days  
of the kind, even until the anxiety, very early  
of it is relieved, for a time, the very oil of fat oil, is the best  
remedy, and for the purpose of the oil of fat oil is the best  
from the operation of fat oil is the best.  
It will be advantageous during the whole course of the disease  
that most opinion is held, and as far as the oil of fat oil is the best  
of any kind, infusion of ether oil, being the best  
or the best preparation of an anodyne, &c. should be used  
given. Every kind of oil of fat oil is the best to be used, and  
any the oil of fat oil is the best to be used, great caution  
should be used to avoid every kind of irritation  
and exciting power, because of the irritation is the best  
to avoid every kind of irritation is the best to be used. The best infusion of the  
oil is the best to be used, or of any kind of oil is the best to be used, and as far as the oil of fat oil is the best  
considered excellent articles for the purpose. But the oil of fat oil is the best  
of any kind, and as far as the oil of fat oil is the best to be used, and as far as the oil of fat oil is the best  
of any kind, and as far as the oil of fat oil is the best to be used, and as far as the oil of fat oil is the best

23



The Surgical Department

of the University of Michigan

presented to the University of Michigan

Trustees and Faculty of the

Medical Faculty of

the University of Michigan

for examination for the Degree

of Doctor of Medicine

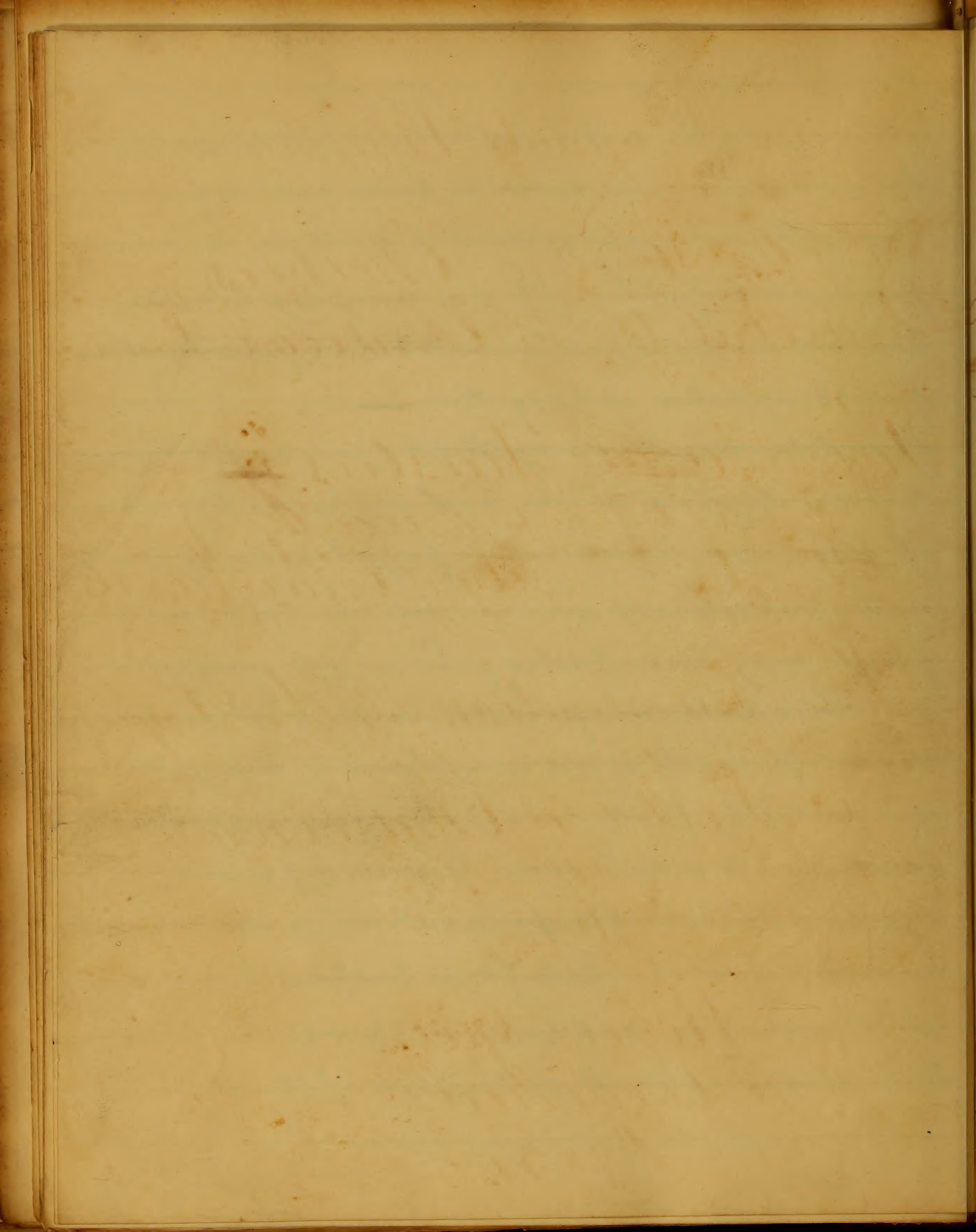
by

Robert Galt

of Virginia

1854







An Inaugural Dissertation

On Cholera Morbus,  
Submitted to the <sup>examination of the</sup> ~~Medical Faculty~~

Provost, ~~and~~ <sup>my</sup> Trustees ~~of~~ and  
<sup>my</sup> Medical Faculty of  
The University of Maryland

~~For examination for the Degree~~

of Doctor of Medicine

by

Robert Gale  
of Virginia.  
1831.



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To Nathaniel Potter M.D. Professor of the  
Theory and Practice of Medicine in the  
University of Maryland. whose talents, ac-  
quirements, Research, and Skill render him  
competent to impart to his class that which  
is of more value than silver, or gold, this dis-  
sertation is Respectfully dedicated by  
the Author.



The following letter, Mr. [Name],  
[Name] and [Name] of [Location] in the  
[Name] of [Name] and [Name] [Name] in  
[Name] [Name] [Name] [Name] [Name] in  
[Name] [Name] [Name] [Name] [Name] which  
[Name] [Name] [Name] [Name] [Name] [Name]  
[Name] [Name] [Name] [Name] [Name] [Name]  
[Name] [Name] [Name] [Name] [Name] [Name]



# Cholera Morbus.

From *Xoia bilis* and *creo plus* a glow of bile both upwards and downwards. It is one of those diseases which terminate in twelve or eighteen hours, and sometimes less when violent, and at other times, when not so violent lasting for several days.

It is a disease which is apt to terminate fatal if its progress be not arrested, by the most fearless and energetic practice.

Causes. In warm climates this disease is most common occurring at all seasons of the year, but in cold climates it occurs most frequent ly, in autumn when the heat is excessive, and the violence of the disease depends very much upon the intensity of the heat, yet we may have the disease very violent from articles taken into



Abstract, October

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... of the ...  
... from ...



2.  
The stomach. These circumstances induce us  
to believe that heat is most frequently the pre-  
disposing cause of this disease, both in warm and  
Cold climates; producing a change upon the bile  
which renders it more acrid, or causes it to be  
secreted in a preternatural quantity; for the  
disease appears to be nothing more than a  
secretion of vitiated bile, from an accumulation  
of blood in the liver. Unripe fruits taken in  
large quantities into the stomach, long exposure  
to the direct rays of the sun, fresh fish, oysters  
eaten after having been long kept, sugar, wild  
sallad, ale, beer, porter, punch, accephant wines, tan-  
cid butter, tainted meat, crabs, a mixture of  
different aliments; if you dine on fresh fish,  
and then drink milk you will have the dis-  
ease, either in winter or summer, because  
the secretions off, of which they subsist appears







to be putrefied. Symptoms. This disease generally  
 comes on between midnight and morning, with  
 nausea and purging, souness, pain ~~in~~ and sometimes  
 flatulency in the stomach, the bowels are also  
 affected with very acute pains, succeeded by a  
 desperate vomiting and purging of bile, there  
 is a weak frequent and fluttering pulse, heat and  
 thirst excessive, and the Respiration hurried.  
 If the disease is not violent, these symptoms may  
 continue for a day or two, and the patient recover  
 without the use of medicine, but he is left in a  
 very debilitated & exhausted state. But if to those  
 symptoms be added spasmodic contractions of  
 the abdominal muscles, great depression of  
 strength, cold clammy sweats, cramps in the  
 legs, and cold extremities, with hiccups weak  
 and irregular pulse, the patient must inevita-  
 bly die in a short time, if he be not promptly



The following symptoms are the usual accompaniments of the disease in the throat, and are attended with a sense of heat, dryness, and itching in the throat, and a difficulty in swallowing, and a hoarseness of voice, and a swelling of the throat, and a redness of the throat, and a pain in the throat, and a sore throat, and a difficulty in breathing, and a difficulty in speaking, and a difficulty in hearing, and a difficulty in seeing, and a difficulty in smelling, and a difficulty in tasting, and a difficulty in feeling, and a difficulty in thinking, and a difficulty in acting, and a difficulty in living, and a difficulty in dying.



elieved from this desperate situation; which  
don't hesitate to assert, can always be done ~~by~~  
Opium if administered in proper doses.

The disease which has lately been observed in  
India & which is now prevailing in Russia,  
appears to differ <sup>from the</sup> form in which it prevails in the  
United States. In the Eastern variety it sometimes  
begins suddenly, at other times after two or three  
days previous illness, characterized by a pulse  
scarcely to be felt, with a purging of thin watery  
 stools, and all the symptoms which mark the  
worst form of the disease in the United States  
these symptoms characterize the first stage, which  
lasts sometimes twenty four hours, when reac-  
tion <sup>comes</sup> ~~comes~~ on. This is supposed to be the most  
dangorous crisis of the disease, during this time  
there is a quantity of vitiated bile thrown  
off from the bowels of a dark & pitchy colour



... from the separate attention which  
... can always be done  
... of administration in proper cases  
... which has lately been observed in  
... which is more frequently in  
... from the ...  
... On the former variety of ...  
... at other times after two or three  
... Characterized by a ...  
... a purging of the ...  
... the symptoms which mark the  
... of the disease in the ...  
... the ...  
... twenty four hours, when ...  
... is reported to be the ...  
... of the disease, during the ...  
... of water to kill the ...  
... of the ...



It sometimes proves fatal in a few hours, the pulse sinks and all the secretions are suspended, the blood being drawn by the contraction of the vessels, upon the deeper organs.

Diagnosis. The disease is to be distinguished from dysentery, and Diarrhoea by the discharges. In Cholera the matter discharged is pure bile, unmixed with either blood or mucous, and some times scarcely with faeces. There is a considerable quantity of bile thrown off in Colica Pictonum, which might be mistaken for Cholera, but this disease can also be distinguished by the evacuations. In Colica Pictonum notwithstanding the quantity of bile thrown off by vomiting, the bowels are obstinately Costive. Prognosis. If the evacuations upwards and downwards are accompanied by cold clammy sweats cold extremities



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a weak, and intermittent pulse, great disten-  
 tion of the abdomen, hiccup, spasm and con-  
 vulsions, with great prostration of strength, and  
 a shrunk Hypocritic face, these are signs which  
 betoken great danger. But when the symptoms  
 gradually abate, especially the vomiting, suc-  
 ceeded by a disposition to sleep, with a moist  
 surface, the pulse and appearance becoming  
 natural, we may infer that the patient  
 may recover.

Appearances on dissection. There will generally  
 be found an accumulation of bile in the stom-  
 ach and duodenum, the biliary ducts and  
 ductus cholidochus, are found relaxed, and  
 preternaturally distended, some of the viscera ap-  
 pear to have been removed, perhaps by violent ~~strain~~  
 straining in the act of vomiting. In the eastern  
 variety of this disease, when the patient







As died during the first stage, the appearances on dissection were those of great congestion in the branches of the Vein Porta, the Liver enlarged and gorged with blood, the gall bladder distended, with dark green coloured or black bile; a greenish dark coloured fluid in the Stomach, which also appeared <sup>to have been</sup> ~~to be~~ in a state of inflammation, with dark spots on its internal Surface, the blood vessels of those viscera being unnaturally distended with blood, the pyloric orifice of the stomach hard and tumefied, the intestines containing a fluid like pus, sometimes resembling tar. At other times the intestines are found without disease, and the brain found affected, especially when the case has terminated suddenly.

Treatment. Nosack's mode of treating this disease is by the lancet, if the patient be of a strong and







8.  
plethoric habit, if he be called before great  
ibility has taken place, he informs us that  
this practice has succeeded in his hands, when  
Rhubarb, Magnesia, Emetics &c had failed.  
We have no doubt but the patient's constitu-  
tion must have been extraordinary if he  
was able to bear the lancet after the above ar-  
ticles had been taken; for we believe that  
emetics are deleterious in this disease, instead  
of being a benefit; And we have no doubt if  
patients are treated with large doses of Tinc:  
Opii that there will never be any necessity for  
bleeding, Emetics or Magnesia. Emetics & cal-  
omel should never be given in this disease, an  
object is to stop the secretion of the liver, and  
if we give calomel we defeat our own designs,  
and consequently aggravate the symptoms.  
Warm drinks, and various teas have been extolled in this







disease, but we place no confidence in them, our sheet an-  
 chor is opium, Professor Potter's practice is to give 100 drops  
 of the Tincture at the first dose, and Repeat it every Hour  
 untill the symptoms abate, using at the same time brandy,  
 and water as a stimulant; it is best, because the thirst cannot  
 be abated by water. In extreme cases he has given 300 drops  
 of the Tincture: first & repeated every Hour with success; the  
 gentleman who recovered under this treatment, is now  
 living in Baltimore. Opium has cured the disease when  
 the patient was in cold sweats, and no pulse could be  
 perceived, There is also some advantage to be derived  
 from friction with hot brandy & water; injections of laud-  
 annum has been used with success in this disease, when  
 the medicine is thrown off the stomach. During conva-  
 lesence, the patient should keep his bowels open, avoid  
 all the exciting causes, use Tonics to prevent a recurrence  
 of the disease, the diet should be light, and digestible, &  
 taken in small quantities, The patient should wear







channel meet the skin, and excrees in the open air as  
 much as possible, if he can do so with safety,  
 the practice pursued by Professor Potter has been also per-  
 sued by Dr. Clark of Dominica, who has had great  
 success in the treatment of this dreadful disease.  
 His gentlemen I have endeavoured to lay before you,  
~~not~~ the practice pursued by our forefathers, from Hippoc-  
 rates to the present day, but I have laid down that  
 practice, which appears the most rational, and which  
 has been successful in the hands of the most  
 skillful, & scientific Physicians of the present day.



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An Inaugural Essay  
on  
Cynanche Trachealis

Submitted to the Judgement

of  
The Provost, Trustees and medical Faculty  
of  
The University of Maryland

For the degree of Doctor of Medicine.

By

Benjamin I. Du-Val

of

Richmond

Virginia

March 10<sup>th</sup> 1831



The Imperial Essay

on

Spontaneous Generation

Submitted to the Judgment

of the Privy Council, Masters and Medical Faculty

of the University of Maryland

for the Degree of Doctor of Medicine

By

Benjamin D. V. Talbot

of

Richmond

Virginia

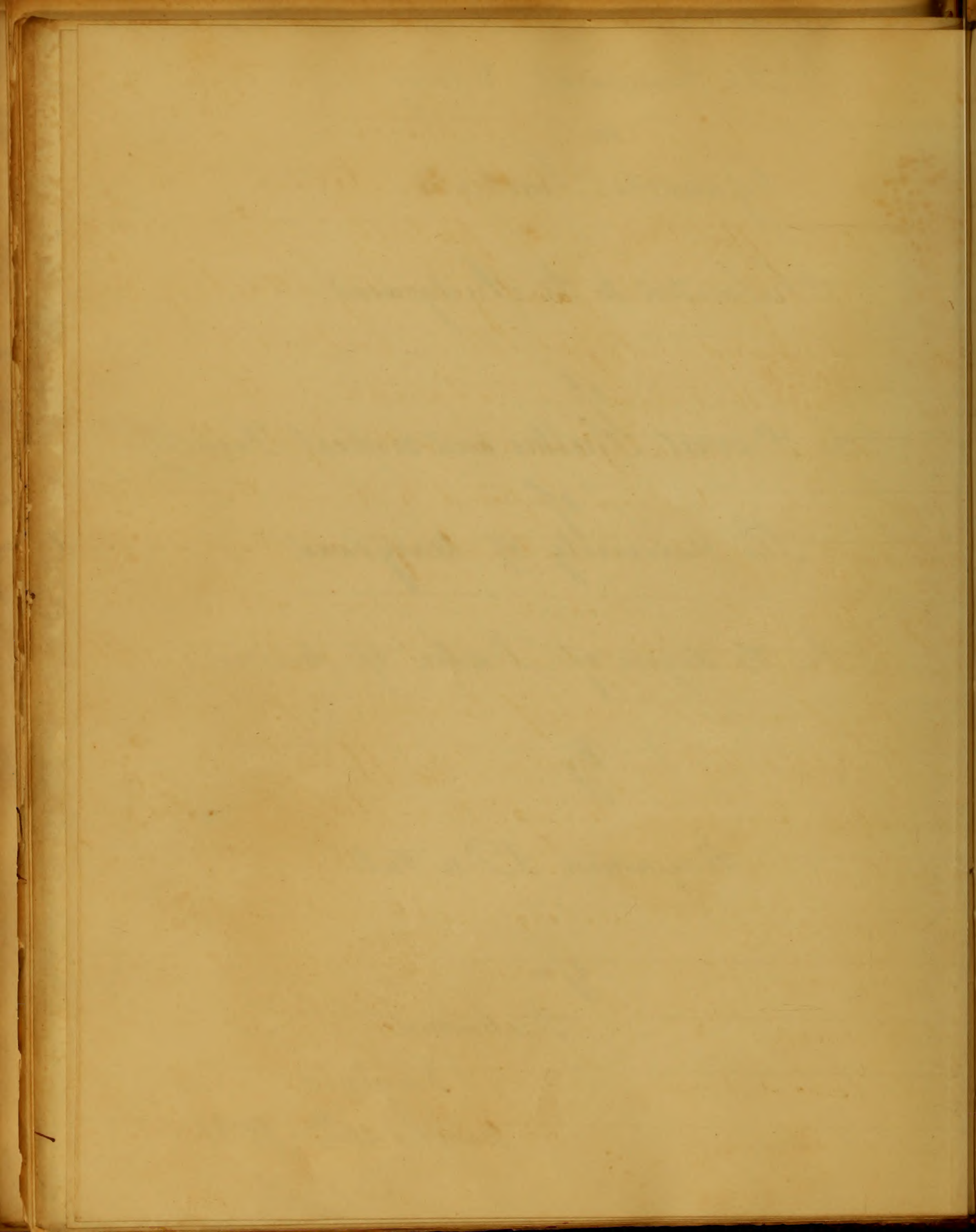
March 10<sup>th</sup> 1791



*Cyanotic Asphyxia*

An acute disease chiefly in children from a short time after birth until puberty, attacking more particularly females, and generally attacking the most robust and sturdy children, and rarely occurring upon those that have been exhausted by other diseases. The disease generally comes on in the night after the little patient has been exposed to the weather during the day and after a catarrh of some days standing. Various to the attack, the eyes become brown and a gleam is cast over the patient, which causes him to forget his play fellows and seems as if he were anticipating his danger. But these symptoms are not sufficient to prevent the patient from going to sleep. He awakes with unusual cough and the respirations participate those which usually follow the cough are long and attended with the expiring noise which is the most remarkable circumstance of the disease. Tremulous symptoms succeed and often are high pulse is frequent and hard, accompanied with thirst and restlessness. The face is flushed & swollen, and the







## Cynanche Trachealis

This disease prevails chiefly in children from a short time after birth untill puberty, attacking itself to particular families, and generally attacking the most robust and ruddy children, and rarely seize upon those that have been exhausted by other diseases. This disease generally comes on in the night after the little patient has been exposed to the weather during the day and after a catarrh of some days standing. Previous to the attack, the voice becomes hoarse and a gloom is cast over the patient, which causes him to forsake his playfellows and seems as if he was anticipating his danger. But these symptoms are not sufficient to prevent the patient from going to sleep. He awakes with an unusual cough, and the inspirations particular those which immediately follow the cough are long and attended with that crowing noise which is the most remarkable characteristic of the disease. Feverish symptoms succeed and often run high. Pulse is frequent and hard accompanied with thirst and restlessness. His face is flushed & swollen, and his



Spasms of the chest

The disease usually chiefly in children from a  
short time after birth until puberty, attacking  
in particular families, and generally attacking the  
most robust and healthy children, and rarely seen  
after those that have been exhausted by other diseases  
This disease generally comes on in the night after the  
little patient has been exposed to the weather during  
the day and after a catarrh of some days stand-  
ing. Previous to the attack, the voice becomes hoarse and a  
grimace is cast over the patient, which carries him to work  
his sleep follows and seems as if he was not sleeping his  
danger. But these symptoms are not sufficient to prevent  
the patient from going to sleep. The attacks with an unusual  
cough and the respirations particular those which increase  
after follow the cough and are attended with that  
strangeness which is the most remarkable characteristic  
of the disease. Towards the morning success and after some  
light. There is frequent and hard, accompanied with distress  
and restlessness. The face is flushed & swollen, and the



eyes are unusually red and he seems in constant danger of suffocation. His skin burns and he labours more and more in breathing; still the wheezing noise with the usual cough is heard. He tries in vain to relieve himself by change of posture, but finds no relief from it, and generally his sufferings are protracted untill morning when perhaps there is a little remission, his breathing is a little easier, but the anxiety, fever and cough remain. He soon grows as ill as ever; and these symptoms continuing, weakened by the violence of his illness, with a purple lip and pallid countenance he breaths his last after one or two days illness. In other cases the disease after continuing for some time appears suddenly to give way, the breathing is free the child becomes cheerful, his appetite returns and every symptom of the disease appears to have yielded and the patient appears to enjoy himself and seems perfectly recovered and the hope of his parents are raised only to make the disappointment greater. For suddenly the child grows worse with his livid and swollen face and convulsive struggles giving him the appearance of one that is strangled. When Croup is favourable it terminates in various ways; the most common termination is a gradual retrogression of the symptoms after the disease has



This was necessarily left with the room in constant danger of  
suffocation. His skin became and he labored with and more  
in the morning; still the sitting was with the usual cough  
breath. He was however a while himself by change of posture  
but found himself from it, and generally his sufferings  
decreased until we were when perhaps there is a little  
relief. His breathing is a little easier, but the necessity for  
and cough remain. He soon grows as ill as ever; and these symptoms  
decrease continuing, increased by the violence of his cough. With  
a week he had a little cough again he breathes his last  
after one or two days sleep. In other cases the disease often continues  
many of some time appears suddenly to give way, the breathing  
is free the child becomes cheerful, he affects the return and  
some repetition of the disease appears to have yielded with the  
disease appears to enjoy himself and some perfectly recovered  
and the hope of his parents are raised only to make the child  
sufficiently patient. In such cases the child grows more with his  
kind and cheerful face and conversation though giving him the  
appearance of one that is changed. When death is imminent  
it terminates in a rapid way; the most common termination  
is a gradual expiration of the spirit after the disease has



arrived at its maximum height. There is poured out a moisture on the  
 skin, the fever declines, and the croupiness and lastly the cough at  
 length wears away. When venesection is used upon the commencement  
 of the symptoms, the relief is sudden very frequently; and the patient  
 after bloodletting breathes with ease who ten minutes before lay gasping  
 and convulsed. Sometimes after the child has been ill for two or three days  
 he is relieved of the symptoms by expectorating a thick white substance.  
 This however does not always happen; for there are instances recorded  
 in which the membrane has been rejected completely formed and  
 yet the child died. This ~~secretion~~ membrane is a secretion from inflamed  
 vessels and presents all the varieties from the smallest deviation  
 from health to the secreting process perfectly formed in inflammation.  
 In some cases the condition of the vessels seem to be incompatible with  
 secretion in such cases you will always find by dissection the  
 vessels injected with red blood only. The secretion of a more com-  
 pact form, to which the appellation membrane has been applied,  
 seems to be the fibrine of the blood semi-organized, such as we  
 find when adhesions are formed in any membranous parts.  
 This body is found <sup>in the bronchia but</sup> not only throughout the extended ramifications  
 of the bronchia. If we macerate this membrane found in the Trachea  
 in water and thus separate the internal softer parts from the more







compact, we find it to consist of numerous rectangular  
 fibres, lamella completely identified with the fibrine of the blood  
 collected by stirring it while flowing from a vein with a rough  
 body, the red globules being washed off. Chemically treated they  
 correspond, unless we say that the membranous matter imparts rather  
 the characteristic of albumen, but fibrine and albumen  
 are so nearly allied that it is impossible to say in what the  
 difference consists. Croup sometimes becomes chronic and does  
 not subside for weeks. when the restitution is gradual the patient  
 now and then coughs up portions of this white membrane  
 when in the urgency of the attack, the fauces and neck are  
 examined with a view to investigate the cause of these symptoms.  
 even when a sense of heat is complained of in the throat; the tonsils  
 are not swollen and but little inflamed. In some instances there  
 is a fulness to be discovered in the swell of the neck, but this is  
 by no means characteristic of the disease. It is a fact well  
 known that the first attack most generally establishes a predis-  
 position to the disease. And it has been the observation of every  
 practitioner who has had much of this disease to contend with  
 that much slighter causes are required to produce it a second  
 time than was required to produce the first attack. may that







external cold and wet without any specific state of the atm<sup>osphere</sup> will bring on a recurrence of the disease. It is a confirmation of this that those who have had the croup, when they are affected with catarrhal affections have more or less of the cough of croup untill they arrive at the age of puberty.

Appearances on Dissection. Examination of those who die of croup has made us acquainted with a very peculiar morbid appearance of the Trachea. viz an adventitious membrane as some term it which as I have already observed is nothing more than the fibrine of the blood thrown out by the inflamed vessels of the Trachea and in a great measure blocks up the passage. It arises a little below the Larynx, and extends, in many instances to the bifurcation of the Trachea. Semi-purulent fluid is commonly found in the Trachea at the same time, and occasionally traces are also met with of pulmonary inflammation. Frequent as is the appearance of such a preternatural membrane in those who die of croup, it is by no means to be considered as a constant or necessary part of the disease. Its formation is often indicated by the manner in which the child breathes - throwing his head back, so as to put the Trachea on the stretch.

Croup has been considered by some Pathologists a contagious disease but it is evident it is no more contagious than Rheumatism or Pneumonia







One plain and simple fact plainly shows that it is not a contagious disease, for it is a law in all contagious diseases that the predisposition should be destroyed by the first attack, but in this disease Croup the first attack always establishes a predisposition and leaves the patient much more liable to a recurrence of the disease & from much slighter causes than was originally required to produce the disease. But it is sometimes here dietary. It is often found ~~in~~ hereditary predisposition as Gout Phthisis &c. and this proclivity to Tracheitis does not always depend upon a scrofulous diathesis. This has been one of the sources of error, because several children in the same family are affected at the same time they are supposed to have contracted it by contagion. The inflammation sometimes extends from the lining of the trachea to the muscles surrounding the glottis and in some instances it commences in these muscles and run downwards, but the situation and the office of these muscles is such that they never can close the glottis or passage in the windpipe when these muscles are in a state of inflammation an irritating cause acts upon these muscles great pain and tension are excited, but they are so completely antagonized that they cannot close the passage. The sonorous cough in croup is occasioned by the rigidity of the inflamed <sup>muscles</sup> ~~membranes~~

In such cases the voice is much louder & more shrill than in health.

Causes. The most usual exciting cause of Croup is cold



The disease was thought to be contagious  
because for it is a form of the same disease that the  
disease is thought of the first attack, but in the disease  
first attack always exhibits a particular kind of  
and it is able to be transmitted of the disease & from  
cases there was no other way in which it was  
transmitted to others. It is often transmitted by  
in fact it is so, and this according to Jackson's view  
is not a contagious disease. This has been one of the  
and because several children in the same family are  
and they are supposed to have contracted it by  
the disease is not from the lining of the throat to the  
transmitting the disease and in some instances it  
and some have been seen but the disease and the  
is not that they have seen the disease or hope in  
the disease is in a state of inflammation and  
open throat and the great pain and the  
might be thought that they cannot close the  
disease is not a contagious disease of the  
disease is not a contagious disease of the  
disease is not a contagious disease of the



7

and particular in a damp atmosphere. It prevails chiefly in winter and Spring, and is more common in the cold and temperate climates than in the Tropics. It is asserted by some authors that croup never attacks after the age of puberty, but this assertion is far from being true for croup attacks persons of every age as an instance of it our illustrious, good and distinguished benefactor Georg Washington died of this disease, (Tracheitis) of which there can be no doubt.

Children of all ages die of Croup from a few weeks of age to puberty and yet a boy of twelve years of age has as perfectly as ever he can or will have the power of expectoration, to account for this, some have imagined it to depend on the change which takes place in the constitution of the boy at the age of puberty and perhaps in a more peculiar manner on the change which the upper part of the wind pipe undergoes. That a very material alteration does take place is evident from the change in the voice which now becomes firm and manly.

I therefore suppose that the greater <sup>degree of</sup> tone with which the Trachea is endowed enables it to resist those excitements which would have operated on the same organs in a less perfect state. Hence it may be inferred that I consider debility of the Trachea as the predisposing cause to croup. The obvious exciting cause of croup, the inflamed Trachea, the throbbing and vehement pulse, the great thirst, burning skin, and



... particular use a large quantity of ...  
... and being ... in the ... and ...  
... in the ... It is ... by ...  
... after the age of ... but the ...  
... for ... of every age as an ...  
... of ... and ...  
... of the ... of which there can be no ...  
... of all ages ... from a few weeks of age ...  
... a ... of ... years of age ...  
... the ... of ... to account for the ...  
... it to ... or the change which takes place in the  
... of the ... of ... and ... in ...  
... on the change which the ... takes place in ...  
... that a ... after a ... takes place in ...  
... on the change in the ... from ...  
... therefore ... that the ... which the ... is ...  
... it is ... or ... which would ...  
... in a ... there it may be ...  
... of the ... as the ...  
... of ... the ...  
... and ... the ...



and high coloured wine together with pain in the diseased organ point out that it legitimately belongs to the order of inflammation; an order of disease of which the general treatment is peculiarly applicable to the disease under review. With a view to the formation of a

plan of cure it is proper to consider the disease under question as consisting of two stages, viz. the incomplete or inflammatory and the complete or purulent. In the former the membrane is not as yet formed, in the latter it is fully formed. It is in the first stage that every effort that can be made should be rigidly enforced for the relief of the patient

In the first stage our practice is as bold as it is simple and unless the summary measures are taken <sup>in the beginning</sup> succeeds our success let the management be ever so skillful afterwards is very problematical

Treatment. During the first stage of Tracheitis our chief reliance should be placed on Venesection, Emetics & Calomel &c In the first place as regards bloodletting. It being our intention to subdue the local & general inflammatory action as speedily as possible and for the fulfilment of this intention, the most prompt & energetic antiphlogistic measures must be adopted. The remedy upon which we must place our principal reliance, for the reduction of the Tracheal inflammation is bloodletting. Here, however as in most other phlegmasial diseases, the good effects of the lancet are







confined to the early period of the disease. When called to a patient labour-  
-ing under this disease, in whom the manifestations of high febrile excitement  
and active tracheal inflammation are conspicuous, a vein should be opened  
and the blood suffered to flow until an approach to syncope be induced.  
So soon as this effect is produced, all the distressing symptoms subside. But  
should there be a recurrence in an hour or two with difficult respiration  
and the pulse be not soft and feeble, more blood should be drawn, and again  
to the extent of inducing syncope. Sometimes we are under the necessity of  
opening a vein three or four times in the course of 12 hours before a perma-  
nent and decisive impression was produced on the disease. Such copious  
depletion is, however, demanded only in cases where the local and general inflam-  
-mation is strong - where the pulse is tense, hard, quick and vigorous, attended with  
a dry and sonorous cough and respiration. Such cases are apt to terminate in  
the formation of a false membrane in the Larynx; and our efforts ought  
to be prompt & vigorous to reduce the inflammation <sup>below</sup> the grade necessary for  
the formation of pseudo-membranous matter. For the quick reduction of this  
local and general inflammation, the opening of the Laryngeal artery has been  
proposed <sup>by Dr. Potter</sup> ~~but do not think~~ so as to make a decisive impression at once on the  
diseased organ by cutting off the supply of blood to the part. After the effusion  
which gives rise to the membrane has taken place, bleeding will afford but  
moderate & temporary advantage. It must also be observed, that where the







disease is attended with but moderate symptoms of febrile excitement; where the pulse is not hard or tense, though accelerated; and especially where, in addition to these manifestations of a moderate febrile excitement, the cough and respiration are attended, early, with a copious, transparent and viscid mucous, bloodletting need very seldom employed to the extent just mentioned, and may in some instances be wholly dispensed with. **Emetics.** These are important remedies in this disease, and may indeed, be regarded as indispensable in its remediate management. In those cases which are early attended with a copious secretion of viscid mucous in the larynx and trachea, emetics are especially useful. They tend not only to expel this tough mucous from the larynx; but to equalize the circulation and to promote the cutaneous exhalation, as well as to diminish the general arterial excitement by the nausea which precedes & accompanies their action. In infants affected with this disease, the occasional employment of an emetic is particularly important; for at this early age no voluntary efforts are made to dislodge and expell the viscid secretion from the larynx, and which, if not removed, may by itself cause suffocations. In violent cases of high inflammatory action, and in which the cough and respiration are dry during first stage, there is commonly but little advantage gained by the administration of an emetic, so long as this dryness of the larynx and trachea continues. In such cases







the proper period for the administration of Emetics commences with the appearance of the viscid secretions, which always sooner or later occur in the respiratory passages, and from which the disease derives most of its danger. Some benefit may result from the exhibition of Emetics before any morbid secretions occur in the Larynx from the general antiphlogistic tendency of nausea & vomiting; but the peculiar advantages of this class of remedies are most assuredly more conspicuously displayed when the upper portions of the windpipe are clogged with a viscid fluid, which requires expulsion. In the advanced periods of the disease, there exists often so much torpor or insensibility of the system in consequence of the imperfect decarbonization of the blood and vascular congestion in the brain, that great difficulty is experienced in procuring an operation from emetics. To obviate this gastric insensibility and procure emesis, we must endeavour to diminish the sanguineous congestion in the head, and this may in general be readily accomplished by putting the patients feet in warm water, and applying a napkin wet with very cold water, to the head. The abstraction of blood, too, while the patient is maintained in a sitting or erect posture, will rarely fail to produce emesis under the circumstances in question. The articles preferred as an emetic in this disease are calomel in combination with Tartarized Antimony,



The first part of the manuscript is a general introduction to the subject of the history of the English language. It discusses the various influences that have shaped the language over time, including the contributions of Old English, Middle English, and Modern English. The author also touches upon the role of literature and scholarship in the development of the language.

The second part of the manuscript is a detailed account of the history of the English language from the beginning of the 15th century to the present. It covers the evolution of the language's grammar, vocabulary, and pronunciation. The author also discusses the influence of other languages, such as French and Latin, on the English language.

The third part of the manuscript is a collection of examples of English language usage from various periods and contexts. These examples illustrate the changes in the language over time and provide a clear picture of the language's development. The examples include literary works, historical documents, and modern-day usage.

The fourth part of the manuscript is a conclusion that summarizes the main findings of the study. It emphasizes the importance of the English language in the world and the need for further research into its history and development. The author also offers some thoughts on the future of the language and the role of scholars in its study.



The following formula, Dr. Potter recommends as being preferable  
it is thus. vii. R Tart. ant. grs X

Calomel, grs XXX

Aqua Z ij. Add Gum arabic enough

to suspend the calomel & antimony. One, two or three teaspoonfuls  
of this mixture to be given every half hour, according to circumstances.  
This says Professor Potter hardly ever fails of producing copious  
Emesis acting at the same time as a brisk cathartic and with all determi-  
-ines to the surface. Calomel alone has been highly spoken of as an  
emetic in this disease given in doses of VIII or X grs it will excite  
a stive vomiting in a short time. The peculiar advantages which  
appear to belong to this practice are the protracted and the great  
degree of nausea which the calomel produces; an effect which has  
a powerful antiphlogistic tendency; and the alvine evacuations which  
almost always speedily ensue. Besides these effects, great benefit may  
be expected from the early constitutional influence of the calomel  
an influence which, in the present disease, especially, is very generally  
acknowledged to be highly salutary. Tart. ant. Speac. Sulph. Zinc  
& quills, Sul. Cupri have all been used and recommended in this disease  
and when the object is the mere expulsion of the tracheal mucus  
any of these articles may answer the purpose. The Lobelia inflata







in the form of an infusion has been used with the happiest result in a few instances, when there is an extraordinary secretion of the trachea. Emetics will frequently have no effect, and in this case we must resort to mercury to produce emesis. The use of Corrosive muriale of mercury in this disease has been by some considered hazardous, but experience always will determine in its favour under the circumstances to which its use should be restricted. It should be used only in that insensible state of the stomach which is so often to be observed, where the excited fluids impede the passage of air into the lungs; in these cases the sublimate affords a prompt, safe and efficacious emetic, and in the hands of a judicious Physician will often arrest the progress of the patient from the grave, even while it has entered the confines of eternity. This is one of Dr. Potters favorite emetics, and <sup>it</sup> is well known his success <sup>in the treatment of</sup> this disease is far superior that any other person either of Europe or America. His prescription in form of exhibiting it, <sup>are</sup> follows to wit: Bichloride of mercury ℥j  
 Aqua — ʒj  
 dissolve it, a tea spoonful of this to be given every 15 minutes till a complete emesis be produced. It often excites ~~some~~ <sup>some</sup> of the gums, but scarcely ever a profuse salivation. Purgatives, these are useful as an auxiliary means in the treatment of this disease. In the onset of the complaint the bowels should be briskly evacuated, and two or three evacuations



in the form of an infusion has been used with the happiest result in  
a few instances, when there is an extraordinary quantity of the  
Glands and frequently have no effect at all in this case or must need a  
very large quantity to produce a benefit. The use of various kinds of mercury in the  
disease has been of some use in some cases, but especially in  
most instances in its former state the cure is to be made in order to  
the state of the stomach. It should be used only in that on that  
state of the stomach which is so often to be observed, when the  
mercury is the proper of use in the disease; in these cases the  
a simple use and effect is to be made, and in the case of a  
the use of the mercury is to be made from the same  
it has not entered the system of mercury. This is one of the  
of mercury, and it will be found in the disease a few days  
any other kind of mercury is to be made. The prescription  
of mercury is as follows: <sup>and</sup> *Acetate of mercury* ʒij

*Acetate of mercury* ʒij  
ʒij

It is a description of the to be given, and it should be a  
to be made. It is to be made of the same, but it should  
a description of the disease. The prescription is as follows:  
in the treatment of this disease. In the case of the  
the same should be made, and it is to be made in the



17  
should be subsequently procured daily until the inflammation is subdued.  
After the first purge, which should be energetic, it is best to employ the gentler  
articles of this class of remedies; for every active catharsis tends to exhaust  
the resources of the system without procuring any peculiar advantage,  
over milder operients, and even do much harm. Mercury—Calomel  
given with a view to its constitutional effects is a remedy which has ~~been~~  
been, and by many is still much extolled in the treatment of this  
disease. The late Dr. Rush placed great reliance on its powers in this  
disease; for he asserts, that when given in large doses in the commence-  
ment of this disease, and continued afterwards in smaller doses, "is  
hardly less efficacious in this complaint than the Peruvian bark is in  
intermittents. Dr. Hofack also speaks very favourably of the employment  
of calomel. Doctor Potter also speaks of it as one of our remedies  
in which we should place the greatest reliance. He says the reason  
why it is not more used that it is prescribed in doses so insignificant  
that it is rather calculated to injure the reputation of the medicine than  
cure the patient. Every Physician who is much conversant with this  
disease, and has accurately weighed the merits of the means employed  
with a doubt, that if we were restricted to a single remedy we would  
take calomel, The constitutional influence of mercury is calculated to do  
good in croup we are all well persuaded. It tends in no small degree







to reduce the local laryngo-tracheal inflammation, and to counteract, as it would appear, the formation of the pseudo-membranous exudations.

Calomel has been used by Professor Potter & Dr. Haurleton in the quantity of one or two hundred grains in a single night with the greatest success indeed it scarcely ever fails of accomplishing every thing we can desire when used in sufficient doses. The apprehension of severe ptyalism deters many from employing this safe & efficacious remedy although it is almost <sup>of salvation</sup> groundless. Dr. Potter says, he only saw one case, out of several hundred cases in croup.

In the torpid state of the stomach it is beyond all other medicines effectual in accumulating the diminished excitability, which seems soon to pervade the whole sentient system. In large doses it does not act frequently as a cathartic; but finally very copiously, and in case of constipation an emesis gives vent to the contents of the stomach and intestines and completes the cure where the complaint assumes somewhat of a chronic character, we ought not to lose sight of this advantage which would be derived from this remedy; you may after the administration of an emetic give it in doses of one or two grains every hour or two with about one-fourth of a grain of Ipecacuanha. Warm bath is a very useful auxiliary in the treatment of this disease. It should be employed along with the remedies already mentioned when the skin is dry & hot; its usefulness is confined to the first stage; for in the advanced stage the skin is generally bathed with profuse



It is true that the law is not perfect, but it is better than  
nothing. The law is the foundation of the state, and it is  
the duty of the government to maintain it. The law is the  
basis of all our rights and liberties, and it is the duty of  
the government to protect them. The law is the foundation  
of our civilization, and it is the duty of the government to  
maintain it. The law is the basis of our justice, and it is  
the duty of the government to protect it. The law is the  
foundation of our order, and it is the duty of the government  
to maintain it. The law is the basis of our progress, and  
it is the duty of the government to protect it. The law is the  
foundation of our future, and it is the duty of the government  
to maintain it. The law is the basis of our hope, and it is  
the duty of the government to protect it. The law is the  
foundation of our faith, and it is the duty of the government  
to maintain it. The law is the basis of our love, and it is  
the duty of the government to protect it. The law is the  
foundation of our life, and it is the duty of the government  
to maintain it. The law is the basis of our death, and it is  
the duty of the government to protect it. The law is the  
foundation of our resurrection, and it is the duty of the  
government to maintain it. The law is the basis of our  
eternity, and it is the duty of the government to protect it.



16

Expiration and the pulse weak & soft. Blisters with the preceding  
remediate measures are often proper and useful. But the want of  
proper treatment in the commencement often renders them necessary. but  
Dr Gregory thinks the propriety of applying large blisters to the throat very  
questionable. for the irritation produced by the blister may extend to the  
inflamed membrane and produce an aggravation of its symptoms. Dr Eberle  
has advised the application of a piece of flannel imbued with turpentine  
and applied around the neck. *Polygala Senega*. This has been regarded  
as a specific; it is without doubt a useful medicine in some stages of  
the disease; but is far from possessing the powers which were formerly  
ascribed to it. It is objectionable in acute inflammatory cases; but after the  
complaint has <sup>been</sup> subdued in some degree or lost its acute inflammatory  
character, its influence is often conspicuously beneficial. For the  
removal of the dry & hoarse cough and slight oppression of the respiration  
which in some instances remain after the inflammation has been subdued  
we possess no remedy equal in usefulness to *Polygala senega*. It is useful  
in all chronic croupy affections and in catarrhal and pectoral affections  
which remain as the sequela of this and other acute affections of the respira-  
tory organs. It should be given in decoction. ℞  $\frac{j}{z}$  of the root to pint of  
boiling water suffered to simmer for 15 minutes and after wards sweetened  
with honey Dose  $\frac{j}{z}$  every hour or two hours according to symptoms.







17

With regard to Sulphuris, a remedy introduced to the notice of the  
profession by a french Physician but little can now be said in commenda-  
tion of its powers. Gum ammoniac, The Syrup of Onions, antimonial wine  
and Lau clamm Apafocdita are all <sup>valuable</sup> expectorants in the last  
stage of this disease. Tracheotomy. This operation is scarcely  
advisable in any disease; but in Croup it is altogether inadvisable  
for this simple reason; that the membrane which is the cause of  
death is found not only in trachea but extends throughout the ramifications  
of the Bronchia. The mere opening of the trachea would therefore be of  
no use; as the air passages would still be obstructed and besides it  
would act as an impediment to other remedies, which might be  
employed to the relief of the little sufferer.



It is not to be expected that a country which is so rich in the  
possessions of a great power, but still has not to be considered  
one of its friends. The spirit of these nations is  
with the same spirit as all the nations in the  
top of the ocean. The ocean is very  
a simple in any respect, but in fact it is a simple in a way.  
In this simple respect, that the mountains which is the cause of  
with a great and not in the air but in the mountains which is the cause of  
of the sea. The ocean is very simple in a way, but in fact it is a simple in a way.  
as the air is very simple, but in fact it is a simple in a way.  
should not be an impediment to other nations which might be  
conducted to the relief of the world's suffering.



Thyestes

in

Cyrene

Quae

est

in

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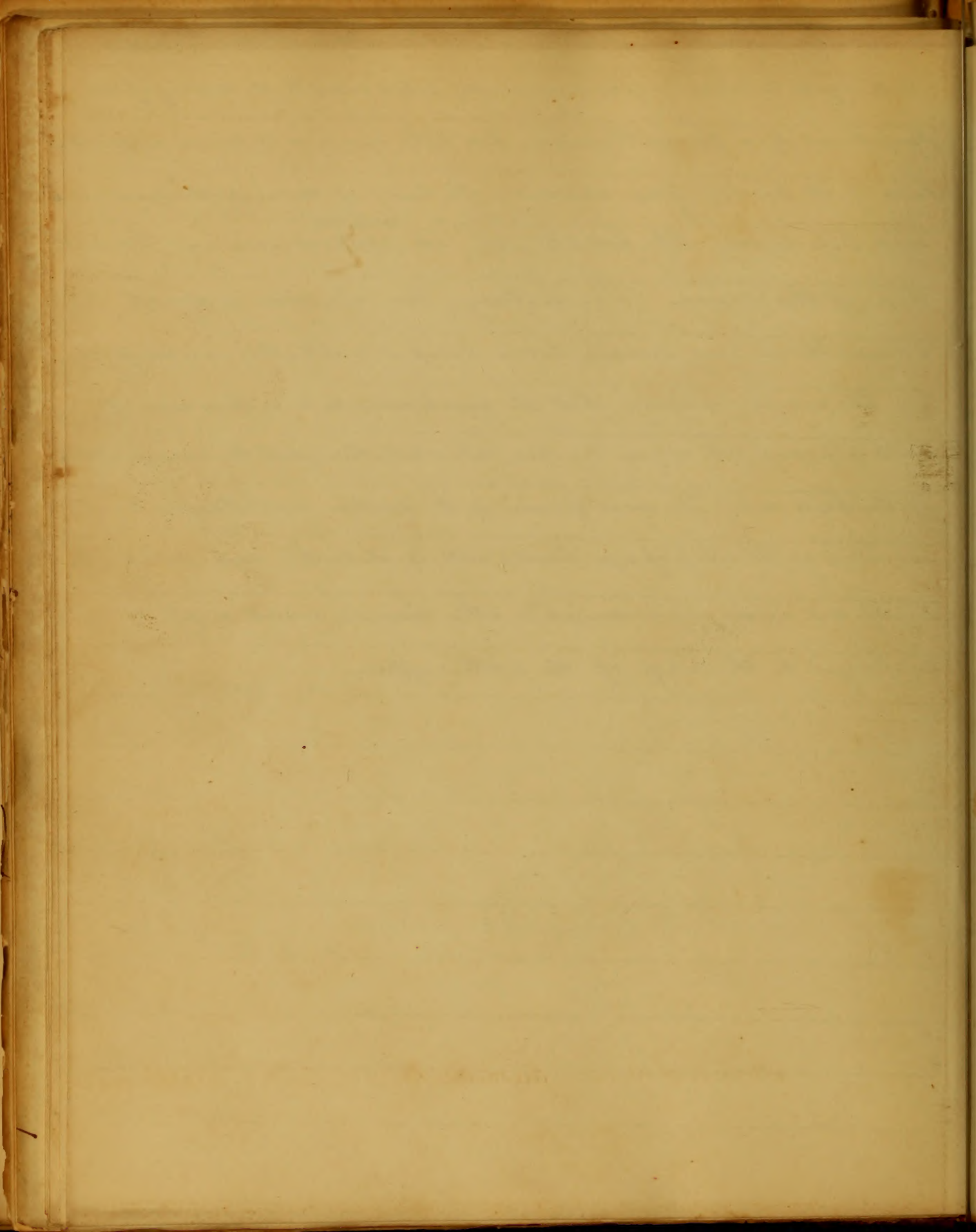
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Disertatio Inauguralis  
De  
Cynanche Tonsillari  
Quam  
Pro gradu Doctoris  
Summisque in medicina honoribus et privile-  
giis rite ac legitime consequendis  
M. In Comitibus  
Universitatis Terra Mariae  
Praefecti  
nec non  
Professorum doctorum et valde reverendorum  
Examini subjecit  
Robertus Franklin  
ejusdem civitatis civis  
Idie Idus Martias  
Anno domini duodevicesimo<sup>et</sup> centesimo<sup>tricesimo</sup> uno



Die Kunst der Chirurgie

von Johann Friedrich

Waller

in der Königl. Medicin

und Chirurgie zu Halle am Rhein

in der Buchhandlung

von J. G. Cramer

in Halle am Rhein

1754

1754

Proprietarius Johann Friedrich Waller

in Halle am Rhein

in der Buchhandlung

von J. G. Cramer

in Halle am Rhein

Amore domini MDCCLIV



Medico  
Denni Claudi  
Sub cuius Auspiciis  
Studium Medicinae coeptum est  
Haec disertatio  
Dedicatur  
Consecraturque  
Ab  
Auctore



Medice  
Pars clausa  
Sub signis, hujus  
Instituto Mediceo capite  
Hic deposita  
Pars  
Constitutio  
M.  
Auctore



De Cynanche Tonsillari

Pyrexia, aliquando typhodes; rubor et dolor faucium, deglutitio et spiratio difficiles, cum angustia in faucibus sensu, cynanchem apud Cullenum designant. Cynanche in quinque dividitur species. Prima in Tonsillis, membranisque his juxta illis positis, sita est. Sed secundam speciem a prima tantum gradu differere opinor. Et in eo secundam a prima quidem differere mihi videtur, quod in Cynanche Tonsillari; dyspnoea, ulceratio, et affectio systematis nervosi leniora sint. Alteris: speciebus (quae tractanda sunt) differentiae in sitibus sunt, et quae tractare sepe in hac thesi nimis prolixum esset; quia de sola Cynanche Tonsillari, ex toto quatuor succedentium specierum omissa consideratione, pauca hic tradere mihi in animo est. Hic morbus et idiopathicus et symptomaticus est. Primus eam speciem comprehendit, in qua Tonsillarum inflammatio manifeste morbus primarius est, et a causis in Tonsillis agentibus oritur. In secunda specie inflammatio, aut alios morbos, jam antea existentes sequitur, aut a causis in aliis corporis partibus vim suam exercentibus, et inde in Tonsillas communicantibus ortum







2.  
ducit. Sed hoc divisio inutilis est, nam non res est valde qua-  
renda, quis eorum sit morbus primarius, quia saepe species non  
medelam diversam requirunt et praeter hac morbi primarii  
curatio semper inflamm<sup>m</sup>ationem Tonsillarum vincet.

### Morbi Phonomena

Præcipua Cynanches Tonsillaris signa, rubor et tumor, Tonsil-  
larum et mollis palati, deglutitio difficilis ~~solidis~~, et delorific<sup>us</sup>,  
deglutitio liquidorum difficilior solidis, respirationis impe-  
dimentum, vox indistincta, auditio obtusa, lingua tumis-  
da, alba, <sup>instrata cum densa impositione muci,</sup> et pulsus plenus, durus, et frequens, secretio copiosa  
salivæ viscidæ sunt. Cynanche Tonsillaris plerumque cum  
sensu angustiae molesto in faucibus incipit. Sed hic mor-  
bus saepe a rigore et aliis symptomatibus prædispositionis,  
videlicet, debilitate, languore, et relaxatione proceditur, et  
nonnunquam inflamm<sup>m</sup>atio a Tonsillis in Pharyngem pan-  
dit, et tum difficultas deglutitionis major est, quam ubi  
inflamm<sup>m</sup>atio in Tonsillis sita est. Nam ubi inflamm<sup>m</sup>atio  
in Tonsillis, et velo pendulo palati, et uvula sita est,  
dolor est potius in actione deglutitionis, quam in deglu-  
titione ipsa. Faucibus inspectis, tenues limites infla<sup>m</sup>mationis,  
Tonsilla et partes contigua, tumefactiora et







9.  
sub<sup>ni</sup> a majore numero vasorum, quae in statu naturali conspici  
non possunt, se ostendentium, et insolito more turgescentium.  
Haec vasa turgida plerumque Tonsillis inflam<sup>m</sup>atio peculiaris sunt,  
nam raro in sanitate sese ostendunt. Saepenumero in hoc morbo  
hic et illic apparent maculae albae, ulcuscula efficientes, quae non  
periculosa symptomata sunt, dum albae remanent et pulsus ar-  
teriarum durus, et plenus est. Plerumque inflam<sup>m</sup>atio coercitur  
ad eas partes, quae aspiciuntur; tamen aliquando per membra-  
nam continuam, interiori ~~oesophagi~~ <sup>superfici</sup> superextensam,  
serpit, quae deglutitionis ~~tracta~~ <sup>tracta</sup> est a medicina a majore  
difficultate et dolore, tam quam situ doloris recognoscitur.  
Sed an affectio oesophagi primarius morbus sit, seu expandit  
a faucibus, difficillimum tractatu est a medicina, quod  
interdum dolor deglutitionis est tanta, ut medicamenta,  
et nutrimenta aliquando penitus excludantur. Subinde  
musculi cervicis afficiuntur, propter quod vertere caput  
saep<sup>e</sup> difficillimum est, praeterea musculi deglutitionis  
aliquando inflam<sup>m</sup>ati et affecti cum spasmu sunt.  
Symptomata febrilia, quae huic morbo adsunt, saepe  
vehementia sunt, et saepenumero severiora, quam antie-  
cipatio indicaverit a limite morbi localis vel magnitu-  
dine







partis laesivae. Tumor Tonsillarum saepe peramplum est, ut deglutitio impediatur, et cibi et liquida, quae devorari conantur per nasum revertentur; et praeterea dicitur premere venas jugulares, et ob eam rem sanguinis moram ruborem oculorum, et dolorem capitis producere. Inflammatio nonnunquam ad orificium tubi Eustachiani extendit, et surditatem producit. Cynanchi Tonsillari sunt eadem terminationes ac aliis phlegmasiis, et igitur in hoc loco non dicere singulatim mihi oportet; sed non negligentia ubi de curatione dicamus. Saepe fluxus salivae dolori est remedio, tamen aliquando causa aegritudinis, <sup>est</sup> nam irritatio quam saepe saliva creat, conatum invitum deglutitionis excitat.

Causae Remotae

Inflammationem in omnibus fere corporis partibus fieri neminem latet; quam tamen in Tonsillis, tam copioso nervorum et vasorum apparatu instructis, propter minores causas ortum esse, etiam a priori verisimillimum est, hic morbus, frequentissime in vere et autumno occurrit, et juvenes ei obnoxiores, quam senes sunt. Causae remotae sunt, quae in homine praedito corporis constitutione



partes locustae. Quibus, tunc, lacrimas, et  
ut dicitur, insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.  
insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.  
insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.

Causa Mente

insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.  
insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.  
insperant, et ad id liquida, quae  
concreta per os non revertitur; et proinde dicitur  
proinde non solum, et ad eam non revertitur  
non revertitur, et ad eam non revertitur.



constitutione peculiari morbum cient; et quæ in homine<sup>6.</sup>  
jam ante morbo, prædispositio bypanchem Tonsillarum, con-  
-citant.

Omissio venæsectionis in accessu priori et remedia impropria  
prædispositionem faciunt.

Habitus corporis plenus, fibræ tensæ, et diathesis phlogistica  
hujus morbi et reliquarum phlegmasiarum semina sunt.  
Laxitas et debilitas vasorum tonsillarum, tum congenita  
tum variis causis inducta præcipuam ad morbum hunc præ-  
-dispositionem faciunt.

His hominibus præcipue affectis prædispositio major est, quam  
illis, qui nunquam hoc morbo oppressi sunt.

Humiditas, et frigus præcipue cum conjuncta valent, et  
igitur causa frequentissima est.

#### De causa Proxima

Uippe quæ eadem sit ac in reliquis phlegmasiis, vix  
operæ pretium est in hoc loco differere.

Causa enim jam memoratæ agunt, aut, Primo. Directe  
stimulando, et in eo modo constictionem, et auctum impe-  
-tum vasorum faciendo, aut, Secundo, Debilitatem  
atoniam inducendo; quam subsequuntur coacervatio



constituitur per hanc materiam, et per hanc  
per hanc materiam, per hanc materiam, per hanc materiam  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.

constituitur in oculis, in oculis, in oculis, in oculis  
constituitur.



6  
sanguinis, et actio vasorum acuta.

Hoc tantum proprii habet Cynanche Tonsillaris quod  
Tonsilla idonee sunt ad effusionem et stagnationem  
humoris serosi; ideoque Cynanche Tonsillaris in supp-  
urationem quotiescunque alia phlegmasia desint.

### Prognosis

Prognosis omnia, vel fausta, vel mala, vel e violentia aut  
tractu inflam<sup>m</sup>ationis ducenda sunt. Inflam<sup>m</sup>atio lenis, vix  
ultra fauces extensa ulcusculis carens, larga mucii secre-  
tio, sanitatem remedium idoneorum usu restitutam  
~~sanitatem~~ non restitutam iri indicant.

E contrario, inflam<sup>m</sup>atio gravis, et diuturna, Tonsillarum et  
macula opaca faucium et pyrexia typhodes magnum  
periculum indicant; et ubi hic morbus in strumosa  
condicione accidit, periculum majus est quam in  
sana condicione corporis est.

### Ratio Symptomatum

Symptomatibus apparentibus in hoc morbo ratio-  
nem aliquam hic reddere conabimur.

Ruborem, a ruboris sanguinis particulis, in vasa  
Tonsillarum, humorem solummodo decolorum in



unquodam, et actis maximis actis.

Quod tantum per se habet quodammodo  
totaque vita sunt ad effluendum et hanc  
hancque vitam; et hanc quodammodo  
totaque vitam quodammodo hancque vitam.

Propositi

Paragum enim, actus factus, actus factus, actus factus  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam

et contra, infans, infans, infans, infans  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam

Actus, hancque vitam

hancque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam  
totaque vitam quodammodo hancque vitam



7  
statu sano fere solita, ab aucto impetu adactus oriri patet  
Et dolor a copia sanguinis majore quam solito, in vasa  
sanguifera nervorum, impulsu oriri videtur.

Tumor cui situs est in faucibus a dilatatione vasorum  
oritur, qua partem serasorem sanguinis in interstiti-  
-a sub telam mucosam sita effundunt.

Deglutitio liquidorum difficilior solidis est, quia mu-  
-neri majores musculorum in priori quam posteriori  
occupantur.

Respirationis impedimentum a tumore faucium ori-  
-tur, et vox ab eisdem causis afficitur.

Ubi inflam<sup>m</sup>atio gravis est, et ad tubum Eustachia-  
-num extendit, orificium ejus claudit, et eo transitu-  
-m sonitus ad aurem internam abstruit.

### Ratio Medendi

In omnium morborum curatione animus diligenter  
adhibendus est, ut causae remotae amovendae  
et evitandae sint. Eae variis modis pro varia earum  
natura tollendae sint. Sed praecipue, in hoc morbo  
saltem evitatio, frigoris remedio est.

Duo sunt medendi consilia.







8.

Primo, Sanguinis impetum, et actionem vasorum minuere.

Secundo, Symptomatibus quibusdam gravioribus, applicatione remediorum topicorum levamen adferre.

Primæ indicationi medetur administratio antiphlogistica, quæ in omni stimulo vitando ponitur; et victus in lacte et vegetabilibus, carne vitato, liquoribus fermentatis, aut spirituosis, præsentem febrem urgente, aut diathesi inflammatoria consisteret.

Ubi inflammatio lenis est, aliquando tantum ad partem Casam applicatis remediis utimur, hæc in duas species dividantur; videlicet illa quæ ad externas et internas fauces applicantur. Priora in applicationibus tepidis, linimentis volatilibus, et aliis remediis facientibus ruborem consistunt; et idem de emplastro cantharidum dici potest, quod remedium potentius, quin si excitatio magna sit oportet usum posterioris differre, donec morbus a propriis evacuationibus reducatur, sed postquam depletione propria facta, statim agrum ad sanitatem reducit, et ~~non~~ utile est.

Lanus vesicatoria imprimis symptomatibus levamen non







ferunt, earum efficacitas non desperanda est, nam ubi <sup>9</sup>  
prima applicatio non valet, secunda soepe succedit; reme-  
dia interna quibus <sup>utitur</sup> ~~utitur~~, ubi inflam<sup>m</sup>atio lenis est, solutio  
nitri, aluminis est alii mites gargarismi sunt; sed  
nihil majis noxium esse potest, quam gargarismi acres,  
quæ soepe gangr<sup>on</sup>am produ<sup>cu</sup>nt, et hæc minime consilio  
respondent, ubi inflam<sup>m</sup>atio gravior est quam memora-  
ta.

Medicina vomitum provocantes in initio soepe finem  
facient, quia cursum sanguinis ad superficiem cu-  
tis vertunt, et corporis organis levamen afferunt, et  
notatione dignum est, ut ubi nulla affectio syste-  
matis est, illa majis efficienter inflam<sup>m</sup>ationem, fau-  
cium quam remedia topica vincent.

Sed ubi morbus diuturna sit, et inflam<sup>m</sup>atio gravis  
est, præsertim si muscoli cervicis inflam<sup>m</sup>ati sint,  
exhibitio emeticorum circumspectionem majorem pos-  
tulât; et semper minus efficiens est, et aliquando  
injuriosa est. Tamen hæc soepe prosperissime adhi-  
bentur, postquam abscessus formatur. Nam ubi  
abscessus situs profundior faucibus, et chirurgus non tangere







potest, exercitatio vomitus eruptionem eorum quae sunt in abscessu movebit

Medicamenta cathartica soepe nostrum attentionem poseunt, praesertim si comitetur febris gravis; alii enim purgationes, tum, stimulo ad intestina ~~communicatio~~ magnam humoris aquosi quantitatem evacuando, et eo modo quantitatem fluidorum minuendo, tum stimulo ad intestina ~~communicatio~~, multum certe allevant. Cathartica lenia conjuncta iis topicis remediis, quae supra tradidi soepe hunc morbum curabunt, tamen ubi febris violenta est, adhuc illa propria sunt. Exinanitionem intestinalem minime pro quantitate fluidi evacuati posse, sed hoc modo causa amovenda est irritationis arbitrator.

Medicamenta ex hydrargyro confecta, jure laudata sunt, et vim peculiarem in hoc morbo curando possidere videntur, et in eo hydrargyrum ab aliis catharticiis differere opinor, quod hydrargyri confectiones ad majorem secretionem omnes glandulas stimulant.

Nunc pauca de remediis diaphoreticis mihi tradenda sunt. Haec in tynanche tonsillari aequae utilia sunt quam in aliis phlegmatis; nam hunc morbum sua sponte a sudore desinere vidimus, et







hoc nos utilitatem hujus remedii docet, sudor, qui ab externi  
calore producitur, inutilis et inuerosus est. Hausti deluti,  
vel quicquam mite diap<sup>he</sup>roticum, frigore irritato, soepe  
sudorem producere sufficiunt.

Sed ubi excitatio systematis sanguiferi major est quam  
memorata, tum nitrum antimonio conjunctum opti-  
mum remedium sudorem instigare est.

In inflamm<sup>m</sup>atione locali, qualis byranche Tonsillarum  
est, nisi diathesis phlogistica et pressio violenta sit, aut  
inflammantur membrana oesophagi, venae sectio raro  
adhibenda est.

Scarific<sup>ica</sup>io Tonsillarum prodesse dicitur, et aliqui  
omnibus evacuationibus vasorum Tonsillarum scarifi-  
-cationibus pr<sup>o</sup>stulerunt. Hirudines ad jugulum appli-  
-cate effectus optimas soepe dant; haec tamen aliquando  
haud facile loco, quo cupimus, figuntur, et neque  
facile metiri possumus quantitatem sanguinis ab  
eis detracti.

Verum illa detractio topica, ob parvam sanguinis  
missi quantitatem, utut utilis et praestans aliis largioribus  
evacuationibus in violenta inflamm<sup>m</sup>atione praeferi non debet.







Sed si febris urgens superveniret, tum venesectio <sup>12.</sup> remedium  
est, cui confideremus, et repeteretur, donec symptomata gra-  
viora cedunt; et postquam febris cessat, vesicatoria multum  
prosunt, quod humorum determinationem a Tonsillis, a-  
vertunt saepe optimo cum effectu.

~~Epispastica~~ Epispastica ab aure ad aurem vel inter humeros app-  
licari debent; sed majore in his quam illis essent.

Gargarismi quibus utimur in Larynge Tonsillari di-  
vidantur in quatuor ordines, secundum diversas indi-  
cationes sunt, primo, illi, qui adhibentur inflammation-  
em minuere, secundo, suppurationem producere, tertio,  
illi, qui proprii sunt, quum abscessus sua sponte erum-  
pit, vel a chirurgo apertus est, quarto, illi, qui necessar-  
ii quum gangraena supervenit.

Illi indicationi primae sunt remedia, qui non irritati-  
onem producant, et

In initio hujus morbi gargarismi stimulantibus mortifi-  
cationem producant, et periculosi sunt, Sed ubi fau-  
ces cum denso muco obstruuntur, tum gargarismus  
detergentior esset.

Hoc primo tempore, si doloris diminutio sit dum







12

tumor crecit, et nobis nulla spes procurandi resolutionem morbi, tum nobis oportet inducere suppurationem benignam, <sup>pro ejus</sup> et indicatione gargarismi diversi generis proprii sunt, videlicet emolientis et demulcentes (calor applicatus in diversis modis, quod sciamus potentissimum remedium est), Compositio gargarismi expedite a indicatione judicatur, quam aspicimus inhalatio vaporis, mitia cataplasmata ad partem externam applicata saepe multum valent.

Postquam abscessus erumpit, emolientes et leniter astringentes gargarismi optimi sunt. Si proclivitas in gangraenam desinere est, illi <sup>efpe</sup> stimulantiores debent, ut exercerent vim suam peculiaris in eas partes, quae adhuc vitam retinent.

Inter medicamenta hujus gradus, cortex peruvianus cum vino conjunctus, probandus est sed de medicamentis diversis medicis judicaverit, <sup>fitigitur</sup> de singulis specialibus dicere non necessarium est.

Differentia aliqua est opinionis de modo optimo ad fauces applicandi remedia, tamen gargarizatio est







14.  
ria huic indicationi, si non multum doloris ferrat, vel  
inflammationem aget, nam in exemplis mitioribus, motio,  
gargarizationis ~~non~~ nunquam nocet, sed in gravioribus  
motiones gargarizationis vitanda sunt, praecipue quum plu-  
rimum molestiae et noxae aegro dant, tum medicamenta in  
fauces a syringe injicerentur.

Temperatura conclavis nec nimis frigida nec calida, sed  
jucunda sensibus aegrorum est.

Aegri ad frigorem non exponi debent, et regimen ~~antiphlogisticum~~  
antiphlogisticum est.

Quamvis venasectio esse necessaria in multis casibus  
videtur, tamen una copiosa detractio sanguinis saepe  
curat et indurationes glandularum praeventit.

Ego secundam speciem bynanches a prima tantum gradu differere, dixi, quod secun-  
da est febris typhodes conjuncta cum symptomatibus bynanches, et saepe in initio prima  
vehementer inflammatoria est et degenerat in febrem typhodem ob violentam  
actionem vasorum sanguiferorum, et aliquando Bynanche Tonsillarum propria  
depletionis omisa in Bynanchem <sup>ma</sup> malignam degenerat.

Limites hujus dissertationis me tradere diversos modos curandi hunc morbum non  
permittent, et praeterea non mihi imprimis in animo fuerat de Bynanche maligna  
dicere, sed de diversis remediis, quibus in hoc morbo utimur medicus pro re nata judicabit.







An  
Inaugural Dissertation.  
on  
*Parabysma Splenicum*  
Respectfully submitted to the examination  
of the  
Provost, Trustees and Medical Faculty  
of the

University of Maryland.

for the degree of  
Doctor of Medicine  
by

Thomas Owens.  
of Baltimore. M.D.

1831.



No.

Prolegomena Dissertation

Respectfully submitted to the examiners

of the  
Faculty of Medicine and Surgical

of the

University of Maryland

for the degree of  
Doctor of Medicine

by

Thomas Green  
of Baltimore, Md.

1831



Dr. J<sup>r</sup>. Samuel Paker Professor of Mat. Med.  
in the University of Maryland.

The following essay is affectionately dedicated  
as a feeble testimony of regard and esteem,  
and as a poor memento of gratitude for the  
many obligations under which you have  
placed

Your pupil.

Thos. Owens



Dr. J. Samuel Baker Professor of Nat. Hist.  
in the University of Maryland.  
The following essay is affectionately dedicated  
as a feeble testimony of regard and esteem  
and as a poor monument of gratitude for the  
many obligations under which you have  
placed

Yours truly,  
Wm. Brewster



1.  
Parabysma Splenicum.

Parabysma has a place in Dr Good's nomenclology, as a generic term "ab *tragabow*. a genuine Greek term in use among the Greek classics, and distinctly signifying morbid congestion, Coacervation or infarction." This affection is one of very frequent occurrence in this country, supervening in most cases on protracted and obstinate Intermittent and occasionally Remittent fevers, in Constitutions either weakly or strumous; but much more frequently in such as have been previously debilitated, and impaired by intemperance. Dr Good describes several varieties of this disease, as simple coacervation vulgarly called Ague Cake; schirrous turgescence or congestion communicating to the touch an indurated sensation; and Cartilaginous in which the coverings alone become hardened and



*Paraphimosis*

*Paraphimosis* has a place in the first and  
second, as a general term, as regards a  
genital part, but in the among the first  
class, and distinctly signifying a  
condition, "constriction or inflexion." This  
affection is one of very frequent occurrence  
in this country, appearing in most cases  
as a protrusion and ultimate protrusion  
and occasionally permanent, even, in the  
state of the urethra nearly as permanent, but  
much more frequently in such as have  
been previously abraded, and injured  
by intercourse. It is good described as  
not varieties of the disease, as simple  
constriction or only called acute case;  
schirrus, tumescence or congestion can  
communicating to the testis an indurated  
condition; and Catarrhus in which  
the covering alone become hardened and



indurated. Whether this is a correct division of the varieties I know not; but it is certain that there are cases which by feeling, we discover that although the spleen is greatly enlarged, still it is soft & yielding, whereas in others we perceive it is hard and incompressible.

The size it sometimes assumes is almost incredible weighing several pounds; and one case is reported by Bonet, which after death was found to weigh thirty-three pounds, and to fill the whole of the abdomen! I cannot conceive in this case (without however doubting for a moment his veracity) what could have become of the Liver, stomach, intestines and other organs of the abdomen, or in what manner the system could have been nourished; as he tells us she followed her daily avocation for seventeen years. It seems however as though after the Spleen had utterly demolished the other organs, it performed their function thereby

-by







standing in the same relation to the body<sup>3</sup>  
as the other viscera conjointly. This disease  
is not always of itself a dangerous one, for  
many cases have occurred in which the pat-  
-ient enjoyed good general health although  
the spleen was much enlarged; most fre-  
quently however it is an evidence of Consti-  
tutional depravity; especially in the sys-  
tem of absorbent vessels; consequently it  
is very often present in Dropsy, and has  
therefore been supposed by some to produce  
this latter disease, by keeping up a constant  
abnormal irritation (from its unnatural  
augmentation) thereby causing the serous  
membrane to effuse a greater quantity  
of fluid than in health. Lannee says that  
effusions in ~~serous~~ serous membranes so  
soon as inflammation commences, and  
I have no doubt that the spleen and its  
serous envelopes are sometimes inflamed,  
and that effusions are consequent upon



standing in the same relation to the body  
as the other vessels conjointly. This disease  
is not always of itself a dangerous one, in  
many cases have occurred in which the patient  
remained enjoyed good general health although  
the spleen was much enlarged; and for  
quantity however it is an evidence of local  
distention of quantity, especially in the  
form of abscesses, consequent to  
a very often present in dropsy, and has  
therefore been supposed by some to produce  
the latter disease, by keeping up a constant  
abnormal irritation, from its continued  
aggravation, thereby causing the serum  
membranes to effuse a greater quantity  
of fluid than in health. Some say that  
effusion in excess from membranes is  
even an inflammatory consequence, and  
I have no doubt that the spleen and its  
serous envelopes are sometimes inflamed,  
and that effusions are consequent upon



this inflammatory action. I conceive that<sup>4</sup>  
congestion of the Spleen may exist for years  
without inducing any other disease; but  
if the irritation caused by its enlargement  
or from any other cause, should extend to  
inflammation, then there may be effusions  
constituting dropsy; or that its continuance  
may in dropsy also depend on a debility  
or a diminished action of the Absorbents.

I neglected to explain in its proper  
place, the manner in which simple in-  
farction or turgescence of the spleen may  
be produced. During the cold fit there is a  
quiescence of the capillaries, the blood not be-  
ing propelled to the surface, in this state  
the blood accumulates in and distends the  
deep seated organs, and the more severe the  
paroxysm, the more are the internal vessels  
distended, and a disposition to parenchy-  
matous effusion promoted - As therefore  
the Spleen is exceedingly distensible,



The inflammation of the pleura may exist for years  
without inducing any other disease, but  
if the irritation caused by its enlargement  
or from any other cause, should extend to  
inflammation, then there may be effusion  
constituting dropsy, or that its continuation  
may in dropsy also depend on a pleurisy  
or a diminished action of the pleurae.  
I repeated to experience in its progress  
before the progress in various stages in  
facture or laceration of the pleura may  
be produced. During the cold fit there is a  
quiescence of the capillaries, the blood not be-  
ing propelled to the surface, in this state  
the blood accumulates in and distends the  
deep seated organs, and the more severe the  
hemorrhage, the more are the internal vessels  
distended, and a disposition to hemorrhage  
not only effusion promoted - the therefore  
the pleura is exceedingly distended.



and not possessed of much elasticity<sup>51</sup> or power of returning to its wonted condition after the restraining force is removed; and as a great quantity of blood in its natural state circulates through it we may very readily conceive how it is so frequently the subject of congestion and intumescence. This is what I should call Ague Cake. It is immediately associated with and dependent ~~on~~ principally if not altogether for its exciting cause, upon Intermittent and Remittent Fevers, and very frequently disappears a few weeks after the fever has subsided -

In the management of this affection, some distinction should be made between this which is an associate or termination of Intermittents, and chronic enlargement and Induration of the Spleen, an effect of a



and not for want of much thinking  
or power of reasoning to its mental con-  
dition after the restraining force is re-  
moved; and as a great quantity of blood  
in its natural state circulates through it  
we may very readily conceive how it  
is so frequently the subject of congestion  
and inflammation. This is what Dr  
should call the lake. It is much  
ably associated with and dependent  
principally if not altogether for its ex-  
cess upon the lungs, and very frequently  
without fever, and very frequently  
disappears a few weeks after the  
fever has subsided -  
In the management of this  
affection, some distinction should be  
made between the which is an ac-  
ute or inflammatory of the lungs,  
and chronic enlargement and the  
obstruction of the vessels; an effect of a



peculiar constitutional derangement,<sup>6</sup>  
which is often the sequela of Intermit-  
tents and other diseases, and sometimes  
continues during the life of the patient.

In entering on the treatment of this  
disease it is not conceived necessary  
to enumerate all the articles which  
have been proposed and employed  
for its cure, but merely to mention  
some of those which have been used  
with the most decided advantage -

When there is \**simple* ague cake,  
the remedies besides those used in  
Intermittent fever are cups and

---

Note. It will be necessary here to append  
an opinion, which is maintained by  
some Southern Practitioners, and  
which I believe was advanced by  
Cartwright of Natches, viz. that ague  
cake is dormant Intermittent



feverish constitutional derangement,  
which is often the sequel of distemper  
tears and other diseases, and sometimes  
continues during the life of the patient.  
In entering on the treatment of this  
disease it is not considered necessary  
to enumerate all the articles which  
have been proposed and employed  
for its cure, but merely to mention  
some of those which have been used  
with the most decided advantage.  
When there is <sup>\*</sup>purulent ague fever,  
the remedies besides those used in  
intermittent fever are, cups and

Note. It will be necessary here to observe  
an opinion, which is maintained by  
some Authors, particularly, and  
which I believe was advanced by  
Cauteright of Rotterdam, viz. that ague  
fever is a venereal intermission.



leeches over the left Hypochondriac <sup>1.</sup>  
region, especially if there be any evidence  
of inflammation. Blisters have also  
been used in this form of Paralysis,  
and occasionally issues & setons - All  
of the above may be used but with  
discrimination, they prove serviceable  
in relieving engorgement, and diver-  
ting the diseased action, or by exciting  
the absorbents - Emetics have been  
used with a view to this latter

fever, not a sequela but Inter-  
mittent in another form of its ex-  
istence. Their reasoning is predicated  
upon the circumstance that while it is  
present if the patient expose himself to  
cold, wet, fatigue &c. that it will be  
aroused from its dormant or latent state to  
its active - on this account they treat  
it as Intermittent.







effect. In scirrhus enlargements of the spleen, the preparations of mercury have been used perhaps more generally and it is probable with more success than has attended the employment of any other means which have heretofore been used. In attempting to explain its "modus operandi," we cannot do better than quote the language of Dr Cullen who says "universally mercury, in its active state seems to be a stimulus to every ~~part~~ sensible and moving fibre in the body, to which it is immediately applied. It is therefore a stimulus to every excretory vessel of the system to which it is externally or internally applied. Besides its noted effects upon the excretories of the saliva, it seems to operate upon the whole alimentary canal. It proves often diuretic, and I have particular proof that it acts on the organs of perspiration.



effect. In certain enlargements of the  
system, the force of mercury have  
been used, but more generally, and it  
is possible with more success than has  
attended the employment of any other  
means which have heretofore been used.  
In attempting to explain its moderating  
and, we cannot do better than quote the  
language of Dr. Williams in his paper, "concerning  
the mercury, in its action upon the  
be a stimulus to even more remote and  
moving fibres in the body, to which it is  
immediately applied. It is therefore a stim-  
ulus to every excretory vessel of the system  
to which it is externally or internally ap-  
plied. Besides its noted effects upon  
the excretories of the salivary, it seems to  
operate upon the whole alimentary canal.  
It gives often diarrhoea, and I have  
frequently found that it acts on the  
glands of perspiration.



Although it may sometimes operate more upon certain excretions than others, it may be presumed that when any tolerable quantity is thrown into the body, it is in part distributed over the whole; and therefore its medicinal effect is that it is the most universal aperient and deobstruent known. Mercury is therefore alleged to produce its beneficial effects, in enlarged spleen by stimulating the absorbents and thereby causing them to carry off the redundant matters. When there is an inflammatory state of the system, mercury should be used with much discrimination as by its stimulating action it is prone to excite the sanguiferous system, and produce a mercurial fever, which sometimes runs so high that mortal hemorrhages are the consequence. Salivation will however in many cases be required; and sometimes when







the first has been of no avail, a sec<sup>d</sup>  
or a third has entirely removed every  
obstruction and resolved the intumes-  
cence. In too many cases however, es-  
pecially in strumous diatheses, saliva-  
tion and that even repeated seems to  
be of no benefit; but rather tends to  
break down the recuperative energies  
of the system - without in any remar-  
kable degree proving beneficial to the  
disease.

There is another remedy which  
promises to be invaluable in the treat-  
ment of schirrous enlargement of the  
spleen. I allude to Iodine, Cartwright  
of Wathes has adduced in testimony  
of its merits several cases which  
were cured during its administra-  
tion. He used the following formula

R $\bar{s}$ . Iodine grs XXV  
Spts vin. Rect. ℥i ~~℥i~~.



The first has been of an error, or the  
as a that has entirely removed every  
obstruction and secured the return  
cases. In the many cases however, a  
peculiar in themselves distinct. In this  
time and that were repeated seems to  
be of no benefit, but rather tends to  
break down the superstitious empiry  
of the system - without in any sense  
having done anything beneficial to the  
disease.

There is another remedy which  
proves to be invaluable in the  
management of the  
system. I allude to the  
of which has been used in  
of its merits several cases which  
were cured during its administration  
then. It used the following manner

Dr. J. C. ...  
No. 10 ...



dose for an adult 25 drops 3 <sup>11</sup>  
times daily. It may be proper to  
remark, that it is generally used  
much stronger, as 48 grains to  
the ounce - During the past summer  
while a student at the Alms-house  
I had an opportunity of trying this  
remedy in several cases of scirrhus  
enlargement of the Spleen. I used

℞. Iodine grs XLVIII.

℞pts Vin. Rect. ℥i. ~~℞~~ -

and gave five drops three times a  
day gradually increasing to twenty.  
One case particularly in which I  
employed this remedy exclusively,  
the patient represented that this  
affection had existed upwards of  
twelve years. I gave the tincture  
in doses of 5 drops, increased to  
12 - 3 times daily, and as well  
as I recollect in about six or



There is an excellent 2d paper  
times daily. It may be proper to  
remark that it is generally well  
much cheaper, as to price  
the price. During the last summer  
with a reduction of the blue  
of had an opportunity of trying  
nearly in several cases of  
enlargement of the spleen. I used

Dr. Ferrius's XLVIII

1st. In the 3d. the  
and gave five drops three times a  
day gradually increasing to twenty  
the case particularly in which I  
employed this remedy exclusively,  
the patient reported that this  
affection had existed upwards of  
twenty years. I gave the tincture  
in dose of 5 drops, increased to  
15. 3 times daily, but as well  
as I recollect in about six or



seven weeks, the enlargement <sup>12</sup>  
and induration completely disappear-  
ed. - To a patient labouring under  
Chronic bronchitis and ascites, to a  
limited extent with considerable  
Chronic enlargement of the Spleen,  
after using the usual remedies, ~~after~~  
without much advantage, I gave  
Mercury to the extent of producing  
ptyalism, which removed the two  
former affections, but the Spleen  
remained in statu quo. - In about  
two weeks from this time owing  
to exposure his cough returned, &  
became very distressing, he was a-  
gain salivated & the cough removed,  
but the Spleen still remained  
the same. - I then resorted to Iodine,  
and increased the dose to 20 drops  
3 times daily - till it produced  
itching of the skin and giddiness.



Sticking of the skin and gradually  
3 times daily - till it produced  
and increased the dose to 20 drops  
the same - & then resorted to  
but the skin still remained  
gain facilitated - the cough & remain  
because very distressing, he was a  
to expectorate the cough & return  
two weeks from this time  
remained in that way - he about  
former affection, but the skin  
of the skin, which remained the  
necessity to the extent of producing  
without much advantage, & gave  
after using the usual remedies  
Chronic enlargement of the spleen,  
limited extent with considerable  
Chronic bronchitis, and resorted to a  
ed - to a patient laboring under  
and indicated coughing & expectoration  
some weeks, the enlargement



13.

I then suspended it till these symptoms disappeared; commenced it again and suspended its employment when the system fully acknowledged its influence. In this case I gave occasionally Emetics and Cathartics, and applied - Ung. Hydriodati - Potassæ - to the tumour - I pursued this plan for 6 or 7 weeks, when the swelling lost two thirds of its original size. The patient desired to go to work, & at his request was discharged. I had two cases under my care, when I left the alms-house, that were sensibly relieved by the Iodine, and I had reason to believe that a perseverance in the remedy, would have succeeded completely. I tried it partially in many other cases, but not with much perceptible amendment, owing I suppose to its limited exhibition.



I then suspended it all these years  
till it appeared; commenced it  
again and suspended it again  
when the patient fully recovered  
its strength. In this case I gave  
occasionally sweet oil and Castor oil  
and applied - sup. thiodat. Potass.  
to the tumor - I pursued the plan  
for 6 or 7 weeks, when the swelling  
had two thirds of its original size.  
The patient desired to go to work, &  
at his request was discharged.  
I had two cases under my care, when  
I left the above dose, that were  
aided relieved by the medicine, and  
I had reason to believe that a person  
more in the remedy would have  
been completely cured. I tried it partially  
in many other cases, but not with much  
beneficial success, owing to  
to its limited exhibition.



I used it in a case of incipient tuberculous Thymis, without benefit. In case of scrophulous swelling and ulceration of the glands of the neck, I without perceiving any decided advantage. The Hydrate of Potassa seems in many cases to be a valuable adjuvant to Iodine used in ointment

R. Hydrate Potassa. ℥ss.  
Adeps. . . . . ℥i. M.

I have used this ointment in several cases of enlargement of the Spleen, as I thought with advantage. In two cases of scrophulous Ophthalmia I derived benefit from its employment, and also in a case of sympathetic lobo, excited in a strumous patient by gonorrhoea. I know not how to explain the modus operandi of Iodine, in removing scirrhous enlargement of the Spleen. Cartwright supposes that Iodine re-



I want it in a case of unexplained  
muscular atrophy, without any  
cases of peripheral neuritis and  
of the glands of the neck, I want to  
know if any decided advantage  
the history of the case seems in any way  
to be a valuable argument to believe  
it is a certain

Dr. J. C. Davis, Boston, 31.  
Dr. J. C. Davis, 31.

I have read the statement in regard  
cases of enlargement of the spleen, and  
thought with advantage. In the case  
of peripheral neuritis I should judge  
from its employment, and also in an  
case of sympathetic, excite in  
a somewhat patient of general  
I have not been to explain the  
method of procedure of the spleen, in many  
cases of enlargement of the spleen.  
I thought especially that the



moves that peculiar habit of body <sup>by</sup>  
or constitutional derangement termed  
the paludic diathesis (the cause of  
scirrhus enlargement of the Spleen)  
in the same manner as it removes  
a somewhat similar diathesis, on  
which serofulous sores and tumours  
depend. When the causes of Inter-  
mittent fever are removed, the aque-  
cake ~~dis~~appears, and scirrhus en-  
largement of the Spleen cannot long  
outlive the peculiar diathesis to  
which it owes its existence. Some  
suppose it acts by promoting absorp-  
tion, or producing marasmus, others  
that it has a tonic influence.







An  
Inaugural Dissertation

on

Hemorrhoids.

submitted to the <sup>Proost-</sup> Faculty of Physic of the

University of Maryland

for the degree of Doctor of Medicine

by

Edward C. Fisher .

of  
Richmond

Virginia

1831





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The acknowledged theory of any disease is generally a sufficient security for its adoption and a mode of treatment suited to the usual opinion of its pathology - There is so great a reluctance on the part of the medical Profession to innovate on established customs and beliefs that few will be found so far from the wishes of preconceived notions, or the despiciously long established customs. So great is the consequence attached to the precepts taught by our progenitors, and indeed doubly so by time affixing her seal on them, that he who dares not to raise his voice against them is regarded not as the benefactor of mankind but the vain Revolutionary and therefore unworthy of public confidence - The past history of medicine furnishes an ample testimony to these facts and altho' vain efforts may have been made to overturn the existing theories the days we must acknowledge that this spirit of ~~innovation~~ innovation has brought a new light to shine in the medical world and placed in the hands of the Physicians the means of adding much to the relief of suffering fellow men - The science of medicine like others is progressive in its nature and from what has been done we should not expect it to afford complacency but only encourage the hope that the future will develop facts in proportion to the ~~endeavors~~ <sup>endeavors</sup> that they are sought after -

Of the many diseases which the black catalogue presents we find not one perhaps of a more general prevalence than that on which these few remarks are made - No age, sex or







condition seems to be exempt from it and we see it existing for  
as in the suppur and in defiance of all means to relieve it  
lasting only with life itself - In fact Hemorrhoids constitutes  
one of the most frequent, inconvenient and painful of the diseases  
with which the human system is affected. Comparatively  
seldom it is one of rather obscure notice, but were we to  
judge from its universality it does deserve, and ought to receive  
our attention from the Hippocrit. For a long time its origin  
nature and mode of treatment remained in ~~obscure~~ obscurity  
and were at the present day more than one opinion  
prevails as to its true pathology giving rise to an erroneous  
and it is not too much to say an unmercifully painful  
treatment.

The etymological meaning of the term hemorrhoids, is simply  
discharge of blood. Surgeries however sanctioned by long custom  
are ~~employed this term~~ implied by this word either  
bleeding from the lower part of the rectum recurring  
on or off frequently, yet not accompanied by any distinguish-  
able permanent tumour within or on the outside of the  
anus; or ~~lastly~~, tumours originally produced by effused blood  
which is commonly converted into an organised substance -  
or lastly, tumours originally produced by effused blood which  
is commonly converted into an organised mass. There may  
be profuse discharges of blood from the anus as there are from  
the stomach & Lungs but this is a distinct disease ~~but~~ from  
that is commonly called open piles. It is well known that  
the Intestine in rectum is composed of several membranes which  
are of different degrees of extensibility; the muscular coat being







not contractility - now in each of these coats there are arteries  
 and capillaries and like other vessels of the same character  
 are influenced by their functions by the adjacent parts - and  
 on this situation are operated on by the functions of the  
 intestinal canal - as the feces pass from the superior to the  
 inferior bowels and become impacted, there will be more or less  
 pressure on the rectum - as then the different membranes of the  
 tube will yield more or less to this mechanical agent - assisted  
 the action of the sphincter there will necessarily result more  
 or less constricting or doubling up of the gut - such hindrances  
 as existing there will be compression on the vessels impeding  
 in various functions and consequently will be distended -

- an erroneous taught by morbid anatomy that hemorrhoidal  
 nodes are of two kinds, sometimes consisting of mere spongy or  
 cellular tumours, at others they are encysted - the blood being disch-  
 arged by exhalation and not from any rupture of an obstructed  
 vein or artery - and we fear not to ascribe on the authority  
 another that the blood arises from exhalation (or percolation)  
 the epistaxis, hemoptysis &c. the only difference in these hem-  
 orrhages being in their several situations - We may then regard  
 them as small fleshy tubercles situated within the anus or descending  
 on the rectum - appearing rather a solid and spongy feel  
 and when cut into present a surface more or less compact  
 and bloody from which blood oozes, leaving the rectum  
 pale and relaxed - When more external ~~and healthy~~ are pale  
 and generally also more elastic and transparent and appear  
 more quickly than the former - sometimes they take on a different







character and contains a central ~~character~~ cavity filled with  
coagulated blood and lined with either a smooth or gran-  
ulated ept. By minute anatomical injections a few vessels may  
be demonstrated thro which the blood issues into the central  
cavity but no connexion with the larger vessels has been demon-  
strated. "The cavity usually does not exceed a pea, but is sometimes  
large enough to hold several drachms of blood. Generally there  
is no cavity or ept but the substance of the tumour is in-  
filtrated with blood which eventually becomes dark and  
coagulated. Piles sometimes subside by discharging the  
engorged blood and leave nothing but peduncular flaps,  
but when by constant pressure and the operation of the  
cincture they have become permanent, varying in their size  
and forming a constant source of irritation from pres-  
sure or inflammation or by occasioning a distressing prolapse  
of the anus. This permanent state of the tumour has been  
ascribed by an eminent writer to the development of the  
capillaries by which the intestines are gradually obliterated  
and partly to the organisation of the effused blood. It has  
been regarded by some as a constitutional disease, "an effort  
of nature to turn on one ~~part~~ side the effects of dis-  
arrangements in the organic balance: a substitute for  
other and more important functions." That the hæmorrhoi-  
dal flux occurs not infrequently vicarious to the menstrual  
discharges and occasionally alternates with it cannot be  
denied. But it is granting too much to consider this  
disease as playing the same part in the male economy  
that menstruation does in the female —







An idea of constitutional piles the formerly prevalent among English Physicians has of late fallen into perhaps unmitigated disrepute whether this sanguineous fluxion be established in the Uterus or rectum its influence on the Economy is the same. The difference local effects will be explained by the difference in structure the parts - The pain and inconvenience in this species of fluxion is frequently less considerable than is felt during the menstrual discharge.

The persons generally are subject to this disease it has been observed at some are more liable to it than others - Inhabitants of large cities being more frequently subject to it than those of the country and even climate seems to exercise an influence on it for we find that persons residing near the Equator are less afflicted with it than those living near the in northern climates - sometimes an hereditary predisposition entails it on several successive generations and we know one family consisting of nine individuals all of whom are more or less affected with it - No age is exempt from it, altho generally it is a disease of middle or advanced life - Children have been attacked with hemorrhoids in the first year and even in the first month of their existence - No temperament or constitution can claim immunity from it tho the sanguineous and bilious are most obnoxious from it - persons who have been subject to nasal or other hemorrhages are liable to hemorrhoids especially if they exchange an active for a sedentary life.

Of the Causes of hemorrhoids the following may be enumerated the most general and certain in their effects - habitual







8  
constipation, some efforts to discharge hardened feces, the  
insertion of suppositories, worms or other foreign bodies in the  
rectum - the frequent use of warm injections: the habit of  
sitting on cushions filled with feathers, alcoholic liquors,  
eating aliment - the abuse of drastic purgatives, compression  
of the abdomen by belts or corsets, the weight of <sup>the</sup> gravid uterus  
and the suppression of habitual evacuations - and the last  
at least the habit of students to put their feet higher than  
the seats while sitting for a long time - In fact very intense  
heat applied near the rectum which will excite a plethoric  
movement towards that part - The maxim ubi irritatio, ibi  
lesio applies with equal force to the anal region -  
hemorrhoids occasionally occur as a local disease but often  
their appearance particularly if the patient has been long  
subject to the disease is preceded by horripilation of the back  
and loins accompanied with pain in ~~the~~ sometimes a numbness  
of the lower extremities, pulse hard and contracted, the  
countenance pale the eyes dull and surrounded with  
dark circles, dryness of the mouth, pain and heaviness of  
the head, vertigo, depression of spirits, tension and more a  
depression of spirits tension of the abdomen, flatulences  
frequent desire to pass urine and to go to the close stool  
sensation of pressure from the anus to the perineum and  
equally a discharge of thin mucus from the rectum -  
The patient is indeed affected with such symptoms as  
indicate an inflammation of the lining membrane of the  
intestines: such as heat itching & pain within & around the anus.







they be large and numerous they impede the expulsion of the  
 stool: and the straining consequent on this impediment excites  
 a bowel - If however the patient be unable to restore the part  
 its natural situation the piles in consequence of the stricture  
 need around them mortify and slough off - This process  
 is the result of an accidental circumstance corresponds  
 its effects to the application of a ligature the practice  
 is so universally adopted, than which a more painful and  
 and unecessarily tedious practice does not exist in surgery. For  
 we find not only that the most severe and alarming effects  
 resulting to the system generally producing nervous excitement  
 and convulsions sometimes but local effects equally serious  
 and generally involving in their influence the alimentary  
 canal -

In some cases a discharge of blood takes place which constitutes  
 what is called open piles and procures immediate  
 relief of <sup>all</sup> the general symptoms - The discharge takes place  
 when the patient is at stool - This state continues for several  
 days and has been known to take place for months nay  
 one year - There are some remarkable cases related of the quantity  
 of blood which has been discharged from the anus and con-  
 tinuing for several months - Paracelsus states that a Spanish  
 physician voided from his anus a pint of blood daily for  
 months and yet enjoyed a perfect health - When no  
 discharge ~~occurs~~ of blood follows irritation of the anal  
 or rectum to the rectum we observe at the margin  
 of the anus and sometimes even within the rectum  
 one or more tumours of a round and shining appearance  
 of a dark violet colour with more or less inflammation  
 & pain -







until recently the nature of these tumours was imperfectly understood - It has been generally supposed that they consisted a varicose dilatation of the branches of the haemorrhoidal vessels: a complication of the vena portalis ventriculi - Under this supposition it is believed there is a liability to dangerous haemorrhage these tumours be opened - and that the magnitude of the ulcer is increased by the circumstance of there being no valves in the veins to prevent fatal haemorrhage - Bullen was first to throw off the shackles of authority and concluded that piles consisted in an effusion of blood into the cellular tissue of the rectum near its extremity - This opinion was confirmed by the accurate anatomical investigations of Camper who discovered that the piles consisted blood is contained in a membranous cyst formed out of cellular tissue which connects the mucous & muscular coats together -

Thus haemorrhoidal tumours are in the first instance mere excoriation or an effusion of blood pushed by a rupture of some capillary ~~tumour~~ ramus which remains unabsorbed under the lining membrane of the intestines near the anus - As soon as the causes which provoked the translocation are removed the blood is absorbed and removed - If on the contrary constipation continues with irritating effects or tumours connected with a plethoric habit and active circulation, or if the rectum be in a state of irritation as is frequently the case in diarrhoea the tumours will not only remain but increase in magnitude - If we examine these tumours we shall find the blood enclosed in a thin membranous coat







lined by the accreted lamina of the cellular tissue  
 from the muscular & mucous coats of the rectum -  
 Morgagni supposes these tumours to be a "dilated capillary  
 sinus" but since they are found sometimes in a few hours  
 after the pleurisy movement it is not reasonable to suppose  
 that an artery could be dilated so soon -  
 in controversy of the opinion that haemorrhoids are always  
 cancerous we deem it sufficient to mention the almost  
 impossibility of virus reaching the size which these tumours  
 sometimes possess and also the great quantity of blood which  
 would inevitably follow the excision of them, and also  
 a dangerous consequence which would necessarily result  
 from the application of a ligature to a vein - and  
 also the circumstance of the cyst being found quite empty  
 viscidous virus - The celebrated Abernethy says the piles  
 which he has seen possess no vessels of any magnitude  
 and hence results the declaration which he makes re-  
 specting the treatment of them "It is now twenty years since  
 I first began to remove them with the knife & scissors and  
 I am never met with any circumstance to deter me from  
 it"

We now come to speak of the treatment - and we will  
 observe in the outset that a proper kind never has yet been  
 universally employed - among the ancients it was the custom  
 to employ the cautery & caustics and even the ~~scissors~~ have  
 obtained the practice of excising these tumours by the  
 latter of the two modes which have been named -



The first part of the manuscript is a list of names of the persons who were present at the meeting of the 1st of January 1841. The names are written in a cursive hand, and are arranged in a list. The names are: [illegible names].

The second part of the manuscript is a list of names of the persons who were present at the meeting of the 1st of January 1841. The names are written in a cursive hand, and are arranged in a list. The names are: [illegible names].



with a practice however which bears on its very face the  
 not glaring absurdity we are happy to state is now of lim-  
 ited adoption and the Profession is generally disposed to  
 now aside this for one at least more scientific  
 there being generally more or less affection of the system  
 involved in this affection the plan of treatment seems  
 to divide itself into local and general - and first of  
 the general treatment - in the first place we should  
 direct our attention to the state of the alimentary canal  
 as there are but few cases of hemorrhoids in which it  
 is not disordered - we can effect this by local bleeding  
 over the abdomen, a suitable regulation of the diet  
 and keeping the bowels open - care should be taken  
 to avoid all causes which are calculated to interrupt  
 the functions of the digestive organs and such as shall  
 tend to restrain in the least degree - violent exercise  
 either on horseback or in vehicles of any kind must  
 be carefully avoided as these effects might soon be  
 developed on the affected part - excess in diet is also  
 to be avoided and an entire abstinence from all  
 heated liquors is to be observed -

Some of the above named remedies might with strict  
 propriety be regarded as exciting causes, but since they  
 are also prophylactics we have classed them under  
 the head of remedies - Respecting the local treatment  
 we have but little to say as the whole list of reme-  
 dies may be summed up in a short space -







Of the two forms under which this disease presents itself  
 Blind & Open Pile, the latter is much the less painful  
 and production of inconvenience. For the most part there  
 is seldom any other prescription requisite for the patient  
 than merely to avoid excess in diet and painful exercise  
 should the bleeding be profuse and debilitating we are  
 to direct our patient to lie on a mattress, to be kept cool  
 and on a rigid diet and acidulated drinks and  
 when there is any symptom of plethora general depletion  
 cold and astringent applications to the anus, the thigh &  
 to the abdomen. cold injections are to be thrown into  
 the rectum - If failure to arrest the hemorrhage attend  
 these means and if by strict examination we find it  
 to come from a projecting tumour it must be excised  
 instantly - and if this is not sufficient we are then to  
 introduce compressed sponge for the purpose of making  
 him prepare on the bleeding surface - the custom prevails  
 among the French to apply the actual cautery -

When there has been great hemorrhagy from piles and  
 consequent debility it has been found necessary to make  
 use of some tonic means in order to restore the vigour  
 of the system - and for this purpose Bark, the mineral  
 acids & Steel have been found beneficial -

It is necessary here to observe that very serious consequences  
 have resulted from an entire as well as immediate  
 suppression of this discharge - some of the most dread-  
 full of all diseases have resulted from the suppression







This evacuation such as Epilepsy, Coughs Paralysis &c  
 When this does occur our first endeavour should be  
 to remove the evacuation, which can best be done  
 by applying Leeches to the part, use warm & stimulating  
 injections, irritating suppositories, purgatives, and rough  
 frictions around the margin of the anus -  
 We now come to speak of the first kind or Blind  
 one which is by far the most troublesome and painful  
 one in which the disease exists, for sometimes we  
 find the size and number of these tumours so great  
 that in every attempt to cure the part of the patient  
 feels the force the bowel will be thrown out as is  
 commonly supposed there will be a Protrusion Arise - Under  
 such circumstances there seems to be a demand for an  
 operation - of which kind the following are the prin-  
 ciple - caustic, Actual Caustic, the Ligature & Excision -  
 Against the adoption of the first method we have to  
 say that its action extends much beyond the point to  
 which they are limited, as well as the tardy manner  
 of its operation - The ancients were in the habit of using  
 the actual caustic but with a few exceptions it is  
 now universally abandoned - The Ligature is now  
 the means resorted to for the removal of these tumours  
 in consequence of the success which has attended  
 its application - and altho it is recommended by  
 the highest surgical authority we consider that its  
 use should in all cases give place to the knife -







If it be asked why do we advance this opinion our answer may be found in the well known fact that a ligature applied to any organised mass will produce some local effects such as pain swelling and the like - and that these effects are proportional to the tightness of that ligature - As our object then is to produce a complete separation of the tumour from the surrounding part ought we not to adopt the speediest method by which we can effect this object? To this mode of operation (the knife) it has been objected on account of the severe bleeding which always occurs after it - But we appeal on the authority of My. Cooper Boyer & Dupuytren that hemorrhage does not always occur after it - in fact Abernethy says "it is now twenty years since I first began to remove them with the knife and scissors and I have never met with any circumstance to deter me from their employment - From the authorities quoted it must appear that our fears of fatal hemorrhage are perfectly groundless -

Before we excise the pile we should first restore the digestive organs to their natural functions and have the bowels in such a situation that a daily evacuation is had regularly - Just before the operation the bowels should be perfectly emptied - Having emptied the bowel to the utmost ~~we~~ ~~use~~ and cleansing the part by being bathed in warm water the pile should be seized with a double hook and when drawn upwards it may be removed by a pair of scissors - a si



although has been advised for the excision of a thickened  
portion of intestine but extremely say we do not know how  
far the ulcers may penetrate and therefore recommend the best  
the incision made with the knife resembles two curved lines  
joined at their extremities - after the tumours have been  
removed, the wound should be suffered to bleed as long as  
they are disposed



14-

method has been advised for the excision of a portion  
of thickened intestine, that of cutting it out with the scissor  
but Abemethy says we cannot tell how deep they will  
cut and therefore recommends the bistoury - The incision  
made with the knife resembles two curved lines joined  
at their extremities -

Abemethy advises after the tumours have been removed  
the wound should be suffered to bleed as long as they  
are disposed to do so. and after all bleeding has ceased  
the hand should be carefully restored to its natural place  
by the finger previously arranged - In consequence of  
constriction by the splinters which will act as a constant  
irritant and produce bleeding particular care should be  
taken that the incised parts are not under the influence  
of this muscle - after this precaution has been  
observed the patient should be placed on the back  
with the parts exposed and the parts around the  
wound frequently exposed to be bathed with cold water  
in order to prevent protrusion towards the  
site of the wound -

If haemorrhage do occur in despite of these precautions  
we can arrest it by the introduction of compressed  
sponges into the bleeding vessels which is to be retained there  
until the mouths of the bleeding vessels are closed  
by adhesive inflammation - Respecting the after treatment  
we have only to remark that it is extremely desirable  
that the patient should be kept quiet - as long as possible







in a recumbent posture and prevent for several days any evacuation from the bowels -

Patients affected with Haemorrhoids sometimes complain of pain in that region and Monteggia thinks that there may sometimes be found a neuralgic form of this disease. In order to relieve this pain various means have been employed but we think there is one class which particularly deserves notice. we mean Narcotics applied in the form of ointments - The writer just quoted was in the habit of using the Antiscorbutic Liniment after preparing it in the following way - boil a handful of the bruised flowers of plantain in an ounce of lard, strain and let the mixture cool - afterwards add the yolks of two eggs and mix them thoroughly - this then to be used as an ointment -

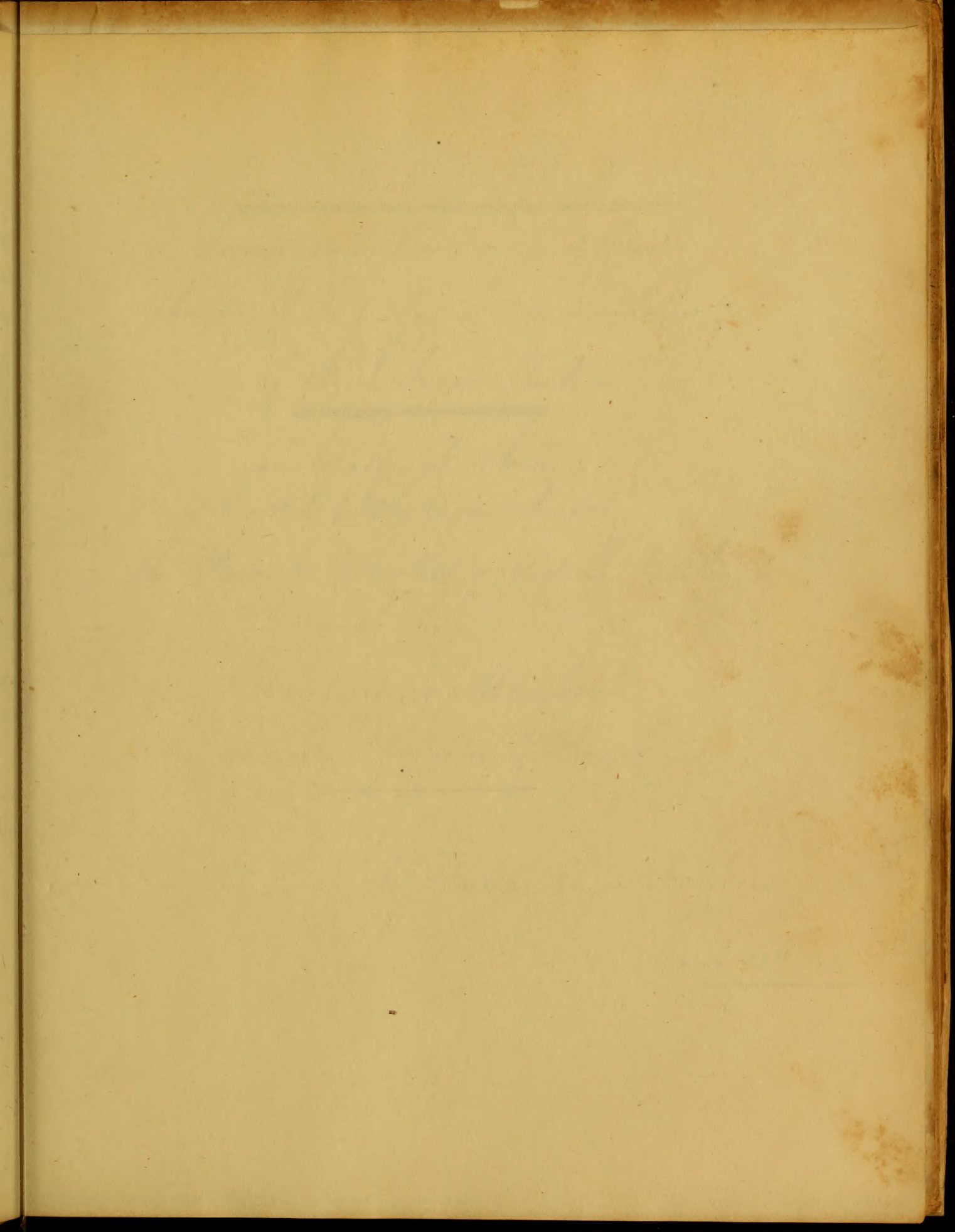
A mixture of Bark and Coctack and the extract of Stannum has long been a favorite prescription in a part of this country -

Cold injections may be also used with advantage in relieving the inconveniences attendant on this unpleasant & often painful disease -

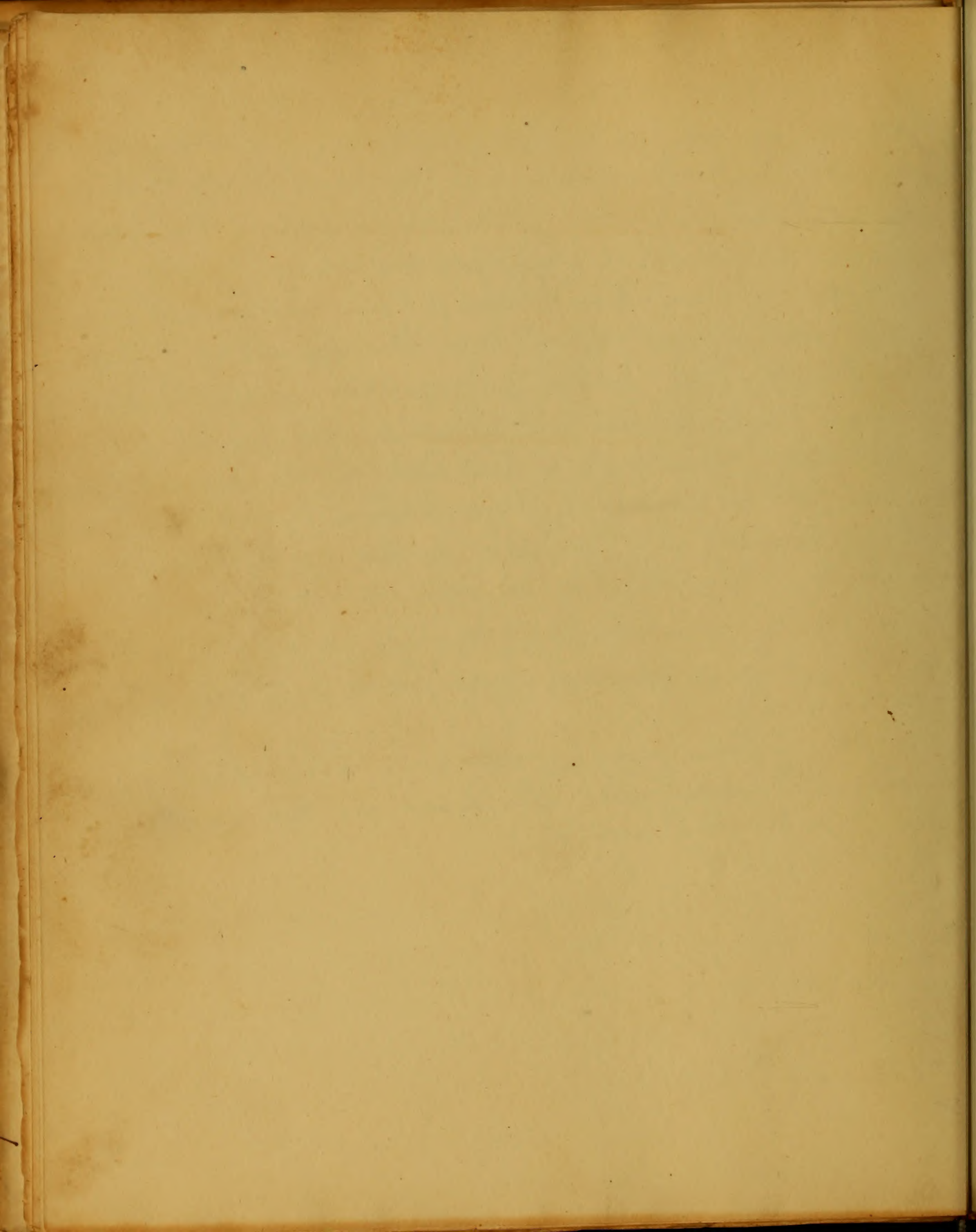


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Some Considerations, on the different  
Theories of the Excitation & accumulation  
of the Galvanic fluid —

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an Inaugural Thesis,  
submitted to the Examination of  
the Provost, Trustees, & Medical Faculty  
of the  
University of Maryland  
for the degree of Doctor of Physick —

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by Philip Rogus Hoffman

March 12<sup>th</sup> 1831

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Some considerations on the subject

of the nature of the human mind

by John Locke

in two dialogues

between a Master

and a Pupil

the first of which is

entitled Of the human understanding

in general

and the second of which is

entitled



Some Considerations, on the different  
Theories of the Excitation & accumulation  
of the Galvanic fluid —

by Philip Rogers Hoffman



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Among the constellation of brilliant discoveries, in the different departments of science, which have so peculiarly characterized the present century, none perhaps are more remarkable, either for the novelty of their nature or the splendour of their results, than those connected with the subject of Galvanism.

This subject, comprising thirty years ago but a few scattered facts little known & apparently of little importance, has within this time, with a rapidity almost unparalleled, expanded at once into a most important & extensive science, engaged the devotion & immortalized the names of some of the greatest geniuses of the age, & developed an agent whose power in unravelling the constitution of material substances is entirely unique; which forms to Chemistry an ally which is invaluable; & whose importance in the great arrangements of nature we know must be great, although we cannot justly appreciate it.

Every point of this science, therefore, possessing such interest, the subject of the origin of, & mode of calling into operation, this great agent, has not failed to ~~call out~~ excite the warmest interest. Different theories have been advanced & advocated to account for its origin: some of these it is our object at present to consider - There are points of difficulty connected with all - none may be considered complete or entirely satisfactory - but  
"Est quodam prodire tenus, si non datur ultra." -



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Of the different theories, then, which have been offered to account for the Excitement & accumulation of the Galvanic fluid, (omitting the conjecture of Galvani, which was at once satisfactorily proved to be a conjecture only) the first advanced & fairly supported was that of Volta; generally known at present under the denomination of the 'Electric theory' or the 'theory of Excitation by contact' - This, originally started by Volta & ably supported by him, has been adopted & advocated by many of the highest philosophers from his time to the present; & certainly contains points which may be considered more generally received than those of any other theory whatever; Especially as they are to be considered essential points of the more complex theory since advanced by Sir Humphry Davy -

The cardinal point of this theory is, that different bodies when brought into contact with each other (as the metals in common Galvanic arrangements) have the power of so acting on each other as to alter the quantity of electricity natural to each, to excite Electro-motion, or to cause part of the electricity of one to flow into the other; thus leaving one in the positive, & the other in the negative electrical state - This power of electro-motion on the contact of dissimilar substances is, I believe, considered as an ultimate fact; one which it is not attempted to explain, but which depends for its establishment on observation & experiment -

Among the facts & points on



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which the theory is founded may be enumerated the following.

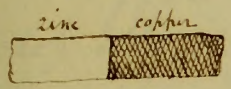
If two discs of different metals, as copper & zinc for example, provided with insulating handles, be brought into contact with each other, & then separated by the handles so as to avoid touching the plates themselves, ~~they~~ on presenting each to a delicate condensing electrometer, the plate of which is of the same metal as the plate presented to it; (or else with the intervention of some good conducting substance which cannot be supposed to have any chemical action on either metal & may at the same time prevent any electro-motion by contact between the plate presented & the plate of the condenser) one of the metals (e.g. the zinc) will be found to be in the positive state, the other (e.g. the copper) in the negative. — This power of electro-motion on contact is found to exist, in a greater or less degree, not only in relation to any two of the metals, but to extend to the case of very many other different substances when brought together. The Abbe Wauy, however, having proved with regard to some mineral substances, the principle which has been demonstrated by M. Becquerel to extend to many others (& perhaps to bodies generally) that two dissimilar substances by pressure together are placed in the relative situations of positive & negative; to avoid the possibility of part of the effect being attributable to the pressure of the dissimilar discs on each other, & to obviate also the objection that the discs were shown in different electrical states only after separation, & that the effect might possibly be owing to the separation of the discs from each other, the following



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Experiment may be instituted. Let a piece of copper + one of zinc be so connected as to form one piece. If this be held by



the copper end + the zinc end be brought into contact with the copper plate of the condensing electrometer, the zinc having copper now on each side, the electro-motive energies will counteract each other, + no evidence of electrical excitement be given; but if the zinc extremity now be held + the copper end be presented to the plate of the Condenser, also of copper, the former obstacle does not exist, + the electrometer will give indication of negative Electricity received by communication from the presented plate -

Two metals may therefore exhibit an electro-motive power while still in contact - We know that this experiment has been questioned: the truth + accuracy of the results stated are however pretty generally acknowledged, even by the opponents of <sup>the</sup> theory, who now direct their efforts to substitute another cause for the result, namely chemical action - "It is not possible (says Sir H Davy. Philos Trans - 1807 - p 49) to refer the electricity exhibited by the apposition of metallic surfaces to any chemical alterations, especially as the effect is more distinct in a dry atmosphere, in which even the most oxidable metals do not change, than in a moist one in which many metals undergo chemical alteration -"

Arrangements may also be made, of considerable activity,



1848



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(as for example of water, charcoal, & dilute nitric acid) between the different members of which, that come in contact with each other, we have no reason (either from their previously observed relations, or from the results after the electrical Excitement has occurred) to believe there exists the least degree of affinity, or that the least chemical action has taken place - It is certainly unphilosophical to suppose a cause not the least evidence of whose Existence is manifested in the case. We must therefore recur to our only alternative, a principle which we think is fairly deduced from this circumstance & the experiments and considerations above, viz. that on the apposition of dissimilar substances there in many cases takes place an electro-motion, or disturbance of their Electrical Equilibrium entirely independent of chemical action -

As it has been objected however (by Dr Boerhaave) that this theory makes no provision for the accumulation of the fluid at the Zinc or positive end of the apparatus, we must now consider this (which if substantiated would form an insuperable) objection, and the answer which we conceive may be satisfactorily given -

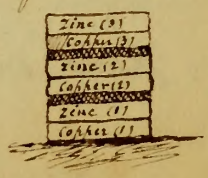
"The two metals (says Dr B.) by their contact become one positive & the other negative; and this is equally the case with each pair: but the fluid that is interposed between the metals is conceived to restore the equilibrium of the electricity which has been disturbed by the metals. This is the whole effect of the apparatus;



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" and we are not informed how any Electricity can be actually  
 " produced or generated; as it would appear that the nature of  
 " the instrument is to cause an Electric action in one part, which  
 " must be immediately counteracted by another. Whatever defi-  
 " ciency there was in any Copper plate would be immediately sup-  
 " plied by the water communicating the superabundant Electricity  
 " of the opposite Zinc plate, so that the Effect of the whole would  
 " be reduced simply to the difference between the two Extreme plates  
 " of Copper & Zinc! The hypothesis (says Dr B.) may be thus  
 illustrated. C<sub>1</sub> + Z<sub>1</sub> produce by their contact a  
 change in their natural state of electricity: part  
 of what belonged to C<sub>1</sub> is transferred to Z<sub>1</sub>, so  
 that C<sub>1</sub> becomes negative, & Z<sub>1</sub> positive; & sup-  
 posing that their natural share of Electricity is represented by 100°  
 & that the copper gives 1/10 to the zinc, C<sub>1</sub> & Z<sub>1</sub> will be brought to the  
 states of 90° & 110° respectively. The same alteration in their elec-  
 trical states will, at the same time, take place in the second pair  
 of plates C<sub>2</sub> & Z<sub>2</sub>. The water (or fluid) which is in contact with  
 C<sub>2</sub> & Z<sub>1</sub> will however, by its conducting power, have the effect of  
 equalizing the electrical states of those bodies, & will therefore reduce  
 the electricity of Z<sub>1</sub> to 100°, & raise that of C<sub>2</sub> to the same degree;  
 the electrical states of the four plates, therefore will be 90°, 100°, 100° & 110°.  
 The third, & every succeeding pair of plates will be acted on, exactly  
 in the same manner. The electricity of the copper<sup>(3)</sup>, which was





By the reasoning of Dr B. the state of the different plates in the series will be in the beginning of the action, & before the conducting power of the fluid is supposed to operate, as is represented by the left hand column: Their state during fullest operation, & when the conducting power of the fluid is supposed to act will be represented by the right hand one —





reduced to  $90^\circ$  by the action of the zinc<sup>(3)</sup> will be brought to  $100^\circ$  by sharing a part of the excess which the former zinc plate<sup>(2)</sup> had acquired - This appears to be all the change that can be produced upon the original hypothesis of Volta. In this state of things the apparatus will be nearly inert; at least it will have no more power than a single pair of plates, for all the intermediate ones, being in contact with water, will be brought to a state of equilibrium -

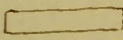
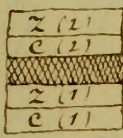
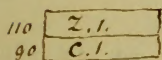
It appears to us, however, that Dr B in pursuing his consideration of the action of the pile has forgotten to bear in mind the essence of the proposition on which the hypothesis is founded, viz that if a plate of zinc & one of copper be in contact, & consequently whenever they are in contact, there is a principle in action which forbids them to remain in the same electrical state. The same law therefore which is stated in the first step of the operation to break the electrical equilibrium of each pair of plates will prevent the continuance of an equilibrium between any pair as long as they continue in contact; or, referring to the diagram, the same law which on the first contact of Z1 with C1, or of Z2 with C2 broke their equilibrium & made their relative state as  $90^\circ$  to  $110^\circ$  will tend to preserve the same relative state, & will prevent Z2 & C2, or any other pair from continuing, during any stage of the action, at the same degree  $100^\circ$  - An additional flow must, therefore, certainly take place in the direction of the zinc -



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Our idea of the action of the pile in this case may perhaps be more clearly expressed by considering it synthetically - Suppose the first pair of plates C<sub>1</sub> + Z<sub>1</sub> to be placed in contact: by the hypothesis there is (as stated by D<sup>r</sup> B) an electro-motive power brought into action by their contact which places their relative electrical states as 90° to 110° - If we then bring into contact with each other the second pair, Z<sub>2</sub> C<sub>2</sub>, their electrical states will also stand as 90° to 110° - Now place the second pair upon the first, with the moistened cloth intervening, & a flow will take place from Z<sub>1</sub> to C<sub>2</sub> to establish an equilibrium, and (the conducting power of the fluid being supposed perfect) an amount which may be expressed by 10° will pass, depressing Z<sub>1</sub> + raising C<sub>2</sub> to 100° each - The same electro-motive force, however, which originally placed C<sub>2</sub> + Z<sub>2</sub> to each other as 90° to 110° tends to preserve between them the same relation; & as the quantity of electricity in the second pair of plates may be now expressed by 210° (C<sub>2</sub> = 100 + Z<sub>2</sub> = 110) this will tend to be divided between them in the proportion of 90 to 110, or their respective shares will be as 94.5 + 115.5 - Moreover C<sub>1</sub> + Z<sub>1</sub> are left by this supposition in the relative states of 90° + 100, but their tendency is to assume to each other the relative proportion of 90 to 110 - C<sub>1</sub> therefore must give to Z<sub>1</sub> an additional share of its electricity to bring them into this ratio - This will enhance the state of Z<sub>1</sub>, in a slight





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degree, and as this was already above that of C<sup>2</sup> (94.5) an additional flow must take place thro' the conducting fluid to C<sup>2</sup> & part of this of course be distributed to Z<sup>2</sup>, whose Electrical state must therefore be raised somewhat higher than that stated above. (115.5)

This will all take place Even on the supposition that C<sup>1</sup> is insulated, & entirely unable to recover either from the general reservoir, the earth, or from the surrounding air a quantity of Electricity to replace that which by contact is has been compelled to impart to the zinc. But on the supposition that the contrary is the case, & that C<sup>1</sup> has the power to draw from surrounding objects Electricity to restore its natural share of which it has been deprived by Z<sup>1</sup>, the flow of Electricity from C to Z must be much freer throughout the pile, & consequently the accumulation at Z<sup>3</sup> be very much greater also -

Supposing C<sup>1</sup> to have the power to recover entirely the electricity which it has imparted to Z<sup>1</sup>, & the conducting power of the fluid to be perfect, then on the supposition that the states in which the Electro-motive power tends to place the plates C & Z to each other are to each other as 90° & 110, then whatever electricity

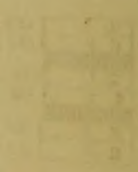
Z<sup>1</sup> imparted to C<sup>2</sup> to bring them to an Equilibrium (110°) it (Z<sup>1</sup>) would draw from C<sup>1</sup> & that from the ground & surrounding air, and the state of the plates might be expressed thus -

$$\begin{aligned} \text{As } 90^\circ : 110 & :: C^1 (=90) : Z^1 (=110) \\ & \cdot 90 : 110 :: C^2 (110) : Z^2 (134.4) \\ & 90 : 110 :: C^3 (134.4) : Z^3 (164.2) \quad \text{---} \end{aligned}$$

Z <sup>3</sup>	164.2
C <sup>3</sup>	134.4
Z <sup>2</sup>	134.4
C <sup>2</sup>	110
Z <sup>1</sup>	110
C <sup>1</sup>	90



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The great flaw, however, in the theory of galvanic Excitation by Contact (and that which has given its opponents the fairest chance of Condemning the whole by subverting this point) is the point advanced by Volta & strenuously insisted on by him & other advocates of the theory, that the interposed fluids act entirely as conductors, and have no effect as chemical agents in producing the phenomena - "Without disputing, says Dr Henry, the accuracy of the facts which suggested his theory, it is sufficient for its refutation that it is irreconcilable with other phenomena; & especially that the chemical agency of the liquid on the more oxidizable metal of galvanic arrangements is essential to their sustained activity." This certainly may be considered a refutation of part of the theory, but (it will be remembered) of part only.

The position, however, that the part performed by the fluid is that of a conductor only, & that any chemical action in the different parts of the pile (or trough) is merely extraneous & incidental, & of no importance to the galvanic excitement, is contradicted apparently by so many facts, & the contrary so often evidenced, as to lead many to adopt an opinion directly the contrary; viz. that chemical action is in all cases the first step in the process, & indeed the sole cause of the development of the galvanic fluid in our common arrangements - "When we consider, says Dr Bostock, how readily water transmits the electric fluid, we can scarcely attribute to a deficiency



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



11  
in its conducting power the comparatively small effect which it produces in the pile, nor to a mere increase of this conducting power the vastly greater activity of diluted acid or neutral salts" - That chemical changes do take place in the series & that these are highly important to the galvanic excitation & accumulation are so evident as not to require to be dwelt upon - suffice it to say that the chemical action of the fluid on one of the metals in our common arrangements is necessary to their sustained activity - Pure water entirely deprived of air, appears (by the experiments of Sir H. Davy), to be inefficient; & the degree of activity in galvanic arrangements appears indeed to be pretty nearly proportioned to the chemical activity of the fluid - To infer, however, that chemical action is not only the first step in the action of any galvanic arrangement, but also the <sup>only</sup> cause of all the excited fluid is, we think, to draw a wide conclusion than the premises warrant, & one which can scarcely be maintained -

The positions upon which the (purely) chemical hypothesis rests (to use the words of one of its strongest advocates, Dr. Berzelius) are three - "1. One of the metals, the zinc for example, is oxidated, the oxidated part has its capacity for electricity diminished, & the electricity is consequently evolved - 2. This electricity is received by the contiguous fluid, & is transmitted by it to the surface of the other metal, the copper which is not oxidated, and



\*By Dr Murray (Vol. 1. 367) we find this a little differently stated  
"The action, it is conceived alters the relation of the more  
"oxidable metal to electricity, & causes it to evolve a part  
"of that power at the surface acted on. The electricity of a  
"zinc plate <sup>(2<sup>n</sup>)</sup> is thus put in motion, & determined to the outer  
"surface, which thus becomes positive; & the other surface be-  
"comes negative, & communicates the same state to the Copper in con-  
"tact with it" —

We cannot conceive, we must say, how  
evolution of a quantity of free electricity at the surface of a  
(as that of Zn next the fluid) can thus put in motion & deter-  
mine to the same surface the electricity of the remainder of the  
fluid which is unacted on by the fluid —



" & is therefore disposed to receive it, & the whole of the copper plate  
 " hence becomes positive: 3<sup>d</sup> The remaining part of the zinc which is  
 " not oxidated remains in its natural state, & therefore, as relates to  
 " the copper, is negative" —

Allowing the first position that by  
 the oxidation of the zinc Electricity is liberated or generated, we  
 must confess ourselves in the same situation, in regard to the  
 subsequent steps of this theory, in which Dr Boetock was in regard  
 to the previous one: we do not see how the subsequent steps provide  
 for the accumulation toward one end of the apparatus — The  
 surface of Z<sub>1</sub> which is in contact with the fluid becomes oxidated  
 and a certain portion of Electricity evolved: but by  
 position 3<sup>d</sup> the remaining part of Z<sub>1</sub> which is not oxid-  
 ated remains in its natural state: what therefore  
 prevents the liberated Electricity from entering the  
 substance of the plate Z<sub>1</sub>, or determines the whole of it to C<sub>2</sub>, to  
 place it in a higher Electrical state than Z<sub>1</sub> which it left?

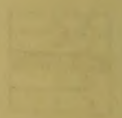


If it be "by the attraction of the next copper plate for Electricity"  
 (Boetock, *Philos. of Salvan.* p 125) C<sub>2</sub> must be in a negative state;  
 & whence does this negative state arise? — From Contact? —

Although, therefore, Chemical action may be con-  
 sidered an important source of Electrical Excitement, and the  
 Effects of this action be too obvious in our galvanic arrangements  
 to permit us to disregard it, some other principle, we think, (if we  
 have reasoned rightly) must be brought in to account for its accu-  
 mulation at one end of the series —



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Of the theories advanced to connect in some degree the two conflicting opinions, the most important, both in regard to its high source & the generality with which it is advocated, is that of Sir W. Davy, which supports the primary electro-motive power of different substances brought into contact, while it also acknowledges the importance, & requires the aid, of chemical changes in continuing & keeping up this excitement - "The electrical energies of the metals, (says Sir Humphry) with regard to each other or the substances dissolved in the water (in the Voltaic, & other analogous instruments) seem to be the causes that disturb the equilibrium, & the chemical changes the causes that tend to restore it; & the phenomena most probably depend on their joint agency" -

A fundamental point, however, in the theory of Sir H Davy, & which he applies to account for the restoration of equilibrium between the two dissimilar plates in any one cell or compartment as well as to explain the decomposition effected, & the accumulation of different substances about the opposite poles, is, that different substances possess different natural electrical states - This he infers from various experiments - On the contact of the acids which are capable of existing in the solid state, with a plate of metal (copper) the acids were found to evince distinct negative electricity, or to become negative; & the metal positive - When the same plate was made to touch dry lime, strontites, magnesia, soda (after exposure to a great heat) or any alkaline



"In the Voltaic pile of zinc, copper, & solution of muriate  
"of soda, in what has been called its state of electrical  
"tension, the communicating plates of copper & zinc are in op-  
"posite electrical states. But solution of muriate of soda  
"being composed of two series of elements possessing opposite  
"electrical Energies, the oxygen & acid are attracted by the  
"zinc, & the Hydrogen & Alkali by the copper. The balance  
"of power is momentary only; for solution of zinc is formed,  
" & hydrogen disengaged. The negative Energy of the copper  
" & the positive Energy of the zinc are again exerted, enfeebled  
" only by the opposing energy of the soda in contact with the  
" copper, & the process of electromotion continues as long as



substance whose affinity for water was not too great, so as to interfere with the result, the alkaline substance was always found positive; & the metal negative - On the contact, also, of dry lime with oxalic acid, the acid became negative, & the lime positive - The acids & alkalis are hence inferred to possess different natural electric energies - to be naturally in different electrical states - or the acids naturally negative, the alkalis naturally positive - The same conclusion is drawn with regard to oxygen & hydrogen; not by direct Experiment, but by the Agency & Habitudes of their Compounds -

These Electrical states or Energies must also by the hypothesis continue inherent in the substances, whether they be in combination or not - (Phil. Trans 1807. p. 40) - The first step, in the action of the pile (or trough) being, that the zinc & copper plates of each pair, by their contact, break the electric equilibrium, all the zinc plates of the series become, at the same moment, positively electrified, & all the copper ones negatively - The second step now is, that the salt of the intervening fluid, or the fluid itself, being composed of two elements possessing different natural electrical states decomposition takes place, by the strong attraction of the positive zinc for the negative acid, or oxygen, ~~overcoming~~, & of the negative copper for the positive alkali, or hydrogen, ~~overcoming~~ the affinity which kept them together, & the two elements are resolved in their different electrical states; & passing, each to the metal opposite in electrical state to itself, tend to restore an equilibrium.



the chemical changes are capable of being carried on". (Sir H. Davy, it may be remarked, throughout his exposition of his hypothesis, & the experiments illustrative of it, uses different Electrical "Energies" - If he does not intend 'Electrical Energies', however, as synonymous with 'Electrical states' it is rather difficult to understand his exact meaning; and the two terms are used synonymously by Dr. Murray, Henry, & others in the exposition of his theory -

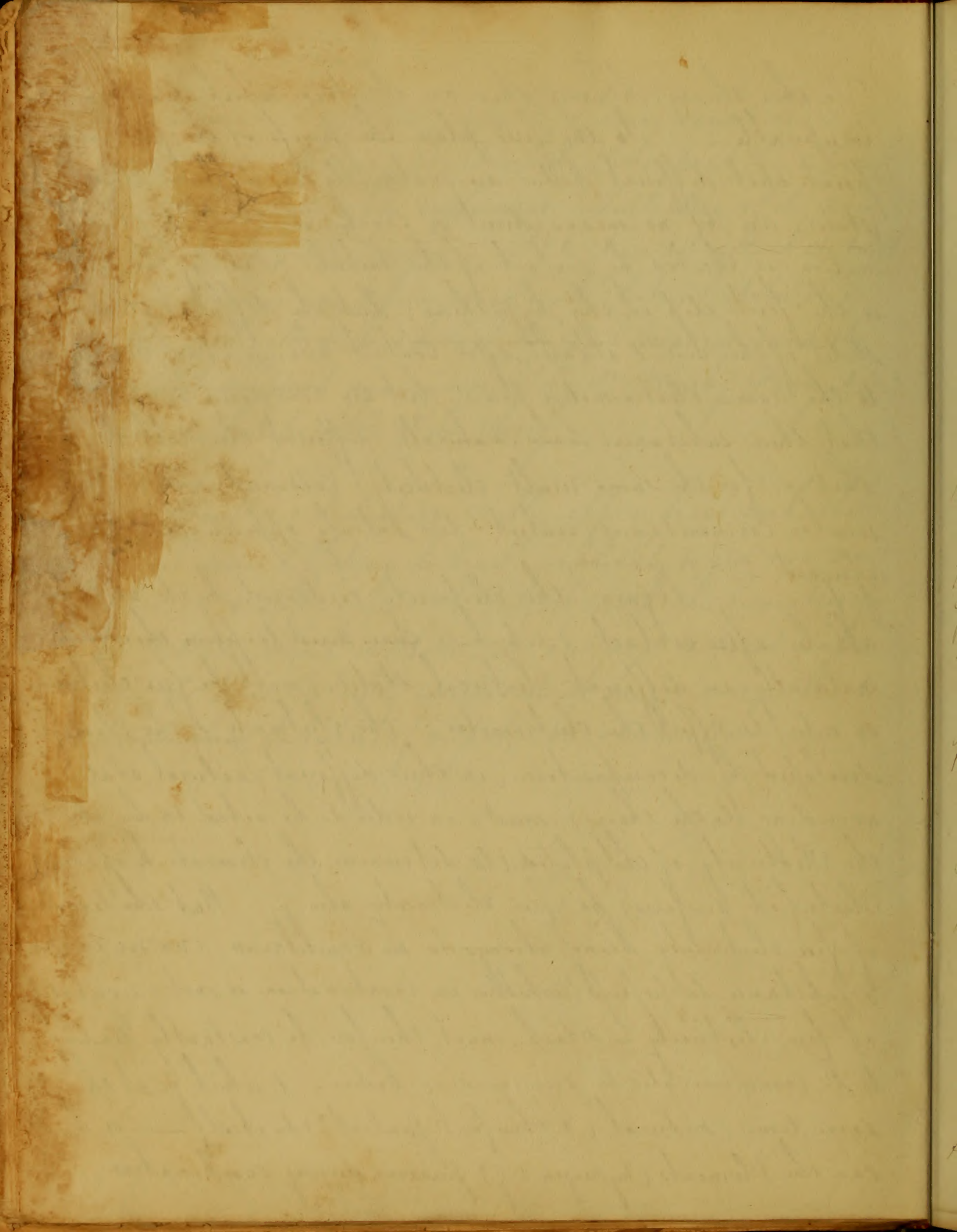
These results & deductions really appear to us such, that we feel some diffidence to trust implicitly to our own reasonings: & approaching the subject with the veneration for Sir H. Davy which we have, we are more disposed to fear that we have possibly misconceived his meaning, than to believe him capable of a palpable inconsistency. —



To this theory, however, there are objections which, to us, are insuperable - In the first place the proofs of the fundamental point that different bodies are naturally in different electrical states, are by no means direct or conclusive - That Electromotion is excited by contact of the metallic plates of the series is the first step in this hypothesis; but the different electrical states of the acids & alkalis, after contact also, are not referred to the same electromotive power, but are considered as proof that these substances have naturally different electrical states - That is, for the same result (Electricity) evidenced under exactly similar circumstances (contact) two entirely opposite causes are assigned -

Again, the Electricity evidenced by the acids and alkalis after contact, & which is considered to prove them to be naturally in different electrical states, must be free electricity in order to effect the electrometer: the electricity of the elements developed by decomposition (in their different natural states, according to the theory) must, in order to be acted on by the the Electricity of the plates, (to determine the elements to oppositely electrified surfaces) be free electricity also - But the tendency of free electricity being always to an equilibrium, can we imagine a substance to possess (whether in combination or not) a quantity of free electricity - which must therefore be constantly tending to be communicated to surrounding bodies - & which is at the same time natural (& therefore essential?) to itself - or how can the elements (hydrogen, e.g.) preserve during combination,







without coming to an equilibrium, the opposite Electricities with which they are developed, & which they afterwards yield to restore the Equilibrium of the metallic plates? —

After the Exposition of the entire failure, in our opinion, to establish, as yet, any sufficient & comprehensive theory of the Excitation of the Galvanic fluid, it will scarcely be expected of us to undertake it — We leave it now — with the impression strong upon our minds however, that apposition (or contact) & chemical action are both efficient causes in putting this power into motion; & that a full theory of the mode of Excitation & accumulation of the Galvanic fluid as exhibited in our usual arrangements is reserved to be accomplished by him who shall consistently explain their combined effects —

Our labours, in the mean time, however, have not been entirely in vain, if they only teach us how little we really know on the subject; & enable us at least to avoid adopting the Errors of others: — Especially if the sentiment of the poet be correct,

"Virtus est vitium Luce, Et sapientia prima  
Stultitiae Carnifex" —

Saturday March 12<sup>th</sup> 1831 —



End



